HOLTEC DECOMMISSIONING INTERNATIONAL

Krishna P. Singh Technology Campus, 1 Holtec Blvd., Camden, NJ 08104
Telephone (856) 797-0900
Fax (856) 797-0909

April 28, 2026

Mr. Todd Ghiosay
Region 3 – Division of Environmental Remediation
Spill Prevention, Response and Remediation
New York State Department of Environmental Conservation
21 South Putt Corners Road
New Paltz, New York 12561

Re: Closure Report – NYSDEC Spill Case No. 2506842
Holtec Indian Point 2, LLC
450 Broadway, Buchanan, NY 10511
License No. 3-2140

Dear Mr. Ghiosay:

Please find the attached report prepared for the tank closure and spill remediation support services in connection with former underground storage tank (UST) GT2LFST, aboveground storage tank (AST) GT 2/3 FOT, and Spill Case Nos. 2402984 and 2506842 in the Gas Turbine 2 & 3 Area at Indian Point Energy Center (IPEC) located at 450 Broadway, Buchanan, New York. This report includes all information necessary to support NYSDEC's review and closure of Spill No. 2506842. The report summarizes the spill remediation activities, field observations, analytical results, and all documentation to demonstrate that no further action is warranted.

If you have any questions regarding this submission or need additional information, please contact Carlos A. Garcia at (646) 355.8972 or Kristin Maddalo at (914) 254.7248.

Sincerely,

Matt Johnson

Digitally signed by Matt Johnson
DN: cn=Matt Johnson, c=US, o=Holtec, email=m.johnson1@holtec.ocm
Date: 2026.05.11 10:16:12 -04'00'

Matthew Johnson
Acting IPEC Site Vice President
Holtec Decommissioning International, LLC

Enclosures:

- Attachment 1 – TRC Closure Report – GT2LFST, GT 2/3 FOT, and NYSDEC Spill Case Nos. 2402984 and 2506842

cc: (with Enclosures)

Benjamin Reynolds (Holtec)
Carlos A. Garcia (HDI)
Kristin Maddalo (HDI)
Matthew Johnson (HDI)
Walter Wittich (HDI)
Jenna Raup (TRC)
Allison Rexroat (TRC)

1407 Broadway, Suite 3301
New York, NY 10018
T 212.221.7822
TRCcompanies.com

May 7, 2026

Ms. Kirstin Maddalo
Holtec Decommissioning International, LLC
Indian Point Energy Center
450 Broadway, Suite 1
Buchanan, New York 10511

Re: **Closure Report – GT2LFST, GT 2/3 FOT, and**
NYSDEC Spill Case Nos. 2402984 and 2506842
Holtec Indian Point 2, LLC
450 Broadway, Buchanan, NY 10511
License No. 3-2140

Dear Ms. Maddalo:

TRC Engineers, Inc. (TRC) was retained by Holtec Decommissioning International, LLC (HDI) for tank closure and spill remediation support services in connection with former underground storage tank (UST) GT2LFST, aboveground storage tank (AST) GT 2/3 FOT, and Spill Case Nos. 2402984 and 2506842 in the Gas Turbine 2 & 3 Area at Indian Point Energy Center (IPEC) located at 450 Broadway, Buchanan, New York. This tank closure report documents the closure of former tanks GT2LFST and GT 2/3 FOT, as well as NYSDEC Spill Case Nos. 2402984 and 2506842.

Site Background

The Gas Turbine 2 and 3 (GT-2/3) Area is located within the IPEC property on a separate land parcel situated east of Broadway in Buchanan, New York. The area is bordered to the northeast by an unnamed access road and a Con Edison Substation; to the east and southeast by a vacant, wooded parcel; to the south and southwest by a wooded lot and an underground natural gas pipeline corridor; and to the west and northwest by wooded land and Broadway. Historical aerial imagery indicates that the GT-2/3 Area consisted of undeveloped, wooded land until at least 1974, when site development began to support installation of the former gas turbine units. By 1984, two structures housing Gas Turbines 2 and 3 had been constructed in the eastern and central portions of the area, and the GT-2/3 Fuel Oil Tank (FOT) was present in the southern portion of the site. The two gas-powered turbines served as backup power generation units for Units 2 and 3 IPEC operations. A Site Location Map is provided as **Figure 1**.

Unit 2 was permanently shut down in April 2020 and Unit 3 was permanently shut down in April 2021. The GT-2/3 Area is identified as an Area of Concern (AOC) in the NYSDEC-approved Remedial Investigation Scoping Work Plan (RISWP) dated June 2022. The RISWP is part of the Order on Consent and Administrative Settlement (OCAS) for the Site. In accordance with the OCAS, the work described in this closure report was performed in general accordance with 6 NYCRR Part 375 (Part 375) and NYSDEC Division of Environmental Remediation (DER)-10 Technical Guidance for Site Investigation and Remediation (DER-10). Further assessment of the GT-2/3 Area will be performed at a later time in accordance with an approved Remedial Investigation Work Plan.

Tank and Spill Closure Activities and Investigations

The below sections document closure activities and investigations for former AST GT 2/3 FOT and UST GT2LFST, and NYSDEC Spill Case Nos. 2506842 and 2402984. All soil samples collected as part of the tank and spill closure activities were placed in laboratory-supplied containers, stored in a chilled cooler, and submitted under standard chain-of-custody procedures to Eurofins Test America (NY Lab ID No: 11452), an Environmental Laboratory Approval Program (ELAP)-certified laboratory, for analysis. Grab samples consisted of discrete sample locations while composite samples consisted of a mixture of 3 to 5 discrete samples from different locations across a stockpile.

Excavated soil was stockpiled for reuse as backfill, where appropriate. “Contaminated material” was segregated, contained, and transported off-site for disposal.

A Community Air Monitoring Plan (CAMP) was implemented in general accordance with Appendix 1A – New York State Department of Health (NYSDOH) Generic Community Air Monitoring Plan of DER-10 during ground-intrusive activities in the GT-2/3 Area (November 4, 2025 and March 19, 2026). The purpose of the CAMP was to monitor for the release of fugitive dust and vapors to the downwind community as a result of the work, and implement corrective measures as necessary. The CAMP consisted of one upwind and one downwind monitoring station, each equipped with a MiniRAE photo-ionization detector (PID) and a DustTrak unit housed in protective cases with anti-moisture filters and tripod bases. The instruments operated continuously, and field personnel recorded visual readings at 15-minute intervals. DustTrak data can be provided upon request. Daily site sketches, photographs, and field notes were compiled into Daily Activity Reports and submitted separately for your records.

A photograph log documenting closure activities of GT 2/3 FOT piping, GT2LFST, and Spill Case No. 2506842 is provided as **Attachment 1**.

Closure Activities – Former AST GT 2/3 FOT

The 213,840-gallon AST, GT 2/3 FOT, formerly used for storing No. 2 fuel oil, was closed and removed by HDI and their subcontractor Miller Environmental Group (MEG) between May 2 and June 3, 2022. MEG completed the AST closure in accordance with the NYSDEC-approved Closure Work Plan, dated March 21, 2022. The work included confined-space entry, evacuating the remaining product, hot-pressure washing and flushing the tank interior, and systematically disconnecting and removing the aboveground piping and filling ports for cleaning and disposal. Once the tank was certified inert and decontamination was completed, it was demolished and removed by HDI and their subcontractor, Champion Special Services (Champion).

A closure report dated May 30, 2024, was prepared by HDI and submitted to NYSDEC and includes MEG’s closure documentation. No further communication has been received from NYSDEC. The closure report and photo documentation is provided as **Attachment 2**.

Approximately 242 linear feet of buried remote fill piping was associated with GT 2/3 FOT. The piping

was present approximately 3 feet below ground surface (bgs), was known to consist of asbestos-containing material (ACM), and extended from GT 2/3 FOT to the north to two terminal fill ports: one associated with Gas Turbine 2 and one associated with Gas Turbine 3. Between November 2025 and January 2026, approximately 242 feet of underground remote fill piping was uncovered, abated, removed from the ground, and transported off-site for disposal by Champion. Excavated soil was characterized, placed in roll-off containers, and transported off-site for disposal at Clean Earth of Carteret, New Jersey (132310) (CEC). Disposal manifests are provided as **Attachment 4**.

In accordance with DER-10, TRC collected 13 endpoint soil samples following removal of the GT 2/3 FOT Remote Fill Piping. Soil samples were collected from immediately beneath the pipe run and at equally spaced intervals. Soil sampling was conducted on December 18, 2025. Samples were analyzed for Commissioner Policy 51 (CP-51) Tables 2 and 3-listed volatile and semivolatile organic compounds (VOCs/SVOCs). Soil sample location coordinates were documented using a handheld GPS and are presented on **Figure 2**.

The results of analysis of soil samples were below CP-51 Soil Cleanup Levels (SCLs), with the following exceptions:

- GT23FOT-PIPE-04
- GT23FOT-PIPE-10
- GT23FOT-PIPE-11

Six SVOCs were detected at concentrations exceeding the SCLs in GT23FOT-PIPE-04, -10, and -11. Analytical results from the remote fill piping end point samples are summarized in **Tables 1** and **2.** Endpoint sample locations are provided in **Figure 2**.

In each of the impacted sampling locations, soil was further excavated vertically to the surface of bedrock (approximately 7 feet below ground surface [bgs]) and horizontally until there was no remaining field evidence of petroleum-related impacts.

Following excavation, six additional endpoint samples were collected from the areas of the excavations that did not extend to bedrock. Soil samples were submitted to the laboratory for analysis for CP-51 Tables 2 and 3-listed VOCs and SVOCs. The results of analysis of soil samples are below the CP-51 SCLs (refer to **Tables 3** and **4**).

Samples of excavated soil were submitted to the laboratory for waste characterization analyses. Excavated soil was placed in roll-off containers and, following characterization, was transported off-site for disposal at CEC. Disposal manifests are provided as **Attachment 4**.

During excavation to remove the remote fill piping, Champion stockpiled soil from above the remote fill piping in the central portion of the Site. One sample (TRC-GRAB-05) was collected from this stockpile on November 24, 2025 and submitted to the laboratory for analysis for CP-51 Tables 2 and 3-listed VOCs and SVOCs, metals, pesticides, and polychlorinated biphenyls (PCBs). In addition, to determine

potential off-site disposal options, soil samples were also analyzed for diesel range organics (DRO) and gasoline range organics (GRO).

All concentrations were detected below CP-51 SCLs and Unrestricted Use Soil Cleanup Objectives (SCOs). The results of analysis indicate that the stockpile was acceptable for reuse onsite. The analytical results for this sample are included with the analytical results for NYSDEC Spill Case No. 2506842 and GT2LFST Samples in **Tables 5** through **10**. The stockpile and sample location is identified on **Figure 3**.

Considering all remaining underground piping associated with GT 2/3 FOT has been removed and post-excavation soil analytical results demonstrate that impacted soil has been removed, no further action is recommended. TRC recommends GT 2/3 FOT tank status be updated to “closed-removed” by NYSDEC on MOSF License No. 3-2140. The updated MOSF license application reflecting this change is provided as **Attachment 6**.

Closure Activities – NYSDEC Spill Case No. 2506842

NYSDEC Spill Case No. 2506842 was reported when potentially contaminated soil was observed along the berm wall surrounding former tank GT 2/3 FOT during berm removal excavation. Petroleum-related odors were observed and stained soil was visible approximately 3 to 6 feet bgs. Soil exhibiting field evidence of potential contamination (i.e., slight staining, odors) was segregated in a stockpile. The excavation extended vertically to bedrock (approximately 7 feet bgs) and horizontally until no apparent field evidence of impacts remained. Approximately 80 cubic yards of soil was placed in the stockpile. The location of the stockpile is shown on **Figure 3**.

In support of waste characterization, TRC collected from the stockpile two composite samples (TRC-SS-01-COMP and TRC-SS-02-COMP) and two grab samples (TRC-SS-01-GRAB and TRC-SS-02-GRAB), which were submitted to the laboratory for analysis for VOCs, SVOCs, metals, pesticides, and PCBs. In addition, to determine potential off-site disposal options, soil samples were also analyzed for DRO, and GRO.

The results of analysis of soil samples indicated that VOCs and SVOCs were not detected; pesticide and PCB concentrations were below Unrestricted Use SCOs; and only one metal, zinc, was detected at a concentration exceeding the Unrestricted Use SCO. The presence of zinc in soil is unrelated to the historic use of the site for fuel oil storage. The results of analysis of soil for DRO/GRO are not expected to impact potential future disposal option. The laboratory analytical results are provided in **Tables 5** through **10**.

Based on the analytical results, the field evidence of contamination was confirmed to be associated with heavily weathered product and is not indicative of a release from Tank GT 2/3 FOT. Based on the completed excavation and analytical results, no further action is recommended for NYSDEC Spill Case No. 2506842, and closure of this spill by NYSDEC is recommended..

Analysis of monitoring well data from the downstream existing monitoring well location (MW-1) do not indicate the presence of groundwater impacts resulting from NYSDEC Spill Case No. 2506842. The monitoring well data collected between 2020 and 2025 is provided as **Attachment 6**. The monitoring well location is provided in **Figure 3**.

Closure Activities – NYSDEC Spill Case No. 2402984

In February 2024, HDI submitted a closure request for SPDES Permit #NY0234826, originally required for discharge from a secondary containment berm surrounding GT 2/3 FOT. After GT 2/3 FOT was closed in 2022, the berm was no longer required. In March 2024, Champion closed and removed the oil-water separator associated with GT 2/3 FOT.

NYSDEC Spill Case No. 2402984 was opened in July 2024 in connection with elevated concentrations of SVOCs in soil Identified during removal of the oil-water separator.

The oil-water separator was pumped out and cleaned, and the associated waste (i.e., oily water/tank bottom sludge) was contained and transported off-site for disposal. The tank and associated piping were removed and transported off-site for disposal. A manifest associated with the material pumped out of the oil-water separator is provided in the Oil Water Separator Closure Report in **Attachment 3**.

Soil surrounding the oil-water separator was excavated and stockpiled prior to being sampled for laboratory analysis for soil reuse parameters. Six post-excavation bottom and sidewall soil samples and one composite sample of stockpiled soil were analyzed for NYSDEC Part 375 VOCs, SVOCs, metals, PCBs, herbicides, and pesticides. The results of analysis of the post-excavation soil samples indicate that no VOCs, SVOCs, metals, PCBs, herbicides, or pesticides were detected at concentrations exceeding Unrestricted Use SCOs or CP-51 Soil Cleanup Levels (SCLs). Additional information including soil sample locations, methodology, disposal manifests, photo-documentation, and soil sample analytical results are provided in **Attachment 3**. The final closure inspection of the oil-water separator was performed by NYSDEC Division of Water on August 5, 2025. The closure was rated as satisfactory and inspection documentation is provided in **Attachment 3.**

Based on the post-removal soil sampling analytical results, no further action is recommended for NYSDEC Spill Case No. 2402984, and closure of this spill by NYSDEC is recommended.

Monitoring well MW-1 is located along the western (i.e., hydraulically downgradient) boundary of the GT-2/3 Area. Based on a review of the MW-1 groundwater analytical results generated during annual sampling events from 2020 through 2025, groundwater is not impacted by NYSDEC Spill Case No. 2402984. The monitoring well data collected between 2020 and 2025 is provided as **Attachment 6**. The monitoring well location is provided in **Figure 3**.

Closure Activities – Former UST GT2LFST

It was discovered that the 275-gallon diesel underground storage tank (UST), GT2LFST (License No.

3-2140), was misplaced during demolition of the GT2 generator building in November 2024. Note that GT2LFST has been empty since prior to the inspection performed by NYSDEC in 2022.

Exploratory excavation was performed to confirm that the tank was misplaced. During excavation, soil exhibiting evidence of petroleum impacts was encountered, segregated and transported off-site for disposal (refer to attached **Attachment 4**). Soil that did not exhibit field evidence of petroleum contamination was stockpiled adjacent to the excavation. Excavation continued vertically to the surface of bedrock (approximately 7 feet below ground surface [bgs]) and horizontally to the approximate footprint of the former GT2 generator building, and rainwater accumulated within the excavation (hereafter referred to as Pond 1).

The GT2LFST excavation was bound by bedrock along the eastern sidewall and remote fill pipe run along the western sidewall. In addition, the excavation extended well beyond the former GT2LFST footprint to the north and south to the approximate limits of the former GT2 building and, as noted above, the excavation filled with accumulated rainwater. As a result, the proposed sampling plan to document residual conditions in the vicinity of former GT2LFST included analysis of soil and aqueous samples for CP-51 Tables 2 and 3-listed VOCs and SVOCs as follows:

- Western Sidewall: GT23FOT-PIPE-01, GT23FOT-PIPE-02, GT23FOT-PIPE-03. Refer to **Tables 1** and **2** for a summary of analytical results.
- Eastern Sidewall: TRC-GRAB-06 (nearest eastern sidewall with soil). Refer to **Tables 11** and **12** for analytical results.
- Aqueous sample (accumulated rainwater): TRC-SW-01. Refer to **Tables 5** and **6** for a summary of analytical results.
- Northern Sidewall: Not sampled, located approximately 35 feet north of former GT2LFST UST.
- Southern Sidewall: Not sampled, located approximately 75 feet south of former GT2LFST UST.

Refer to **Figures 2** and **3** for sampling locations.

No soil or groundwater analytical results exceeded the CP-51 SCLs or NYSDEC Ambient Water Quality Standards and Guidance Values for Class GA water (Class GA Values).

Conclusions and Recommendations

Based on the completed excavation, analytical results, and current site conditions, no impacts exceeding applicable criteria remain in the areas of GT2LFST and GT 2/3 FOT, or NYSDEC Spill Case Nos. 2506842 and 2402984. No further action is warranted. It is recommended that NYSDEC Spill Case Nos. 2506842 and 2402984 be closed, and the MOSF License No. 3-2140 be updated to indicate that tanks GT2LFST and GT 2/3 FOT are “Closed-Removed”. The updated MOSF license application is provided as **Attachment 5**.

If you have any questions regarding this Closure Report, please contact me at (646) 599-7950 or via email at arexroat@trccompanies.com.

Sincerely,
TRC Engineers, Inc.

Allison Rexroat, P. E.
Project Manager

cc: Carlos Garcia – HDI
Jenna Raup – TRC

Enclosures:

Figures:
Figure 1 – Site Location Map
Figure 2 – GT 2/3 FOT Pipe Run Sample Locations
Figure 3 – NYSDEC Spill Case No. 2506842 and GT2LFST Sample Locations

Tables:
Tank GT 2/3 FOT Remote Fill Piping End Point Samples
Table 1 - Results of Analysis of Soil for Volatile Organic Compounds
Table 2 – Results of Analysis of Soil for Semivolatile Organic Compounds

Tank GT 2/3 FOT Remote Fill Piping – Additional Excavation End Point Samples
Table 3 - Results of Analysis of Soil for Volatile Organic Compounds
Table 4 – Results of Analysis of Soil for Semivolatile Organic Compounds

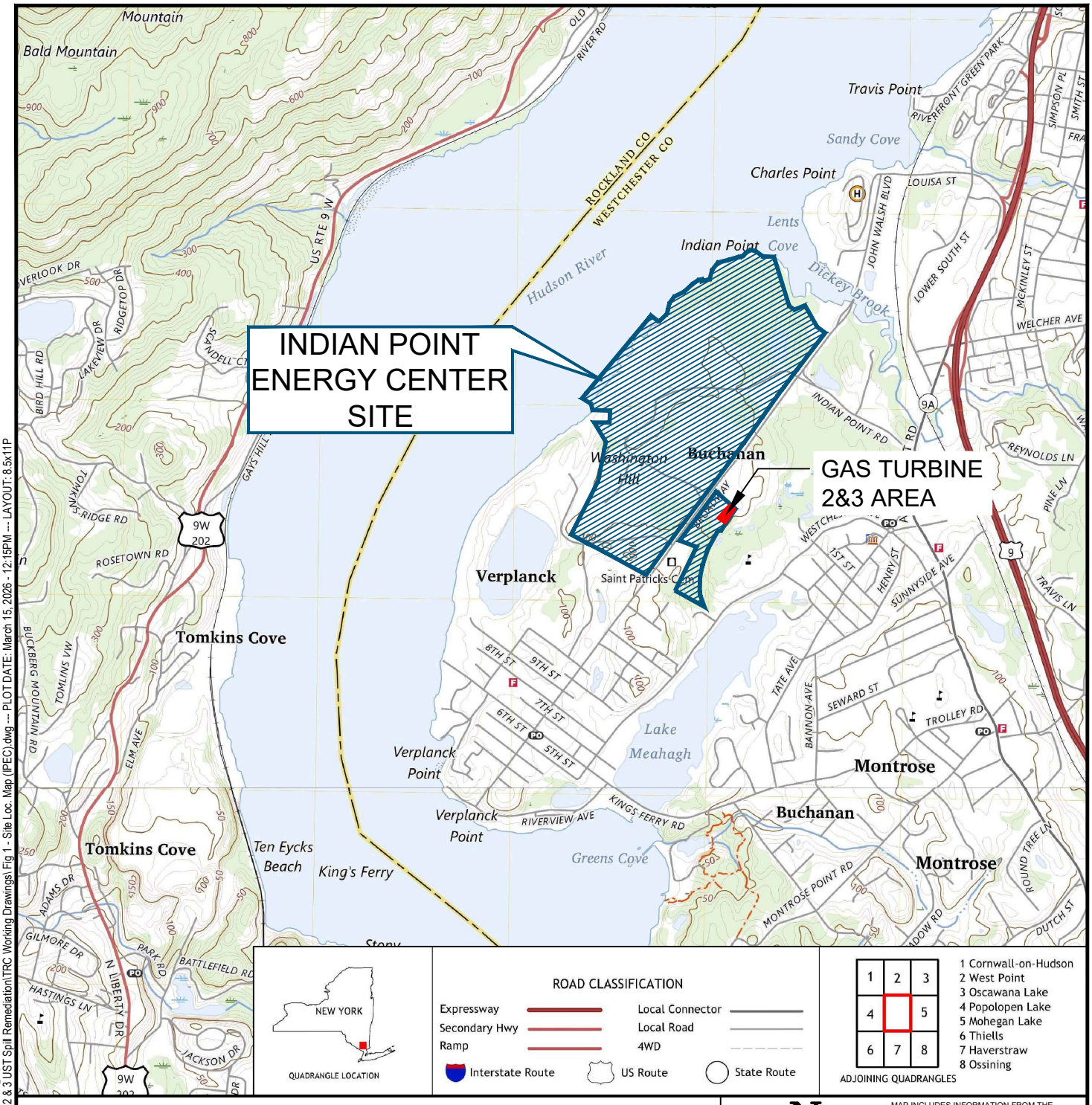
NYSDEC Spill Case No. 2506842 and GT2LFST Samples
Table 5 – Results of Analysis of Water for Volatile Organic Compounds
Table 6 – Results of Analysis of Water for Semivolatile Organic Compounds
Table 7 - Results of Analysis of Soil for Metals
Table 8 – Results of Analysis of Soil for Pesticides
Table 9 – Results of Analysis of Soil for PCBs
Table 10 – Results of Analysis of Soil for Waste Characterization Parameters

GT2LFST Excavation Aqueous Sample
Table 11 – Results of Analysis of Water for Volatile Organic Compounds
Table 12 – Results of Analysis of Water for Semivolatile Organic Compounds

Attachments:

Attachment 1 – TRC Closure Activities Photograph Log
Attachment 2 – Closure Package for Removal of 213,840-gallon Aboveground Storage Tank
Attachment 3 – Oil-Water Separator Closure Report and NYSDEC Closure Inspection Documentation
Attachment 4 – Waste Manifests and Disposal Tickets
Attachment 5 – MOSF License Application
Attachment 6 – Monitoring Well Data

Figures



TRC
1407 Broadway, Suite 3301
New York, NY 10018
Phone: 212.221.7822
www.TRCcompanies.com

PROJECT: **HOLTEC DECOMMISSIONING INTERNATIONAL, LLC**
INDIAN POINT ENERGY CENTER
CLOSURE REPORT
GAS TURBINE 2 & 3 AREA
BUCHANAN, NEW YORK 10511

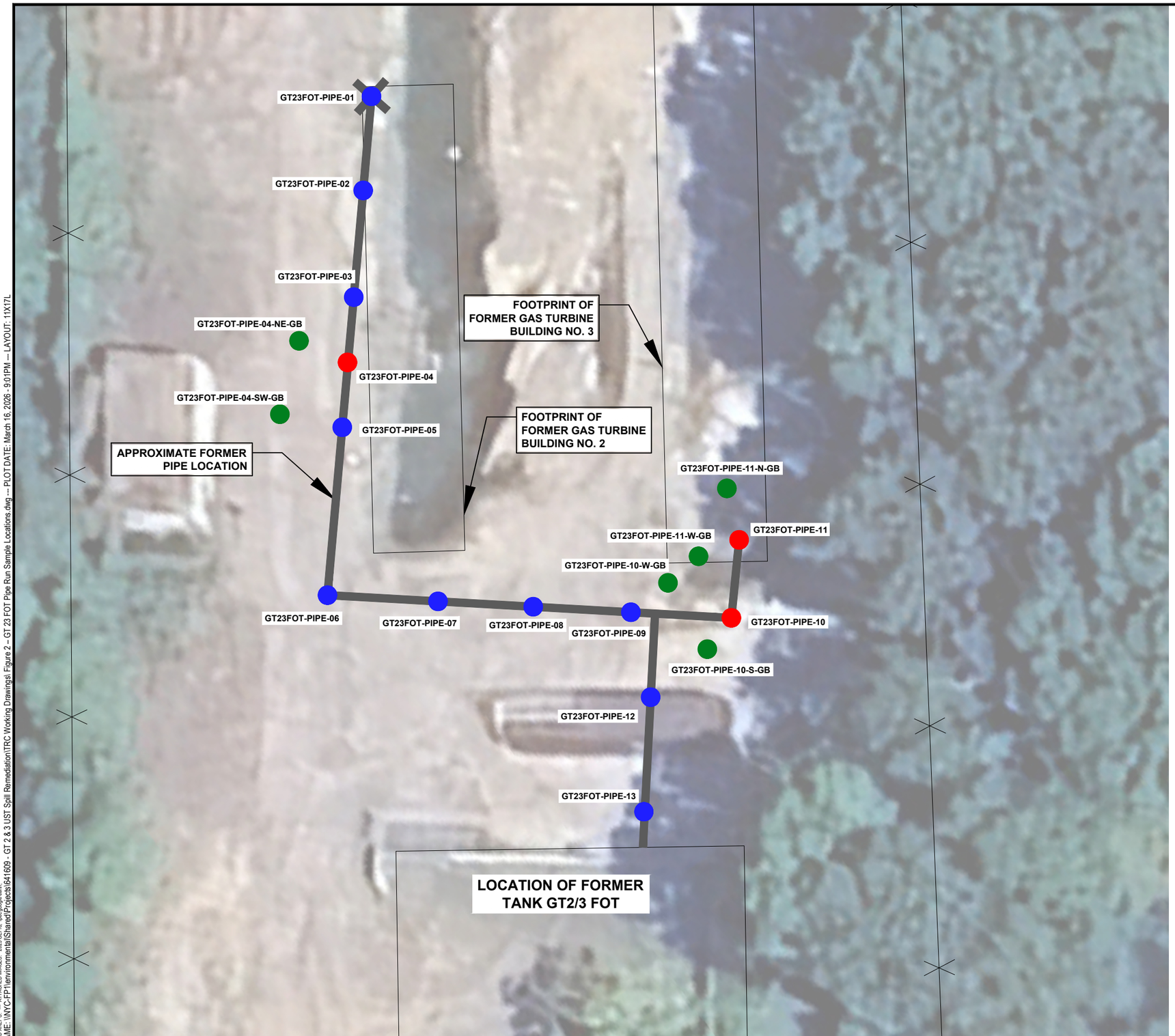
TITLE:

SITE LOCATION MAP

DRAWN BY:	A. REXROAT
CHECKED BY:	A. REXROAT
APPROVED BY:	J. RAUP
DATE:	MARCH 2026
PROJ. NO.:	641609
FILE:	Fig 1 - Site Loc. Map (IPEC).dwg

FIGURE 1

8.5x11 --- ATTACHED XREFS: --- ATTACHED IMAGES: NY_Haverstraw_20220515_TM; NY_Peekskill_20220515_TM;
DRAWING NAME: \\NYC-FP1\environmental\Shared\Projects\641609 - GT 2 & 3 UST Spill Remediation\TRC Working Drawings\ Fig 1 - Site Loc. Map (IPEC).dwg --- PLOT DATE: March 15, 2026 - 12:15PM --- LAYOUT: 8.5x11P



LEGEND (SYMBOLS NOT TO SCALE):

- REMOVED PIPE LOCATION
- REMOTE FILL PORT LOCATION
- EXISTING FENCE LINE
- POST-EXCAVATION PIPE RUN ENDPOINT SAMPLE LOCATION (RESULT > CRITERIA)
- POST-EXCAVATION PIPE RUN ENDPOINT SAMPLE LOCATION (RESULT < CRITERIA)
- EXCAVATION ENDPOINT DELINEATION SAMPLE LOCATION (RESULT < CRITERIA)

NOTES:

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. BASEMAP IMAGERY SOURCED FROM GOOGLE EARTH PRO DATED SEPTEMBER 14, 2025.

NOT TO SCALE

PROJECT: HOLTEC DECOMMISSIONING INTERNATIONAL, LLC
CLOSURE REPORT
GAS TURBINE 2 & 3 AREA
INDIAN POINT ENERGY CENTER
BUCHANAN, NEW YORK 10511

TITLE:

GT 2/3 FOT PIPE RUN SAMPLE LOCATIONS

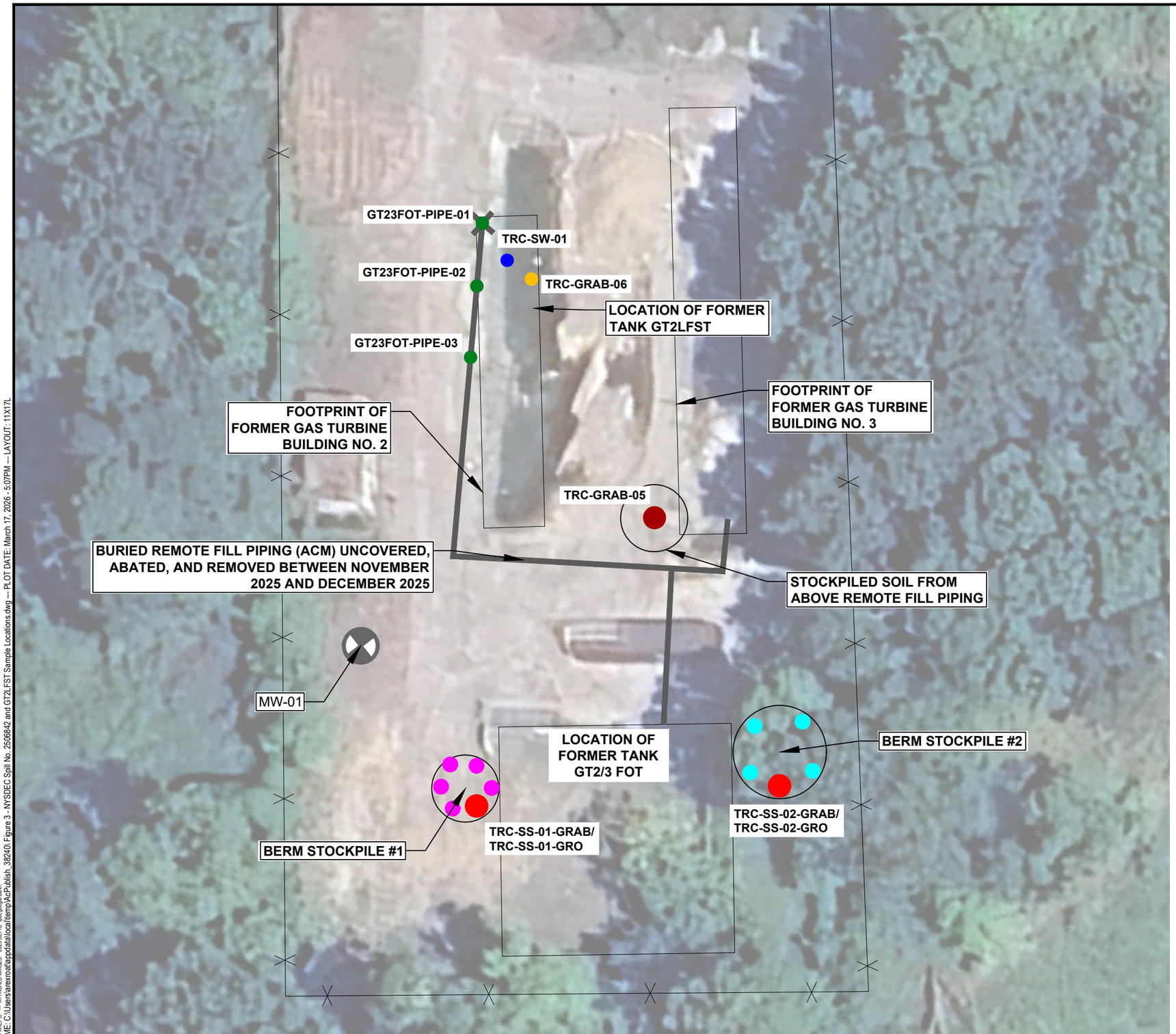
DRAWN BY:	A. REXROAT	PROJ NO.:	641609
CHECKED BY:	J. RAUP		
APPROVED BY:	J. RAUP		
DATE:	MARCH 2026		

FIGURE 1

TRC
1407 Broadway, Suite 3301
New York, NY 10018
Phone: 212.221.7822
www.TRCcompanies.com

FILE NO.: Attachment 1-Unit 2-11X17L.dwg

11x17 --- ATTACHED IMAGES: 2025 GSPro Jacquelyn.wft
DRAWING NAME: \\NYC-FP1\environmental\Shared\Projects\641609 - GT 2 & 3 UST Spill Remediation\TRC Working Drawings\ Figure 2 – GT 23 FOT Pipe Run Sample Locations.dwg --- PLOT DATE: March 16, 2026 - 9:01PM --- LAYOUT: 11X17L



LEGEND (SYMBOLS NOT TO SCALE):

- EXPOSED REMOTE FILL PIPING (ACM) TO BE ABATED AND REMOVED
- WATER SAMPLE LOCATION (TRC-SW-01)
- STOCKPILED SOIL FROM ABOVE REMOTE FILL PIPING SAMPLE LOCATION (TRC-GRAB-05)
- ACM — ASBESTOS-CONTAINING MATERIAL
- REMOTE FILL PORT LOCATION
- EXISTING FENCE LINE
- COMPOSITE POINT LOCATIONS FOR SAMPLE TRC-SS-01-COMP
- COMPOSITE POINT LOCATIONS FOR SAMPLE TRC-SS-02-COMP
- GRAB SAMPLE LOCATION (TRC-SS-XX-GRAB/TRC-SS-XX-GRO)
- FORMER TANK GT2LFST EAST WALL GRAB SAMPLE LOCATION (TRC-SB-06)
- FORMER TANK GT2LFST WEST WALL GRAB LOCATION (GT23FOT-PIPE-0X)
- MW-01 LOCATION

SAMPLE NOTES:

1. BERM STOCKPILE#1 COMPRISED OF MATERIAL EXCAVATED FROM THE WESTERN EXTERIOR OF THE GT 2/3 FOT BERM WALL.
2. BERM STOCKPILE#2 COMPRISED OF MATERIAL EXCAVATED FROM THE NORTHERN AND EASTERN EXTERIOR OF THE GT 2/3 FOT BERM WALL.
3. TRC-GRAB-05 WAS SAMPLED FROM A STOCKPILE COMPRISED OF SOIL EXCAVATED FROM ABOVE REMOTE FILL PIPING.

NOTES:

1. ALL LOCATIONS ARE APPROXIMATE.
2. BASEMAP IMAGERY SOURCED FROM GOOGLE EARTH PRO DATED SEPTEMBER 14, 2025.

NOT TO SCALE

PROJECT: HOLTEC DECOMMISSIONING INTERNATIONAL, LLC
CLOSURE REPORT
GAS TURBINE 2 & 3 AREA
INDIAN POINT ENERGY CENTER
BUCHANAN, NEW YORK 10511

TITLE:

NYSDEC SPILL NO. 2506842 AND GT2LFST SAMPLE LOCATIONS

DRAWN BY:	A. REXROAT	PROJ NO.:	641609
CHECKED BY:	J. RAUP		
APPROVED BY:	J. RAUP		FIGURE 3
DATE:	MARCH 2026		

TRC
1407 Broadway, Suite 3301
New York, NY 10018
Phone: 212.221.7822
www.TRCcompanies.com

FILE NO.: Attachment 1-Unit 2-11X17L.dwg

11x17 --- ATTACHED XREFS: --- ATTACHED IMAGES: --- 2026 SEPH: [redacted]
DRAWING NAME: C:\Users\arexroat\appdata\local\temp\AcPublish_38240\ Figure 3 - NYSDEC Spill No. 2506842 and GT2LFST Sample Locations.dwg --- PLOT DATE: March 17, 2026 - 5:07PM --- LAYOUT: 11X17L

Tables

Table 1
Holtec Decomissioning International, LLC
Indian Point Energy Center
Tank GT 2/3 FOT Remote Fill Piping End Point Samples
Results of Analysis of Soil for Volatile Organic Compounds

		SAMPLE LOCATION:	GT23FOT PIPE RUN		GT23FOT PIPE RUN		GT23FOT PIPE RUN		GT23FOT PIPE RUN		GT23FOT PIPE RUN		GT23FOT PIPE RUN	
		SAMPLE NAME:	GT23FOT-PIPE-01		GT23FOT-PIPE-02		GT23FOT-PIPE-03		GT23FOT-PIPE-04		GT23FOT-PIPE-05		GT23FOT-PIPE-06	
		LABORATORY SAMPLE ID:	460-341995-1		460-341995-2		460-341995-3		460-341995-4		460-341995-5		460-341995-6	
		DATE SAMPLE COLLECTED:	12/18/2025		12/18/2025		12/18/2025		12/18/2025		12/18/2025		12/18/2025	
		MATRIX:	Soil		Soil		Soil		Soil		Soil		Soil	
VOLATILE ORGANIC COMPOUNDS (mg/kg)	CAS Number	CP-51 Soil Cleanup Levels	Result		Result		Result		Result		Result		Result	
1,2,4-Trimethylbenzene	95-63-6	3.6	0.00071	U	0.00020	U	0.00026	U	0.00025	U	0.00026	U	0.00030	U
1,3,5-Trimethylbenzene	108-67-8	8.4	0.00091	U	0.00025	U	0.00033	U	0.00032	U	0.00034	U	0.00039	U
4-Isopropyltoluene	99-87-6	10	0.00086	U	0.00024	U	0.00032	U	0.00030	U	0.00032	U	0.00037	U
Benzene	71-43-2	0.06	0.0016	U	0.00046	U	0.00060	U	0.00057	U	0.00061	U	0.00070	U
Ethylbenzene	100-41-4	1	0.0014	U	0.00038	U	0.00049	U	0.00047	U	0.00050	U	0.00057	U
Isopropylbenzene	98-82-8	2.3	0.00082	U	0.00023	U	0.00030	U	0.00029	U	0.00030	U	0.00035	U
Methyl tert-butyl ether	1634-04-4	0.93	0.0015	U	0.00041	U	0.00054	U	0.00051	U	0.00055	U	0.00063	U
Naphthalene	91-20-3	12	0.0045	U	0.0013	U	0.0016	U	0.0016	U	0.0017	U	0.0019	U
n-Butylbenzene	104-51-8	12	0.00085	U	0.00024	U	0.00031	U	0.00030	U	0.00031	U	0.00036	U
n-Propylbenzene	103-65-1	3.9	0.0013	U	0.00036	U	0.00047	U	0.00045	U	0.00048	U	0.00055	U
sec-Butylbenzene	135-98-8	11	0.00083	U	0.00023	U	0.00030	U *-	0.00029	U	0.00031	U	0.00035	U
tert-Butylbenzene	98-06-6	5.9	0.00080	U	0.00022	U	0.00029	U	0.00028	U	0.00029	U	0.00034	U
Toluene	108-88-3	0.7	0.00068	U	0.00019	U	0.00025	U	0.00024	U	0.00025	U	0.00029	U
Xylene (total)	1330-20-7	0.26	0.00050	U	0.00014	U	0.00018	U	0.00017	U	0.00019	U	0.00021	U
Total TICs		--	None		None		None		None		None		None	

Notes:

-- - No criteria

* - Duplicate analysis not within control limits

CAS - Chemical Abstracts Service

J - Estimated value

mg/kg - milligrams per kilogram

N - Presumptive evidence of a compound

Soil Cleanup Levels (SCLs) - New York State Department of Environmental Conservation Commissioner Policy 51 (CP-51)

TICs - Tentatively Identified Compounds

U - Non-detect

Table 1
Holtec Decomissioning International, LLC
Indian Point Energy Center
Tank GT 2/3 FOT Remote Fill Piping End Point Samples
Results of Analysis of Soil for Volatile Organic Compounds

		SAMPLE LOCATION:	GT23FOT PIPE RUN		GT23FOT PIPE RUN		GT23FOT PIPE RUN		GT23FOT PIPE RUN		GT23FOT PIPE RUN		GT23FOT PIPE RUN		GT23FOT PIPE RUN	
		SAMPLE NAME:	GT23FOT-PIPE-07		GT23FOT-PIPE-08		GT23FOT-PIPE-09		GT23FOT-PIPE-10		GT23FOT-PIPE-11		GT23FOT-PIPE-12		GT23FOT-PIPE-13	
		LABORATORY SAMPLE ID:	460-341995-7		460-341995-8		460-341995-9		460-341995-10		460-341995-11		460-341995-12		460-341995-13	
		DATE SAMPLE COLLECTED:	12/18/2025		12/18/2025		12/18/2025		12/18/2025		12/18/2025		12/18/2025		12/18/2025	
		MATRIX:	Soil		Soil		Soil		Soil		Soil		Soil		Soil	
VOLATILE ORGANIC COMPOUNDS (mg/kg)	CAS Number	CP-51 Soil Cleanup Levels	Result		Result		Result		Result		Result		Result		Result	
1,2,4-Trimethylbenzene	95-63-6	3.6	0.00023	U	0.00020	U	0.00023	U	0.0022		0.00018	U	0.00025	U	0.00040	U
1,3,5-Trimethylbenzene	108-67-8	8.4	0.00029	U	0.00025	U	0.00029	U	0.00032	U	0.00024	U	0.00032	U	0.00051	U
4-Isopropyltoluene	99-87-6	10	0.00028	U	0.00024	U	0.00028	U	0.00031	U	0.00022	U	0.00030	U	0.00049	U
Benzene	71-43-2	0.06	0.00053	U	0.00045	U	0.00053	U	0.00086	J	0.00042	U	0.0012		0.00093	U
Ethylbenzene	100-41-4	1	0.00044	U	0.00037	U	0.00044	U	0.00048	U	0.00035	U	0.00047	U	0.00076	U
Isopropylbenzene	98-82-8	2.3	0.00027	U	0.00023	U	0.00027	U	0.012		0.00021	U	0.00029	U	0.00047	U
Methyl tert-butyl ether	1634-04-4	0.93	0.00048	U	0.00041	U	0.00048	U	0.00052	U	0.00038	U	0.00052	U	0.00084	U
Naphthalene	91-20-3	12	0.0015	U	0.0012	U	0.0015	U	0.0077		0.0014	J	0.0016	U	0.0025	U
n-Butylbenzene	104-51-8	12	0.00027	U	0.00023	U	0.00028	U	0.049		0.0015		0.00030	U	0.00048	U
n-Propylbenzene	103-65-1	3.9	0.00042	U	0.00036	U	0.00042	U	0.018		0.00047	J	0.00045	U	0.00073	U
sec-Butylbenzene	135-98-8	11	0.00027	U	0.00023	U *-	0.00027	U	0.049	*-	0.0015		0.00029	U	0.00047	U *-
tert-Butylbenzene	98-06-6	5.9	0.00026	U	0.00022	U	0.00026	U	0.019		0.00021	U	0.00028	U	0.00045	U
Toluene	108-88-3	0.7	0.00038	J	0.00019	U	0.00022	U	0.00024	U	0.00018	U	0.00056	J	0.00038	U
Xylene (total)	1330-20-7	0.26	0.00016	U	0.00014	U	0.00016	U	0.0011	J	0.00013	U	0.00018	U	0.00028	U
Total TICs		--	None		None		None		2.38	J N	0.556	J N	0.307	J N	None	

Notes:

-- - No criteria

* - Duplicate analysis not within control limits

CAS - Chemical Abstracts Service

J - Estimated value

mg/kg - milligrams per killogram

N - Presumptive evidence of a compound

Soil Cleanup Levels (SCLs) - New York State Department of Environmental Conservation Commissioner Policy 51 (CP-51)

TICs - Tentatively Identified Compounds

U - Non-detect

Table 2
Holtec Decomissioning International, LLC
Indian Point Energy Center
Tank GT 2/3 FOT Remote Fill Piping End Point Samples
Results of Analysis of Soil for Semivolatile Organic Compounds

		SAMPLE LOCATION:	GT23FOT PIPE RUN		GT23FOT PIPE RUN		GT23FOT PIPE RUN		GT23FOT PIPE RUN		GT23FOT PIPE RUN		GT23FOT PIPE RUN	
		SAMPLE NAME:	GT23FOT-PIPE-01		GT23FOT-PIPE-02		GT23FOT-PIPE-03		GT23FOT-PIPE-04		GT23FOT-PIPE-05		GT23FOT-PIPE-06	
		LABORATORY SAMPLE ID:	460-341995-1		460-341995-2		460-341995-3		460-341995-4		460-341995-5		460-341995-6	
		DATE SAMPLE COLLECTED:	12/18/2025		12/18/2025		12/18/2025		12/18/2025		12/18/2025		12/18/2025	
		MATRIX:	Soil		Soil		Soil		Soil		Soil		Soil	
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)	CAS Number	CP-51 Soil Cleanup Levels	Result		Result		Result		Result		Result		Result	
Acenaphthene	83-32-9	20	0.0096	U	0.010	U	0.010	U	0.078	J	0.0097	U	0.053	J
Acenaphthylene	208-96-8	100	0.0096	U	0.010	J	0.010	U	0.0098	U	0.0097	U	0.010	U
Anthracene	120-12-7	100	0.010	U	0.012	J	0.011	U	0.23	J	0.010	U	0.22	J
Benzo(a) anthracene	56-55-3	1	0.025	U	0.027	U	0.027	U	**2.2**		0.037		0.59	
Benzo(a) pyrene	50-32-8	1	0.0093	J	0.0095	U	0.0097	U	**2.0**		0.028	J	0.41	
Benzo(b) fluoranthene	205-99-2	1	0.013	J	0.010	J	0.0094	U	**2.7**		0.051		0.66	
Benzo(g,h,i) perylene	191-24-2	100	0.012	J	0.11	J	0.011	U	0.98		0.020	J	0.13	J
Benzo(k) fluoranthene	207-08-9	0.8	0.0066	U	0.0070	U	0.0071	U	**1.1**		0.022	J	0.27	
Chrysene	218-01-9	1	0.014	U	0.015	U	0.015	U	**2.3**		0.044	J	0.53	
Dibenzo(a,h)anthracene	53-70-3	0.33	0.015	U	0.016	U	0.016	U	0.31		0.015	U	0.037	
Fluoranthene	206-44-0	100	0.015	J	0.015	J	0.013	U	2.8		0.052	J	1.4	
Fluorene	86-73-7	30	0.0098	U	0.010	U	0.011	U	0.036	J	0.010	U	0.061	J
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.033	J	0.081		0.014	U	**1.0**		0.045		0.17	
Naphthalene	91-20-3	12	0.0058	U	0.0062	U	0.0063	U	0.011	J	0.0059	U	0.0061	U
Phenanthrene	85-01-8	100	0.014	U	0.015	U	0.015	U	0.96		0.020	J	0.77	
Pyrene	129-00-0	100	0.015	J	0.014	J	0.0091	U	2.5		0.048	J	1.1	
Total TICs		--	None		None		None		7.08	J N	0.29	J N	0.66	J N

Notes:

-- - No criteria

CAS - Chemical Abstracts Service

D - Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.

J - Estimated value

Light gray shade with bold text value indicates result exceeds NYCRR 375-6.8(a) Unrestricted Use Soil Cleanup Objectives or CP-51 Soil Cleanup Levels.

mg/kg - milligrams per kilogram

N - Presumptive evidence of a compound

Soil Cleanup Levels (SCLs) - New York State Department of Environmental Conservation Commissioner Policy 51 (CP-51)

TICs - Tentatively Identified Compounds

U - Non-detect

Table 2
Holtec Decomissioning International, LLC
Indian Point Energy Center
Tank GT 2/3 FOT Remote Fill Piping End Point Samples
Results of Analysis of Soil for Semivolatile Organic Compounds

		SAMPLE LOCATION:	GT23FOT PIPE RUN		GT23FOT PIPE RUN		GT23FOT PIPE RUN		GT23FOT PIPE RUN		GT23FOT PIPE RUN		GT23FOT PIPE RUN		GT23FOT PIPE RUN	
		SAMPLE NAME:	GT23FOT-PIPE-07		GT23FOT-PIPE-08		GT23FOT-PIPE-09		GT23FOT-PIPE-10		GT23FOT-PIPE-11		GT23FOT-PIPE-12		GT23FOT-PIPE-13	
		LABORATORY SAMPLE ID:	460-341995-7		460-341995-8		460-341995-9		460-341995-10		460-341995-11		460-341995-12		460-341995-13	
		DATE SAMPLE COLLECTED:	12/18/2025		12/18/2025		12/18/2025		12/18/2025		12/18/2025		12/18/2025		12/18/2025	
		MATRIX:	Soil		Soil		Soil		Soil		Soil		Soil		Soil	
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)	CAS Number	CP-51 Soil Cleanup Levels	Result		Result		Result		Result		Result		Result		Result	
Acenaphthene	83-32-9	20	0.0096	U	0.0096	U	0.0099	U	2.2		0.29	J	0.038	J	0.022	J
Acenaphthylene	208-96-8	100	0.0096	U	0.0097	U	0.010	U	0.012	U	0.011	U	0.010	U	0.011	U
Anthracene	120-12-7	100	0.017	J	0.066	J	0.016	J	4.3		1.5		0.58		0.15	J
Benzo(a) anthracene	56-55-3	1	0.042		0.14		0.028	J	**4.8**		**2.5**		0.63		0.43	
Benzo(a) pyrene	50-32-8	1	0.027	J	0.073		0.023	J	**2.7**		**1.3**		0.30		0.26	
Benzo(b) fluoranthene	205-99-2	1	0.045		0.12		0.036		**4.1**		**2.2**		0.45		0.38	
Benzo(g,h,i) perylene	191-24-2	100	0.016	J	0.030	J	0.026	J	1.1		0.62		0.10	J	0.12	J
Benzo(k) fluoranthene	207-08-9	0.8	0.017	J	0.057		0.015	J	**1.4**		**1.1**		0.22		0.19	
Chrysene	218-01-9	1	0.042	J	0.18	J	0.036	J	**4.3**		**3.0**		0.49		0.43	
Dibenzo(a,h)anthracene	53-70-3	0.33	0.015	U	0.015	U	0.015	U	0.28		0.21		0.020	J	0.023	J
Fluoranthene	206-44-0	100	0.11	J	0.34		0.064	J	9.5	D	8.8		2.0		1.2	
Fluorene	86-73-7	30	0.011	J	0.0099	U	0.010	U	4.4		0.57		0.078	J	0.031	J
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.040		0.053		0.045		**1.2**		**0.70**		0.14		0.14	
Naphthalene	91-20-3	12	0.0058	U	0.0059	U	0.0060	U	0.0071	U	0.0069	U	0.0062	U	0.0065	U
Phenanthrene	85-01-8	100	0.053	J	0.11	J	0.025	J	12	D	5.1		0.61		0.29	J
Pyrene	129-00-0	100	0.089	J	0.26	J	0.060	J	7.4	D	6.8		1.6		0.95	
Total TICs		--	10.71	J N	6.48	J N	0.37	J N	150.3	J N	44.4	J N	1.46	J N	None	

Notes:
-- - No criteria
CAS - Chemical Abstracts Service
D - Sample results are obtained from a dilution; the surrogate or matrix spike recover
J - Estimated value
Light gray shade with bold text value indicates result exceeds NYCRR 375-6.8(a 51 Soil Cleanup Levels.
mg/kg - milligrams per kilogram
N - Presumptive evidence of a compound
Soil Cleanup Levels (SCLs) - New York State Department of Environmental Conserv
TICs - Tentatively Identified Compounds
U - Non-detect

Table 3
Holtec Decomissioning International, LLC
Indian Point Energy Center
Tank GT 2/3 FOT Remote Fill Piping – Additional Excavation End Point Samples
Results of Analysis of Soil for Volatile Organic Compounds

		SAMPLE LOCATION:	GT23FOT PIPE RUN		GT23FOT PIPE RUN		GT23FOT PIPE RUN		GT23FOT PIPE RUN		GT23FOT PIPE RUN		GT23FOT PIPE RUN	
		SAMPLE NAME:	GT23FOT-PIPE-10-W-GB		GT23FOT-PIPE-10-S-GB		GT23FOT-PIPE-11-W-GB		GT23FOT-PIPE-11-N-GB		GTFOT-PIPE-04-NE-GB		GTFOT-PIPE-04-SW-GB	
		LABORATORY SAMPLE ID:	460-345065-1		460-345065-2		460-345065-3		460-345065-4		460-345065-5		460-345065-6	
		DATE SAMPLE COLLECTED:	2/18/2026		2/18/2026		2/18/2026		2/18/2026		2/18/2026		2/18/2026	
		MATRIX:	Soil		Soil		Soil		Soil		Soil		Soil	
VOLATILE ORGANIC COMPOUNDS (mg/kg)	CAS Number	CP-51 Soil Cleanup Levels	Result		Result		Result		Result		Result		Result	
1,2,4-Trimethylbenzene	95-63-6	3.6	0.00020	U	0.00021	U	0.00019	U	0.00023	U	0.00020	U	0.00024	U
1,3,5-Trimethylbenzene	108-67-8	8.4	0.00026	U	0.00040	J	0.00025	U	0.00029	U	0.00025	U	0.00030	U
4-Isopropyltoluene	99-87-6	10	0.00024	U	0.00026	U	0.00024	U	0.00027	U	0.00024	U	0.00029	U
Benzene	71-43-2	0.06	0.00046	U	0.00048	U	0.00045	U	0.00052	U	0.00046	U	0.00054	U
Ethylbenzene	100-41-4	1	0.00038	U	0.00040	U	0.00037	U	0.00043	U	0.00038	U	0.00045	U
Isopropylbenzene	98-82-8	2.3	0.00023	U	0.00024	U	0.00022	U	0.00026	U	0.00023	U	0.0016	
Methyl tert-butyl ether	1634-04-4	0.93	0.00042	U	0.00044	U	0.00040	U	0.00047	U	0.00041	U	0.00049	U
Naphthalene	91-20-3	12	0.0023		0.0030		0.0012	U	0.0014	U	0.0013	U	0.0061	
n-Butylbenzene	104-51-8	12	0.00024	U	0.00025	U	0.00023	U	0.00027	U	0.00024	U	0.011	
n-Propylbenzene	103-65-1	3.9	0.00037	U	0.00038	U	0.00035	U	0.00041	U	0.00036	U	0.0036	
sec-Butylbenzene	135-98-8	11	0.00023	U	0.0027		0.00023	U	0.00026	U	0.00023	U	0.018	
tert-Butylbenzene	98-06-6	5.9	0.00032	J	0.00024	U	0.00022	U	0.00025	U	0.00022	U	0.0083	
Toluene	108-88-3	0.7	0.00019	U	0.00020	U	0.00018	U	0.00021	U	0.00019	U	0.00022	U
Xylene (total)	1330-20-7	0.26	0.00014	U	0.00015	U	0.00014	U	0.00016	U	0.00014	U	0.00085	J
Total TICs		--	0.85	J N	3.45	J N	0.0149	J N	None		None		1.87	J N

Notes:

-- - No criteria

CAS - Chemical Abstracts Service

J - Estimated value

mg/kg - milligrams per killogram

N - Presumptive evidence of a compound

Soil Cleanup Levels (SCLs) - New York State Department of Environmental Conservation Commissioner Policy 51 (CP-51)

TICs - Tentatively Identified Compounds

U - Non-detect

Table 4
Holtec Decomissioning International, LLC
Indian Point Energy Center
Tank GT 2/3 FOT Remote Fill Piping – Additional Excavation End Point Samples
Results of Analysis of Soil for Semivolatile Organic Compounds

		SAMPLE LOCATION:	GT23FOT PIPE RUN		GT23FOT PIPE RUN		GT23FOT PIPE RUN		GT23FOT PIPE RUN		GT23FOT PIPE RUN		GT23FOT PIPE RUN	
		SAMPLE NAME:	GT23FOT-PIPE-10-W-GB		GT23FOT-PIPE-10-S-GB		GT23FOT-PIPE-11-W-GB		GT23FOT-PIPE-11-N-GB		GTFOT-PIPE-04-NE-GB		GTFOT-PIPE-04-SW-GB	
		LABORATORY SAMPLE ID:	460-345065-1		460-345065-2		460-345065-3		460-345065-4		460-345065-5		460-345065-6	
		DATE SAMPLE COLLECTED:	2/18/2026		2/18/2026		2/18/2026		2/18/2026		2/18/2026		2/18/2026	
		MATRIX:	Soil		Soil		Soil		Soil		Soil		Soil	
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)	CAS Number	CP-51 Soil Cleanup Levels	Result		Result		Result		Result		Result		Result	
Acenaphthene	83-32-9	20	0.043	J	0.010	U	0.010	U	0.0095	U	0.010	U	0.13	J
Acenaphthylene	208-96-8	100	0.010	U	0.010	U	0.010	U	0.0096	U	0.010	U	0.0094	U
Anthracene	120-12-7	100	0.017	J	0.011	U	0.016	J	0.014	J	0.011	U	0.055	J
Benzo(a) anthracene	56-55-3	1	0.027	U	0.027	U	0.082		0.061		0.027	U	0.025	U
Benzo(a) pyrene	50-32-8	1	0.0096	U	0.011	J	0.038		0.029	J	0.0096	U	0.0088	U
Benzo(b) fluoranthene	205-99-2	1	0.0094	U	0.013	J	0.055		0.052		0.0093	U	0.0085	U
Benzo(g,h,i) perylene	191-24-2	100	0.011	U	0.010	U	0.011	J	0.013	J	0.011	U	0.0097	U
Benzo(k) fluoranthene	207-08-9	0.8	0.0071	U	0.0070	U	0.022	J	0.017	J	0.0071	U	0.0065	U
Chrysene	218-01-9	1	0.015	U	0.015	U	0.043	J	0.047	J	0.015	U	0.014	U
Dibenzo(a,h)anthracene	53-70-3	0.33	0.016	U	0.015	U	0.016	U	0.014	U	0.016	U	0.014	U
Fluoranthene	206-44-0	100	0.029	J	0.023	J	0.18	J	0.13	J	0.013	U	0.022	J
Fluorene	86-73-7	30	0.079	J	0.010	U	0.011	U	0.0098	U	0.011	U	0.20	J
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.014	U	0.014	U	0.014	U	0.016	J	0.014	U	0.013	U
Naphthalene	91-20-3	12	0.0063	U	0.0061	U	0.0063	U	0.0058	U	0.0062	U	0.0057	U
Phenanthrene	85-01-8	100	0.18	J	0.015	U	0.020	J	0.027	J	0.015	U	0.31	J
Pyrene	129-00-0	100	0.029	J	0.021	J	0.15	J	0.11	J	0.0090	U	0.069	J
Total TICs		--	11.69	J N	None		None		None		None		27.78	J N

Notes:

-- - No criteria

CAS - Chemical Abstracts Service

J - Estimated value

mg/kg - milligrams per kilogram

N - Presumptive evidence of a compound

Soil Cleanup Levels (SCLs) - New York State Department of Environmental Conservation Commissioner Policy 51 (CP-51)

TICs - Tentatively Identified Compounds

U - Non-detect

Table 5
Holtec Decomissioning International, LLC
Indian Point Energy Center
NYSDEC Spill No. 2506842 and GT2LFST Samples
Results of Analysis of Soil for Volatile Organic Compounds

			SAMPLE LOCATION:	WESTERN BERM		EASTERN BERM		PIPE RUN EXCAVATION		GT2LFST - EAST SIDEWALL	
			SAMPLE NAME:	TRC-SS-01-GRAB		TRC-SS-02-GRAB		TRC-GRAB-05		TRC-GRAB-06	
			LABORATORY SAMPLE ID:	460-339408-1		460-339408-3		460-340140-2		460-340140-1	
			DATE SAMPLE COLLECTED:	11/13/2025		11/13/2025		11/24/2025		11/24/2025	
			MATRIX:	Soil		Soil		Soil		Soil	
VOLATILE ORGANIC COMPOUNDS (mg/kg)	CAS Number	CP-51 Soil Cleanup Levels	Unrestricted Use SCOs	Result		Result		Result		Result	
1,1,1-Trichloroethane	71-55-6	--	0.68	0.0010	U	0.0014	U	0.00093	U	NA	
1,1,2,2-Tetrachloroethane	79-34-5	--	--	0.0010	U	0.0014	U	0.00093	U	NA	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	--	--	0.0010	U	0.0014	U	0.00093	U	NA	
1,1,2-Trichloroethane	79-00-5	--	--	0.0010	U	0.0014	U	0.00093	U	NA	
1,1-Dichloroethane	75-34-3	--	0.27	0.0010	U	0.0014	U	0.00093	U	NA	
1,1-Dichloroethene	75-35-4	--	0.33	0.0010	U	0.0014	U	0.00093	U	NA	
1,2,3-Trichlorobenzene	87-61-6	--	--	0.0010	U	0.0014	U	0.00093	U	NA	
1,2,4-Trichlorobenzene	120-82-1	--	--	0.0010	U	0.0014	U	0.00093	U	NA	
1,2,4-Trimethylbenzene	95-63-6	3.6	3.6	0.0010	U	0.0014	U	0.00093	U	0.00099	U
1,2-Dibromo-3-chloropropane	96-12-8	--	--	0.0010	U	0.0014	U	0.00093	U	NA	
1,2-Dichlorobenzene	95-50-1	--	1.1	0.0010	U	0.0014	U	0.00093	U	NA	
1,2-Dichloroethane	107-06-2	--	0.02	0.0010	U	0.0014	U	0.00093	U	NA	
1,2-Dichloropropane	78-87-5	--	--	0.0010	U	0.0014	U	0.00093	U	NA	
1,3,5-Trimethylbenzene	108-67-8	8.4	8.4	0.0010	U	0.0014	U	0.00093	U	0.00099	U
1,3-Dichlorobenzene	541-73-1	--	2.4	0.0010	U	0.0014	U	0.00093	U	NA	
1,4-Dichlorobenzene	106-46-7	--	1.8	0.0010	U	0.0014	U	0.00093	U	NA	
2-Butanone (MEK)	78-93-3	--	0.12	0.0051	U	0.0070	U	0.0036	J	NA	
2-Hexanone	591-78-6	--	--	0.0051	U	0.0070	U	0.0047	U	NA	
4-Isopropyltoluene	99-87-6	10	--	NA		NA		NA		0.00099	U
4-Methyl-2-pentanone (MIBK)	108-10-1	--	--	0.0051	U	0.0070	U	0.0047	U	NA	
Acetone	67-64-1	--	0.05	0.0061	U	0.0085	U	0.023		NA	
Benzene	71-43-2	0.06	0.06	0.0010	U	0.0014	U	0.00093	U	0.00099	U
Bromoform	75-25-2	--	--	0.0010	U	0.0014	U	0.00093	U	NA	
Bromomethane	74-83-9	--	--	0.0020	U	0.0028	U	0.0019	U	NA	
Carbon disulfide	75-15-0	--	--	0.0010	U	0.0014	U	0.00053	J	NA	
Carbon tetrachloride	56-23-5	--	0.76	0.0010	U	0.0014	U	0.00093	U	NA	
Chlorobenzene	108-90-7	--	1.1	0.0010	U	0.0014	U	0.00093	U	NA	
Chlorobromomethane	74-97-5	--	--	0.0010	U	0.0014	U	0.00093	U	NA	
Chlorodibromomethane	124-48-1	--	--	0.0010	U	0.0014	U	0.00093	U	NA	
Chloroethane	75-00-3	--	--	0.0010	U	0.0014	U	0.00093	U	NA	
Chloroform	67-66-3	--	0.37	0.0010	U	0.0014	U	0.00093	U	NA	
Chloromethane	74-87-3	--	--	0.0010	U	0.0014	U	0.00093	U	NA	
cis-1,2-Dichloroethene	156-59-2	--	0.25	0.0010	U	0.0014	U	0.00093	U	NA	
cis-1,3-Dichloropropene	10061-01-5		--	0.0010	U	0.0014	U	0.00093	U	NA	
Cyclohexane	110-82-7	--	--	0.0010	U	0.0014	U	0.00093	U	NA	
Dibromochloromethane	75-27-4	--	--	0.0010	U	0.0014	U	0.00093	U	NA	
Dichlorodifluoromethane	75-71-8	--	--	0.0010	U	0.0014	U	0.00093	U	NA	

Table 5
Holtec Decomissioning International, LLC
Indian Point Energy Center
NYSDEC Spill No. 2506842 and GT2LFST Samples
Results of Analysis of Soil for Volatile Organic Compounds

			SAMPLE LOCATION:	WESTERN BERM		EASTERN BERM		PIPE RUN EXCAVATION		GT2LFST - EAST SIDEWALL	
			SAMPLE NAME:	TRC-SS-01-GRAB		TRC-SS-02-GRAB		TRC-GRAB-05		TRC-GRAB-06	
			LABORATORY SAMPLE ID:	460-339408-1		460-339408-3		460-340140-2		460-340140-1	
			DATE SAMPLE COLLECTED:	11/13/2025		11/13/2025		11/24/2025		11/24/2025	
			MATRIX:	Soil		Soil		Soil		Soil	
VOLATILE ORGANIC COMPOUNDS (mg/kg)	CAS Number	CP-51 Soil Cleanup Levels	Unrestricted Use SCOs	Result		Result		Result		Result	
Ethylbenzene	100-41-4	1	1	0.0010	U	0.0014	U	0.00093	U	0.00099	U
Ethylene Dibromide	106-93-4	--	--	0.0010	U	0.0014	U	0.00093	U	NA	
Isopropylbenzene	98-82-8	2.3	--	0.0010	U	0.0014	U	0.00093	U	0.00099	U
m,p-Xylenes	179601-23-1	--	--	0.0010	U	0.0014	U	0.00093	U	NA	
Methyl Acetate	79-20-9	--	--	0.0051	U	0.0070	U	0.0047	U	NA	
Methyl tert-butyl ether	1634-04-4	0.93	0.93	0.0010	U	0.0014	U	0.00093	U	0.00099	U
Methylcyclohexane	108-87-2	--	--	0.0010	U	0.0014	U	0.00093	U	NA	
Methylene chloride	75-09-2	--	0.05	0.0020	U	0.0016	J	0.0019	U	NA	
Naphthalene	91-20-3	12	12	NA		NA		NA		0.0020	U
n-Butylbenzene	104-51-8	12	12	0.0010	U	0.0014	U	0.00094		0.00099	U
n-Propylbenzene	103-65-1	3.9	3.9	0.0010	U	0.0014	U	0.00093	U	0.00099	U
o-Xylene	95-47-6	--	--	0.0010	U	0.0014	U	0.00093	U	NA	
sec-Butylbenzene	135-98-8	11	11	0.0010	U	0.0014	U	0.0011		0.00099	U
Styrene	100-42-5	--	--	0.0010	U	0.0014	U	0.00093	U	NA	
tert-Butylbenzene	98-06-6	5.9	5.9	0.0010	U	0.0014	U	0.0016		0.00099	U
Tetrachloroethene	127-18-4	--	1.3	0.0010	U	0.0014	U	0.00093	U	NA	
Toluene	108-88-3	0.7	0.7	0.0010	U	0.0014	U	0.00093	U	0.00099	U
trans-1,2-Dichloroethene	156-60-5	--	0.19	0.0010	U	0.0014	U	0.00093	U	NA	
trans-1,3-Dichloropropene	10061-02-6	--	--	0.0010	U	0.0014	U	0.00093	U	NA	
Trichloroethene	79-01-6	--	0.47	0.0010	U	0.0014	U	0.00093	U	NA	
Trichlorofluoromethane	75-69-4	--	--	0.0010	U	0.0014	U	0.00093	U	NA	
Vinyl chloride	75-01-4	--	0.02	0.0010	U	0.0014	U	0.00093	U	NA	
Xylene (total)	1330-20-7	0.26	0.26	0.0020	U	0.0028	U	0.0019	U	0.0020	U
Total TICs		--	--	0.0344	JN	0.0316	JN	0.9280	JN	0.0861	JN

Notes:

-- - No criteria

* - Duplicate analysis not within control limits

CAS - Chemical Abstracts Service

J- Estimated value

mg/kg - milligrams per kilogram

N- Presumptive evidence of a compound

NA- Not Analyzed

Soil Cleanup Levels (SCLs) - New York State Department of Environmental Conservation Commissioner Policy 51 (CP-51)

Soil Cleanup Objectives (SCOs) - New York State Department of Environmental Conservation 6 NYCRR Part 375-6

TICs - Tentatively Identified Compounds

U - Non-detect

Table 6
Holtec Decomissioning International, LLC
Indian Point Energy Center
NYSDEC Spill No. 2506842 and GT2LFST Samples
Results of Analysis of Soil for Semivolatile Organic Compounds

			SAMPLE LOCATION:	WESTERN BERM		EASTERN BERM		PIPE RUN EXCAVATION		GT2LFST - EAST SIDEWALL	
			SAMPLE NAME:	TRC-SS-01-COMP		TRC-SS-02-COMP		TRC-GRAB-05		TRC-GRAB-06	
			LABORATORY SAMPLE ID:	460-339075-2		460-339075-4		460-340140-2		460-340140-1	
			DATE SAMPLE COLLECTED:	11/10/2025		11/10/2025		11/24/2025		11/24/2025	
			MATRIX:	Soil		Soil		Soil		Soil	
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)	CAS Number	CP-51 Soil Cleanup Levels	Unrestricted Use SCOs	Result		Result		Result		Result	
1,1'-Biphenyl	92-52-4	--	--	0.35	U	0.34	U	0.39	U	NA	
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	0.35	U	0.34	U	0.39	U	NA	
1,4-Dioxane	123-91-1	--	0.1	0.035	U	0.034	U	0.039	U	NA	
2,2'-oxybis[1-chloropropane]	108-60-1	--	--	0.35	U	0.34	U	0.39	U	NA	
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	0.35	U	0.34	U	0.39	U	NA	
2,4,5-Trichlorophenol	95-95-4	--	--	0.35	U	0.34	U	0.39	U	NA	
2,4,6-Trichlorophenol	88-06-2	--	--	0.14	U	0.14	U	0.16	U	NA	
2,4-Dichlorophenol	120-83-2	--	--	0.14	U	0.14	U	0.16	U	NA	
2,4-Dimethylphenol	105-67-9	--	--	0.35	U	0.34	U	0.39	U	NA	
2,4-Dinitrophenol	51-28-5	--	--	0.28	U	0.28	U	0.31	U	NA	
2,4-Dinitrotoluene	121-14-2	--	--	0.071	U	0.069	U	0.079	U	NA	
2,6-Dinitrotoluene	606-20-2	--	--	0.071	U	0.069	U	0.079	U	NA	
2-Chloronaphthalene	91-58-7	--	--	0.35	U	0.34	U	0.39	U	NA	
2-Chlorophenol	95-57-8	--	--	0.35	U	0.34	U	0.39	U	NA	
2-Methylnaphthalene	91-57-6	--	--	0.35	U	0.34	U	0.39	U	NA	
2-Methylphenol	95-48-7	--	0.33	0.35	U	0.34	U	0.39	U	NA	
2-Nitroaniline	88-74-4	--	--	0.35	U	0.34	U	0.39	U	NA	
2-Nitrophenol	88-75-5	--	--	0.35	U	0.34	U	0.39	U	NA	
3&4-Methylphenol	15831-10-4	--	--	0.35	U	0.34	U	0.39	U	NA	
3,3'-Dicholorobenzidine	91-94-1	--	--	0.14	U	0.14	U	0.16	U	NA	
3-Nitroaniline	99-09-2	--	--	0.35	U	0.34	U	0.39	U	NA	
4,6-Dinitro-2-methylphenol	534-52-1	--	--	0.28	U	0.28	U	0.31	U	NA	
4-Bromophenyl-phenylether	101-55-3	--	--	0.35	U	0.34	U	0.39	U	NA	
4-Chloro-3-methylphenol	59-50-7	--	--	0.35	U	0.34	U	0.39	U	NA	
4-Chloroaniline	106-47-8	--	--	0.35	U	0.34	U	0.39	U	NA	
4-Chlorophenyl-phenyl ether	7005-72-3	--	--	0.35	U	0.34	U	0.39	U	NA	
4-Methylphenol	106-44-5	--	0.33	0.35	U	0.34	U	0.39	U	NA	
4-Nitroaniline	100-01-6	--	--	0.35	U	0.34	U	0.39	U	NA	
4-Nitrophenol	100-02-7	--	--	0.71	U	0.69	U	0.79	U	NA	
Acenaphthene	83-32-9	20	20	0.35	U	0.34	U	0.39	U	0.36	U
Acenaphthylene	208-96-8	100	100	0.35	U	0.34	U	0.39	U	0.36	U
Acetophenone	98-86-2	--	--	0.35	U	0.34	U	0.39	U	NA	
Anthracene	120-12-7	100	100	0.35	U	0.34	U	0.39	U	0.36	U
Atrazine	1912-24-9	--	--	0.14	U	0.14	U	0.16	U	NA	
Benzaldehyde	100-52-7	--	--	0.35	U	0.34	U	0.39	U	NA	
Benzo(a) anthracene	56-55-3	1	1	0.028	J	0.034	U	0.039	U	0.036	U
Benzo(a) pyrene	50-32-8	1	1	0.017	J	0.012	J	0.039	U	0.036	U
Benzo(b) fluoranthene	205-99-2	1	1	0.023	J	0.015	J	0.039	U	0.0097	J
Benzo(g,h,i) perylene	191-24-2	100	100	0.35	U	0.34	U	0.39	U	0.36	U
Benzo(k) fluoranthene	207-08-9	0.8	0.8	0.012	J	0.0078	J	0.039	U	0.036	U
bis(2-Chloroethoxy) methane	111-91-1	--	--	0.35	U	0.34	U	0.39	U	NA	
bis(2-Chloroethyl) ether	111-44-4	--	--	0.035	U	0.034	U	0.039	U	NA	
bis(2-Ethylhexyl) phthalate	117-81-7	--	--	0.35	U	0.34	U	0.39	U	NA	
Butyl benzyl phthalate	85-68-7	--	--	0.35	U	0.34	U	0.39	U	NA	
Caprolactam	105-60-2	--	--	0.35	U	0.34	U	0.39	U	NA	
Carbazole	86-74-8	--	--	0.35	U	0.34	U	0.39	U	NA	
Chrysene	218-01-9	1	1	0.023	J	0.016	J	0.39	U	0.36	U
Dibenzo(a,h)anthracene	53-70-3	0.33	0.33	0.035	U	0.034	U	0.039	U	0.036	U
Dibenzofuran	132-64-9	--	7	0.35	U	0.34	U	0.39	U	NA	
Diethyl phthalate	84-66-2	--	--	0.35	U	0.34	U	0.39	U	NA	
Dimethyl phthalate	131-11-3	--	--	0.35	U	0.34	U	0.39	U	NA	
Di-n-butyl phthalate	84-74-2	--	--	0.35	U	0.34	U	0.39	U	NA	
Di-n-octyl phthalate	117-84-0	--	--	0.35	U	0.34	U	0.39	U	NA	
Fluoranthene	206-44-0	100	100	0.053	J	0.025	J	0.020	J	0.36	U

Table 6
Holtec Decomissioning International, LLC
Indian Point Energy Center
NYSDEC Spill No. 2506842 and GT2LFST Samples
Results of Analysis of Soil for Semivolatile Organic Compounds

			SAMPLE LOCATION:	WESTERN BERM		EASTERN BERM		PIPE RUN EXCAVATION		GT2LFST - EAST SIDEWALL	
			SAMPLE NAME:	TRC-SS-01-COMP		TRC-SS-02-COMP		TRC-GRAB-05		TRC-GRAB-06	
			LABORATORY SAMPLE ID:	460-339075-2		460-339075-4		460-340140-2		460-340140-1	
			DATE SAMPLE COLLECTED:	11/10/2025		11/10/2025		11/24/2025		11/24/2025	
			MATRIX:	Soil		Soil		Soil		Soil	
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)	CAS Number	CP-51 Soil Cleanup Levels	Unrestricted Use SCOs	Result		Result		Result		Result	
Fluorene	86-73-7	30	30	0.35	U	0.34	U	0.39	U	0.36	U
Hexachlorobenzene	118-74-1	--	0.33	0.035	U	0.034	U	0.039	U	NA	
Hexachlorobutadiene	87-68-3	--	--	0.071	U	0.069	U	0.079	U	NA	
Hexachlorocyclopentadiene	77-47-4	--	--	0.35	U	0.34	U	0.39	U	NA	
Hexachloroethane	67-72-1	--	--	0.035	U	0.034	U	0.039	U	NA	
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.5	0.027	J	0.023	J	0.039	U	0.036	U
Isophorone	78-59-1	--	--	0.14	U	0.14	U	0.16	U	NA	
Naphthalene	91-20-3	12	12	0.35	U	0.34	U	0.39	U	0.36	U
Nitrobenzene	98-95-3	--	--	0.035	U	0.034	U	0.039	U	NA	
N-Nitroso-di-n-propylamine	621-64-7	--	--	0.035	U	0.034	U	0.039	U	NA	
N-Nitrosodiphenylamine	86-30-6	--	--	0.35	U	0.34	U	0.39	U	NA	
Pentachlorophenol	87-86-5	--	0.8	0.28	U	0.28	U	0.31	U	NA	
Phenanthrene	85-01-8	100	100	0.035	J	0.34	U	0.019	J	0.36	U
Phenol	108-95-2	--	0.33	0.35	U	0.34	U	0.39	U	NA	
Pyrene	129-00-0	100	100	0.043	J	0.020	J	0.018	J	0.012	J
Total TICs		--	--	0.36	A J	0.32	A J	None		0.44	J

Notes:

-- - No criteria

* - Duplicate analysis not within control limits

A- Average of two or more samples

CAS - Chemical Abstracts Service

J- Estimated value

Light gray shade with bold text value indicates result exceeds NYCRR 375-6.8(a) Unrestricted Use Soil Cleanup Objectives or CP-51 Soil Cleanup Levels.

mg/kg - milligrams per kilogram

N- Presumptive evidence of a compound

NA- Not Analyzed

Soil Cleanup Levels (SCLs) - New York State Department of Environmental Conservation Commissioner Policy 51 (CP-51)

Soil Cleanup Objectives (SCOs) - New York State Department of Environmental Conservation 6 NYCRR Part 375-6

TICs - Tentatively Identified Compounds

U- Non-detect

Table 7
Holtec Decomissioning International, LLC
Indian Point Energy Center
NYSDEC Spill No. 2506842 and GT2LFST Samples
Results of Analysis of Soil for Metals

		SAMPLE LOCATION:	WESTERN BERM		EASTERN BERM		PIPE RUN EXCAVATION	
		SAMPLE NAME:	TRC-SS-01-COMP		TRC-SS-02-COMP		TRC-GRAB-05	
		LABORATORY SAMPLE ID:	460-339075-2		460-339075-4		460-340140-2	
		DATE SAMPLE COLLECTED:	11/10/2025		11/10/2025		11/24/2025	
		MATRIX:	Soil		Soil		Soil	
METALS (mg/kg)	CAS Numbers	Unrestricted Use SCOs	Result		Result		Result	
Aluminum	7429-90-5	--	2820		4,520		8,540	
Antimony	7440-36-0	--	0.19	J	0.30	J	1.1	U
Arsenic	7440-38-2	13	4.4		3.7		2.3	
Barium	7440-39-3	350	29.5		127		36.5	
Beryllium	7440-41-7	7.2	0.23	J	0.30	J	0.34	J
Cadmium	7440-43-9	2.5	0.18	J	0.50	J	0.53	U
Calcium	7440-70-2	--	15,400		134,000		4,660	
Chromium	7440-47-3	--	18.4		19.9		11.0	
Hexavalent Chromium	18540-29-9	1	1.1	U	1.0	U	1.2	U
Cobalt	7440-48-4	--	2.5		4.1		6.3	
Copper	7440-50-8	50	16.2		15.1		17.4	
Cyanide (Total)	57-12-5	27	0.24	U	0.22	U	0.25	U
Iron	7439-89-6	--	12,700		8,210		14,900	
Lead	7439-92-1	63	40.9		22.1		7.5	
Magnesium	7439-95-4	--	5,420		68,400		4,560	
Manganese	7439-96-5	1600	102		149		210	
Mercury	7439-97-6	0.18	0.020		0.028		0.014	J
Nickel	7440-02-0	30	7.8		12.8		12.2	
Potassium	7440-09-7	--	996		1,180		1,240	
Selenium	7782-49-2	3.9	0.17	J	0.38	J	1.3	U
Silver	7440-22-4	2	0.37	U	0.39	U	0.43	U
Sodium	7440-23-5	--	110		98.2	U	215	
Thallium	7440-28-0	--	0.37	J	0.078	J	0.10	J
Vanadium	7440-62-2	--	15.0		13.4		17.5	
Zinc	7440-66-6	109	**205**		**134**		44.9	

Notes:

-- - No criteria

CAS - Chemical Abstracts Service

J- Estimated value

Light gray shade with bold text value indicates result exceeds NY 375 6.8a Unrestricted Use Soil Cleanup Objectives.

mg/kg -milligrams per kilogram

Soil Cleanup Objectives (SCOs) - New York State Department of Environmental Conservation 6 NYCRR Part 375-6

U - Non-detect

Table 8
Holtec Decomissioning International, LLC
Indian Point Energy Center
NYSDEC Spill No. 2506842 and GT2LFST Samples
Results of Analysis of Soil for Pesticides

		SAMPLE LOCATION:	WESTERN BERM		EASTERN BERM		PIPE RUN EXCAVATION	
		SAMPLE NAME:	TRC-SS-01-COMP		TRC-SS-02-COMP		TRC-GRAB-05	
		LABORATORY SAMPLE ID:	460-339075-2		460-339075-4		460-340140-2	
		DATE SAMPLE COLLECTED:	11/10/2025		11/10/2025		11/24/2025	
		MATRIX:	Soil		Soil		Soil	
PESTICIDES (mg/kg)	CAS Number	Unrestricted Use SCOs	Result		Result		Result	
4,4-DDD	72-54-8	0.0033	0.0071	U	0.0069	U	0.0080	U
4,4-DDE	72-55-9	0.0033	0.0071	U	0.0069	U	0.0080	U
4,4-DDT	50-29-3	0.0033	0.0071	U	0.0069	U	0.0080	U
Aldrin	309-00-2	0.005	0.0071	U	0.0069	U	0.0080	U
alpha-BHC	319-84-6	0.02	0.0071	U	0.0021	U	0.0024	U
beta-BHC	319-85-7	0.036	0.0071	U	0.0021	U	0.0024	U
Chlorodane (technical)	12789-03-6	--	0.071	U	0.069	U	0.080	U
delta-BHC	319-86-8	0.04	0.0021	U	0.0021	U	0.0024	U
Dieldrin	60-57-1	0.005	0.0021	U	0.0021	U	0.0024	U
Endosulfan I	959-98-8	2.4	0.0071	U	0.0069	U	0.0080	U
Endosulfan II	33213-65-9	2.4	0.0071	U	0.0069	U	0.0080	U
Endosulfan Sulfate	1031-07-8	2.4	0.0071	U	0.0069	U	0.0080	U
Endrin	72-20-8	0.014	0.0071	U	0.0069	U	0.0080	U
Endrin aldehyde	7421-93-4	--	0.0071	U	0.0069	U	0.0080	U
Endrin ketone	53494-70-5	--	0.0071	U	0.0069	U	0.0080	U
gamma-BHC(lindane)	58-59-9	0.1	0.0021	U	0.0021	U	0.0024	U
Heptachlor	76-44-8	0.042	0.0071	U	0.0069	U	0.0080	U
Heptachlor epoxide	1024-57-3	--	0.0071	U	0.0069	U	0.0080	U
Methoxychlor	72-43-5	--	0.0071	U	0.0069	U	0.0080	U
Toxaphene	8001-35-2	--	0.071	U	0.069	U	0.080	U

Notes:

-- - No criteria

CAS - Chemical Abstracts Service

mg/kg -milligrams per kilogram

Soil Cleanup Objectives (SCOs) - New York State Department of Environmental Conservation 6 NYCRR Part 375-6

U - Non-detect

Table 9
Holtec Decomissioning International, LLC
Indian Point Energy Center
NYSDEC Spill No. 2506842 and GT2LFST Samples
Results of Analysis of Soil for PCBs

		SAMPLE LOCATION:	WESTERN BERM		EASTERN BERM		PIPE RUN EXCAVATION	
		SAMPLE NAME:	TRC-SS-01-COMP		TRC-SS-02-COMP		TRC-GRAB-05	
		LABORATORY SAMPLE ID:	460-339075-2		460-339075-4		460-340140-2	
		DATE SAMPLE COLLECTED:	11/10/2025		11/10/2025		11/24/2025	
		MATRIX:	Soil		Soil		Soil	
POLYCHLORINATED BIPHENYLS (PCBs) (mg/kg)	CAS Number	Unrestricted Use SCOs	Result		Result		Result	
Aroclor 1016	12674-11-2	--	0.071	U	0.069	U	0.080	U
Aroclor 1221	11104-28-2	--	0.071	U	0.069	U	0.080	U
Aroclor 1232	11141-16-5	--	0.071	U	0.069	U	0.080	U
Aroclor 1242	53469-21-9	--	0.071	U	0.069	U	0.080	U
Aroclor 1248	12672-29-6	--	0.071	U	0.069	U	0.080	U
Aroclor 1254	11097-69-1	--	0.071	U	0.069	U	0.080	U
Aroclor 1260	11096-82-5	--	0.071	U	0.069	U	0.080	U
Aroclor 1262	37324-23-5	--	0.071	U	0.069	U	0.080	U
Aroclor 1268	11100-14-4	--	0.071	U	0.069	U	0.080	U
Total PCBs	1336-36-3	0.1	0.071	U	0.069	U	0.080	U

Notes:
-- - No criteria
CAS - Chemical Abstracts Service
mg/kg - milligrams per kilogram
Soil Cleanup Objectives (SCOs) - New York State Department of Environmental Conservation 6 NYCRR Part 375-6
U - Non-detect

Table 10
Holtec Decomissioning International, LLC
Indian Point Energy Center
NYSDEC Spill No. 2506842 and GT2LFST Samples
Results of Analysis of Soil for Waste Characterization Parameters

		SAMPLE LOCATION:	WESTERN BERM		EASTERN BERM		WESTERN BERM		EASTERN BERM		PIPE RUN EXCAVATION	
		SAMPLE NAME:	TRC-SS-01-COMP		TRC-SS-02-COMP		TRC-SS-01-GRO		TRC-SS-02-GRO		TRC-GRAB-05	
		LABORATORY SAMPLE ID:	460-339075-2		460-339075-4		460-339408-2		460-339408-4		460-340140-2	
		DATE SAMPLE COLLECTED:	11/10/2025		11/10/2025		11/13/2025		11/13/2025		11/24/2025	
		MATRIX:	Soil		Soil		Soil		Soil		Soil	
WASTE CHARACTERIZATION PARAMETERS (mg/kg)	CAS Numbers	Unrestricted Use SCOs	Result		Result		Result		Result		Result	
DRO	--	--	37		8.7	J	NA		NA		100	
GRO	--	--	NA		NA		2.5		2.5	U	2.5	

Notes:

-- - No criteria

CAS - Chemical Abstracts Service

DRO- Diesel Range Organics

GRO- Gasoline Range Organics

mg/kg -milligrams per kilogram

NA - Not Analyzed

Soil Cleanup Objectives (SCOs) - New York State Department of Environmental Conservation 6 NYCRR Part 375-6

U - Non-detect

Table 11
Holtec Decomissioning International, LLC
Indian Point Energy Center
GT2LFST Excavation Aqueous Sample
Results of Analysis of Water for Volatile Organic Compounds

		SAMPLE LOCATION:	GT2LFST	
		SAMPLE NAME:	TRC-SW-1	
		LABORATORY SAMPLE ID:	460-338606-1	
		DATE SAMPLE COLLECTED:	11/3/2025	
		MATRIX:	Aqueous	
VOLATILE ORGANIC COMPOUNDS (µg/L)	CAS Number	Class GA Value*	Result	
1,2,4-Trimethylbenzene	95-63-6	5	1.0	U
1,3,5-Trimethylbenzene	108-67-8	5	1.0	U
4-Isopropyltoluene	99-87-6	5	1.0	U
Benzene	71-43-2	1	0.45	U
Ethylbenzene	100-41-4	5	1.0	U
Isopropylbenzene	98-82-8	5	1.0	U
Methyl tert-butyl ether	1634-04-4	10	1.0	U
Naphthalene	91-20-3	--	3.0	U
n-Butylbenzene	104-51-8	5	1.0	U
n-Propylbenzene	103-65-1	5	1.0	U
sec-Butylbenzene	135-98-8	5	1.0	U
tert-Butylbenzene	98-06-6	5	1.0	U
Toluene	108-88-3	5	1.0	U
Xylene (total)	1330-20-7	5[(1)]	2.0	U
Total TICs			ND	

Notes:

* - NYSDEC Ambient Water Quality Standards and Guidance Values for Class GA water, June 1998.

[(1)] - There is no Class GA value for total xylenes. The standard for o-xylene, m-xylene, and p-xylene is 5 µg/L.

µg/L - micrograms per liter
CAS - Chemical Abstracts Service
ND - Not detected
TICs - Tentatively Identified Compounds
U - Non-detect

Table 12
Holtec Decomissioning International, LLC
Indian Point Energy Center
GT2LFST Excavation Aqueous Sample
Results of Analysis of Water for Semivolatile Organic Compounds

		SAMPLE LOCATION:	GT2LFST	
		SAMPLE NAME:	TRC-SW-1	
		LABORATORY SAMPLE ID:	460-338606-1	
		DATE SAMPLE COLLECTED:	11/3/2025	
		MATRIX:	Aqueous	
SEMIVOLATILE ORGANIC COMPOUNDS (µg/L)	CAS Number	Class GA Value*	Result	
Acenaphthene	83-32-9	--	10	U
Acenaphthylene	208-96-8	--	10	U
Anthracene	120-12-7	50	10	U
Benzo(a) anthracene	56-55-3	0.002	1.0	U
Benzo(a) pyrene	50-32-8	>ND	1.0	U
Benzo(b) fluoranthene	205-99-2	0.002	2.0	U
Benzo(g,h,i) perylene	191-24-2	--	10	U
Benzo(k) fluoranthene	207-08-9	0.002	1.0	U
Chrysene	218-01-9	0.002	2.0	U
Dibenzo(a,h)anthracene	53-70-3	--	1.0	U
Fluoranthene	206-44-0	50	10	U
Fluorene	86-73-7	50	10	U
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	2.0	U
Naphthalene	91-20-3	--	2.0	U
Phenanthrene	85-01-8	50	10	U
Pyrene	129-00-0	50	10	U
Total TICs			40	J N

Notes:

* - NYSDEC Ambient Water Quality Standards and Guidance Values for Class GA water, June 1998.

µg/L - micrograms per liter

CAS - Chemical Abstracts Service

N - Presumptive evidence of a compound

TICs - Tentatively Identified Compounds

U - Non-detect

Attachment 1
TRC Closure Activities Photograph Log

Indian Point Energy Center Remote Fill Piping Closure Photograph Log

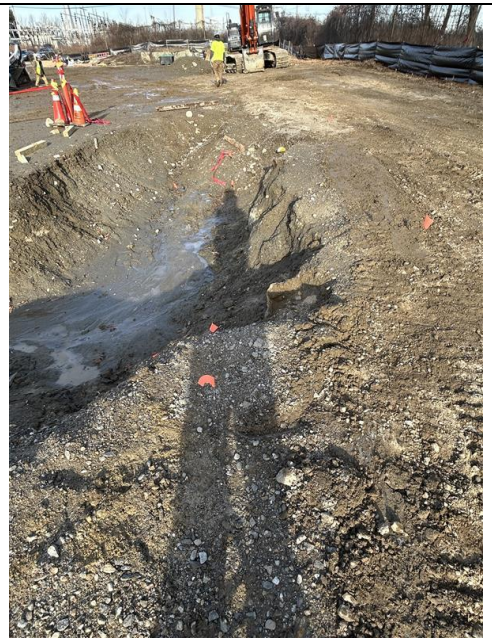


Photo 1: View of pipe run excavation on January 13, 2026.

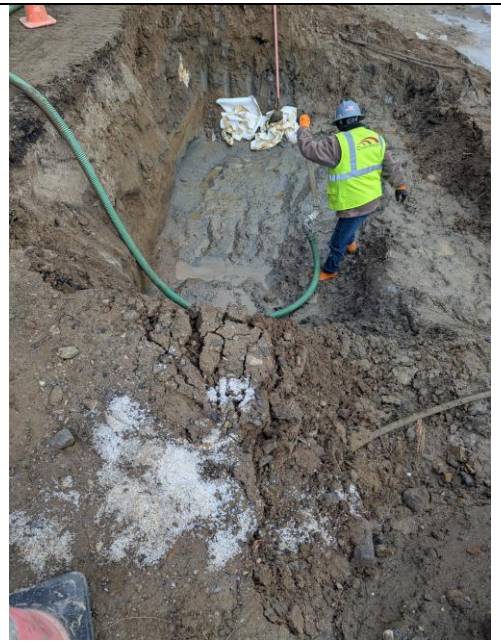


Photo 2: View of additional excavation around GT23FOT-PIPE-04 on January 15, 2026.

Photo 3: View of additional excavation around GT23FOT-PIPE-10 and GT23FOT-PIPE-11 on January 15, 2026.

Photo 4: View of excavation area around GT23FOT-PIPE-10 and GT23FOT-PIPE-11 on February 18, 2026.

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:
641609	J. Montgomery and S. Sproul	1 of 2	HDI	Holtec Indian Point 2 LLC 450 Broadway, Buchanan, NY 10511

Indian Point Energy Center Remote Fill Piping Closure Photograph Log

Photo 5: View of end point sample collection near GT23FOT-PIPE-04 on February 18, 2026.

Photo 6: View of pipe abatement and removal on December 17, 2025.

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:	TRC
641609	J. Montgomery and S. Sproul	2 of 2	HDI	Holtec Indian Point 2 LLC 450 Broadway, Buchanan, NY 10511	

Indian Point Energy Center NYSDEC Spill No. 2506842 Closure Photograph Log

Photo 1: Berm stockpile #2 on eastern side of the GT 2/3 FOT berm. Photo taken on November 10, 2025.

Photo 2: Berm stockpile #1 on northwest side of the GT 2/3 FOT berm. Photo taken on November 10, 2025.

Photo 3: View of GT 2/3 FOT Berm Excavation. Photo taken on November 11, 2025.

Photo 4: View of GT 2/3 FOT Berm. Photo taken on November 12, 2025.

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:
641609	J. Montgomery	1 of 1	HDI	Holtec Indian Point 2 LLC 450 Broadway, Buchanan, NY 10511

Indian Point Energy Center GT2LFST Closure Photograph Log

Photo 1: View of subsurface remote fill piping in Pond 1 from the eastern sidewall, facing northwest. Photo taken on April 23, 2025.

Photo 2: View of Pond 1 from the eastern sidewall, facing southwest.

Photo 3: View of remote fill port location in Pond 1, facing northeast. Photo taken on April 23, 2025.

Photo 4: View of Pond 1 from the location of the former tank GT2LFST, facing north. Photo taken on April 23, 2025. Photo taken on April 23, 2025.

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:
641609	J. Raup, A. Donnelly, R. DePolo	1 of 2	HDI	Holtec Indian Point 2 LLC 450 Broadway, Buchanan, NY 10511

Indian Point Energy Center GT2LFST Closure Photograph Log

Photo 5: View of subsurface remote fill piping in Pond 1 from the eastern sidewall, facing northwest. Photo taken on November 3, 2025.

Photo 6: View Pond 1 and exposed remote fill piping from the southern sidewall, facing north. Photo taken on November 24, 2025.

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:	TRC
641609	J. Raup, A. Donnelly, R. DePolo	2 of 2	HDI	Holtec Indian Point 2 LLC 450 Broadway, Buchanan, NY 10511	

Attachment 2
Closure Package for Removal of 213,840-gallon Aboveground Storage Tank

HOLTEC DECOMMISSIONING INTERNATIONAL

Krishna P. Singh Technology Campus, 1 Holtec Blvd., Camden, NJ 08104
Telephone (856) 797-0900
Fax (856) 797-0909

May 30, 2024

Joshua Cummins
New York State Department of Environmental Conservation
Region 3 – Division of Environmental Remediation
Spill Prevention, Response and Remediation
21 S. Putt Corners Rd
New Paltz, NY 12561

Re: Closure Package for Removal of 213,840-gallon Aboveground Storage Tank
Tank ID: GT 2/3 FOT
MOSF License #: 3-2140

Dear Mr. Cummins,

Holtec Decomissioning International (HDI) is providing a closure report for the removal of the 213,840-gallon aboveground storage tank (AST) used for storing #2 fuel oil. The AST was registered as GT 2/3 FOT under Major Oil Storage Facility (MOSF) License # 3-2140. Location of the AST is provided in **Figure 1.**

The AST closure was performed by Miller Environmental Group, Inc. (MEG) in accordance with the approved AST Closure Work Plan dated March 21, 2022. MEG's Tank Closure Report dated April 15, 2024, is provided in **Attachment A.** The Closure Report includes waste disposal manifests and photographs of work performed on the GT 2/3 FOT. Work performed included hot pressure washing and flushing of the tank interior, and systemically disconnecting and removal of the aboveground piping connected to the AST and filling ports for cleaning and disposal. Underground piping was capped, and removal is to be performed in a later phase of decommissioning. Additional post-closure photographs of underground piping that have been capped are provided in **Attachment B.**

As mentioned in the Department approved proposal to close the GT2/3FOT, the AST is in an area that was designated as an Area of Concern in the Department approved Remedial Investigation Scoping Work Plan that was develop in accordance with the Joint Proposal and Order on Consent for IPEC Environmental Remediation. As a result, all underground utilities will be removed and assessment of the area will be performed at a later time in accordance with an approved Remedial Investigation Work Plan.

An MOSF application for the closure of GT 2/3 FOT is provided in **Attachment C**. Closure of the GT 2/3 FOT AST coincides with closure of the associated secondary containment and its State Pollutant Discharge Elimination System (SPDES) Permit NY0234826. A copy of the existing SPDES permit is provided in **Attachment D**.

If you have any questions regarding this submission or need additional information, please contact Carlos A. Garcia, (646) 355.8972 or Kristin Maddalo (914) 254.7248.

HOLTEC DECOMMISSIONING INTERNATIONAL

Krishna P. Singh Technology Campus, 1 Holtec Blvd., Camden, NJ 08104
Telephone (856) 797-0900
Fax (856) 797-0909

Sincerely,

Frank Spagnuolo
IPEC Site Vice President
Holtec Decommissioning International, LLC

Enclosures–

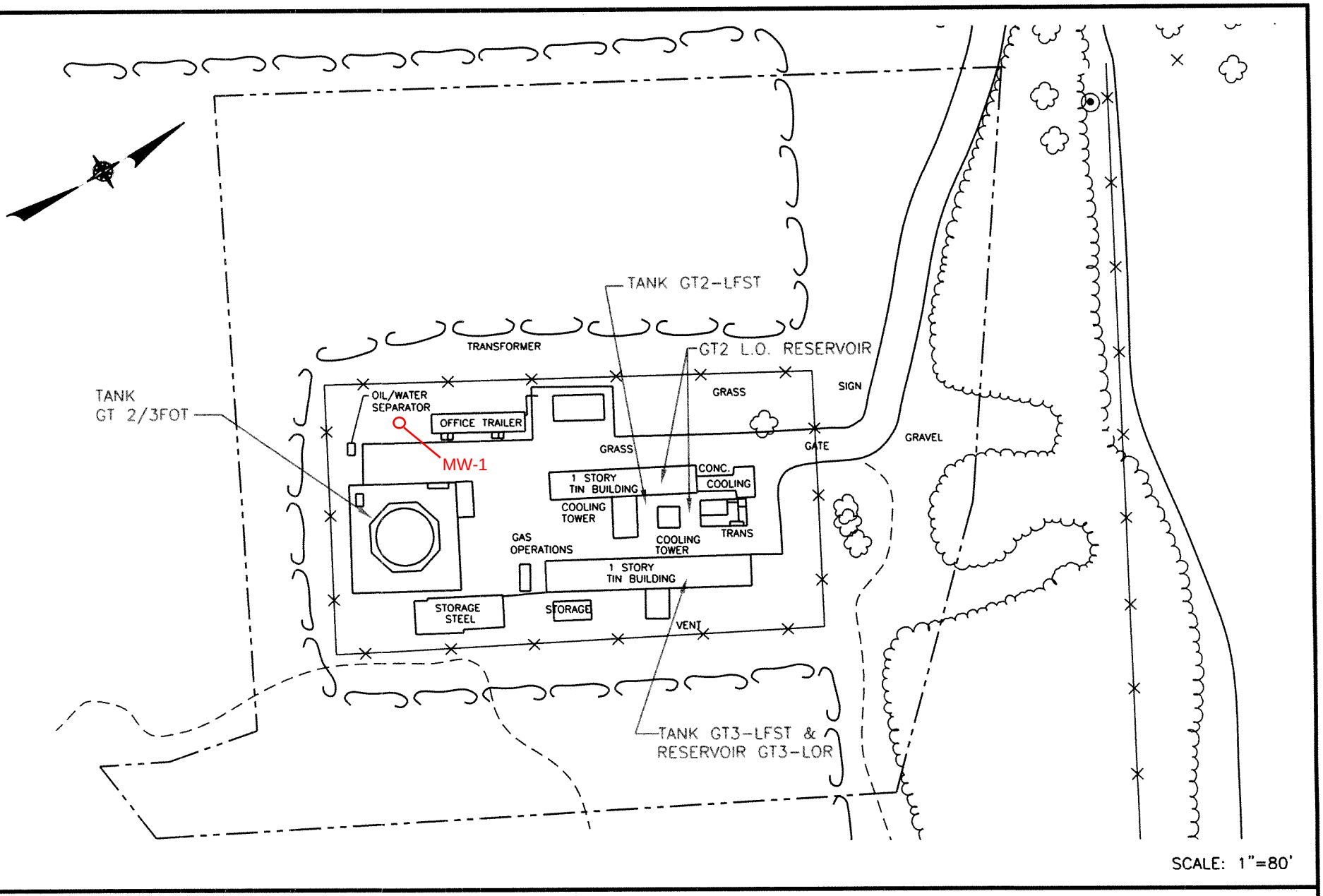
Figure 1 – GT 2/3 FOT Tank Location
Attachment A – Miller Environmental Group Tank Closure Report
Attachment B – Photolog
Attachment C – MOSF Application for Closure
Attachment D – SPDES Permit NY0234826

cc: Erik Posner (NYSDEC)
Lorraine A. Gregory (NYSDEC)
David Pollock (NYSDEC)
Kelly Turturro (NYSDEC)
Benjamin Reynolds (HDI)

Matthew Johnson (HDI)
Kristin Maddalo (HDI)
Carlos A. Garcia (HDI)

FIGURE 1

GT 2/3 FOT Location



ENTERY NUCLEAR
INDIAN POINT 2, LLC
BUCHANAN GAS TURBINE SITE

SITE PLAN

FIGURE 1-1

Dvirka and Bartilucci CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

F:\2029\2029-1.dwg, 06/18/03 10:37:51 AM, LGlubiak

ATTACHMENT A

Miller Environmental Group
Tank Closure Report

Tank Closure Report

Site:

Holtec Indian Point 2, LLC
450 Broadway
Buchanan, NY
MOSF Registration #: 3-2140
Tanks: GT 2/3 FOT, GT3LFST, GT2LOR, GT3LOR
&
21OATA, 21OATB, 22OATA, 22OATB, MBFPDT, BFOC,
HSOT, BFPTOC, MTOC, TLOR, COST, DOST, GT1LOR, LOSTSST

Prepared for:

New York State Department of Environmental Conservation, Region 3
21 S. Putt Corners Rd.,
New Paltz, NY 12561

Prepared by:

Miller Environmental Group
169 Stone Castle Road,
Rock Tavern, NY 12575

April 15, 2024

Table of Contents

1.0 Introduction……...…….1
1.1 Tank Removal……...…….1
1.2 Conclusions and Recommendations……..……1

Appendices

Appendix A – Site Photographs
Appendix B – Shipping Documents

1.0 Introduction

Miller Environmental Group (MEG) has prepared this *Tank Closure Report* on behalf of Holtec Decommissioning International for the purpose of documenting the closure of Tanks GT 2/3 FOT, GT3LFST, GT2LOR, GT3LOR, LOSTSST, 21OATA, 21OATB, 22OATA, 22OATB, MBFPDT, BFOC , HSOT,BFPTOC, MTOC, TLOR, COST, DOST, and GT1LOR of MOSF registration # 3-2140. The following summarizes AST closure activities conducted at the site.

1.1 Tank Cleaning

Beginning May 2, 2022 and concluding June 3, 2022, MEG mobilized equipment and personnel to site to clean tanks GT 2/3 FOT, GT3LFST, GT2LOR, and GT3LOR. Tanks and piping were accessed by existing openings and/or cut, evacuated of product, and flushed/cleaned with water by hot pressure washer (**Appendix A – Photographs**). Confined space entry was conducted for cleaning of GT 2/3 FOT.

Approximately 5,473 gallons of oil and wash water was collected by vacuum truck and transported off site for disposal (**Appendix B – Shipping Documents**).

Beginning April 13, 2023 and concluding May 25, 2023, MEG mobilized equipment and personnel to site to clean tanks 21OATA, 22OATB, 22OATA, 22OATB, MBFPDT, BFOC, HSOT, BFPTOC, MTOC, TLOR, COST, DOST, GT1LOR, and LOSTSST. Tanks were cut for ease of access for cleaning. When necessary, confined space entry into the tanks was conducted to complete cleaning. Vacuum truck was used to remove residual product from each tank. A hot pressure washer was used to introduce water into the interior of the tank for flushing. This wash water was collected by vacuum truck (**Appendix A – Photographs**). Approximately 6,613 gallons of oil and wash water was collected by vacuum truck and transported off site for disposal (**Appendix B – Shipping Documents**).

1.2 Conclusion and Recommendations

MEG completed the cleaning of the above referenced tanks associated with MOSF License # 3-2140 described at the subject site. The tanks were shipped off site by others and scrapped at Brookfield Resource Management in Elmsford, NY. No damage or leaks were observed in any tanks, and all tanks were installed in containment or on impervious surfaces. MEG does not recommend any further action.

If you have questions or require additional information, please contact our office at (845) 569-1200.

Sincerely,

Miller Environmental Group, Inc.

Ryan LeRoy
Project Manager

Appendix A – Site Photographs

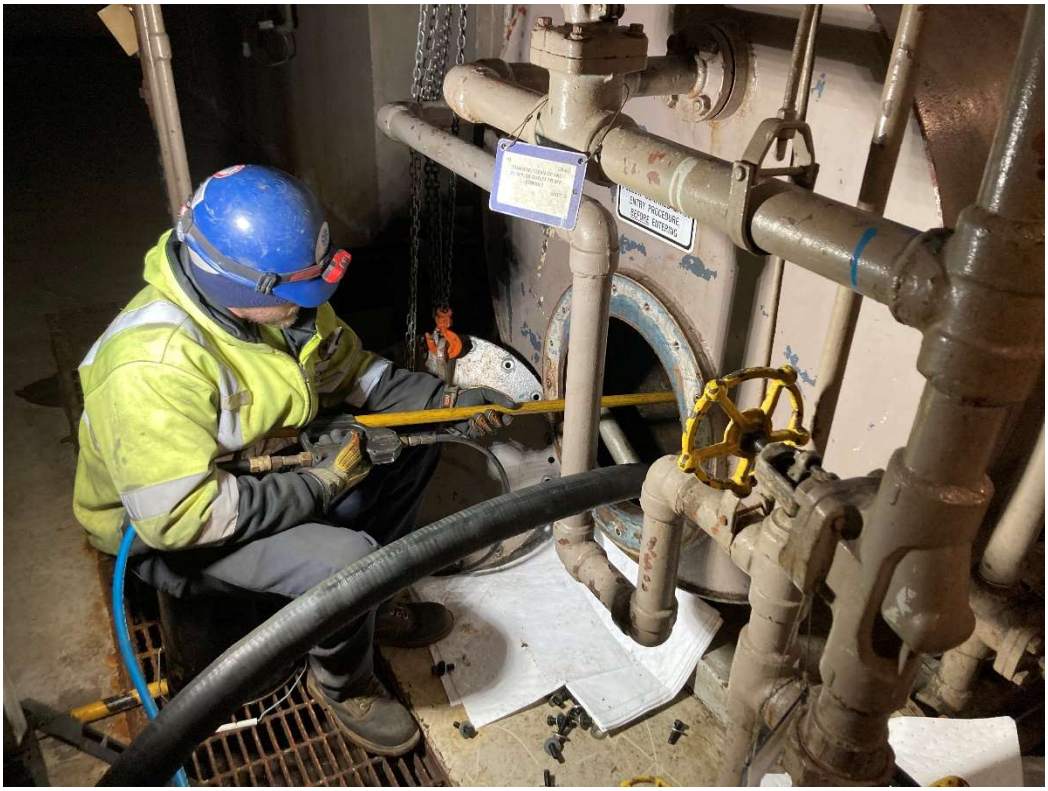
MILLER ENVIRONMENTAL GROUP INC.

MILLER ENVIRONMENTAL GROUP INC.

Site Photographs
Holtec Decommissioning International
450 Broadway
Buchanan, NY

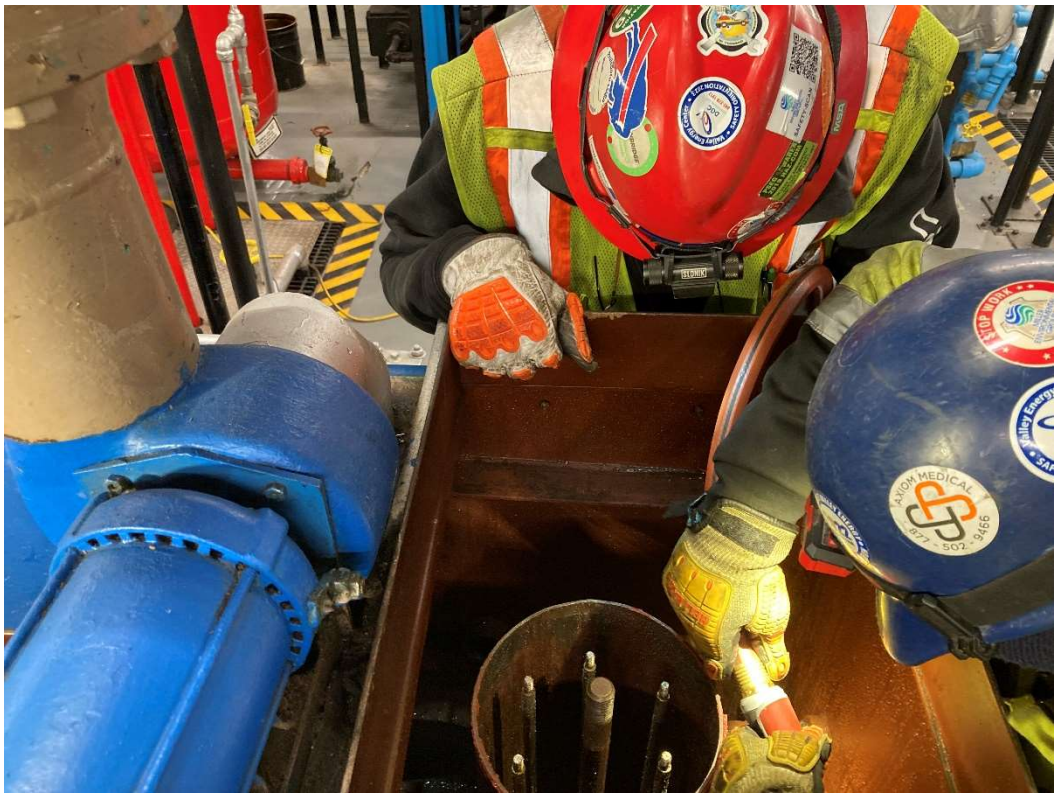
MILLER ENVIRONMENTAL GROUP INC.

Site Photographs
Holtec Decommissioning International
450 Broadway
Buchanan, NY



MILLER ENVIRONMENTAL GROUP INC.

Site Photographs
Holtec Decommissioning International
450 Broadway
Buchanan, NY



MILLER ENVIRONMENTAL GROUP INC.

Site Photographs
Holtec Decommissioning International
450 Broadway
Buchanan, NY

MILLER ENVIRONMENTAL GROUP INC.

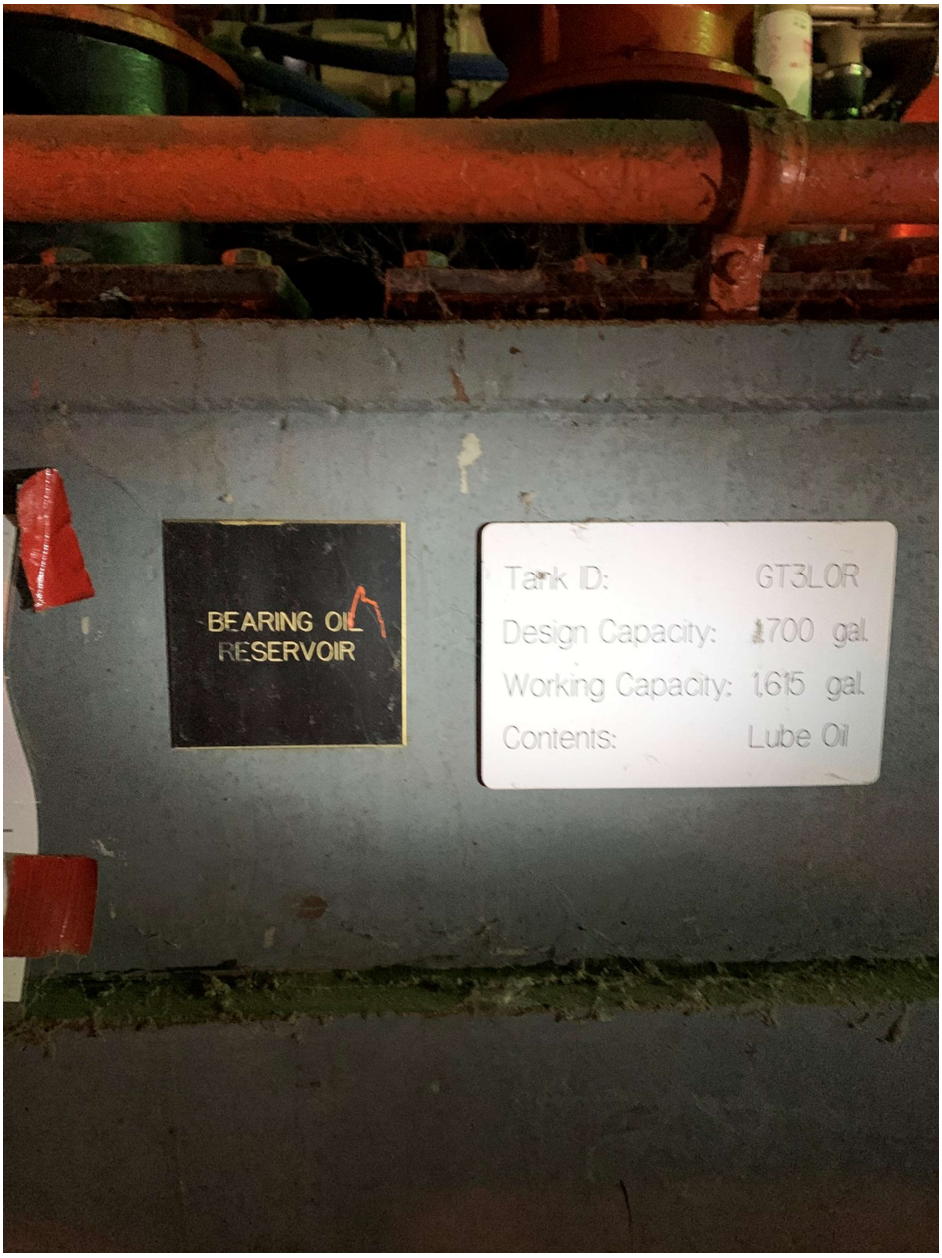
Site Photographs
Holtec Decommissioning International
450 Broadway
Buchanan, NY

MILLER ENVIRONMENTAL GROUP INC.

Site Photographs
Holtec Decommissioning International
450 Broadway
Buchanan, NY

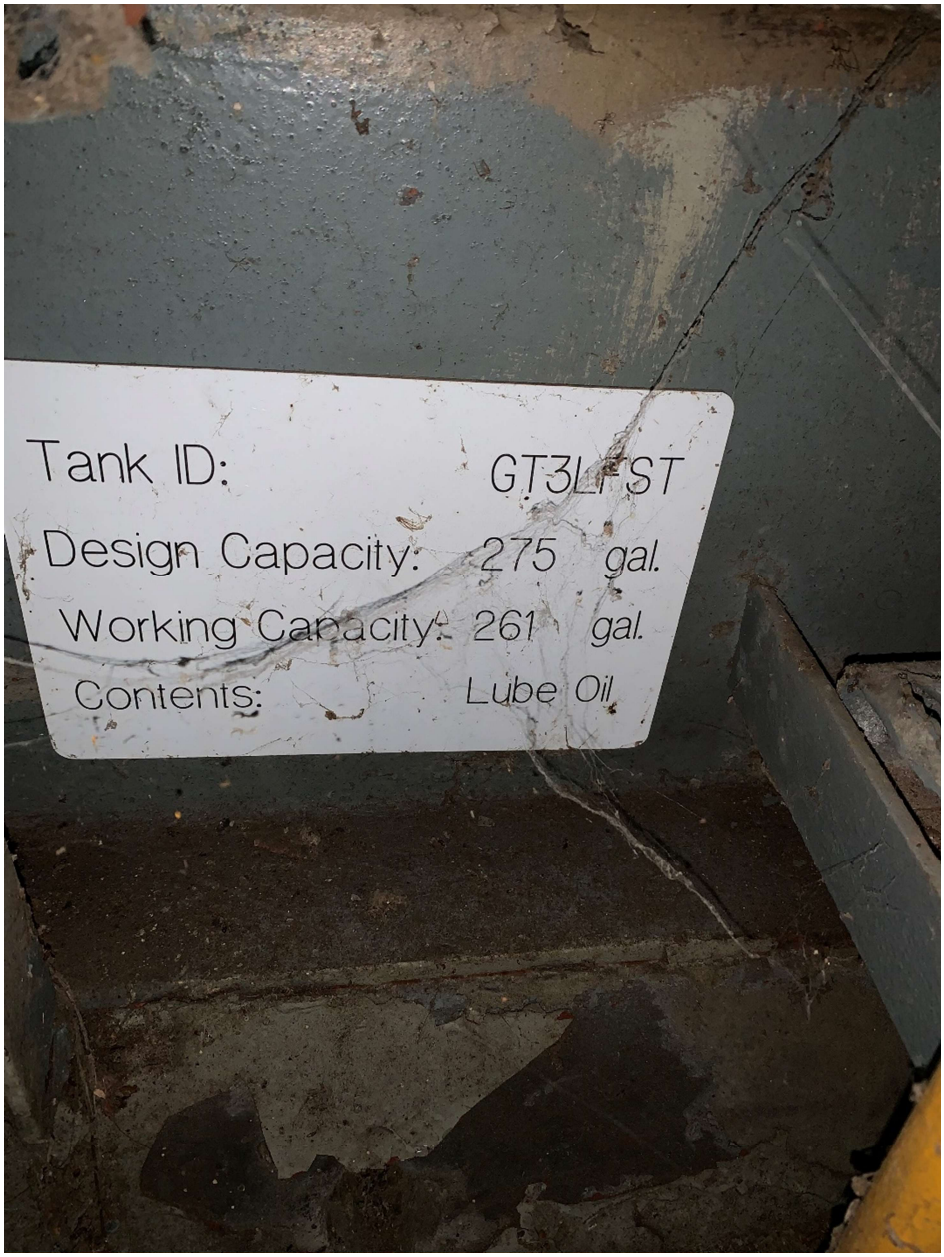
MILLER ENVIRONMENTAL GROUP INC.

Site Photographs
Holtec Decommissioning International
450 Broadway
Buchanan, NY



MILLER ENVIRONMENTAL GROUP INC.

Site Photographs
Holtec Decommissioning International
450 Broadway
Buchanan, NY

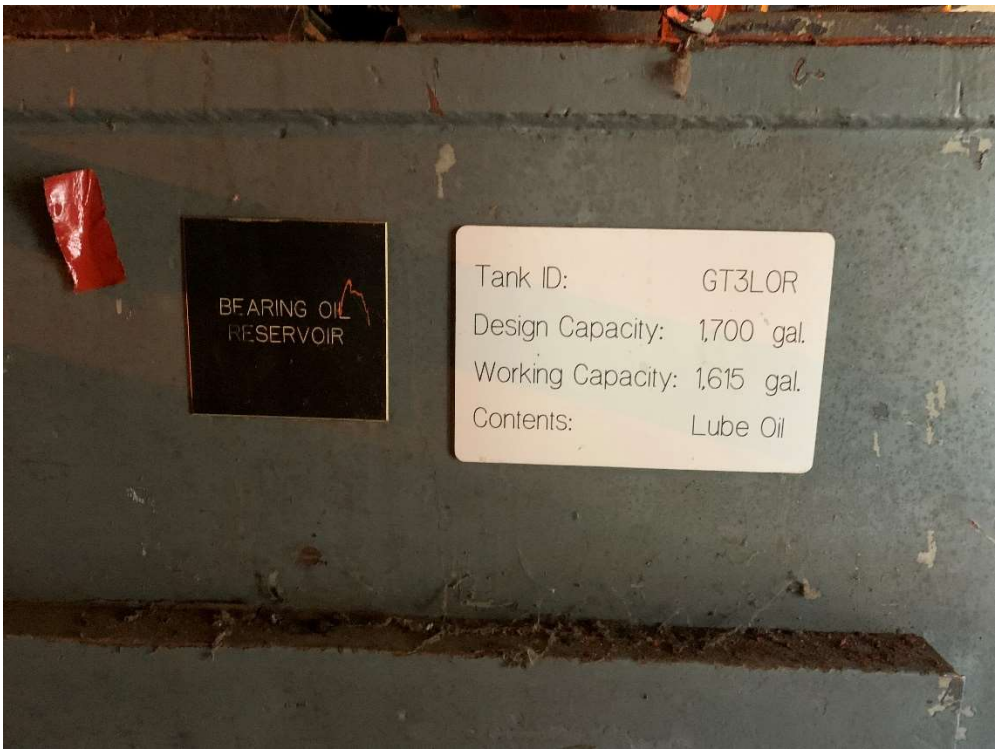


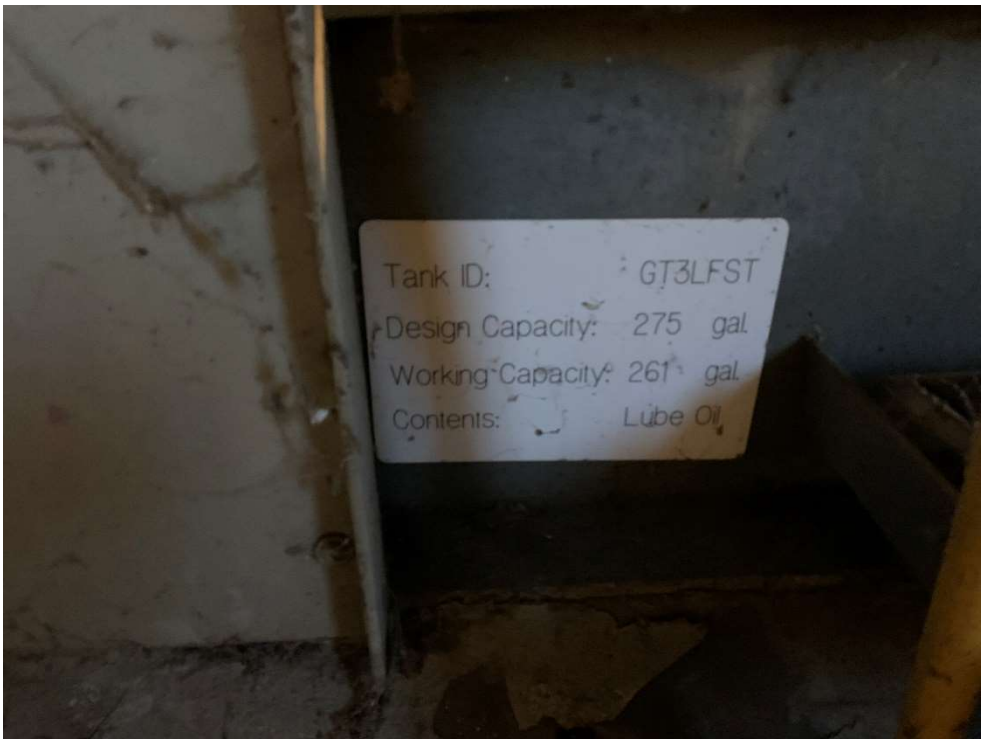
MILLER ENVIRONMENTAL GROUP INC.

Site Photographs
Holtec Decommissioning International
450 Broadway
Buchanan, NY

MILLER ENVIRONMENTAL GROUP INC.

Site Photographs
Holtec Decommissioning International
450 Broadway
Buchanan, NY





MILLER ENVIRONMENTAL GROUP INC.

Site Photographs
Holtec Decommissioning International
450 Broadway
Buchanan, NY

MILLER ENVIRONMENTAL GROUP INC.

Site Photographs
Holtec Decommissioning International
450 Broadway
Buchanan, NY

Appendix B – Shipping Documents

MILLER ENVIRONMENTAL GROUP INC.

Please print or type

BILL OF LADING

Generator EPA ID #: NA

1. Document No.: MET6182

2. Page 1 of 1

3. Generator's Name and Mailing Address
CDI - INDIAN POINT ENERGY CENTER
450 BROADWAY
BUCHANAN, NY 10511
4. Generator's Phone (914-254-7644

Site Address

5. Transporter 1 Company Name: MILLER ENVIRONMENTAL GROUP, INC

6. EPA ID #: NYD986908085

A. State Transporter's ID

B. Transporter 1 Phone: ~~800-394-8606~~

7. Transporter 2 Company Name

8. EPA ID #

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
WATERWORKS
77 STEWART AVENUE
NEWBURGH, NY 12550
HM

10. EPA ID #: N/A

E. State Facility's ID

F. Facility's Phone: 845-590-0408

	11. Shipping Name	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
GENERATOR	a. NON RCRA NON DOT LIQUIDS NOS (OILY WATER)	1	TT	945	G
	b.				
	c.				
	d.				

G. Additional Descriptions for Materials Listed Above: Document # D27882 Job #: NY03220209 PO#

1) 21BL0242

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulation of the Department of Transportation. The materials described on this document are not subject to federal uniform hazardous waste manifest requirements.

Printed/Typed Name	Signature	Date Month	Day	Year
Greg Sinclair	G. Sinclair	05	09	2022

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
Roberto Cuevas		05	09	2022

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the materials covered by this bill of lading except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year
Devin Stewart		05	09	22

BILL OF LADING

Please print or type

BILL OF LADING

Generator EPA ID #: NA

1. Document No.: MET6218

2. Page 1 of 1

3. Generator's Name and Mailing Address
CDI - INDIAN POINT ENERGY CENTER
450 BROADWAY
BUCHANAN, NY 10511

4. Generator's Phone ( ) 914-254-7644

Site Address

5. Transporter 1 Company Name: MILLER ENVIRONMENTAL GROUP, INC

6. EPA ID #: NYD986908085

A. State Transporter's ID

B. Transporter 1 Phone: 800-394-8606

7. Transporter 2 Company Name

8. EPA ID #

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
WATERWORKS
77 STEWART AVENUE
NEWBURGH, NY 12550

HM

10. EPA ID #: N/A

E. State Facility's ID

F. Facility's Phone: 845-590-0408

GENERATOR

	11. Shipping Name	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a.	NON RCRA NON DOT LIQUIDS NOS (OILY WATER)	1	TT	4528	G
b.					
c.					
d.					

G. Additional Descriptions for Materials Listed Above: Document # D28223 Job #: NY03220209 PO#

1) 21BL0242

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulation of the Department of Transportation. The materials described on this document are not subject to federal uniform hazardous waste manifest requirements.

Printed/Typed Name: G. St. Clair — Signature: G. St. Clair — Date: Month 5 Day 23 Year 22

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Jeffrey Parkinson — Signature: Jeffrey Parkinson — Date: Month 5 Day 23 Year 22

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the materials covered by this bill of lading except as noted in item 19.

Printed/Typed Name: Steven Iscleno — Signature — Date: Month 5 Day 23 Year 22

BILL OF LADING

24hr Emergency Contact: 1-800-394-8606

Please print or type

BILL OF LADING

Generator EPA ID #: N/A

1. Document No.: HV

2. Page 1 of 1

3. Generator's Name and Mailing Address
Hudson International - Indian Point Energy Center
450 Broadway, Buchanan, N.Y. 10511

4. Generator's Phone ( )

Site Address: 450 Broadway Buchanan, N.Y. 10511

5. Transporter 1 Company Name: Miller Environmental Group Inc

6. EPA ID #: NYD986908085

A. State Transporter's ID

B. Transporter 1 Phone: 1-800-394-8606

7. Transporter 2 Company Name

8. EPA ID #

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
Water Works
17 Stewart Ave
Newburgh, N.Y. 12550

10. EPA ID #: NYR000236349

E. State Facility's ID

F. Facility's Phone: 845-590-0408

HM

	11. Shipping Name	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a.	NON RCRA NON DOT Liquids NOS (Only water)	1	TT	2,710	G
b.					
c.					
d.					

GENERATOR

G. Additional Descriptions for Materials Listed Above
24-hour Emergency Number 1-800-394-8606

15. Special Handling Instructions and Additional Information
Approval: 21BL0242 NY03230126

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulation of the Department of Transportation. The materials described on this document are not subject to federal uniform hazardous waste manifest requirements.

Printed/Typed Name	Signature	Date (Month / Day / Year)
Brian Puller	B Puller	05 / 15 / 2023

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month / Day / Year)
Roberto Gra		05 / 15 / 2023

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month / Day / Year)
		/ /

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the materials covered by this bill of lading except as noted in item 19.

Printed/Typed Name	Signature	Date (Month / Day / Year)
Jason Ferro		/ /

BILL OF LADING

MILLER ENVIRONMENTAL GROUP

24-Hour Emergency
800-394-8606

Please print or type

BILL OF LADING

1. Document No. **HV7076**

2. Page 1 of 1

3. Offeror Name and Mailing Address
Haltec

4. Offeror Phone ( )

Site Address
Haltec
4150 Broadway
Buchanan NY

5. Transporter 1 Company Name
Miller Environmental Group

6. EPA ID # NYD 986908085

A. State Transporter's ID

B. Transporter 1 Phone 800 394 8606

7. Transporter 2 Company Name

8. EPA ID #

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
Water Works
77 Stewart Ave
Newburgh NY

10. EPA ID # NYR000236349

E. State Facility's ID

F. Facility's Phone 845 561-4111

HM

GENERATOR

	11. Shipping Name	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a.	NON RCRA NON DOT Liquids NOS (Oily Water)	1	TT	2785	G
b.					
c.					
d.					

G. Additional Descriptions for Materials Listed Above
NY0323019R

15. Special Handling Instructions and Additional Information
213L0242

16. **OFFEROR CERTIFICATION:** I hereby certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulation of the Department of Transportation. The materials described on this document are not subject to federal uniform hazardous waste manifest requirements.

Printed/Typed Name	Signature	Date Month	Day	Year
Brian Pulley	B Pully	05	22	23

TRANSPORTER

17. Transporter 1 Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
Bob Zoldak		5	22	23

18. Transporter 2 Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

FACILITY

19. Discrepancy Indication Space

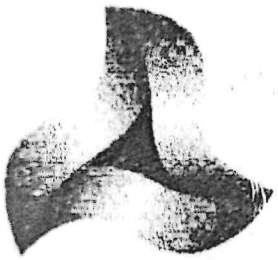
20. Facility Owner or Operator; Certification of receipt of the materials covered by this bill of lading except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year
Noel Russ		5	22	23

BILL OF LADING

3-10 Metal Gas turb was Indian Point Frank

PAYMENT RECEIPT



Brookfield Resource Management
100 Lamont Street
Elmsford, NY 10523
914-592-5250

Receipt:1830561
Customer:10783

Date:11/2/2023
Time:2:26:40 PM

STEVE GIORDANO BUILDERS
1340 BAPTIST CHURCH ROAD
YORKTOWN HEIGHTS, NY 10598
ID Number:

*Ticket:*1882935
Operator:Romy C

Weigh In:11/2/2023 2:15:24 PM
Weigh Out:11/2/2023 2:26:38 PM

All weights are in pounds unless otherwise noted

Commodity	Gross	Tare	Net	Price	TOTAL $
# 1 Unprepared	48,920	36,020	12,900	155.0000/GT	892.63

Ticket Total: **892.63**

No. of Tickets:1
Payment Method:EZCash

EZCash Paid: $893.00
Round Amt: $0.37
Total Paid: **$893.00**

For current pricing, hours and contact information check us out on the web @brookfieldscrap.com
Join Brookfield Scrap on Facebook @webuyscrap

PAYMENT RECEIPT

Pascap Co, Inc.
4250 Boston Road
Bronx, NY 10475
(718)325-7200 (914)725-3300
FACILITY ID NO. 7003010 SCP
NYC DCA License # 0437184-0764024

Receipt: 1432506
Customer: 67978
GIORDANO BUILDERS
1340 BAPTIST CHURCH RD
YORKTOWN HEIGHTS, NY 10598

Date: 11/11/2023
Time: 07:17

Johny Ritz
3-10
Massimo Velardo

Ticket: 3307473
Operator: 9
Description: GIO

Weigh In: 11/11/2023 07:06
Weigh Out: 11/11/2023 07:14

Commodity	Gross	Tare	Net	Price	TOTAL $
# 1 Prepared	51140	36160	14980	220.000/GT	$1,471.25

Ticket Total **$1,471.25**

# of Tickets: 1

Paid by EZCash

Total Paid **$1,471.00**

Rounded to nearest $1.00

THERE IS TO BE NO PROCESSING OR CLEANING OF MATERIALS ON PASCAP PROPERTY NO EXCEPTIONS. VIOLATORS RISK BEING BANNED FROM THE YARD BY MANAGEMENT

PAYMENT RECEIPT

3-18 30yd
Massimo Velardo
Gas Turbence

Pascap Co, Inc.
4250 Boston Road
Bronx, NY 10475
(718)325-7200 (914)725-3300
FACILITY ID NO. 7003010 SCP
NYC DCA License # 0437184-0764024

Receipt: 1432734 Date: 11/13/2023
Customer: 67978 Time: 11:32
GIORDANO BUILDERS
1340 BAPTIST CHURCH RD
YORKTOWN HEIGHTS, NY 10598

Ticket: 3307874 Weigh In: 11/13/2023 11:17
Operator: 9 Weigh Out: 11/13/2023 11:29
Description: GIO

Commodity	Gross	Tare	Net	Price	TOTAL $
# 1 Prepared	56800	35900	20900	220.000/GT	$2,052.68

Ticket Total $2,052.68

# of Tickets: 1

Paid by EZCash

Total Paid $2,053.00

ounded to nearest $1.00

THERE IS TO BE NO PROCESSING OR CLEANING
OF MATERIALS ON PASCAP PROPERTY
NO EXCEPTIONS. VIOLATORS RISK BEING
BANNED FROM THE YARD

PAYMENT RECEIPT

Pascap Co, Inc.
4250 Boston Road
Bronx, NY 10475
(718)325-7200 (914)725-3300
FACILITY ID NO. 7003010 SCP
NYC DCA License # 0437184-0764024

3-07
30yrd
Massimo Velardo
Gas Turbence

Receipt: 1432821
Customer: 67978
GIORDANO BUILDERS
1340 BAPTIST CHURCH RD
YORKTOWN HEIGHTS, NY 10598

Date: 11/13/2023
Time: 14:51

Ticket: 3308040
Operator: 9
Description: GIO

Weigh In: 11/13/2023 14:41
Weigh Out: 11/13/2023 14:51

Commodity	Gross	Tare	Net	Price	TOTAL $
# 1 Prepared	53560	13780	39780	220.000/GT	$3,906.96
				Ticket Total	**$3,906.96**

# of Tickets: 1

Paid by EZCash

Total Paid	**$3,907.00**

ounded to nearest $1.00

THERE IS TO BE NO PROCESSING OR CLEANING OF MATERIALS ON PASCAP PROPERTY NO EXCEPTIONS. VIOLATORS RISK BEING BANNED FROM THE YARD BY MANAGEMENT

PAYMENT RECEIPT

Pascap Co, Inc.
4250 Boston Road
Bronx, NY 10475
(718)325-7200 (914)725-3300
FACILITY ID NO. 7003010 SCP
NYC DCA License # 0437184-0764024

3-18 30yrd
Massimo Velardo
Gas Turbence

Receipt: 1432940
Customer: 67978
GIORDANO BUILDERS
1340 BAPTIST CHURCH RD
YORKTOWN HEIGHTS, NY 10598

Date: 11/14/2023
Time: 11:44

Ticket: 3308262
Operator: 9
Description: GIO

Weigh In: 11/14/2023 11:28
Weigh Out: 11/14/2023 11:41

Commodity	Gross	Tare	Net	Price	TOTAL $
Unprep Steel	51520	36020	15500	185.000/GT	$1,280.13

Ticket Total **$1,280.13**

# of Tickets: 1

Paid by EZCash

Total Paid **$1,280.00**

Rounded to nearest $1.00

THERE IS TO BE NO PROCESSING OR CLEANING OF MATERIALS ON PASCAP PROPERTY NO EXCEPTIONS

PAYMENT RECEIPT

3-08 30yd
Gas Terbence
Massimo Velde

Pascap Co, Inc.
4250 Boston Road
Bronx, NY 10475
(718)325-7200 (914)725-3300
FACILITY ID NO. 7003010 SCP
NYC DCA License # 0437184-0764024

Receipt: 1435011 **Date:** 11/29/2023
Customer: 67978 **Time:** 09:52
GIORDANO BUILDERS
1340 BAPTIST CHURCH RD
YORKTOWN HEIGHTS, NY 10598

Ticket: 3312010 **Weigh In:** 11/29/2023 09:41
Operator: 9 **Weigh Out:** 11/29/2023 09:50
Description: GIO

Commodity	Gross	Tare	Net	Price	TOTAL $
#2 Unprep Steel	42920	36040	6880	200.000/GT	$614.29

Ticket Total **$614.29**

# of Tickets: 1

Paid by EZCash

Total Paid **$614.00**

Rounded to nearest $1.00

THERE IS TO BE NO PROCESSING OR CLEANING OF MATERIALS ON PASCAP PROPERTY NO EXCEPTIONS. VIOLATORS RISK BEING

3-09 Metal Inside RA 72ft Clock Tower

PAYMENT RECEIPT

Pascap Co, Inc. Indian Point

4250 Boston Road

Bronx, NY 10475 Frank

(718)325-7200 (914)725-3300

FACILITY ID NO. 7003010 SCP

NYC DCA License # 0437184-0764024

Receipt: 1425945 **Date:** 10/04/2023

Customer: 67978 **Time:** 11:42

GIORDANO BUILDERS

1340 BAPTIST CHURCH RD

YORKTOWN HEIGHTS, NY 10598

Ticket: 3295876 **Weigh In:** 10/04/2023 11:30

Operator: 9 **Weigh Out:** 10/04/2023 11:39

Description: GIOR

Commodity	Gross	Tare	Net	Price	TOTAL $
# 1 Unprep Steel	57040	35960	21080	205.000/GT	$1,929.20
				Ticket Total	**$1,929.20**

# of Tickets: 1

Paid by EZCash

Total Paid **$1,929.00**

Rounded to nearest $1.00

OK

THERE IS TO BE NO PROCESSING OR CLEANING OF MATERIALS ON PASCAP PROPERTY NO EXCEPTIONS. VIOLATORS RISK BEING BANNED FROM THE YARD BY MANAGEMENT

Unit 2 15ft North rollup door
Inside PA
Indian Point
Metal

PAYMENT RECEIPT

Brookfield Resource Management
100 Lamont Street
Elmsford, NY 10523
914-592-5250

Frank

Receipt: 1827494
Customer: 10783

Date: 10/16/2023
Time: 11:34:06 AM

STEVE GIORDANO BUILDERS
1340 BAPTIST CHURCH ROAD
YORKTOWN HEIGHTS, NY 10598
ID Number:

Ticket: 1879473
Operator: Romy C

Weigh In: 10/16/2023 11:18:28 AM
Weigh Out: 10/16/2023 11:34:04 AM

23179

All weights are in pounds unless otherwise noted

Commodity	Gross	Tare	Net	Price	TOTAL $
# 1 Unprepared	44,140	35,880	8,260	155.0000/GT	571.56

Ticket Total: **571.56**

No. of Tickets: 1
Payment Method: EZCash

EZCash Paid: $572.00
Round Amt: $0.44
Total Paid: **$572.00**

dg

For current pricing, hours and contact information check us out on the web @brookfieldscrap.com
Join Brookfield Scrap on Facebook @webuyscrap

3-12 Metal Unit 2 15ft North Rolling Door Inside RA

PAYMENT RECEIPT Indian Point

Frank

Pascap Co, Inc.
4250 Boston Road
Bronx, NY 10475
(718)325-7200 (914)725-3300
FACILITY ID NO. 7003010 SCP
NYC DCA License # 0437184-0764024

Receipt: 1428676 **Date:** 10/19/2023
Customer: 67978 **Time:** 12:23
GIORDANO BUILDERS
1340 BAPTIST CHURCH RD
YORKTOWN HEIGHTS, NY 10598

Ticket: 3300732 **Weigh In:** 10/19/2023 12:15
Operator: 9 **Weigh Out:** 10/19/2023 12:21
Description: GIO

Commodity	Gross	Tare	Net	Price	TOTAL $
# 1 Unprep Steel	56040	35840	20200	185.000/GT	$1,668.30
				Ticket Total	**$1,668.30**

# of Tickets: 1
Paid by EZCash

Total Paid **$1,668.00**

Rounded to nearest $1.00

OK dg

THERE IS TO BE NO PROCESSING OR CLEANING OF MATERIALS ON PASCAP PROPERTY NO EXCEPTIONS. VIOLATORS RISK BEING BANNED FROM THE YARD BY MANAGEMENT

Unit 2 15ft North Roll up door
3-03 Inside PA
Metal Indian Point

PAYMENT RECEIPT

Frank

Brookfield Resource Management
100 Lamont Street
Elmsford, NY 10523
914-592-5250

Receipt:1828020
Customer:10783

Date:10/19/2023
Time:8:57:37 AM

STEVE GIORDANO BUILDERS
1340 BAPTIST CHURCH ROAD
YORKTOWN HEIGHTS, NY 10598
ID Number:

Ticket:1880091
Operator: Romy C

Weigh In:10/19/2023 8:40:29 AM
Weigh Out:10/19/2023 8:57:35 AM

All weights are in pounds unless otherwise noted.

Commodity	Gross	Tare	Net	Price	TOTAL $
Tanks	44,300	35,940	8,360	2.2300/CW	186.43
			Ticket Total:		**186.43**

No. of Tickets:1
Payment Method:EZCash

EZCash Paid: $186.00
Round Amt: ($0.43)
Total Paid: **$186.00**

For current pricing, hours and contact information check us out on the web @brookfieldscrap.com
Join Brookfield Scrap on Facebook @webuyscrap

3-07 Metal Unit 2 North 15ft Rollup door Inside PA

PAYMENT RECEIPT

Pascap Co, Inc. Indian Point

4250 Boston Road Frank
Bronx, NY 10475
(718)325-7200 (914)725-3300
FACILITY ID NO. 7003010 SCP
NYC DCA License # 0437184-0764024

Receipt: 1430382 **Date:** 10/30/2023
Customer: 67978 **Time:** 09:26
GIORDANO BUILDERS
1340 BAPTIST CHURCH RD
YORKTOWN HEIGHTS, NY 10598

Ticket: 3303720 **Weigh In:** 10/30/2023 09:16
Operator: 9 **Weigh Out:** 10/30/2023 09:24
Description: GIO

Commodity	Gross	Tare	Net	Price	TOTAL $
# 1 Unprep Steel	49900	36040	13860	185.000/GT	$1,144.69
				Ticket Total	**$1,144.69**

# of Tickets: 1
Paid by EZCash

Total Paid **$1,145.00**

Rounded to nearest $1.00

THERE IS TO BE NO PROCESSING OR CLEANING OF MATERIALS ON PASCAP PROPERTY NO EXCEPTIONS. VIOLATORS RISK BEING BANNED FROM THE YARD BY MANAGEMENT

3-08 Metal Indian Point Inside PA
Unit 2 North 15ft Rollup door

Fmk

PAYMENT RECEIPT

Pascap Co, Inc.
4250 Boston Road
Bronx, NY 10475
(718)325-7200 (914)725-3300
FACILITY ID NO. 7003010 SCP
NYC DCA License # 0437184-0764024

Receipt: 1430457 **Date:** 10/30/2023
Customer: 67978 **Time:** 12:45
GIORDANO BUILDERS
1340 BAPTIST CHURCH RD
YORKTOWN HEIGHTS, NY 10598

Ticket: 3303854 **Weigh In:** 10/30/2023 12:35
Operator: 9 **Weigh Out:** 10/30/2023 12:42

Commodity	Gross	Tare	Net	Price	TOTAL $
# 1 Unprep Steel	51240	35840	15400	185.000/GT	$1,271.88
				Ticket Total	**$1,271.88**

# of Tickets: 1
Paid by EZCash

Total Paid **$1,272.00**

Rounded to nearest $1.00

THERE IS TO BE NO PROCESSING OR CLEANING OF MATERIALS ON PASCAP PROPERTY NO EXCEPTIONS. VIOLATORS RISK BEING BANNED FROM THE YARD BY MANAGEMENT

ATTACHMENT B

Photolog

GT 2/3 FOT pad with tank removed, looking northwest.

GT 2/3 FOT pad with tank removed, looking southwest.

Remaining underground piping, cut and capped.

ATTACHMENT C

Major Oil Storage Facility Application for Closure

New York State Department of Environmental Conservation
Division of Environmental Remediation

Application For Major Petroleum Facility License

Pursuant to Article 12 of the Navigation Law and 6 NYCRR 610; 17 NYCRR 30

Section A

Please Type or Print Clearly and Complete All Items

Return Completed Form To:
Joshua Cummins
Division of Environmental Remediation, Region 3
NYSDEC
21 South Putt Corners Road
New Paltz, New York 12561-1696

Expiration Date: 03.31.2007

License Number
3-2140

DEC CBS Number: (If applicable)
3-000107

Transaction Type (Check all that apply)
- [ ] 1)Initial/New Facility
- [ ] 2)Change of Licensee
- [X] 3)Tank installation, Closing, or Repair
- [ ] 4)Information Correction
- [ ] 5) Renewal

Type of Licensee: (check only one)
- [ ] State Government
- [ ] Local
- [ ] Federal Government
- [X] Corporate/Commerci

FACILITY
Facility Name: Indian Point Energy Center
Indian Point 2
Location (Not P.O. Boxes): Holtec Indian Point 2, LLC
Location (cont.): 450 Broadway, Suite 1
City: Buchanan | State: NY | Zip Code: 10511
County: Westchester | Township/City: Cortlandt | Facility Operator Phone: 914-254-5035
Facility Operator:
Holtec Decommissioning International, LLC
Frank Spagnuolo, Site VP

LICENSE
Licensee Name: Holtec Indian Point 2, LLC
Address (Street and/or P.O.): 450 Broadway, Suite 1
City: Buchanan | State: NY | Zip Code: 10511
Licensee Telephone Number:

LEGAL AGENT
Legal Agent Name: The Corporation Trust Company
Address (Street and/or P.O.): Corporation Trust Center 1209 Orange St.
City: Wilmington | State: DE | Zip Code: 19801
Date Filed With The Secretary Of State: 11/12/2019

TYPE OF PETROLEUM FACILITY: (Check only one)
- [ ] 01=Storage Terminal/Petroleum Distributor
- [X] 05=Utility
- [ ] 04=Manufacturing (Other than Chemical)/ Processing
- [ ] 08=School
- [ ] 06=Trucking/Transportation/Fl
- [ ] 14=Refinery
- [ ] 11=Airline/Air Taxi
- [ ] 16=Vessel/Barge
- [ ] 15=Railroad
- [ ] 20=Chemical Mfg.
- [ ] 99=Other (Specify):

PRODUCT TRANSFER OPERATIONS: (Check all that apply)
- [X] 1=Tank Truck
- [ ] 4=Pipeline
- [ ] 2=Railroad Car
- [ ] 5=Other(Specify):
- [ ] 3=Vessel/Barge (incl. off-shore platform)

Average Daily Throughput (Gallons):
Total Storage Capacity (Gallons):

Emergency Contact Name: ICAS Security Shift Supervisor
Emergency Telephone Number: 914.254.5330

I hereby certify, under penalty of law, that all of the information provided on this form is true and correct. False statements made herein may be punishable as a criminal offense and/or a civil violation in accordance with applicable state and federal law.

Name of Licensee or Authorized Representative: Frank Spagnuolo
Title: IPEC Site Vice President
Signature:
Date: 5/30/24

For Vessels Only
Vessel ID #:

Licensee is (Check all that apply)
- [X] Facility Operator
- [X] Facility (Equip) Owner
- [X] Property Owner

CORRESPONDEN
(Please keep up to date - this information is used for mailing and contact puposes)
Facility Contact Person Name: Frank Spagnuolo
Contact Person Company Name: Holtec International, LLC
Address: 450 Broadway, Suite 1
Address (cont.):
City/State/Zip Code: Buchanan, NY 10511
Telephone Number: 914-254-5035 | E-Mail Address: f.spagnuolo@holtec.com

OFFICIAL USE ONLY
Date Received ___/___/___
Sections Completed:
A: [ ] Yes [ ] No
B: [ ] Yes [ ] No
C: [ ] Yes [ ] No
D: [ ] Yes [ ] No
Date Processed ___/___/___
Reviewed by _____

Revised 12/19/2022

License Number:
3-2140

Section B - Tank Information

(Please use the key located on the last page to complete each item/column)

License Expiration Date:
03.31.2007

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
Action	Tank Number	Tank Location	Status	Installation, Out of Service, or Permanent Closure Date (Month/ Day/Year)	Capacity (Gallons)	Product Stored (If Gasoline w/ethanol or Biodiesel, list % additive) %	Tank Type	Tank Internal Protection	Tank External Protection	Tank Secondary Containment	Tank Leak Detection	Tank Overfill Prevention	Tank Spill Prevention	Pumping/Dispensing Method	Piping Location	Piping Type	Piping External Protection	Piping Secondary Containment	Piping Leak Detection	Last Test (UST) or Inspection(AST) date (Month/Day/Year)
3	GT2/3FOT	2	2	4/14/2022	213,840	0001	01	00	01	01 05	04	02 04	01 02	02	03	01	01	99	00	11/26/2022

Note: If you need to add tanks to your registration, write them in using blank lines above. Attach additional sheets as needed.
Blank Section B is available at http://www.dec.ny.gov/docs/remediation_hudson_pdf/mosfappform.pdf

License Number: 3-2140

Major Oil Storage Facility License Application

Section C - Tank Ownership Information (for MOSF tanks listed in Section B)

Tank Owner Information

[X] Check box if same as Facility (Property) Owner.
If tank owner is different from property owner, fill out information below:

Tank Owner Name (Company/Individual):

Contact Person:

Tank Owner Address:

City: | State: | ZIP:

Contact Person Telephone Number: | Contact Person email:

Specific Tanks Owned

[X] Check box if this owner owns all tanks at this facility.
If not, list tanks owned by this owner below:

Tank Number:

Name of Class B (Daily On-Site) Operator: N/A | Authorization No:

Name of Class A (Primary) Operator: | Authorization No:

Tank Owner Information

[X] Check box if same as Facility (Property) Owner.
If tank owner is different from property owner, fill out information below:

Tank Owner Name (Company/Individual):

Contact Person:

Tank Owner Address:

City: | State: | ZIP:

Contact Person Telephone Number: | Contact Person email:

Specific Tanks Owned

[X] Check box if this owner owns all tanks at this facility.
If not, list tanks owned by this owner below:

Tank Number:

Name of Class B (Daily On-Site) Operator: N/A | Authorization No:

Name of Class A (Primary) Operator: | Authorization No:

SECTION D OF MAJOR PETROLEUM LICENSE APPLICATION - ON SHORE ONLY

(See Instructions)

INITIAL/NEW FACILITY AND CHANGE OF LICENSEE APPLICATIONS ONLY

APPLICANT, PLEASE CHECK APPROPRIATE BOX FOR QUESTIONS 1 THRU 6. ATTACH OR INSERT INFORMATION AS REQUIRED

	Yes	No	
1.	☐	☐	Does this facility have a federal spill prevention control and countermeasure (SPCC) plan? If Yes, please attach a copy. If No, please see instructions.
2.	☐	☐	Does this facility have an operations manual on file with the U.S. Coast Guard? If yes, please attach a copy. If no, please see instructions.
3.	☐	☐	In addition to 1 and 2 above, does this facility have a plan for the prevention of petroleum spills or discharges? If so, please attach a copy.
4.	☐	☐	Does this facility have a separate clean-up and removal plan? Please see instructions and attach a copy.
5.	☐	☐	Are plans referenced in questions 1 through 4 above fully implemented? If not, indicate anticipated date for complete implementation. _____/___/_____
6.	☐	☐	Has this facility experienced a spill or an uncontrolled discharge during the past five years? If so, please see instructions.

RENEWAL APPLICATIONS ONLY

APPLICANT, PLEASE CHECK APPROPRIATE BOX FOR QUESTIONS 7 THROUGH 9 AND ATTACH OR INSERT INFORMATION AS REQUIRED.

	Yes	No	
7.	☐	☐	Has the facility experienced a spill or an uncontrolled discharge during the past year? If so, please see instructions.
8.	☐	☐	Have any major additions or changes to the structure or equipment of the facility been made within the past year which would materially affect the potential for a petroleum discharge? If yes, please see instructions and attach requested information.
9.	☐	☐	Has the facility's federal SPCC plan, U.S. Coast Guard Operations Manual, and/or other spill control plans submitted for initial licensing been amended or otherwise changed during the past year? Please see instructions and attach requested information.

ALL APPLICATIONS

APPLICANT, PLEASE CHECK APPROPRIATE BOX FOR QUESTIONS 10 THROUGH 16 AND ATTACH OR INSERT INFORMATION AS REQUIRED.

	Yes	No	
10.	☐	☒	Does this facility have any uncorrected violations cited by the U.S. Coast Guard and/or the U.S. Environmental Protection Agency? If so, please attach an explanation.
11.	☒	☐	Is a general site plan included in the submitted plan(s)? If not, please attach a copy.
			If yes, specify plan and page. See FIGURE 1
12.	☒	☐	Does the submitted plan(s) indicate how petroleum spills or discharges are prevented from contaminating groundwater? If not, please see instructions. If yes, specify plan and page. See Attachment D - SPDES Permit for Secondary Containment
13.	☐	☒	Is this facility a member of a discharge clean-up organization or cooperative? If so, please enter name and address of organization, and attach a copy of the agreement.
			Name _____ Address _____
14.	☒	☐	Does this facility contract for discharge clean-up services? If so, please enter name and address of contractor.
			Champion Environmental Services (Name) 17 Old Dock Road, Yaphank, NY, 11980 (Address)
15	☒	☐	Does this facility dispose of petroleum contaminated wastes (debris, dirt, sludges, sorbents, waste oil, etc.) off site? If so, please enter name and address of company(s) and the location(s) of disposal sites(s).
			Tradebe (Name) 136 Gracey Ave, Meriden, CT 06451 (Address) EPA # CTD021816889 (Site Location)
16.	☒	☐	Does the submitted plan(s) show compliance with 6 NYCRR 613-2, 3 & 4 of the Petroleum Bulk Storage Regulations?
			If not, please indicate anticipated date for compliance. _____/___/_____

MAJOR OIL STORAGE LICENSE APPLICATION - SECTION B - TANK INFORMATION - CODE KEYS

Action (1)

1. Initial Listing
2. Add Tank
3. Close/Remove Tank
4. Information Correction
5. Repair/Reline Tank

Tank Location (3)

1. Aboveground-contact w/soil
2. Aboveground-contact w/ impervious barrier
3. Aboveground on saddles, legs, stilts, rack or cradle
4. Partially buried tank (tank with 10% or more below ground)
5. Underground including vaulted with no access for inspection
6. Aboveground in Subterranean Vault w/access for inspections

Status (4)

1. In-service
2. Out-of-service
3. Closed-Removed
4. Closed- In Place
5. Tank converted to Non-Regulated use

Products Stored (7)

Heating Oils: On-Site Consumption

0001. #2 Fuel Oil
0002. #4 Fuel Oil
0259. #5 Fuel Oil
0003. #6 Fuel Oil
0012. Kerosene
0591. Clarified Oil
2711. Biodiesel (Heating)
2642. Used Oil (Heating)

Heating Oils: Resale/ Redistribution

2718. #2 Fuel Oil
2719. #4 Fuel Oil
2720. #5 Fuel Oil
2721. #6 Fuel Oil
2722. Kerosene
2723. Clarified Oil

Motor Fuels

0009. Gasoline
2712. Gasoline/Ethanol
0008. Diesel
2710. Biodiesel
0011. Jet Fuel
1044. Jet Fuel (Biofuel)
2641. Aviation Gasoline

Emergency Generator Fuels

0001. #2 Fuel Oil
2730. Biodiesel (E-Gen)
2731. Diesel (E-Gen)

Lubricating/Cutting Oils

0013. Lube Oil
0015. Motor Oil
1045. Gear/Spindle Oil
0010. Hydraulic Oil
0007. Cutting Oil
0021. Transmission Fluid
1836. Turbine Oil
0308. Petroleum Grease

Oils Used as Building Materials

0004. Asphalt
2626. Asphaltic Emulsions
0748. Form Oil

Petroleum Spirits

0014. White/Mineral Spirits
1731. Naptha

Mineral/Insulating Oils

0020. Insulating Oil (e.g., Transformer, Cable Oil)
2630. Mineral Oil

Waste/Used/Other Oils

0022 Waste/Used Oil
9999. Other-Please list:*

Crude Oil

0006. Crude Oil
0701. Crude Oil Fractions

Tank Type (8)

01. Steel/Carbon Steel/Iron
02. Galvanized Steel Alloy
03. Stainless Steel Alloy
04. Fiberglass Coated Steel
05. Steel Tank in Concrete
06. Fiberglass Reinforced Plastic (FRP)
07. Plastic
08. Equivalent Technology
09. Concrete
10. Urethane Clad Steel
99. Other-Please list:*

Internal Protection (9)

00. None
01 Epoxy Liner
02. Rubber Liner
03. Fiberglass Liner (FRP)
04. Glass Liner
99. Other-Please list:*

External Protection (10/18)

00. None
01. Painted/Asphalt Coating
02. Original Sacrificial Anode
03. Original Impressed Current
04. Fiberglass
05. Jacketed
06. Wrapped (Piping)
07 Retrofitted Sacrificial Anode
08. Retrofitted Impressed Current
09. Urethane
99. Other-Please list:*

Tank Secondary Containment (11)

00. None
01. Diking (AST Only)
02. Vault (w/access)
03. Vault (w/o access)
04. Double-Walled (UST Only)
05. Synthetic Liner
06. Remote Impounding Area
07. Excavation Liner
09. Modified Double-Walled (AST Only)
10. Impervious Underlayment (AST Only)**
11. Double Bottom (AST Only)**
12. Double-Walled (AST Only)
99. Other - Please list*

Tank Leak Detection (12)

00. None
01. Interstitial Electronic Monitoring
02. Interstitial Manual Monitoring
03. Vapor Well
04. Groundwater Well
05. In-Tank System (Auto Tank
06. Impervious Barrier/Concrete Pad (AST Only)
07. Statistical Inventory Reconciliation (SIR)
08. Weep holes in vaults with no access for inspection
99. Other-Please list: *

Overfill Protection (13)

00. None
01. Float Vent Valve
02. High Level Alarm
03. Automatic Shut-Off
04. Product Level Gauge (AST Only)
05. Vent Whistle
99. Other-Please list:*

Spill Prevention (14)

00. None
02. Transfer Station Containment
01. Catch Basin
99. Other-Please list:*

Pumping/Dispensing Method (15)

00. None
01. Presurized Dispenser
02. Suction Dispenser
03. Gravity
04. On-Site Heating System (Suction)
05. On-Site Heating System (Supply/Return)
06. Tank-Mounted Dispenser
07. Loading Rack/Transfer Pump

Piping Location (16)

00. No Piping
01. Aboveground
02. Underground/On-ground
03. Aboveground/Underground Combination

Piping Type (17)

00. None
01. Steel/Carbon Steel/Iron
02. Galvanized Steel
03. Stainless Steel Alloy
04. Fiberglass Coated Steel
05. Steel Encased in Concrete
06. Fiberglass Reinforced Plastic (FRP)
07. Plastic
08. Equivalent Technology
09. Concrete
10. Copper
11. Flexible Piping
99. Other-Please list:*

Piping Secondary Containment (19)

00. None
01. Diking (Aboveground Only)
02. Vault (w/access)
04. Double-Walled (Underground Only)
06. Remote Impounding Area
07. Trench Liner
12. Double-Walled (Aboveground Only)
99. Other-Please list: *

Pipe Leak Detection (20)

00. None
01. Interstitial Electronic Monitoring
02. Insterstitial Manual Monitoring
03. Vapor Well
04. Groundwater Well
07. Pressurized Piping Leak Detector
09. Exempt Suction Piping
10. Statistical Inventory Reconciliation (SIR)
99. Other-Please list:*

- - - - - - - - - - - - - -

* If other, please list on a separate sheet including tank number,

** Each of these codes must be combined with code 01 or 06 to meet compliance requirements.

ATTACHMENT D

Secondary Containment
SPDES Permit NY0234826

EB

SPDES-20-2 (1/89)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

State Pollutant Discharge Elimination System (SPDES)
DISCHARGE PERMIT
Special Conditions (Part I)

Industrial Code: 4931
Discharge Class (CL): 01
Toxic Class (TX): T
Major Drainage Basin: 13
Sub Drainage Basin: 01
Water Index Number:
Compact Area:

SPDES Number: NY-0234826
DEC Number: 3-5522-130/1-0
Effective Date (EDP): 03/01/93
Expiration Date (ExDP): 03/01/98
Modification Date(s):
Attachment(s): General Conditions (Part II) Date: 11/90

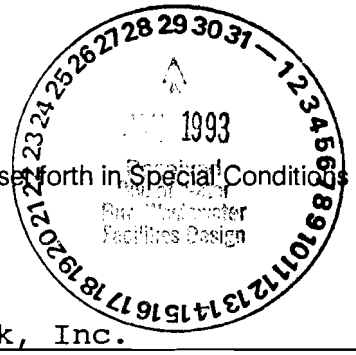
This SPDES permit is issued in compliance with Title 8 of Article 17 of the Environmental Conservation Law of New York State and in compliance with the Clean Water Act as amended, (33 U.S.C. Section 1251 et. seq.)(hereafter referred to as "the Act").

PERMITTEE NAME AND ADDRESS Attention: Mary Jane McCarthy, AVP

Name: Consolidated Edison Company of New York, Inc.
Street: 4 Irving Place Room 300
City: New York State: NY Zip Code: 10003
is authorized to discharge from the facility described below:

FACILITY NAME AND ADDRESS

Name: Buchanan Gas Turbine Site
Location (C,T,V): Buchanan (T) County: Westchester
Facility Address: Broadway
City: Buchanan State: NY Zip Code: 10511
NYTM - E: . NYTM - N: 4 .
From Outfall No.: 001 at Latitude: 41° 16′ 07" & Longitude: 73° 57′ 19"
into receiving waters known as: Ground Surface Trib. to Hudson River Class: SB
and; (list other Outfalls, Receiving Waters & Water Classifications)



in accordance with the effluent limitations, monitoring requirements and other conditions set forth in Special Conditions (Part I) and General Conditions (Part II) of this permit.

DISCHARGE MONITORING REPORT (DMR) MAILING ADDRESS

Mailing Name: Consolidated Edison Company of New York, Inc.
Street: 4 Irving Place Room 300
City: New York State: NY Zip Code: 10003
Responsible Official or Agent: Robert T. Keegan, Dir. Phone: (212)460-4833

This permit and the authorization to discharge shall expire on midnight of the expiration date shown and the permittee shall not discharge after the expiration date unless this permit has been renewed, or extended pursuant to law. To be authorized to discharge beyond the expiration date, the permittee shall apply for a permit renewal no less than 180 days prior to the expiration date shown above.

DISTRIBUTION:
E. Zicca
J. McCarthy
R. Hannaford (3505)
Westchester Co. DOH
USEPA (NYC)

Permit Administrator: Michael D. Merriman	LGB
Address: 21 S. Putt Corners Rd., New Paltz, NY 12561	
Signature: Michael D. Merriman	Date: Jan 27 93

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning EDP

and lasting until EDP + 5 YEARS

the discharges from the permitted facility shall be limited and monitored by the permittee as specified below:

Outfall Number & Effluent Parameter	Discharge Limitations Daily Avg.	Daily Max.	Units	Minimum Monitoring Requirements Measurement Frequency	Sample Type
001 Stormwater Runoff to Groundwater					
Flow	NA	Monitor	GPD	Monthly	Instantaneous
Oil & Grease	NA	15	mg/l	Monthly	Grab*
Benzene	NA	0.7	ug/l	Monthly	Grab
Toluene	NA	0.005	mg/l	Monthly	Grab
Xylenes	NA	0.005	mg/l	Monthly	Grab

* One, two, or three samples may be collected and analyzed per sampling event. The samples will be grab samples obtained at 15 minute intervals with the primary samples collected during the first 15 minutes of discharge. If more than one grab sample is collected and analyzed per sampling event, the number reported will be the arithmetic average of the separate analysis.

PROHIBITIONS:

No industrial or manufacturing process wastewater effluents are permitted, including wastewaters resulting from vehicle maintenance or washing operations. Washing operations are those cleaning operations which involve the use of detergents or other emulsifying chemicals.

DEFINITIONS OF DAILY AVERAGE AND DAILY MAXIMUM

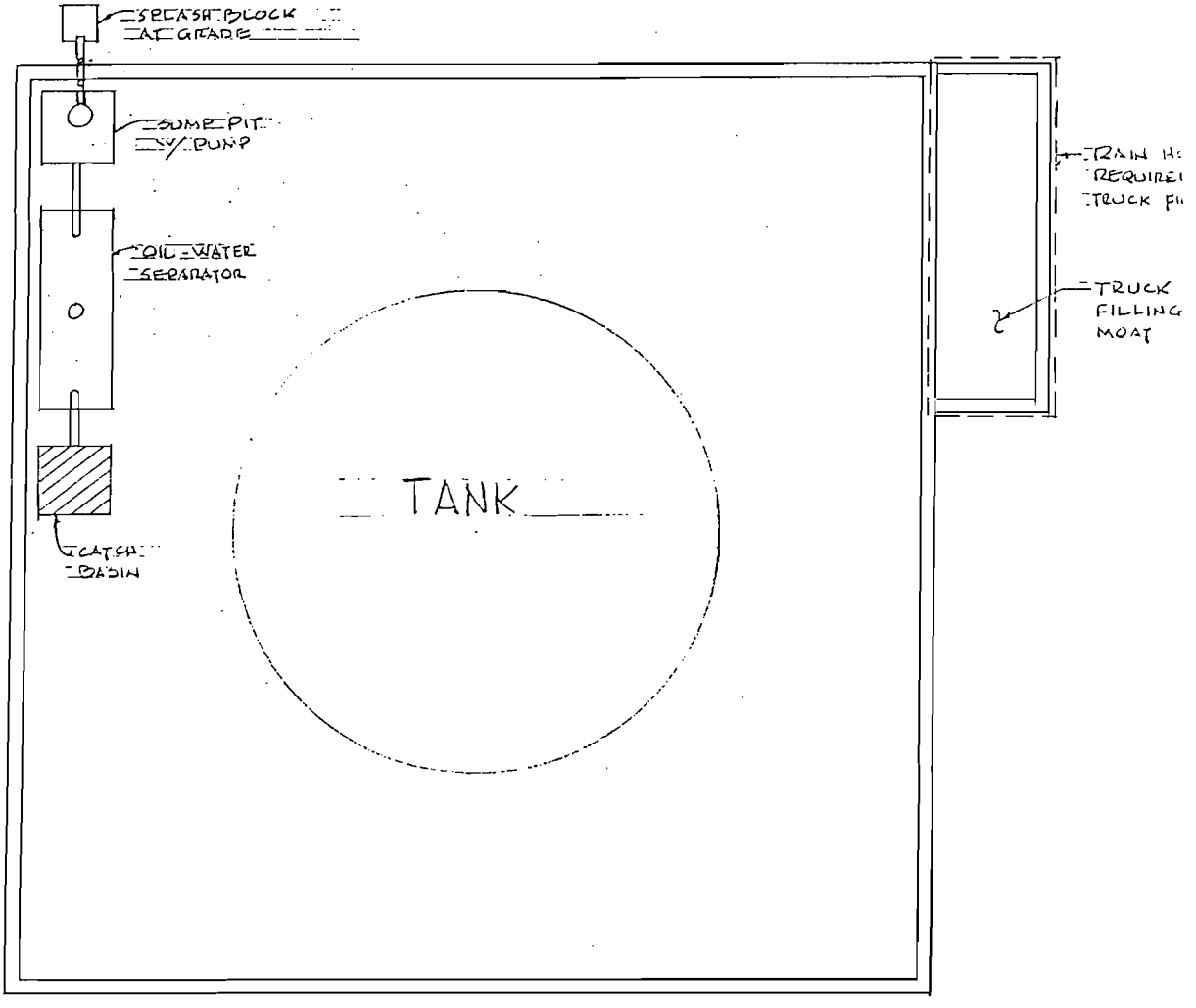
The daily average discharge is the total discharge by weight or in other appropriate units as specified herein, during a calendar month divided by the number of days in the month that the production or commercial facility was operating. Where less than daily sampling is required by this permit, the daily average discharge shall be determined by the summation of all the measured daily discharges in appropriate units as specified herein divided by the number of days during the calendar month when measurements were made.

The daily maximum discharge means the total discharge by weight or in other appropriate units as specified herein, during any calendar day.

MONITORING LOCATIONS

The permittee shall take samples and measurements, to comply with the monitoring requirements specified in this permit, at the location(s) indicated below: (Show sampling locations and outfalls with sketch or flow diagram as appropriate)

from separator effluent prior to discharge to ground.



BUCHANAN G.T. TANK

RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS

a) The permittee shall also refer to the General Conditions (Part II) of this permit for additional information concerning monitoring and reporting requirements and conditions.

b) The monitoring information required by this permit shall be summarized, signed and retained for a period of three years from the date of the sampling for subsequent inspection by the Department or its designated agent. **Also;**

[X] (if box is checked) monitoring information required by this permit shall be summarized and reported by submitting completed and signed Discharge Monitoring Report (DMR) forms for each _____ month reporting period to the locations specified below. Blank forms are available at the Department's Albany office listed below. The first reporting period begins on the effective date of this permit and the reports will be due no later than the 28th day of the month following the end of each reporting period.

Send the **original** (top sheet) of each DMR page to:

Department of Environmental Conservation
Division of Water
Bureau of Wastewater Facilities Operations
50 Wolf Road
Albany, New York 12233-3506

Phone: (518) 457-3790

Send the **first copy** (second sheet) of each DMR page to:

Department of Environmental Conservation
Regional Water Engineer
Region 3
202 Mamaroneck Ave.
White Plains, NY 10601

c) A monthly "Wastewater Facility Operation Report..." (form 92-15-7) shall be submitted (if box is checked) to the [ ] Regional Water Engineer and/or [ ] County Health Department or Environmental Control Agency listed above.

d) **Noncompliance** with the provisions of this permit shall be reported to the Department as prescribed in the attached General Conditions (Part II).

e) Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit.

f) If the permittee monitors any pollutant more frequently than required by this permit, using test procedures approved under 40 CFR Part 136 or as specified in this permit, the results of this monitoring shall be included in the calculations and recording on the Discharge Monitoring Reports.

g) Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit

h) Unless otherwise specified, all information recorded on the Discharge Monitoring Report shall be based upon measurements and sampling carried out during the most recently completed reporting period.

i) Any laboratory test or sample analysis required by this permit for which the State Commissioner of Health issues certificates of approvalpursuant to section five hundred two of the Public Health Law shall be conducted by a laboratory which has been issued a certificate of approval. Inquiries regarding laboratory certification should be sent to the Environmental Laboratory Accreditation Program, New York Health Department Center for Laboratories and Research, Division of Environmental Sciences, The Nelson A. Rockerfeller State Plaza, Albany, New York 12201

New York State Department of Environmental Conservation
Division of Environmental Permits
NYSDEC HEADQUARTERS
625 BROADWAY
ALBANY, NY 12233
(518) 402-9167

SPDES PERMIT RENEWAL

3/12/2018

DARA GRAY
ENTERGY NUCLEAR - INDIAN POINT 2 LLC
450 BROADWAY
BUCHANAN NY 10511

Permittee Name: ENTERGY NUCLEAR INDIAN POINT 2 LLC
Facility Name: BUCHANAN GAS TURBINE SITE
Ind. Code: 4931 County: WESTCHESTER
DEC ID: 3-5522-00130/00001 SPDES No.: NY0234826
Permit Effective Date: 4/1/2018
Permit Expiration Date: 3/31/2023

Dear Permittee,

The State Pollutant Elimination System (SPDES) permit renewal for the facility referenced above is approved with the new effective and expiration dates. This letter together with the previous valid permit for this facility effective on 04/01/2013 and any subsequent modifications constitute authorization to discharge wastewater in accordance with all terms, conditions and limitations specified in the previously issued permit(s).

As a reminder, SPDES permits are renewed at a central location in Albany in order to make the process more efficient. All other concerns with your permit, including applications for permit modification or transfer to a new owner, a name change, and other questions, should be directed to:

Regional Permit Administrator
NYSDEC Region 3 Headquarters
21 S Putt Corners Rd
New Paltz, NY 12561
(845) 256-3041

If you have already filed an application for modification of your permit, it will be processed separately by that office.

If you have questions concerning this permit renewal, please contact MICHAEL R SCHAEFER at (518) 402-9167.

Sincerely,

Kent P. Sanders
Deputy Permit Administrator

cc:

RPA	RWE	BWP
BWC	File	EPA

Attachment 3
Oil-Water Separator Closure Report and NYSDEC Closure Inspection Documentation

INDIAN POINT POWER PLANT
450 BROADWAY
BUCHANAN, NEW YORK 10511

UNDERGROUND STORAGE TANK (UST)
CLOSURE REPORT

PREPARED FOR:

NEW YORK STATE DEPARTMENT OF
ENVIRONMENTAL CONSERVATION
REGION II
LONG ISLAND CITY
NEW YORK

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

HOLTEC DECOMMISSIONING INTERNATIONAL
1 HOLTEC BOULEVARD
CAMDEN, NEW JERSEY 08140

PREPARED BY:
CHAMPION ENVIRONMENTAL SERVICES
17 OLD DOCK ROAD
YAPHANK, NEW YORK 11980

April 26th, 2024

Table of Contents

1.0 INTRODUCTION (1)

2.0 SITE LOCATION/DESCRIPTION (1)

3.0 SUMMARY OF WORK PERFORMED (2)

4.0 SUMMARY OF FINDINGS (2)

5.0 CONCLUSION (3)

FIGURES

Figure-1 Site Location

Figure-2 Endpoint Sampling Locations

TABLES

Table-1 Endpoint Tabulated Data VOCs

Table-2 Endpoint Tabulated Data SVOCs

Table-3 Endpoint Tabulated Data Metals

Table-4 Stockpile Tabulated Data Part-375 Parameters

ATTACHMENTS

Attachment-A Waste Manifest for Tank Cleaning

Attachment-B Laboratory Data Package

Attachment-C Photo Log

Holtec Decommissioning International

1 Holtec Boulevard

Camden, NJ 08104

RE: Indian Pont Power Plant
450 Broadway
Buchanan, New York 10511

Underground Storage Tank (UST)
Closure Report

1.0 INTRODUCTION

The following is an Underground Storage Tank (UST) Closure Report for the above mentioned site located at Indian Point Power Plant 450 Broadway Buchanan, New York. The Report documents the removal activities for the oil/water separator, cleaning and disposal of the tank and endpoint sampling results compared to the New York State Department of Environmental Conservation (DEC) soil clean-up objectives (SCOs). Please read below for a description of the site, summary of work performed and the results from the subsequent sampling conducted.

2.0 SITE LOCATION/DESCRIPTION

Indian Point Energy Center (I.P.E.C.) is a now defunct three-unit nuclear power station located in Buchanan, just south of Peekskill, in Westchester County, New York. It sits on the east bank of the Hudson River, about 36 miles (58 km) north of Midtown Manhattan. The facility permanently ceased power operations on April 30, 2021. Before its closure, the station's two operating reactors generated about 2,000 megawatts (MW_e) of electrical power, about 25% of New York City's usage.[3] The station is owned by Holtec International, and consists of three permanently deactivated reactors, Indian Point Units 1, 2, and 3. Units 2 and 3 were Westinghouse pressurized water reactors. Please refer to Figure-1 for the site location.

3.0 SUMMARY OF WORK PERFORMED

During the week of March 25, 2024 the excavation began utilizing a vacuum truck to locate the top of the tank. The tank was uncovered and the top concrete tank cover was removed. The remaining liquids/solids/sludges were vacuum excavated from the tank prior to removal of the tank from the ground. The waste removed from the tank was transported for disposal at Tradebe Meriden disposal facility under Champions Part-364 waste transporter permit. The waste manifest for disposal is included at Attachment-A. Once the concrete tank mat was removed and the tank was cleaned, the soil surrounding the tank was excavated and the oil/water separator was removed from the ground. The tank was observed to be in good quality condition upon its removal.

Subsequent to the removal of the tank, a series of bottom and sidewall endpoint samples were collected (EP-1, EP-2, N-sidewall, S-sidewall, E-sidewall and W-sidewall). In addition to the bottom and sidewall samples collected, influent and effluent line samples were collected below the in and out distribution line (L-1 and L-2). Samples were collected with a stainless steel hand auger and containerized in laboratory approved glassware for transport in an ice filled cooler under chain of custody to a New York State ELAP certified lab. All samples were field screened prior to containerizing with a photo-ionization detector (PID meter) for the presence of Volatile Organic Compounds (VOCs). Please see below for a summary of the laboratory findings. The locations of the samples collected are depicted on the attached Figure-2.

A composite sample from the excavated soils surrounding the tank (stockpile) was also submitted to the lab for Part-375 testing including: VOCs, SVOCs, total metals, PCBs, herbicides and pesticides.

4.0 SUMMARY OF FINDINGS

The field screening results for all the samples collected indicated non-detect readings (0.0 ppm) for VOCs. Lab results for all endpoint and sidewall samples indicated all non-detect readings for VOCs. Minor SVOC and metals concentrations were detected in each sample, but nothing was detected above the DEC Part-375 unrestricted use/CP-51 SCOs. The laboratory data results for the stockpile sample collected indicated

mainly all non-detect readings for VOCs, herbicides and pesticides. Again, minor SVOC and metals concentrations were detected at very low levels, but all below the DEC Part-375 unrestricted use/CP-51 SCOs. It is believed that the metals detections are consistent with background metals indigenous to the area. Please refer to Tables-1-4 for tabulated lab data compared to NYS DEC SCOs. The complete laboratory data package is included as Attachment-B.

5.0 CONCLUSION

In conclusion, the oil/water separator UST was successfully removed and all endpoint samples collected were within the NYS DEC Part-375/CP-51 SCOs for unrestricted commercial-use. The soil excavated and stockpiled was also within the NYS DEC Part-375/CP-51 SCOs for unrestricted commercial-use and is intended to be used to backfill the UST excavation pit. A photo log of the sampling activities and tank removal is included as Attachment-C. Any questions of comments regarding this Report can be directed to Champion Environmental Services.

Sincerely,

Justin Halpin
Environmental Scientist
Champion Environmental Services

FIGURES

Google Maps 450 Broadway

FIGURE-1

Indian Point Power Plant

Buchanan, New York

Champion Environmental Services
17 Old Dock Road
Yaphank, NY 11980

Indian Point Power Plant
Oil Water Separator
UST Removal

FIGURE-2
Endpoint Sampling
Locations

TABLES

Table-1

Endpoint

VOCs

TABLE-1

			SAMPLE ID:	EP-1				EP-2				N-SIDEWALL				S-SIDEWALL				E-SIDEWALL				W-SIDEWALL				L-1				L-2			
			LAB ID:	L2420570-01				L2420570-02				L2420570-03				L2420570-04				L2420570-05				L2420570-06				L2420570-07				L2420570-08			
			COLLECTION DATE:	4/10/2024				4/10/2024				4/10/2024				4/10/2024				4/10/2024				4/10/2024				4/10/2024				4/10/2024			
			SAMPLE DEPTH:																																
			SAMPLE MATRIX:	SOIL				SOIL				SOIL				SOIL				SOIL				SOIL				SOIL				SOIL			
		NY-CP51	NY-UNRES																																
ANALYTE	CAS	(mg/kg)	(mg/kg)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
VOLATILE ORGANICS BY GC/MS																																			
Methylene chloride	75-09-2		0.05	ND		0.0048	0.0022	ND		0.0052	0.0024	ND		0.0051	0.0023	ND		0.0049	0.0022	ND		0.0046	0.0021	ND		0.005	0.0023	ND		0.0047	0.0021	ND		0.0047	0.0021
1,1-Dichloroethane	75-34-3		0.27	ND		0.00096	0.00014	ND		0.001	0.00015	ND		0.001	0.00015	ND		0.00099	0.00014	ND		0.00092	0.00013	ND		0.001	0.00014	ND		0.00094	0.00014	ND		0.00093	0.00014
Chloroform	67-66-3		0.37	ND		0.0014	0.00013	ND		0.0016	0.00015	ND		0.0015	0.00014	ND		0.0015	0.00014	ND		0.0014	0.00013	ND		0.0015	0.00014	ND		0.0014	0.00013	ND		0.0014	0.00013
Carbon tetrachloride	56-23-5		0.76	ND		0.00096	0.00022	ND		0.001	0.00024	ND		0.001	0.00024	ND		0.00099	0.00023	ND		0.00092	0.00021	ND		0.001	0.00023	ND		0.00094	0.00022	ND		0.00093	0.00021
1,2-Dichloropropane	78-87-5			ND		0.00096	0.00012	ND		0.001	0.00013	ND		0.001	0.00013	ND		0.00099	0.00012	ND		0.00092	0.00011	ND		0.001	0.00012	ND		0.00094	0.00012	ND		0.00093	0.00012
Dibromochloromethane	124-48-1			ND		0.00096	0.00013	ND		0.001	0.00015	ND		0.001	0.00014	ND		0.00099	0.00014	ND		0.00092	0.00013	ND		0.001	0.00014	ND		0.00094	0.00013	ND		0.00093	0.00013
1,1,2-Trichloroethane	79-00-5			ND		0.00096	0.00026	ND		0.001	0.00028	ND		0.001	0.00027	ND		0.00099	0.00026	ND		0.00092	0.00024	ND		0.001	0.00026	ND		0.00094	0.00025	ND		0.00093	0.00025
Tetrachloroethene	127-18-4		1.3	ND		0.00048	0.00019	ND		0.00052	0.0002	ND		0.00051	0.0002	ND		0.00049	0.00019	ND		0.00046	0.00018	ND		0.0005	0.0002	ND		0.00047	0.00018	ND		0.00047	0.00018
Chlorobenzene	108-90-7		1.1	ND		0.00048	0.00012	ND		0.00052	0.00013	ND		0.00051	0.00013	ND		0.00049	0.00012	ND		0.00046	0.00012	ND		0.0005	0.00013	ND		0.00047	0.00012	ND		0.00047	0.00012
Trichlorofluoromethane	75-69-4			ND		0.0038	0.00067	ND		0.0042	0.00073	ND		0.0041	0.00071	ND		0.0039	0.00068	ND		0.0037	0.00064	ND		0.004	0.00069	ND		0.0038	0.00065	ND		0.0037	0.00065
1,2-Dichloroethane	107-06-2		0.02	ND		0.00096	0.00025	ND		0.001	0.00027	ND		0.001	0.00026	ND		0.00099	0.00025	ND		0.00092	0.00024	ND		0.001	0.00026	ND		0.00094	0.00024	ND		0.00093	0.00024
1,1,1-Trichloroethane	71-55-6		0.68	ND		0.00048	0.00016	ND		0.00052	0.00018	ND		0.00051	0.00017	ND		0.00049	0.00016	ND		0.00046	0.00015	ND		0.0005	0.00017	ND		0.00047	0.00016	ND		0.00047	0.00016
Bromodichloromethane	75-27-4			ND		0.00048	0.0001	ND		0.00052	0.00011	ND		0.00051	0.00011	ND		0.00049	0.00011	ND		0.00046	0.0001	ND		0.0005	0.00011	ND		0.00047	0.0001	ND		0.00047	0.0001
trans-1,3-Dichloropropene	10061-02-6			ND		0.00096	0.00026	ND		0.001	0.00029	ND		0.001	0.00028	ND		0.00099	0.00027	ND		0.00092	0.00025	ND		0.001	0.00027	ND		0.00094	0.00026	ND		0.00093	0.00025
cis-1,3-Dichloropropene	10061-01-5			ND		0.00048	0.00015	ND		0.00052	0.00016	ND		0.00051	0.00016	ND		0.00049	0.00016	ND		0.00046	0.00014	ND		0.0005	0.00016	ND		0.00047	0.00015	ND		0.00047	0.00015
1,3-Dichloropropene, Total	542-75-6			ND		0.00048	0.00015	ND		0.00052	0.00016	ND		0.00051	0.00016	ND		0.00049	0.00016	ND		0.00046	0.00014	ND		0.0005	0.00016	ND		0.00047	0.00015	ND		0.00047	0.00015
1,1-Dichloropropene	563-58-6			ND		0.00048	0.00015	ND		0.00052	0.00017	ND		0.00051	0.00016	ND		0.00049	0.00016	ND		0.00046	0.00015	ND		0.0005	0.00016	ND		0.00047	0.00015	ND		0.00047	0.00015
Bromoform	75-25-2			ND		0.0038	0.00024	ND		0.0042	0.00026	ND		0.0041	0.00025	ND		0.0039	0.00024	ND		0.0037	0.00023	ND		0.004	0.00024	ND		0.0038	0.00023	ND		0.0037	0.00023
1,1,2,2-Tetrachloroethane	79-34-5			ND		0.00048	0.00016	ND		0.00052	0.00017	ND		0.00051	0.00017	ND		0.00049	0.00016	ND		0.00046	0.00015	ND		0.0005	0.00016	ND		0.00047	0.00016	ND		0.00047	0.00015
Benzene	71-43-2	0.06	0.06	ND		0.00048	0.00016	ND		0.00052	0.00017	ND		0.00051	0.00017	ND		0.00049	0.00016	ND		0.00046	0.00015	ND		0.0005	0.00016	ND		0.00047	0.00016	ND		0.00047	0.00015
Toluene	108-88-3	0.7	0.7	ND		0.00096	0.00052	ND		0.001	0.00057	ND		0.001	0.00056	ND		0.00099	0.00054	ND		0.00092	0.0005	ND		0.001	0.00054	ND		0.00094	0.00051	ND		0.00093	0.00051
Ethylbenzene	100-41-4	1	1	ND		0.00096	0.00014	ND		0.001	0.00015	ND		0.001	0.00014	ND		0.00099	0.00014	ND		0.00092	0.00013	ND		0.001	0.00014	ND		0.00094	0.00013	ND		0.00093	0.00013
Chloromethane	74-87-3			ND		0.0038	0.0009	ND		0.0042	0.00098	ND		0.0041	0.00096	ND		0.0039	0.00092	ND		0.0037	0.00086	ND		0.004	0.00093	ND		0.0038	0.00087	ND		0.0037	0.00087
Bromomethane	74-83-9			ND		0.0019	0.00056	ND		0.0021	0.00061	ND		0.002	0.0006	ND		0.002	0.00057	ND		0.0018	0.00053	ND		0.002	0.00058	ND		0.0019	0.00054	ND		0.0019	0.00054
Vinyl chloride	75-01-4		0.02	ND		0.00096	0.00032	ND		0.001	0.00035	ND		0.001	0.00034	ND		0.00099	0.00033	ND		0.00092	0.00031	ND		0.001	0.00033	ND		0.00094	0.00031	ND		0.00093	0.00031
Chloroethane	75-00-3			ND		0.0019	0.00043	ND		0.0021	0.00047	ND		0.002	0.00046	ND		0.002	0.00045	ND		0.0018	0.00042	ND		0.002	0.00045	ND		0.0019	0.00042	ND		0.0019	0.00042
1,1-Dichloroethene	75-35-4		0.33	ND		0.00096	0.00023	ND		0.001	0.00025	ND		0.001	0.00024	ND		0.00099	0.00023	ND		0.00092	0.00022	ND		0.001	0.00024	ND		0.00094	0.00022	ND		0.00093	0.00022
trans-1,2-Dichloroethene	156-60-5		0.19	ND		0.0014	0.00013	ND		0.0016	0.00014	ND		0.0015	0.00014	ND		0.0015	0.00014	ND		0.0014	0.00012	ND		0.0015	0.00014	ND		0.0014	0.00013	ND		0.0014	0.00013
Trichloroethene	79-01-6		0.47	ND		0.00048	0.00013	ND		0.00052	0.00014	ND		0.00051	0.00014	ND		0.00049	0.00014	ND		0.00046	0.00012	ND		0.0005	0.00014	ND		0.00047	0.00013	ND		0.00047	0.00013
1,2-Dichlorobenzene	95-50-1		1.1	ND		0.0019	0.00014	ND		0.0021	0.00015	ND		0.002	0.00015	ND		0.002	0.00014	ND		0.0018	0.00013	ND		0.002	0.00014	ND		0.0019	0.00014	ND		0.0019	0.00013
1,3-Dichlorobenzene	541-73-1		2.4	ND		0.0019	0.00014	ND		0.0021	0.00016	ND		0.002	0.00015	ND		0.002	0.00015	ND		0.0018	0.00014	ND		0.002	0.00015	ND		0.0019	0.00014	ND		0.0019	0.00014
1,4-Dichlorobenzene	106-46-7		1.8	ND		0.0019	0.00016	ND		0.0021	0.00018	ND		0.002	0.00018	ND		0.002	0.00017	ND		0.0018	0.00016	ND		0.002	0.00017	ND		0.0019	0.00016	ND		0.0019	0.00016
Methyl tert butyl ether	1634-04-4	0.93	0.93	ND		0.0019	0.00019	ND		0.0021	0.00021	ND		0.002	0.0002	ND		0.002	0.0002	ND		0.0018	0.00018	ND		0.002	0.0002	ND		0.0019	0.00019	ND		0.0019	0.00019
p/m-Xylene	179601-23-1	0.26		ND		0.0019	0.00054	ND		0.0021	0.00059	ND		0.002	0.00057	ND		0.002	0.00055	ND		0.0018	0.00051	ND		0.002	0.00056	ND		0.0019	0.00052	ND		0.0019	0.00052
o-Xylene	95-47-6	0.26		ND		0.00096	0.00028	ND		0.001	0.0003	ND		0.001	0.0003	ND		0.00099	0.00029	ND		0.00092	0.00027	ND		0.001	0.00029	ND		0.00094	0.00027	ND		0.00093	0.00027
Xylenes, Total	1330-20-7	0.26	0.26	ND		0.00096	0.00028	ND		0.001	0.0003	ND		0.001	0.0003	ND		0.00099	0.00029	ND		0.00092	0.00027	ND		0.001	0.00029	ND		0.00094	0.00027	ND		0.00093	0.00027
cis-1,2-Dichloroethene	156-59-2		0.25	ND		0.00096	0.00017	ND		0.001	0.00018	ND		0.001	0.00018	ND		0.00099	0.00017	ND		0.00092	0.00016	ND		0.001	0.00017	ND		0.00094	0.00016	ND		0.00093	0.00016
1,2-Dichloroethene, Total	540-59-0			ND		0.00096	0.00013	ND		0.001	0.00014	ND		0.001	0.00014	ND		0.00099	0.00014	ND		0.00092	0.00012	ND		0.001	0.00014	ND		0.00094	0.00013	ND		0.00093	0.00013
Dibromomethane	74-95-3			ND		0.0019	0.00023	ND		0.0021	0.00025	ND		0.002	0.00024	ND		0.002	0.00023	ND		0.0018	0.00022	ND		0.002	0.00024	ND		0.0019	0.00022	ND		0.0019	0.00022
Styrene	100-42-5			ND		0.00096	0.00019	ND		0.001	0.0002	ND		0.001	0.0002	ND		0.00099	0.00019	ND		0.00092	0.00018	ND		0.001	0.0002	ND		0.00094	0.00018	ND		0.00093	0.00018
Dichlorodifluoromethane	75-71-8			ND		0.0096	0.00088	ND		0.01	0.00096	ND		0.01	0.00094	ND		0.0099	0.0009	ND		0.0092	0.00084	ND		0.01	0.00091	ND		0.0094	0.00086	ND		0.0093	0.00085
Acetone	67-64-1		0.05	ND		0.0096	0.0046	0.0062	J	0.01	0.005	ND		0.01	0.0049	ND		0.0099	0.0047	ND		0.0092	0.0044	ND		0.01	0.0048	ND		0.0094	0.0045	ND		0.0093	0.0045
Carbon disulfide	75-15-0			ND		0.0096	0.0044	ND		0.01	0.0048	ND		0.01	0.0047	ND		0.0099	0.0045	ND		0.0092	0.0042	ND		0.01	0.0045	ND		0.0094	0.0043	ND		0.0093	0.0042
2-Butanone	78-93-3		0.12	ND		0.0096	0.0021	ND		0.01	0.0023	ND		0.01	0.0023	ND		0.0099	0.0022	ND		0.0092	0.002	ND		0.01	0.0022	ND		0.0094	0.0021	ND		0.0093	0.0021
Vinyl acetate	108-05-4			ND		0.0096	0.0021	ND		0.01	0.0022	ND		0.01	0.0022	ND		0.0099	0.0021	ND		0.0092	0.002	ND		0.01	0.0021	ND		0.0094	0.002	ND		0.0093	0.002
4-Methyl-2-pentanone	108-10-1			ND		0.0096	0.0012	ND		0.01	0.0013	ND		0.01	0.0013	ND		0.0099	0.0013	ND		0.0092	0.0012	ND		0.01	0.0013	ND		0.0094	0.0012	ND		0.0093	0.0012
1,2,3-Trichloropropane	96-18-4			ND		0.0019	0.00012	ND		0.0021	0.00013	ND		0.002	0.00013	ND		0.002	0.00012	ND		0.0018	0.00012	ND		0.002	0.00013	ND		0.0019	0.00012	ND		0.0019	0.00012
2-Hexanone	591-78-6			ND		0.0096	0.0011	ND		0.01	0.0012	ND		0.01	0.0012	ND		0.0099	0.0012	ND		0.0092	0.0011	ND		0.01	0.0012	ND		0.0094	0.0011	ND		0.0093	0.0011
Bromochloromethane	74-97-5			ND		0.0019	0.0002	ND		0.0021	0.00022	ND		0.002	0.00021	ND		0.002	0.0002	ND		0.0018	0.00019	ND		0.002	0.0002	ND		0.0019	0.00019	ND		0.0019	0.00019
2,2-Dichloropropane	594-20-7			ND		0.0019	0.00019	ND		0.0021	0.00021	ND		0.002	0.00021	ND		0.002	0.0002	ND		0.0018	0.00018	ND		0.002	0.0002	ND		0.0019	0.00019	ND		0.0019	0.00019
1,2-Dibromoethane	106-93-4			ND		0.00096	0.00027	ND		0.001	0.00029	ND		0.001	0.00028	ND		0.00099	0.00028	ND		0.00092	0.00026	ND		0.001	0.00028	ND		0.00094	0.00026	ND		0.00093	0.00026
1,3-Dichloropropane	142-28-9			ND		0.0019	0.00016	ND		0.0021	0.00018	ND		0.002	0.00017	ND		0.002	0.00016	ND		0.0018	0.00015	ND		0.002	0.00017	ND		0.0019	0.00016	ND		0.0019	0.00016
1,1,1,2-Tetrachloroethane	630-20-6			ND		0.00048	0.00013	ND		0.00052	0.00014	ND		0.00051	0.00014	ND		0.00049	0.00013	ND		0.00046	0.00012	ND		0.0005	0.00013	ND		0.00047	0.00012	ND		0.00047	0.00012
Bromobenzene	108-86-1			ND		0.0019	0.00014	ND		0.0021	0.00015	ND		0.002	0.00015	ND		0.002	0.00014	ND		0.0018	0.00013	ND		0.002	0.00014	ND		0.0019	0.00014	ND		0.0019	0.00014
n-Butylbenzene	104-51-8	12	12	ND		0.00096	0.00016	ND		0.001	0.00018	ND		0.001	0.00017	ND		0.00099	0.00016	ND		0.00092	0.00015	ND		0.001	0.00017	ND		0.00094	0.00016	ND		0.00093	0.00016
sec-Butylbenzene	135-98-8	11	11	ND		0.00096	0.00014	ND		0.001	0.00015	ND		0.001	0.00015	ND		0.00099	0.00014	ND		0.00092	0.00013	ND		0.001	0.00014	ND		0.00094	0.00014	ND		0.00093	0.00014
tert-Butylbenzene	98-06-6	5.9	5.9	ND		0.0019	0.00011	ND		0.0021	0.00012	ND		0.002	0.00012	ND		0.002	0.00012	ND		0.0018	0.00011	ND		0.002	0.00012	ND		0.0019	0.00011	ND		0.0019	0.00011
o-Chlorotoluene	95-49-8			ND		0.0019	0.00018	ND		0.0021	0.0002	ND		0.002	0.0002	ND		0.002	0.00019	ND		0.0018	0.00018	ND		0.002	0.00019	ND		0.0019	0.00018	ND		0.0019	0.00018
p-Chlorotoluene	106-43-4			ND		0.0019	0.0001	ND		0.0021	0.00011	ND		0.002	0.00011	ND		0.002	0.00011	ND		0.0018	0.0001	ND		0.002	0.00011	ND		0.0019	0.0001	ND		0.0019	0.0001
1,2-Dibromo-3-chloropropane	96-12-8			ND		0.0029	0.00096	ND		0.0031	0.001	ND		0.0031	0.001	ND		0.003	0.00098	ND		0.0028	0.00092	ND		0.003	0.00099	ND		0.0028	0.00094	ND		0.0028	0.00093
Hexachlorobutadiene	87-68-3			ND		0.0038	0.00016	ND		0.0042	0.00018	ND		0.0041	0.00017	ND		0.0039	0.00017	ND		0.0037	0.00016	ND		0.004	0.00017	ND		0.0038	0.00016	ND		0.0037	0.00016
isopropylbenzene	98-82-8	2.3		ND		0.00096	0.0001	ND		0.001	0.00011	ND		0.001	0.00011	ND		0.00099	0.00011	ND		0.00092	0.0001	ND		0.001	0.00011	ND		0.00094	0.0001	ND		0.00093	0.0001
p-Isopropyltoluene	99-87-6	10		ND		0.00096	0.0001	ND		0.001	0.00011	ND		0.001	0.00011	ND		0.00099	0.00011	ND		0.00092	0.0001	ND		0.001	0.00011	ND		0.00094	0.0001	ND		0.00093	0.0001
Naphthalene	91-20-3	12	12	ND		0.0038	0.00062	ND		0.0042	0.00068	ND		0.0041	0.00067	ND		0.0039	0.00064	ND		0.0037	0.0006	ND		0.004	0.00065	ND		0.0038	0.00061	ND		0.0037	0.0006
Acrylonitrile	107-13-1			ND		0.0038	0.0011	ND		0.0042	0.0012	ND		0.0041	0.0012	ND		0.0039	0.0011	ND		0.0037	0.001	ND		0.004	0.0011	ND		0.0038	0.0011	ND		0.0037	0.0011
n-Propylbenzene	103-65-1	3.9	3.9	ND		0.00096	0.00016	ND		0.001	0.00018	ND		0.001	0.00018	ND		0.00099	0.00017	ND		0.00092	0.00016	ND		0.001	0.00017	ND		0.00094	0.00016	ND		0.00093	0.00016
1,2,3-Trichlorobenzene	87-61-6			ND		0.0019	0.00031	ND		0.0021	0.00034	ND		0.002	0.00033	ND		0.002	0.00032	ND		0.0018	0.0003	ND		0.002	0.00032	ND		0.0019	0.0003	ND		0.0019	0.0003
1,2,4-Trichlorobenzene	120-82-1			ND		0.0019	0.00026	ND		0.0021	0.00028	ND		0.002	0.00028	ND		0.002	0.00027	ND		0.0018	0.00025	ND		0.002	0.00027	ND		0.0019	0.00026	ND		0.0019	0.00025
1,3,5-Trimethylbenzene	108-67-8	8.4	8.4	ND		0.0019	0.00018	ND		0.0021	0.0002	ND		0.002	0.0002	ND		0.002	0.00019	ND		0.0018	0.00018	ND		0.002	0.00019	ND		0.0019	0.00018	ND		0.0019	0.00018
1,2,4-Trimethylbenzene	95-63-6	3.6	3.6	ND		0.0019	0.00032	ND		0.0021	0.00035	ND		0.002	0.00034	ND		0.002	0.00033	ND		0.0018	0.00031	ND		0.002	0.00033	ND		0.0019	0.00031	ND		0.0019	0.00031
1,4-Dioxane	123-91-1		0.1	ND		0.077	0.034	ND		0.084	0.037	ND		0.082	0.036	ND		0.079	0.035	ND		0.074	0.032	ND		0.08	0.035	ND		0.075	0.033	ND		0.074	0.033
p-Diethylbenzene	105-05-5			ND		0.0019	0.00017	ND		0.0021	0.00018	ND		0.002	0.00018	ND		0.002	0.00017	ND		0.0018	0.00016	ND		0.002	0.00018	ND		0.0019	0.00017	ND		0.0019	0.00016
p-Ethyltoluene	622-96-8			ND		0.0019	0.00037	ND		0.0021	0.0004	ND		0.002	0.00039	ND		0.002	0.00038	ND		0.0018	0.00035	ND		0.002	0.00038	ND		0.0019	0.00036	ND		0.0019	0.00036
1,2,4,5-Tetramethylbenzene	95-93-2			ND		0.0019	0.00018	ND		0.0021	0.0002	ND		0.002	0.0002	ND		0.002	0.00019	ND		0.0018	0.00018	ND		0.002	0.00019	ND		0.0019	0.00018	ND		0.0019	0.00018
Ethyl ether	60-29-7			ND		0.0019	0.00033	ND		0.0021	0.00036	ND		0.002	0.00035	ND		0.002	0.00034	ND		0.0018	0.00031	ND		0.002	0.00034	ND		0.0019	0.00032	ND		0.0019	0.00032
trans-1,4-Dichloro-2-butene	110-57-6			ND		0.0048	0.0014	ND		0.0052	0.0015	ND		0.0051	0.0014	ND		0.0049	0.0014	ND		0.0046	0.0013	ND		0.005	0.0014	ND		0.0047	0.0013	ND		0.0047	0.0013
Total VOCs				-	-	-	-	0.0062	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table-2

Endpoint

SVOCs

TABLE-2

			SAMPLE ID:	EP-1				EP-2				N-SIDEWALL				S-SIDEWALL				E-SIDEWALL				W-SIDEWALL				L-1				L-2			
			LAB ID:	L2420570-01				L2420570-02				L2420570-03				L2420570-04				L2420570-05				L2420570-06				L2420570-07				L2420570-08			
			COLLECTION DATE:	4/10/2024				4/10/2024				4/10/2024				4/10/2024				4/10/2024				4/10/2024				4/10/2024				4/10/2024			
			SAMPLE DEPTH:																																
			SAMPLE MATRIX:	SOIL				SOIL				SOIL				SOIL				SOIL				SOIL				SOIL				SOIL			
		NY-CP51	NY-UNRES																																
ANALYTE	CAS	(mg/kg)	(mg/kg)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
SEMIVOLATILE ORGANICS BY GC/MS																																			
Acenaphthene	83-32-9	20	20	0.032	J	0.15	0.02	ND		0.14	0.018	ND		0.14	0.018	0.028	J	0.14	0.018	ND		0.14	0.018	ND		0.14	0.018	ND		0.14	0.019	ND		0.14	0.018
1,2,4-Trichlorobenzene	120-82-1			ND		0.19	0.022	ND		0.18	0.02	ND		0.18	0.02	ND		0.18	0.02	ND		0.18	0.02	ND		0.17	0.02	ND		0.18	0.021	ND		0.17	0.02
Hexachlorobenzene	118-74-1		0.33	ND		0.11	0.021	ND		0.11	0.02	ND		0.1	0.02	ND		0.1	0.02	ND		0.1	0.02	ND		0.1	0.019	ND		0.11	0.02	ND		0.1	0.019
Bis(2-chloroethyl)ether	111-44-4			ND		0.17	0.026	ND		0.16	0.024	ND		0.16	0.024	ND		0.16	0.024	ND		0.16	0.024	ND		0.15	0.023	ND		0.16	0.025	ND		0.16	0.024
2-Chloronaphthalene	91-58-7			ND		0.19	0.019	ND		0.18	0.018	ND		0.18	0.017	ND		0.18	0.018	ND		0.18	0.017	ND		0.17	0.017	ND		0.18	0.018	ND		0.17	0.017
1,2-Dichlorobenzene	95-50-1		1.1	ND		0.19	0.034	ND		0.18	0.032	ND		0.18	0.031	ND		0.18	0.032	ND		0.18	0.031	ND		0.17	0.031	ND		0.18	0.033	ND		0.17	0.031
1,3-Dichlorobenzene	541-73-1		2.4	ND		0.19	0.033	ND		0.18	0.031	ND		0.18	0.03	ND		0.18	0.03	ND		0.18	0.03	ND		0.17	0.03	ND		0.18	0.031	ND		0.17	0.03
1,4-Dichlorobenzene	106-46-7		1.8	ND		0.19	0.033	ND		0.18	0.031	ND		0.18	0.031	ND		0.18	0.031	ND		0.18	0.03	ND		0.17	0.03	ND		0.18	0.032	ND		0.17	0.03
3,3'-Dichlorobenzidine	91-94-1			ND		0.19	0.05	ND		0.18	0.048	ND		0.18	0.047	ND		0.18	0.047	ND		0.18	0.046	ND		0.17	0.046	ND		0.18	0.048	ND		0.17	0.046
2,4-Dinitrotoluene	121-14-2			ND		0.19	0.038	ND		0.18	0.036	ND		0.18	0.035	ND		0.18	0.035	ND		0.18	0.035	ND		0.17	0.034	ND		0.18	0.036	ND		0.17	0.035
2,6-Dinitrotoluene	606-20-2			ND		0.19	0.032	ND		0.18	0.031	ND		0.18	0.03	ND		0.18	0.03	ND		0.18	0.03	ND		0.17	0.03	ND		0.18	0.031	ND		0.17	0.03
Fluoranthene	206-44-0	100	100	0.86		0.11	0.022	0.1	J	0.11	0.02	0.16		0.1	0.02	1.3		0.1	0.02	0.11		0.1	0.02	0.2		0.1	0.02	0.52		0.11	0.021	0.22		0.1	0.02
4-Chlorophenyl phenyl ether	7005-72-3			ND		0.19	0.02	ND		0.18	0.019	ND		0.18	0.019	ND		0.18	0.019	ND		0.18	0.019	ND		0.17	0.018	ND		0.18	0.019	ND		0.17	0.018
4-Bromophenyl phenyl ether	101-55-3			ND		0.19	0.029	ND		0.18	0.027	ND		0.18	0.027	ND		0.18	0.027	ND		0.18	0.027	ND		0.17	0.026	ND		0.18	0.028	ND		0.17	0.026
Bis(2-chloroisopropyl)ether	108-60-1			ND		0.23	0.032	ND		0.22	0.031	ND		0.21	0.03	ND		0.21	0.03	ND		0.21	0.03	ND		0.21	0.029	ND		0.22	0.031	ND		0.21	0.03
Bis(2-chloroethoxy)methane	111-91-1			ND		0.2	0.019	ND		0.19	0.018	ND		0.19	0.018	ND		0.19	0.018	ND		0.19	0.018	ND		0.18	0.017	ND		0.2	0.018	ND		0.19	0.017
Hexachlorobutadiene	87-68-3			ND		0.19	0.028	ND		0.18	0.026	ND		0.18	0.026	ND		0.18	0.026	ND		0.18	0.026	ND		0.17	0.025	ND		0.18	0.027	ND		0.17	0.025
Hexachlorocyclopentadiene	77-47-4			ND		0.54	0.17	ND		0.51	0.16	ND		0.5	0.16	ND		0.5	0.16	ND		0.5	0.16	ND		0.49	0.16	ND		0.52	0.16	ND		0.5	0.16
Hexachloroethane	67-72-1			ND		0.15	0.031	ND		0.14	0.029	ND		0.14	0.028	ND		0.14	0.028	ND		0.14	0.028	ND		0.14	0.028	ND		0.14	0.029	ND		0.14	0.028
Isophorone	78-59-1			ND		0.17	0.025	ND		0.16	0.023	ND		0.16	0.023	ND		0.16	0.023	ND		0.16	0.023	ND		0.15	0.022	ND		0.16	0.024	ND		0.16	0.022
Naphthalene	91-20-3	12	12	ND		0.19	0.023	ND		0.18	0.022	ND		0.18	0.021	ND		0.18	0.022	ND		0.18	0.021	ND		0.17	0.021	ND		0.18	0.022	ND		0.17	0.021
Nitrobenzene	98-95-3			ND		0.17	0.028	ND		0.16	0.026	ND		0.16	0.026	ND		0.16	0.026	ND		0.16	0.026	ND		0.15	0.025	ND		0.16	0.027	ND		0.16	0.026
NDPA/DPA	86-30-6			ND		0.15	0.022	ND		0.14	0.02	ND		0.14	0.02	ND		0.14	0.02	ND		0.14	0.02	ND		0.14	0.02	ND		0.14	0.021	ND		0.14	0.02
n-Nitrosodi-n-propylamine	621-64-7			ND		0.19	0.029	ND		0.18	0.028	ND		0.18	0.027	ND		0.18	0.027	ND		0.18	0.027	ND		0.17	0.026	ND		0.18	0.028	ND		0.17	0.027
Bis(2-ethylhexyl)phthalate	117-81-7			ND		0.19	0.066	ND		0.18	0.062	ND		0.18	0.061	ND		0.18	0.061	ND		0.18	0.06	ND		0.17	0.06	ND		0.18	0.063	ND		0.17	0.06
Butyl benzyl phthalate	85-68-7			ND		0.19	0.048	ND		0.18	0.045	ND		0.18	0.044	ND		0.18	0.044	ND		0.18	0.044	ND		0.17	0.043	ND		0.18	0.046	ND		0.17	0.044
Di-n-butylphthalate	84-74-2			ND		0.19	0.036	ND		0.18	0.034	ND		0.18	0.033	ND		0.18	0.033	ND		0.18	0.033	ND		0.17	0.033	ND		0.18	0.034	ND		0.17	0.033
Di-n-octylphthalate	117-84-0			ND		0.19	0.064	ND		0.18	0.061	ND		0.18	0.06	ND		0.18	0.06	ND		0.18	0.06	ND		0.17	0.058	ND		0.18	0.062	ND		0.17	0.059
Diethyl phthalate	84-66-2			ND		0.19	0.018	ND		0.18	0.017	ND		0.18	0.016	ND		0.18	0.016	ND		0.18	0.016	ND		0.17	0.016	ND		0.18	0.017	ND		0.17	0.016
Dimethyl phthalate	131-11-3			ND		0.19	0.04	ND		0.18	0.038	ND		0.18	0.037	ND		0.18	0.037	ND		0.18	0.037	ND		0.17	0.036	ND		0.18	0.038	ND		0.17	0.036
Benzo(a)anthracene	56-55-3	1	1	0.51		0.11	0.021	0.049	J	0.11	0.02	0.078	J	0.1	0.02	0.25		0.1	0.02	0.053	J	0.1	0.02	0.097	J	0.1	0.019	0.34		0.11	0.02	0.091	J	0.1	0.02
Benzo(a)pyrene	50-32-8	1	1	0.54		0.15	0.046	0.058	J	0.14	0.044	0.084	J	0.14	0.043	0.37		0.14	0.043	0.062	J	0.14	0.043	0.11	J	0.14	0.042	0.38		0.14	0.044	0.1	J	0.14	0.042
Benzo(b)fluoranthene	205-99-2	1	1	0.68		0.11	0.032	0.076	J	0.11	0.03	0.12		0.1	0.03	0.53		0.1	0.03	0.086	J	0.1	0.029	0.15		0.1	0.029	0.45		0.11	0.031	0.15		0.1	0.029
Benzo(k)fluoranthene	207-08-9	0.8	0.8	0.25		0.11	0.03	0.036	J	0.11	0.029	0.037	J	0.1	0.028	0.25		0.1	0.028	0.037	J	0.1	0.028	0.051	J	0.1	0.028	0.2		0.11	0.029	0.058	J	0.1	0.028
Chrysene	218-01-9	1	1	0.52		0.11	0.02	0.059	J	0.11	0.019	0.088	J	0.1	0.018	0.54		0.1	0.018	0.066	J	0.1	0.018	0.11		0.1	0.018	0.36		0.11	0.019	0.12		0.1	0.018
Acenaphthylene	208-96-8	100	100	ND		0.15	0.029	ND		0.14	0.028	ND		0.14	0.027	ND		0.14	0.027	ND		0.14	0.027	ND		0.14	0.026	ND		0.14	0.028	ND		0.14	0.027
Anthracene	120-12-7	100	100	0.067	J	0.11	0.037	ND		0.11	0.035	ND		0.1	0.034	ND		0.1	0.034	ND		0.1	0.034	ND		0.1	0.034	0.049	J	0.11	0.036	ND		0.1	0.034
Benzo(ghi)perylene	191-24-2	100	100	0.28		0.15	0.022	0.044	J	0.14	0.021	0.055	J	0.14	0.021	0.21		0.14	0.021	0.05	J	0.14	0.02	0.07	J	0.14	0.02	0.22		0.14	0.021	0.077	J	0.14	0.02
Fluorene	86-73-7	30	30	0.018	J	0.19	0.018	ND		0.18	0.017	ND		0.18	0.017	0.027	J	0.18	0.017	ND		0.18	0.017	ND		0.17	0.017	ND		0.18	0.018	ND		0.17	0.017
Phenanthrene	85-01-8	100	100	0.33		0.11	0.023	0.039	J	0.11	0.022	0.071	J	0.1	0.021	1.1		0.1	0.021	0.037	J	0.1	0.021	0.097	J	0.1	0.021	0.18		0.11	0.022	0.082	J	0.1	0.021
Dibenzo(a,h)anthracene	53-70-3	0.33	0.33	0.092	J	0.11	0.022	ND		0.11	0.021	ND		0.1	0.02	0.066	J	0.1	0.02	ND		0.1	0.02	0.02	J	0.1	0.02	0.068	J	0.11	0.021	0.02	J	0.1	0.02
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.5	0.26		0.15	0.026	0.035	J	0.14	0.025	0.046	J	0.14	0.024	0.21		0.14	0.025	0.04	J	0.14	0.024	0.062	J	0.14	0.024	0.19		0.14	0.025	0.063	J	0.14	0.024
Pyrene	129-00-0	100	100	0.76		0.11	0.019	0.09	J	0.11	0.018	0.15		0.1	0.017	0.96		0.1	0.018	0.098	J	0.1	0.017	0.18		0.1	0.017	0.48		0.11	0.018	0.19		0.1	0.017
Biphenyl	92-52-4			ND		0.43	0.025	ND		0.41	0.023	ND		0.4	0.023	ND		0.4	0.023	ND		0.4	0.023	ND		0.39	0.022	ND		0.42	0.024	ND		0.4	0.022
4-Chloroaniline	106-47-8			ND		0.19	0.034	ND		0.18	0.033	ND		0.18	0.032	ND		0.18	0.032	ND		0.18	0.032	ND		0.17	0.031	ND		0.18	0.033	ND		0.17	0.032
2-Nitroaniline	88-74-4			ND		0.19	0.036	ND		0.18	0.034	ND		0.18	0.034	ND		0.18	0.034	ND		0.18	0.034	ND		0.17	0.033	ND		0.18	0.035	ND		0.17	0.033
3-Nitroaniline	99-09-2			ND		0.19	0.036	ND		0.18	0.034	ND		0.18	0.033	ND		0.18	0.033	ND		0.18	0.033	ND		0.17	0.032	ND		0.18	0.034	ND		0.17	0.033
4-Nitroaniline	100-01-6			ND		0.19	0.078	ND		0.18	0.074	ND		0.18	0.072	ND		0.18	0.073	ND		0.18	0.072	ND		0.17	0.071	ND		0.18	0.075	ND		0.17	0.072
Dibenzofuran	132-64-9		7	ND		0.19	0.018	ND		0.18	0.017	ND		0.18	0.016	0.04	J	0.18	0.017	ND		0.18	0.016	ND		0.17	0.016	ND		0.18	0.017	ND		0.17	0.016
2-Methylnaphthalene	91-57-6			ND		0.23	0.023	ND		0.22	0.022	ND		0.21	0.021	ND		0.21	0.021	ND		0.21	0.021	ND		0.21	0.021	ND		0.22	0.022	ND		0.21	0.021
1,2,4,5-Tetrachlorobenzene	95-94-3			ND		0.19	0.02	ND		0.18	0.019	ND		0.18	0.018	ND		0.18	0.018	ND		0.18	0.018	ND		0.17	0.018	ND		0.18	0.019	ND		0.17	0.018
Acetophenone	98-86-2			ND		0.19	0.024	ND		0.18	0.022	ND		0.18	0.022	ND		0.18	0.022	ND		0.18	0.022	ND		0.17	0.021	ND		0.18	0.022	ND		0.17	0.022
2,4,6-Trichlorophenol	88-06-2			ND		0.11	0.036	ND		0.11	0.034	ND		0.1	0.033	ND		0.1	0.033	ND		0.1	0.033	ND		0.1	0.033	ND		0.11	0.034	ND		0.1	0.033
p-Chloro-m-cresol	59-50-7			ND		0.19	0.028	ND		0.18	0.027	ND		0.18	0.026	ND		0.18	0.026	ND		0.18	0.026	ND		0.17	0.026	ND		0.18	0.027	ND		0.17	0.026
2-Chlorophenol	95-57-8			ND		0.19	0.022	ND		0.18	0.021	ND		0.18	0.021	ND		0.18	0.021	ND		0.18	0.021	ND		0.17	0.02	ND		0.18	0.022	ND		0.17	0.02
2,4-Dichlorophenol	120-83-2			ND		0.17	0.03	ND		0.16	0.029	ND		0.16	0.028	ND		0.16	0.028	ND		0.16	0.028	ND		0.15	0.028	ND		0.16	0.029	ND		0.16	0.028
2,4-Dimethylphenol	105-67-9			ND		0.19	0.063	ND		0.18	0.059	ND		0.18	0.058	ND		0.18	0.058	ND		0.18	0.058	ND		0.17	0.057	ND		0.18	0.06	ND		0.17	0.057
2-Nitrophenol	88-75-5			ND		0.41	0.071	ND		0.39	0.067	ND		0.38	0.066	ND		0.38	0.066	ND		0.38	0.066	ND		0.37	0.065	ND		0.39	0.068	ND		0.38	0.065
4-Nitrophenol	100-02-7			ND		0.26	0.077	ND		0.25	0.073	ND		0.24	0.072	ND		0.25	0.072	ND		0.24	0.071	ND		0.24	0.07	ND		0.26	0.074	ND		0.24	0.071
2,4-Dinitrophenol	51-28-5			ND		0.91	0.088	ND		0.86	0.084	ND		0.84	0.082	ND		0.85	0.082	ND		0.84	0.082	ND		0.83	0.08	ND		0.87	0.085	ND		0.83	0.081
4,6-Dinitro-o-cresol	534-52-1			ND		0.49	0.091	ND		0.47	0.086	ND		0.46	0.084	ND		0.46	0.085	ND		0.46	0.084	ND		0.45	0.083	ND		0.47	0.087	ND		0.45	0.083
Pentachlorophenol	87-86-5		0.8	ND		0.15	0.042	ND		0.14	0.039	ND		0.14	0.038	ND		0.14	0.039	ND		0.14	0.038	ND		0.14	0.038	ND		0.14	0.04	ND		0.14	0.038
Phenol	108-95-2		0.33	ND		0.19	0.029	ND		0.18	0.027	ND		0.18	0.026	ND		0.18	0.027	ND		0.18	0.026	ND		0.17	0.026	ND		0.18	0.028	ND		0.17	0.026
2-Methylphenol	95-48-7		0.33	ND		0.19	0.029	ND		0.18	0.028	ND		0.18	0.027	ND		0.18	0.027	ND		0.18	0.027	ND		0.17	0.027	ND		0.18	0.028	ND		0.17	0.027
3-Methylphenol/4-Methylphenol	108-39-4/106		0.33	ND		0.27	0.03	ND		0.26	0.028	ND		0.25	0.027	ND		0.25	0.028	ND		0.25	0.027	ND		0.25	0.027	ND		0.26	0.028	ND		0.25	0.027
2,4,5-Trichlorophenol	95-95-4			ND		0.19	0.036	ND		0.18	0.034	ND		0.18	0.034	ND		0.18	0.034	ND		0.18	0.034	ND		0.17	0.033	ND		0.18	0.035	ND		0.17	0.033
Benzoic Acid	65-85-0			ND		0.62	0.19	ND		0.58	0.18	ND		0.57	0.18	ND		0.57	0.18	ND		0.57	0.18	ND		0.56	0.17	ND		0.59	0.18	ND		0.56	0.18
Benzyl Alcohol	100-51-6			ND		0.19	0.058	ND		0.18	0.055	ND		0.18	0.054	ND		0.18	0.054	ND		0.18	0.054	ND		0.17	0.053	ND		0.18	0.056	ND		0.17	0.053
Carbazole	86-74-8			0.088	J	0.19	0.018	ND		0.18	0.017	ND		0.18	0.017	0.073	J	0.18	0.017	ND		0.18	0.017	0.017	J	0.17	0.017	0.036	J	0.18	0.018	ND		0.17	0.017
1,4-Dioxane	123-91-1		0.1	ND		0.028	0.0087	ND		0.027	0.0082	ND		0.026	0.0081	ND		0.026	0.0081	ND		0.026	0.008	ND		0.026	0.0079	ND		0.027	0.0084	ND		0.026	0.008
Total SVOCs				5.287	-	-	-	0.586	-	-	-	0.889	-	-	-	5.954	-	-	-	0.639	-	-	-	1.164	-	-	-	3.473	-	-	-	1.171	-	-	-

Table-3

Endpoint

Metals

TABLE-3

			SAMPLE ID:	EP-1				EP-2				N-SIDEWALL				S-SIDEWALL				E-SIDEWALL				W-SIDEWALL				L-1				L-2			
			LAB ID:	L2420570-01				L2420570-02				L2420570-03				L2420570-04				L2420570-05				L2420570-06				L2420570-07				L2420570-08			
			COLLECTION DATE:	4/10/2024				4/10/2024				4/10/2024				4/10/2024				4/10/2024				4/10/2024				4/10/2024				4/10/2024			
			SAMPLE DEPTH:																														
			SAMPLE MATRIX:	SOIL				SOIL				SOIL				SOIL				SOIL				SOIL				SOIL				SOIL			
		NY-CP51	NY-UNRES																														
ANALYTE	CAS	(mg/kg)	(mg/kg)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
TOTAL METALS																																	
Arsenic, Total	7440-38-2		13	2.74		0.894	0.186	2.47		0.844	0.176	2.07		0.838	0.174	2.47		0.852	0.177	2.27		0.826	0.172	2.03		0.798	0.166	4.41		0.863	0.18	1.98		0.822	0.171
Barium, Total	7440-39-3		350	30.3		0.894	0.156	36.3		0.844	0.147	24.2		0.838	0.146	33		0.852	0.148	26.7		0.826	0.144	26.7		0.798	0.139	43		0.863	0.15	25.5		0.822	0.143
Beryllium, Total	7440-41-7		7.2	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-
Cadmium, Total	7440-43-9		2.5	ND		0.894	0.088	0.134	J	0.844	0.083	0.083	J	0.838	0.082	0.091	J	0.852	0.084	0.081	J	0.826	0.081	ND		0.798	0.078	0.164	J	0.863	0.085	0.088	J	0.822	0.081
Chromium, Total	7440-47-3			7.8		0.894	0.086	5.9		0.844	0.081	6.22		0.838	0.08	7.85		0.852	0.082	6.88		0.826	0.079	6.48		0.798	0.077	9.74		0.863	0.083	6.68		0.822	0.079
Copper, Total	7440-50-8		50	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-
Lead, Total	7439-92-1		63	10.1		4.47	0.24	11.2		4.22	0.226	9.87		4.19	0.224	8.78		4.26	0.228	8.5		4.13	0.221	6.79		3.99	0.214	15.6		4.32	0.231	7.36		4.11	0.22
Manganese, Total	7439-96-5		1600	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-
Mercury, Total	7439-97-6		0.18	ND		0.083	0.054	ND		0.077	0.05	ND		0.079	0.051	ND		0.072	0.047	ND		0.068	0.045	ND		0.079	0.052	ND		0.082	0.053	ND		0.069	0.045
Nickel, Total	7440-02-0		30	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-
Selenium, Total	7782-49-2		3.9	ND		1.79	0.231	0.33	J	1.69	0.218	0.366	J	1.68	0.216	0.527	J	1.7	0.22	0.226	J	1.65	0.213	0.358	J	1.6	0.206	0.86	J	1.73	0.223	0.589	J	1.64	0.212
Silver, Total	7440-22-4		2	ND		0.447	0.253	ND		0.422	0.239	ND		0.419	0.237	ND		0.426	0.241	ND		0.413	0.234	ND		0.399	0.226	ND		0.432	0.244	ND		0.411	0.233
Zinc, Total	7440-66-6		109	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-

Table-4

Stockpile

Part-375

TABLE-4

SAMPLE ID:	STOCKPILE
LAB ID:	L2420570-09
COLLECTION DATE:	4/10/2024
SAMPLE DEPTH:	
SAMPLE MATRIX:	SOIL

ANALYTE	CAS	NY-CP51 (mg/kg)	NY-UNRES (mg/kg)	Conc	Q	RL	MDL
VOLATILE ORGANICS BY EPA 5035							
Methylene chloride	75-09-2		0.05	ND		0.0054	0.0025
1,1-Dichloroethane	75-34-3		0.27	ND		0.0011	0.00016
Chloroform	67-66-3		0.37	ND		0.0016	0.00015
Carbon tetrachloride	56-23-5		0.76	ND		0.0011	0.00025
1,2-Dichloropropane	78-87-5			ND		0.0011	0.00014
Dibromochloromethane	124-48-1			ND		0.0011	0.00015
1,1,2-Trichloroethane	79-00-5			ND		0.0011	0.00029
Tetrachloroethene	127-18-4		1.3	ND		0.00054	0.00021
Chlorobenzene	108-90-7		1.1	ND		0.00054	0.00014
Trichlorofluoromethane	75-69-4			ND		0.0043	0.00076
1,2-Dichloroethane	107-06-2		0.02	ND		0.0011	0.00028
1,1,1-Trichloroethane	71-55-6		0.68	ND		0.00054	0.00018
Bromodichloromethane	75-27-4			ND		0.00054	0.00012
trans-1,3-Dichloropropene	10061-02-6			ND		0.0011	0.0003
cis-1,3-Dichloropropene	10061-01-5			ND		0.00054	0.00017
1,3-Dichloropropene, Total	542-75-6			ND		0.00054	0.00017
1,1-Dichloropropene	563-58-6			ND		0.00054	0.00017
Bromoform	75-25-2			ND		0.0043	0.00027
1,1,2,2-Tetrachloroethane	79-34-5			ND		0.00054	0.00018
Benzene	71-43-2	0.06	0.06	ND		0.00054	0.00018
Toluene	108-88-3	0.7	0.7	ND		0.0011	0.00059
Ethylbenzene	100-41-4	1	1	ND		0.0011	0.00015
Chloromethane	74-87-3			ND		0.0043	0.001
Bromomethane	74-83-9			ND		0.0022	0.00063
Vinyl chloride	75-01-4		0.02	ND		0.0011	0.00036
Chloroethane	75-00-3			ND		0.0022	0.00049
1,1-Dichloroethene	75-35-4		0.33	ND		0.0011	0.00026
trans-1,2-Dichloroethene	156-60-5		0.19	ND		0.0016	0.00015
Trichloroethene	79-01-6		0.47	ND		0.00054	0.00015
1,2-Dichlorobenzene	95-50-1		1.1	ND		0.0022	0.00016
1,3-Dichlorobenzene	541-73-1		2.4	ND		0.0022	0.00016
1,4-Dichlorobenzene	106-46-7		1.8	ND		0.0022	0.00018
Methyl tert butyl ether	1634-04-4	0.93	0.93	ND		0.0022	0.00022
p/m-Xylene	179601-23-1	0.26		ND		0.0022	0.00061
o-Xylene	95-47-6	0.26		ND		0.0011	0.00032
Xylenes, Total	1330-20-7	0.26	0.26	ND		0.0011	0.00032
cis-1,2-Dichloroethene	156-59-2		0.25	ND		0.0011	0.00019
1,2-Dichloroethene, Total	540-59-0			ND		0.0011	0.00015
Dibromomethane	74-95-3			ND		0.0022	0.00026
Styrene	100-42-5			ND		0.0011	0.00021
Dichlorodifluoromethane	75-71-8			ND		0.011	0.001
Acetone	67-64-1		0.05	ND		0.011	0.0052
Carbon disulfide	75-15-0			ND		0.011	0.0049
2-Butanone	78-93-3		0.12	ND		0.011	0.0024
Vinyl acetate	108-05-4			ND		0.011	0.0023

4-Methyl-2-pentanone	108-10-1			ND	0.011	0.0014
1,2,3-Trichloropropane	96-18-4			ND	0.0022	0.00014
2-Hexanone	591-78-6			ND	0.011	0.0013
Bromochloromethane	74-97-5			ND	0.0022	0.00022
2,2-Dichloropropane	594-20-7			ND	0.0022	0.00022
1,2-Dibromoethane	106-93-4			ND	0.0011	0.0003
1,3-Dichloropropane	142-28-9			ND	0.0022	0.00018
1,1,1,2-Tetrachloroethane	630-20-6			ND	0.00054	0.00014
Bromobenzene	108-86-1			ND	0.0022	0.00016
n-Butylbenzene	104-51-8	12	12	ND	0.0011	0.00018
sec-Butylbenzene	135-98-8	11	11	ND	0.0011	0.00016
tert-Butylbenzene	98-06-6	5.9	5.9	ND	0.0022	0.00013
o-Chlorotoluene	95-49-8			ND	0.0022	0.00021
p-Chlorotoluene	106-43-4			ND	0.0022	0.00012
1,2-Dibromo-3-chloropropane	96-12-8			ND	0.0033	0.0011
Hexachlorobutadiene	87-68-3			ND	0.0043	0.00018
Isopropylbenzene	98-82-8	2.3		ND	0.0011	0.00012
p-Isopropyltoluene	99-87-6	10		ND	0.0011	0.00012
Naphthalene	91-20-3	12	12	ND	0.0043	0.00071
Acrylonitrile	107-13-1			ND	0.0043	0.0012
n-Propylbenzene	103-65-1	3.9	3.9	ND	0.0011	0.00018
1,2,3-Trichlorobenzene	87-61-6			ND	0.0022	0.00035
1,2,4-Trichlorobenzene	120-82-1			ND	0.0022	0.0003
1,3,5-Trimethylbenzene	108-67-8	8.4	8.4	ND	0.0022	0.00021
1,2,4-Trimethylbenzene	95-63-6	3.6	3.6	ND	0.0022	0.00036
1,4-Dioxane	123-91-1		0.1	ND	0.087	0.038
p-Diethylbenzene	105-05-5			ND	0.0022	0.00019
p-Ethyltoluene	622-96-8			ND	0.0022	0.00042
1,2,4,5-Tetramethylbenzene	95-93-2			ND	0.0022	0.00021
Ethyl ether	60-29-7			ND	0.0022	0.00037
trans-1,4-Dichloro-2-butene	110-57-6			ND	0.0054	0.0015
Total VOCs				-	-	-
SEMIVOLATILE ORGANICS BY GC/MS						
Acenaphthene	83-32-9	20	20	ND	0.14	0.018
1,2,4-Trichlorobenzene	120-82-1			ND	0.17	0.02
Hexachlorobenzene	118-74-1		0.33	ND	0.1	0.019
Bis(2-chloroethyl)ether	111-44-4			ND	0.15	0.023
2-Chloronaphthalene	91-58-7			ND	0.17	0.017
1,2-Dichlorobenzene	95-50-1		1.1	ND	0.17	0.031
1,3-Dichlorobenzene	541-73-1		2.4	ND	0.17	0.03
1,4-Dichlorobenzene	106-46-7		1.8	ND	0.17	0.03
3,3'-Dichlorobenzidine	91-94-1			ND	0.17	0.046
2,4-Dinitrotoluene	121-14-2			ND	0.17	0.034
2,6-Dinitrotoluene	606-20-2			ND	0.17	0.029
Fluoranthene	206-44-0	100	100	0.32	0.1	0.02
4-Chlorophenyl phenyl ether	7005-72-3			ND	0.17	0.018
4-Bromophenyl phenyl ether	101-55-3			ND	0.17	0.026
Bis(2-chloroisopropyl)ether	108-60-1			ND	0.21	0.029
Bis(2-chloroethoxy)methane	111-91-1			ND	0.18	0.017
Hexachlorobutadiene	87-68-3			ND	0.17	0.025
Hexachlorocyclopentadiene	77-47-4			ND	0.49	0.16
Hexachloroethane	67-72-1			ND	0.14	0.028
Isophorone	78-59-1			ND	0.15	0.022
Naphthalene	91-20-3	12	12	ND	0.17	0.021

Nitrobenzene	98-95-3			ND		0.15	0.025
NDPA/DPA	86-30-6			ND		0.14	0.02
n-Nitrosodi-n-propylamine	621-64-7			ND		0.17	0.026
Bis(2-ethylhexyl)phthalate	117-81-7			ND		0.17	0.059
Butyl benzyl phthalate	85-68-7			ND		0.17	0.043
Di-n-butylphthalate	84-74-2			ND		0.17	0.032
Di-n-octylphthalate	117-84-0			ND		0.17	0.058
Diethyl phthalate	84-66-2			ND		0.17	0.016
Dimethyl phthalate	131-11-3			ND		0.17	0.036
Benzo(a)anthracene	56-55-3	1	1	0.12		0.1	0.019
Benzo(a)pyrene	50-32-8	1	1	0.14		0.14	0.042
Benzo(b)fluoranthene	205-99-2	1	1	0.23		0.1	0.029
Benzo(k)fluoranthene	207-08-9	0.8	0.8	0.07	J	0.1	0.027
Chrysene	218-01-9	1	1	0.18		0.1	0.018
Acenaphthylene	208-96-8	100	100	ND		0.14	0.026
Anthracene	120-12-7	100	100	ND		0.1	0.033
Benzo(ghi)perylene	191-24-2	100	100	0.092	J	0.14	0.02
Fluorene	86-73-7	30	30	ND		0.17	0.017
Phenanthrene	85-01-8	100	100	0.087	J	0.1	0.021
Dibenzo(a,h)anthracene	53-70-3	0.33	0.33	0.02	J	0.1	0.02
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.5	0.086	J	0.14	0.024
Pyrene	129-00-0	100	100	0.28		0.1	0.017
Biphenyl	92-52-4			ND		0.39	0.022
4-Chloroaniline	106-47-8			ND		0.17	0.031
2-Nitroaniline	88-74-4			ND		0.17	0.033
3-Nitroaniline	99-09-2			ND		0.17	0.032
4-Nitroaniline	100-01-6			ND		0.17	0.071
Dibenzofuran	132-64-9		7	ND		0.17	0.016
2-Methylnaphthalene	91-57-6			ND		0.21	0.021
1,2,4,5-Tetrachlorobenzene	95-94-3			ND		0.17	0.018
Acetophenone	98-86-2			ND		0.17	0.021
2,4,6-Trichlorophenol	88-06-2			ND		0.1	0.032
p-Chloro-m-cresol	59-50-7			ND		0.17	0.026
2-Chlorophenol	95-57-8			ND		0.17	0.02
2,4-Dichlorophenol	120-83-2			ND		0.15	0.028
2,4-Dimethylphenol	105-67-9			ND		0.17	0.057
2-Nitrophenol	88-75-5			ND		0.37	0.064
4-Nitrophenol	100-02-7			ND		0.24	0.07
2,4-Dinitrophenol	51-28-5			ND		0.82	0.08
4,6-Dinitro-o-cresol	534-52-1			ND		0.45	0.082
Pentachlorophenol	87-86-5		0.8	ND		0.14	0.038
Phenol	108-95-2		0.33	ND		0.17	0.026
2-Methylphenol	95-48-7		0.33	ND		0.17	0.027
3-Methylphenol/4-Methylphenol	108-39-4/106-		0.33	ND		0.25	0.027
2,4,5-Trichlorophenol	95-95-4			ND		0.17	0.033
Benzoic Acid	65-85-0			ND		0.56	0.17
Benzyl Alcohol	100-51-6			ND		0.17	0.052
Carbazole	86-74-8			0.02	J	0.17	0.017
1,4-Dioxane	123-91-1		0.1	ND		0.026	0.0079
Total SVOCs				1.645	-	-	-
CHLORINATED HERBICIDES BY GC							
2,4-D	94-75-7			ND		0.171	0.0108
2,4,5-T	93-76-5			ND		0.171	0.0053
2,4,5-TP (Silvex)	93-72-1		3.8	ND		0.171	0.00455

ORGANOCHLORINE PESTICIDES BY GC							
Delta-BHC	319-86-8		0.04	ND		0.00165	0.000323
Lindane	58-89-9		0.1	ND		0.000687	0.000307
Alpha-BHC	319-84-6		0.02	ND		0.000687	0.000195
Beta-BHC	319-85-7		0.036	ND		0.00165	0.000625
Heptachlor	76-44-8		0.042	ND		0.000825	0.00037
Aldrin	309-00-2		0.005	ND		0.00165	0.000581
Heptachlor epoxide	1024-57-3			ND		0.00309	0.000928
Endrin	72-20-8		0.014	ND		0.000687	0.000282
Endrin aldehyde	7421-93-4			ND		0.00206	0.000722
Endrin ketone	53494-70-5			ND		0.00165	0.000425
Dieldrin	60-57-1		0.005	ND		0.00103	0.000515
4,4'-DDE	72-55-9		0.0033	ND		0.00165	0.000381
4,4'-DDD	72-54-8		0.0033	ND		0.00165	0.000588
4,4'-DDT	50-29-3		0.0033	ND		0.00165	0.00133
Endosulfan I	959-98-8		2.4	ND		0.00165	0.00039
Endosulfan II	33213-65-9		2.4	ND		0.00165	0.000551
Endosulfan sulfate	1031-07-8		2.4	ND		0.000687	0.000327
Methoxychlor	72-43-5			ND		0.00309	0.000962
Toxaphene	8001-35-2			ND		0.0309	0.00866
cis-Chlordane	5103-71-9		0.094	ND		0.00206	0.000574
trans-Chlordane	5103-74-2			ND		0.00206	0.000544
Chlordane	57-74-9			ND		0.0137	0.00546
POLYCHLORINATED BIPHENYLS BY GC							
Aroclor 1016	12674-11-2		0.1	ND		0.0514	0.00456
Aroclor 1221	11104-28-2		0.1	ND		0.0514	0.00514
Aroclor 1232	11141-16-5		0.1	ND		0.0514	0.0109
Aroclor 1242	53469-21-9		0.1	ND		0.0514	0.00692
Aroclor 1248	12672-29-6		0.1	ND		0.0514	0.0077
Aroclor 1254	11097-69-1		0.1	ND		0.0514	0.00562
Aroclor 1260	11096-82-5		0.1	ND		0.0514	0.00949
Aroclor 1262	37324-23-5		0.1	ND		0.0514	0.00652
Aroclor 1268	11100-14-4		0.1	ND		0.0514	0.00532
PCBs, Total	1336-36-3		0.1	ND		0.0514	0.00456
GENERAL CHEMISTRY							
Chromium, Trivalent	16065-83-1		30	6.46	J	0.844	0.169
Solids, Total	NONE			94.8		0.1	NA
Cyanide, Total	57-12-5		27	ND		1	0.21
Chromium, Hexavalent	18540-29-9		1	0.285	J	0.844	0.169
TOTAL METALS							
Arsenic, Total	7440-38-2		13	2.26		0.827	0.172
Barium, Total	7440-39-3		350	25.7		0.827	0.144
Beryllium, Total	7440-41-7		7.2	0.202	J	0.414	0.027
Cadmium, Total	7440-43-9		2.5	ND		0.827	0.081
Chromium, Total	7440-47-3			6.74		0.827	0.079
Copper, Total	7440-50-8		50	10.9		0.827	0.213
Lead, Total	7439-92-1		63	8.6		4.14	0.222
Manganese, Total	7439-96-5		1600	212		0.827	0.132
Mercury, Total	7439-97-6		0.18	ND		0.068	0.044
Nickel, Total	7440-02-0		30	9.01		2.07	0.2
Selenium, Total	7782-49-2		3.9	ND		1.65	0.213
Silver, Total	7440-22-4		2	ND		0.414	0.234
Zinc, Total	7440-66-6		109	45.5		4.14	0.242

ATTACHMENTS

Attachment-A

Waste Manifest

Tank Cleaning Disposal

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number NYD085503746	2. Page 1 of	3. Emergency Response Phone 914-254-5367	4. Waste Tracking Number WO21659-1

5. Generator's Name and Mailing Address: INDIAN POINT ENERGY CENTER
HULTEC INT.
450 BROADWAY, BUCHANAN NY 10511
Generator's Phone: BRIAN DULLEY 914-254-5367

Generator's Site Address (if different than mailing address): GT'S OIL WATER SEPARATOR
IP2-DEMO-1212-0016

6. Transporter 1 Company Name: CHAMPION ENVIRONMENTAL SERVICES
U.S. EPA ID Number: NYR000188490

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: TRADEBE
136 GRACEY AVE
MERIDEN, CT 06451
Facility's Phone:
U.S. EPA ID Number: CTD021816889

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	NON HAZ/NON DOT REGULATED LIQUIDS	1	FT	1,300	G.
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
9.1) Oily Water.
PROFILE # 1000120701.
REF: 4003336.
TRUCK #
PLATE #
WO 21659.
PO 37720

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Generator's/Offeror's Printed/Typed Name: ON BEHALF OF HULTEC Pedro Guerra
Signature
Month: 4 Day: 24 Year: 24

INTL
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of Entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER
16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: LUKASZ GORDNICZAK
Signature
Month: 4 Day: 24 Year: 24
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY
17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Marissa Hogan
Signature
Month: 4 Day: 24 Year: 24

Attachment-B

Endpoint and Stockpile

Lab Data Package

ANALYTICAL REPORT

Lab Number:	L2420570
Client:	NB-Holtec Decommissioning International 1 Holtec Blvd. Camden, NJ 08104
ATTN:	Carlos Garcia
Phone:	(631) 589-6521
Project Name:	70294094
Project Number:	70294094
Report Date:	04/23/24

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 70294094
Project Number: 70294094

Lab Number: L2420570
Report Date: 04/23/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2420570-01	EP-1	SOIL	NY	04/10/24 10:00	04/15/24
L2420570-02	EP-2	SOIL	NY	04/10/24 10:15	04/15/24
L2420570-03	N-SIDEWALL	SOIL	NY	04/10/24 10:30	04/15/24
L2420570-04	S-SIDEWALL	SOIL	NY	04/10/24 10:45	04/15/24
L2420570-05	E-SIDEWALL	SOIL	NY	04/10/24 11:00	04/15/24
L2420570-06	W-SIDEWALL	SOIL	NY	04/10/24 11:15	04/15/24
L2420570-07	L-1	SOIL	NY	04/10/24 11:30	04/15/24
L2420570-08	L-2	SOIL	NY	04/10/24 11:45	04/15/24
L2420570-09	STOCKPILE	SOIL	NY	04/10/24 11:50	04/15/24

Project Name:	70294094	**Lab Number:**	L2420570
Project Number:	70294094	**Report Date:**	04/23/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	70294094	**Lab Number:**	L2420570
Project Number:	70294094	**Report Date:**	04/23/24

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L2420570-09: The water-preserved VOA vials for Volatile Organics Low-Level analysis were received at the laboratory beyond the 48 hour holding time required for freezing. The client was notified and the results of the analysis are reported.

L2420570-09: The following analyses were requested on the Chain of Custody; however, sample containers were not initially received: Semivolatile Organics, PCBs, Pesticides, Herbicides, Total Metals, Total Cyanide, and Hexavlanet Chromium.

Volatile Organics

L2420570-01 through -08: Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

Semivolatile Organics

The WG1909584-2 LCS recovery, associated with L2420570-01 through -08, is below the acceptance criteria for benzoic acid (8%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

Total Metals

L2420570-01 through -09: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the sample matrix.

The WG1910342-3 MS recoveries, performed on L2420570-09, are outside the acceptance criteria for arsenic (130%), chromium (132%), copper (156%), and zinc (135%). A post digestion spike was performed and was within acceptance criteria.

Project Name:	70294094	**Lab Number:**	L2420570
Project Number:	70294094	**Report Date:**	04/23/24

Case Narrative (continued)

The WG1910342-3 MS recovery for, manganese (440%) performed on L2420570-09, does not apply because the sample concentration is greater than four times the spike amount added.

The WG1910342-4 Laboratory Duplicate RPDs for arsenic (23%), copper (57%), and lead (23%), performed on L2420570-09, are outside the acceptance criteria. The elevated RPDs have been attributed to the non-homogeneous nature of the native sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative Date: 04/23/24

ORGANICS

VOLATILES

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-01
Client ID: EP-1
Sample Location: NY

Date Collected: 04/10/24 10:00
Date Received: 04/15/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/18/24 13:02
Analyst: LAC
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	4.8	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.96	0.14	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.96	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.96	0.12	1
Dibromochloromethane	ND		ug/kg	0.96	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.96	0.26	1
Tetrachloroethene	ND		ug/kg	0.48	0.19	1
Chlorobenzene	ND		ug/kg	0.48	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.8	0.67	1
1,2-Dichloroethane	ND		ug/kg	0.96	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	0.16	1
Bromodichloromethane	ND		ug/kg	0.48	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.96	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.48	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.48	0.15	1
Bromoform	ND		ug/kg	3.8	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	0.16	1
Benzene	ND		ug/kg	0.48	0.16	1
Toluene	ND		ug/kg	0.96	0.52	1
Ethylbenzene	ND		ug/kg	0.96	0.14	1
Chloromethane	ND		ug/kg	3.8	0.90	1
Bromomethane	ND		ug/kg	1.9	0.56	1
Vinyl chloride	ND		ug/kg	0.96	0.32	1
Chloroethane	ND		ug/kg	1.9	0.43	1
1,1-Dichloroethene	ND		ug/kg	0.96	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-01 Date Collected: 04/10/24 10:00

Client ID: EP-1 Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/kg	0.48	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.19	1
p/m-Xylene	ND		ug/kg	1.9	0.54	1
o-Xylene	ND		ug/kg	0.96	0.28	1
Xylenes, Total	ND		ug/kg	0.96	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.96	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.96	0.13	1
Dibromomethane	ND		ug/kg	1.9	0.23	1
Styrene	ND		ug/kg	0.96	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.6	0.88	1
Acetone	ND		ug/kg	9.6	4.6	1
Carbon disulfide	ND		ug/kg	9.6	4.4	1
2-Butanone	ND		ug/kg	9.6	2.1	1
Vinyl acetate	ND		ug/kg	9.6	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.6	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	0.12	1
2-Hexanone	ND		ug/kg	9.6	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.20	1
2,2-Dichloropropane	ND		ug/kg	1.9	0.19	1
1,2-Dibromoethane	ND		ug/kg	0.96	0.27	1
1,3-Dichloropropane	ND		ug/kg	1.9	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.48	0.13	1
Bromobenzene	ND		ug/kg	1.9	0.14	1
n-Butylbenzene	ND		ug/kg	0.96	0.16	1
sec-Butylbenzene	ND		ug/kg	0.96	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
o-Chlorotoluene	ND		ug/kg	1.9	0.18	1
p-Chlorotoluene	ND		ug/kg	1.9	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.96	1
Hexachlorobutadiene	ND		ug/kg	3.8	0.16	1
Isopropylbenzene	ND		ug/kg	0.96	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.96	0.10	1
Naphthalene	ND		ug/kg	3.8	0.62	1
Acrylonitrile	ND		ug/kg	3.8	1.1	1

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-01 Date Collected: 04/10/24 10:00

Client ID: EP-1 Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.96	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.32	1
1,4-Dioxane	ND		ug/kg	77	34.	1
p-Diethylbenzene	ND		ug/kg	1.9	0.17	1
p-Ethyltoluene	ND		ug/kg	1.9	0.37	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.9	0.18	1
Ethyl ether	ND		ug/kg	1.9	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.8	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	87		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	123		70-130

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-02
Client ID: EP-2
Sample Location: NY

Date Collected: 04/10/24 10:15
Date Received: 04/15/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/18/24 13:22
Analyst: LAC
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	ND		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.73	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.18	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.52	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.52	0.17	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.57	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.2	0.98	1
Bromomethane	ND		ug/kg	2.1	0.61	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-02 Date Collected: 04/10/24 10:15

Client ID: EP-2 Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.59	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.96	1
Acetone	6.2	J	ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.8	1
2-Butanone	ND		ug/kg	10	2.3	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.52	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.18	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.2	0.18	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.2	0.68	1
Acrylonitrile	ND		ug/kg	4.2	1.2	1

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-02 Date Collected: 04/10/24 10:15

Client ID: EP-2 Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.35	1
1,4-Dioxane	ND		ug/kg	84	37.	1
p-Diethylbenzene	ND		ug/kg	2.1	0.18	1
p-Ethyltoluene	ND		ug/kg	2.1	0.40	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.2	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**139**	Q	70-130
Toluene-d8	89		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	**136**	Q	70-130

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-03
Client ID: N-SIDEWALL
Sample Location: NY

Date Collected: 04/10/24 10:30
Date Received: 04/15/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/18/24 13:43
Analyst: LAC
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.1	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	ND		ug/kg	0.51	0.20	1
Chlorobenzene	ND		ug/kg	0.51	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.1	0.71	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.51	0.17	1
Bromodichloromethane	ND		ug/kg	0.51	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.51	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.51	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.51	0.16	1
Bromoform	ND		ug/kg	4.1	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.51	0.17	1
Benzene	ND		ug/kg	0.51	0.17	1
Toluene	ND		ug/kg	1.0	0.56	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.1	0.96	1
Bromomethane	ND		ug/kg	2.0	0.60	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-03 Date Collected: 04/10/24 10:30

Client ID: N-SIDEWALL Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/kg	0.51	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.57	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.94	1
Acetone	ND		ug/kg	10	4.9	1
Carbon disulfide	ND		ug/kg	10	4.7	1
2-Butanone	ND		ug/kg	10	2.3	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.51	0.14	1
Bromobenzene	ND		ug/kg	2.0	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.20	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.1	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.1	0.67	1
Acrylonitrile	ND		ug/kg	4.1	1.2	1

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-03 Date Collected: 04/10/24 10:30

Client ID: N-SIDEWALL Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.34	1
1,4-Dioxane	ND		ug/kg	82	36.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.18	1
p-Ethyltoluene	ND		ug/kg	2.0	0.39	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.20	1
Ethyl ether	ND		ug/kg	2.0	0.35	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.1	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**141**	Q	70-130
Toluene-d8	89		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	130		70-130

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-04
Client ID: S-SIDEWALL
Sample Location: NY

Date Collected: 04/10/24 10:45
Date Received: 04/15/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/18/24 14:04
Analyst: LAC
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	4.9	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.99	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.99	0.23	1
1,2-Dichloropropane	ND		ug/kg	0.99	0.12	1
Dibromochloromethane	ND		ug/kg	0.99	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.99	0.26	1
Tetrachloroethene	ND		ug/kg	0.49	0.19	1
Chlorobenzene	ND		ug/kg	0.49	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.9	0.68	1
1,2-Dichloroethane	ND		ug/kg	0.99	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.49	0.16	1
Bromodichloromethane	ND		ug/kg	0.49	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.99	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.49	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.49	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.49	0.16	1
Bromoform	ND		ug/kg	3.9	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.49	0.16	1
Benzene	ND		ug/kg	0.49	0.16	1
Toluene	ND		ug/kg	0.99	0.54	1
Ethylbenzene	ND		ug/kg	0.99	0.14	1
Chloromethane	ND		ug/kg	3.9	0.92	1
Bromomethane	ND		ug/kg	2.0	0.57	1
Vinyl chloride	ND		ug/kg	0.99	0.33	1
Chloroethane	ND		ug/kg	2.0	0.45	1
1,1-Dichloroethene	ND		ug/kg	0.99	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-04 Date Collected: 04/10/24 10:45

Client ID: S-SIDEWALL Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/kg	0.49	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.55	1
o-Xylene	ND		ug/kg	0.99	0.29	1
Xylenes, Total	ND		ug/kg	0.99	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	0.99	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.99	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.23	1
Styrene	ND		ug/kg	0.99	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.9	0.90	1
Acetone	ND		ug/kg	9.9	4.7	1
Carbon disulfide	ND		ug/kg	9.9	4.5	1
2-Butanone	ND		ug/kg	9.9	2.2	1
Vinyl acetate	ND		ug/kg	9.9	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.9	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.12	1
2-Hexanone	ND		ug/kg	9.9	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.99	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.49	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.14	1
n-Butylbenzene	ND		ug/kg	0.99	0.16	1
sec-Butylbenzene	ND		ug/kg	0.99	0.14	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	0.98	1
Hexachlorobutadiene	ND		ug/kg	3.9	0.17	1
Isopropylbenzene	ND		ug/kg	0.99	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.99	0.11	1
Naphthalene	ND		ug/kg	3.9	0.64	1
Acrylonitrile	ND		ug/kg	3.9	1.1	1

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-04 Date Collected: 04/10/24 10:45

Client ID: S-SIDEWALL Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.99	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33	1
1,4-Dioxane	ND		ug/kg	79	35.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.17	1
p-Ethyltoluene	ND		ug/kg	2.0	0.38	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.9	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	129		70-130
Toluene-d8	88		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	126		70-130

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-05
Client ID: E-SIDEWALL
Sample Location: NY

Date Collected: 04/10/24 11:00
Date Received: 04/15/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/18/24 14:25
Analyst: LAC
Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	4.6	2.1	1
1,1-Dichloroethane	ND		ug/kg	0.92	0.13	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.92	0.21	1
1,2-Dichloropropane	ND		ug/kg	0.92	0.11	1
Dibromochloromethane	ND		ug/kg	0.92	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.92	0.24	1
Tetrachloroethene	ND		ug/kg	0.46	0.18	1
Chlorobenzene	ND		ug/kg	0.46	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.7	0.64	1
1,2-Dichloroethane	ND		ug/kg	0.92	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.46	0.15	1
Bromodichloromethane	ND		ug/kg	0.46	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.92	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	0.46	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	0.46	0.14	1
1,1-Dichloropropene	ND		ug/kg	0.46	0.15	1
Bromoform	ND		ug/kg	3.7	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.46	0.15	1
Benzene	ND		ug/kg	0.46	0.15	1
Toluene	ND		ug/kg	0.92	0.50	1
Ethylbenzene	ND		ug/kg	0.92	0.13	1
Chloromethane	ND		ug/kg	3.7	0.86	1
Bromomethane	ND		ug/kg	1.8	0.53	1
Vinyl chloride	ND		ug/kg	0.92	0.31	1
Chloroethane	ND		ug/kg	1.8	0.42	1
1,1-Dichloroethene	ND		ug/kg	0.92	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.12	1

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-05 Date Collected: 04/10/24 11:00

Client ID: E-SIDEWALL Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/kg	0.46	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.18	1
p/m-Xylene	ND		ug/kg	1.8	0.51	1
o-Xylene	ND		ug/kg	0.92	0.27	1
Xylenes, Total	ND		ug/kg	0.92	0.27	1
cis-1,2-Dichloroethene	ND		ug/kg	0.92	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	0.92	0.12	1
Dibromomethane	ND		ug/kg	1.8	0.22	1
Styrene	ND		ug/kg	0.92	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.2	0.84	1
Acetone	ND		ug/kg	9.2	4.4	1
Carbon disulfide	ND		ug/kg	9.2	4.2	1
2-Butanone	ND		ug/kg	9.2	2.0	1
Vinyl acetate	ND		ug/kg	9.2	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.2	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.8	0.12	1
2-Hexanone	ND		ug/kg	9.2	1.1	1
Bromochloromethane	ND		ug/kg	1.8	0.19	1
2,2-Dichloropropane	ND		ug/kg	1.8	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.92	0.26	1
1,3-Dichloropropane	ND		ug/kg	1.8	0.15	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.46	0.12	1
Bromobenzene	ND		ug/kg	1.8	0.13	1
n-Butylbenzene	ND		ug/kg	0.92	0.15	1
sec-Butylbenzene	ND		ug/kg	0.92	0.13	1
tert-Butylbenzene	ND		ug/kg	1.8	0.11	1
o-Chlorotoluene	ND		ug/kg	1.8	0.18	1
p-Chlorotoluene	ND		ug/kg	1.8	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	0.92	1
Hexachlorobutadiene	ND		ug/kg	3.7	0.16	1
Isopropylbenzene	ND		ug/kg	0.92	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.92	0.10	1
Naphthalene	ND		ug/kg	3.7	0.60	1
Acrylonitrile	ND		ug/kg	3.7	1.0	1

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-05 Date Collected: 04/10/24 11:00

Client ID: E-SIDEWALL Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.92	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.25	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.8	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.8	0.31	1
1,4-Dioxane	ND		ug/kg	74	32.	1
p-Diethylbenzene	ND		ug/kg	1.8	0.16	1
p-Ethyltoluene	ND		ug/kg	1.8	0.35	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.8	0.18	1
Ethyl ether	ND		ug/kg	1.8	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.6	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**139**	Q	70-130
Toluene-d8	87		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	**131**	Q	70-130

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-06
Client ID: W-SIDEWALL
Sample Location: NY

Date Collected: 04/10/24 11:15
Date Received: 04/15/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/18/24 14:46
Analyst: LAC
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.12	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.26	1
Tetrachloroethene	ND		ug/kg	0.50	0.20	1
Chlorobenzene	ND		ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.69	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.16	1
Benzene	ND		ug/kg	0.50	0.16	1
Toluene	ND		ug/kg	1.0	0.54	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.0	0.93	1
Bromomethane	ND		ug/kg	2.0	0.58	1
Vinyl chloride	ND		ug/kg	1.0	0.33	1
Chloroethane	ND		ug/kg	2.0	0.45	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-06 Date Collected: 04/10/24 11:15

Client ID: W-SIDEWALL Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.56	1
o-Xylene	ND		ug/kg	1.0	0.29	1
Xylenes, Total	ND		ug/kg	1.0	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.91	1
Acetone	ND		ug/kg	10	4.8	1
Carbon disulfide	ND		ug/kg	10	4.5	1
2-Butanone	ND		ug/kg	10	2.2	1
Vinyl acetate	ND		ug/kg	10	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.14	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.14	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	0.99	1
Hexachlorobutadiene	ND		ug/kg	4.0	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.0	0.65	1
Acrylonitrile	ND		ug/kg	4.0	1.1	1

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-06 Date Collected: 04/10/24 11:15

Client ID: W-SIDEWALL Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33	1
1,4-Dioxane	ND		ug/kg	80	35.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.18	1
p-Ethyltoluene	ND		ug/kg	2.0	0.38	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**135**	Q	70-130
Toluene-d8	86		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	126		70-130

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-07
Client ID: L-1
Sample Location: NY

Date Collected: 04/10/24 11:30
Date Received: 04/15/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/18/24 15:07
Analyst: LAC
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	4.7	2.1	1
1,1-Dichloroethane	ND		ug/kg	0.94	0.14	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.94	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.94	0.12	1
Dibromochloromethane	ND		ug/kg	0.94	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.94	0.25	1
Tetrachloroethene	ND		ug/kg	0.47	0.18	1
Chlorobenzene	ND		ug/kg	0.47	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.8	0.65	1
1,2-Dichloroethane	ND		ug/kg	0.94	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.47	0.16	1
Bromodichloromethane	ND		ug/kg	0.47	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.94	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.47	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.47	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.47	0.15	1
Bromoform	ND		ug/kg	3.8	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.47	0.16	1
Benzene	ND		ug/kg	0.47	0.16	1
Toluene	ND		ug/kg	0.94	0.51	1
Ethylbenzene	ND		ug/kg	0.94	0.13	1
Chloromethane	ND		ug/kg	3.8	0.87	1
Bromomethane	ND		ug/kg	1.9	0.54	1
Vinyl chloride	ND		ug/kg	0.94	0.31	1
Chloroethane	ND		ug/kg	1.9	0.42	1
1,1-Dichloroethene	ND		ug/kg	0.94	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-07 Date Collected: 04/10/24 11:30

Client ID: L-1 Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/kg	0.47	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.19	1
p/m-Xylene	ND		ug/kg	1.9	0.52	1
o-Xylene	ND		ug/kg	0.94	0.27	1
Xylenes, Total	ND		ug/kg	0.94	0.27	1
cis-1,2-Dichloroethene	ND		ug/kg	0.94	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	0.94	0.13	1
Dibromomethane	ND		ug/kg	1.9	0.22	1
Styrene	ND		ug/kg	0.94	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.4	0.86	1
Acetone	ND		ug/kg	9.4	4.5	1
Carbon disulfide	ND		ug/kg	9.4	4.3	1
2-Butanone	ND		ug/kg	9.4	2.1	1
Vinyl acetate	ND		ug/kg	9.4	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.4	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	0.12	1
2-Hexanone	ND		ug/kg	9.4	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.19	1
2,2-Dichloropropane	ND		ug/kg	1.9	0.19	1
1,2-Dibromoethane	ND		ug/kg	0.94	0.26	1
1,3-Dichloropropane	ND		ug/kg	1.9	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.47	0.12	1
Bromobenzene	ND		ug/kg	1.9	0.14	1
n-Butylbenzene	ND		ug/kg	0.94	0.16	1
sec-Butylbenzene	ND		ug/kg	0.94	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
o-Chlorotoluene	ND		ug/kg	1.9	0.18	1
p-Chlorotoluene	ND		ug/kg	1.9	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	0.94	1
Hexachlorobutadiene	ND		ug/kg	3.8	0.16	1
Isopropylbenzene	ND		ug/kg	0.94	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.94	0.10	1
Naphthalene	ND		ug/kg	3.8	0.61	1
Acrylonitrile	ND		ug/kg	3.8	1.1	1

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-07 Date Collected: 04/10/24 11:30

Client ID: L-1 Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.94	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.31	1
1,4-Dioxane	ND		ug/kg	75	33.	1
p-Diethylbenzene	ND		ug/kg	1.9	0.17	1
p-Ethyltoluene	ND		ug/kg	1.9	0.36	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.9	0.18	1
Ethyl ether	ND		ug/kg	1.9	0.32	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.7	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**134**	Q	70-130
Toluene-d8	86		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	127		70-130

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-08
Client ID: L-2
Sample Location: NY

Date Collected: 04/10/24 11:45
Date Received: 04/15/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/18/24 15:28
Analyst: LAC
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	4.7	2.1	1
1,1-Dichloroethane	ND		ug/kg	0.93	0.14	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.93	0.21	1
1,2-Dichloropropane	ND		ug/kg	0.93	0.12	1
Dibromochloromethane	ND		ug/kg	0.93	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.93	0.25	1
Tetrachloroethene	ND		ug/kg	0.47	0.18	1
Chlorobenzene	ND		ug/kg	0.47	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.7	0.65	1
1,2-Dichloroethane	ND		ug/kg	0.93	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.47	0.16	1
Bromodichloromethane	ND		ug/kg	0.47	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.93	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	0.47	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.47	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.47	0.15	1
Bromoform	ND		ug/kg	3.7	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.47	0.15	1
Benzene	ND		ug/kg	0.47	0.15	1
Toluene	ND		ug/kg	0.93	0.51	1
Ethylbenzene	ND		ug/kg	0.93	0.13	1
Chloromethane	ND		ug/kg	3.7	0.87	1
Bromomethane	ND		ug/kg	1.9	0.54	1
Vinyl chloride	ND		ug/kg	0.93	0.31	1
Chloroethane	ND		ug/kg	1.9	0.42	1
1,1-Dichloroethene	ND		ug/kg	0.93	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-08 Date Collected: 04/10/24 11:45

Client ID: L-2 Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/kg	0.47	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.13	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.19	1
p/m-Xylene	ND		ug/kg	1.9	0.52	1
o-Xylene	ND		ug/kg	0.93	0.27	1
Xylenes, Total	ND		ug/kg	0.93	0.27	1
cis-1,2-Dichloroethene	ND		ug/kg	0.93	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	0.93	0.13	1
Dibromomethane	ND		ug/kg	1.9	0.22	1
Styrene	ND		ug/kg	0.93	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.3	0.85	1
Acetone	ND		ug/kg	9.3	4.5	1
Carbon disulfide	ND		ug/kg	9.3	4.2	1
2-Butanone	ND		ug/kg	9.3	2.1	1
Vinyl acetate	ND		ug/kg	9.3	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.3	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	0.12	1
2-Hexanone	ND		ug/kg	9.3	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.19	1
2,2-Dichloropropane	ND		ug/kg	1.9	0.19	1
1,2-Dibromoethane	ND		ug/kg	0.93	0.26	1
1,3-Dichloropropane	ND		ug/kg	1.9	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.47	0.12	1
Bromobenzene	ND		ug/kg	1.9	0.14	1
n-Butylbenzene	ND		ug/kg	0.93	0.16	1
sec-Butylbenzene	ND		ug/kg	0.93	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
o-Chlorotoluene	ND		ug/kg	1.9	0.18	1
p-Chlorotoluene	ND		ug/kg	1.9	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	0.93	1
Hexachlorobutadiene	ND		ug/kg	3.7	0.16	1
Isopropylbenzene	ND		ug/kg	0.93	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.93	0.10	1
Naphthalene	ND		ug/kg	3.7	0.60	1
Acrylonitrile	ND		ug/kg	3.7	1.1	1

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-08 Date Collected: 04/10/24 11:45

Client ID: L-2 Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.93	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.25	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.31	1
1,4-Dioxane	ND		ug/kg	74	33.	1
p-Diethylbenzene	ND		ug/kg	1.9	0.16	1
p-Ethyltoluene	ND		ug/kg	1.9	0.36	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.9	0.18	1
Ethyl ether	ND		ug/kg	1.9	0.32	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.7	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**133**	Q	70-130
Toluene-d8	88		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	126		70-130

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-09
Client ID: STOCKPILE
Sample Location: NY

Date Collected: 04/10/24 11:50
Date Received: 04/15/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/18/24 15:49
Analyst: LAC
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	ND		ug/kg	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.3	0.76	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Bromodichloromethane	ND		ug/kg	0.54	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.54	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.54	0.17	1
Bromoform	ND		ug/kg	4.3	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.54	0.18	1
Benzene	ND		ug/kg	0.54	0.18	1
Toluene	ND		ug/kg	1.1	0.59	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.3	1.0	1
Bromomethane	ND		ug/kg	2.2	0.63	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.2	0.49	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-09 Date Collected: 04/10/24 11:50

Client ID: STOCKPILE Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.54	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.61	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.2	1
Carbon disulfide	ND		ug/kg	11	4.9	1
2-Butanone	ND		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.54	0.14	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.3	0.18	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.3	0.71	1
Acrylonitrile	ND		ug/kg	4.3	1.2	1

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-09 Date Collected: 04/10/24 11:50

Client ID: STOCKPILE Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.36	1
1,4-Dioxane	ND		ug/kg	87	38.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.19	1
p-Ethyltoluene	ND		ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.37	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**135**	Q	70-130
Toluene-d8	89		70-130
4-Bromofluorobenzene	86		70-130
Dibromofluoromethane	126		70-130

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/18/24 09:12
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1910681-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/18/24 09:12
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1910681-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/18/24 09:12
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1910681-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	129		70-130
Toluene-d8	88		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	113		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 70294094
Project Number: 70294094

Lab Number: L2420570
Report Date: 04/23/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1910681-3 WG1910681-4								
Methylene chloride	92		90		70-130	2		30
1,1-Dichloroethane	101		98		70-130	3		30
Chloroform	98		96		70-130	2		30
Carbon tetrachloride	83		80		70-130	4		30
1,2-Dichloropropane	95		96		70-130	1		30
Dibromochloromethane	87		84		70-130	4		30
1,1,2-Trichloroethane	92		92		70-130	0		30
Tetrachloroethene	97		90		70-130	7		30
Chlorobenzene	93		91		70-130	2		30
Trichlorofluoromethane	95		91		70-139	4		30
1,2-Dichloroethane	99		102		70-130	3		30
1,1,1-Trichloroethane	97		94		70-130	3		30
Bromodichloromethane	93		91		70-130	2		30
trans-1,3-Dichloropropene	91		94		70-130	3		30
cis-1,3-Dichloropropene	97		98		70-130	1		30
1,1-Dichloropropene	91		89		70-130	2		30
Bromoform	79		79		70-130	0		30
1,1,2,2-Tetrachloroethane	78		82		70-130	5		30
Benzene	97		95		70-130	2		30
Toluene	90		86		70-130	5		30
Ethylbenzene	88		86		70-130	2		30
Chloromethane	112		106		52-130	6		30
Bromomethane	100		93		57-147	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 70294094

Project Number: 70294094

Lab Number: L2420570

Report Date: 04/23/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1910681-3 WG1910681-4								
Vinyl chloride	102		94		67-130	8		30
Chloroethane	88		83		50-151	6		30
1,1-Dichloroethene	94		93		65-135	1		30
trans-1,2-Dichloroethene	95		88		70-130	8		30
Trichloroethene	100		96		70-130	4		30
1,2-Dichlorobenzene	91		91		70-130	0		30
1,3-Dichlorobenzene	93		93		70-130	0		30
1,4-Dichlorobenzene	94		92		70-130	2		30
Methyl tert butyl ether	89		89		66-130	0		30
p/m-Xylene	98		95		70-130	3		30
o-Xylene	95		92		70-130	3		30
cis-1,2-Dichloroethene	91		93		70-130	2		30
Dibromomethane	96		99		70-130	3		30
Styrene	102		98		70-130	4		30
Dichlorodifluoromethane	131		119		30-146	10		30
Acetone	76		81		54-140	6		30
Carbon disulfide	99		94		59-130	5		30
2-Butanone	70		78		70-130	11		30
Vinyl acetate	88		89		70-130	1		30
4-Methyl-2-pentanone	**68**	Q	74		70-130	8		30
1,2,3-Trichloropropane	70		77		68-130	10		30
2-Hexanone	**62**	Q	72		70-130	15		30
Bromochloromethane	100		100		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 70294094
Project Number: 70294094

Lab Number: L2420570
Report Date: 04/23/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1910681-3 WG1910681-4								
2,2-Dichloropropane	106		102		70-130	4		30
1,2-Dibromoethane	89		90		70-130	1		30
1,3-Dichloropropane	92		91		69-130	1		30
1,1,1,2-Tetrachloroethane	91		91		70-130	0		30
Bromobenzene	88		88		70-130	0		30
n-Butylbenzene	90		88		70-130	2		30
sec-Butylbenzene	85		84		70-130	1		30
tert-Butylbenzene	82		81		70-130	1		30
o-Chlorotoluene	102		98		70-130	4		30
p-Chlorotoluene	88		89		70-130	1		30
1,2-Dibromo-3-chloropropane	68		71		68-130	4		30
Hexachlorobutadiene	84		80		67-130	5		30
Isopropylbenzene	82		81		70-130	1		30
p-Isopropyltoluene	88		86		70-130	2		30
Naphthalene	75		83		70-130	10		30
Acrylonitrile	78		83		70-130	6		30
n-Propylbenzene	85		82		70-130	4		30
1,2,3-Trichlorobenzene	94		99		70-130	5		30
1,2,4-Trichlorobenzene	97		98		70-130	1		30
1,3,5-Trimethylbenzene	90		86		70-130	5		30
1,2,4-Trimethylbenzene	90		89		70-130	1		30
1,4-Dioxane	**64**	Q	77		65-136	18		30
p-Diethylbenzene	86		85		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 70294094
Project Number: 70294094

Lab Number: L2420570
Report Date: 04/23/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1910681-3 WG1910681-4								
p-Ethyltoluene	87		85		70-130	2		30
1,2,4,5-Tetramethylbenzene	82		83		70-130	1		30
Ethyl ether	102		100		67-130	2		30
trans-1,4-Dichloro-2-butene	75		79		70-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		106		70-130
Toluene-d8	94		92		70-130
4-Bromofluorobenzene	87		90		70-130
Dibromofluoromethane	104		103		70-130

SEMIVOLATILES

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-01
Client ID: EP-1
Sample Location: NY

Date Collected: 04/10/24 10:00
Date Received: 04/15/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/18/24 15:37
Analyst: JG
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 04/17/24 06:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	32	J	ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	860		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	66.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-01 Date Collected: 04/10/24 10:00

Client ID: EP-1 Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	510		ug/kg	110	21.	1
Benzo(a)pyrene	540		ug/kg	150	46.	1
Benzo(b)fluoranthene	680		ug/kg	110	32.	1
Benzo(k)fluoranthene	250		ug/kg	110	30.	1
Chrysene	520		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	67	J	ug/kg	110	37.	1
Benzo(ghi)perylene	280		ug/kg	150	22.	1
Fluorene	18	J	ug/kg	190	18.	1
Phenanthrene	330		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	92	J	ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	260		ug/kg	150	26.	1
Pyrene	760		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	25.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	63.	1
2-Nitrophenol	ND		ug/kg	410	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	910	88.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	91.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-01 Date Collected: 04/10/24 10:00

Client ID: EP-1 Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	620	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	88	J	ug/kg	190	18.	1
1,4-Dioxane	ND		ug/kg	28	8.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		25-120
Phenol-d6	48		10-120
Nitrobenzene-d5	47		23-120
2-Fluorobiphenyl	42		30-120
2,4,6-Tribromophenol	50		10-136
4-Terphenyl-d14	37		18-120

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-02
Client ID: EP-2
Sample Location: NY

Date Collected: 04/10/24 10:15
Date Received: 04/15/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/18/24 15:55
Analyst: JG
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 04/17/24 06:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	100	J	ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	62.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	61.	1

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-02 Date Collected: 04/10/24 10:15

Client ID: EP-2 Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	49	J	ug/kg	110	20.	1
Benzo(a)pyrene	58	J	ug/kg	140	44.	1
Benzo(b)fluoranthene	76	J	ug/kg	110	30.	1
Benzo(k)fluoranthene	36	J	ug/kg	110	29.	1
Chrysene	59	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	44	J	ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	39	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	35	J	ug/kg	140	25.	1
Pyrene	90	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	23.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	390	67.	1
4-Nitrophenol	ND		ug/kg	250	73.	1
2,4-Dinitrophenol	ND		ug/kg	860	84.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	86.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-02 Date Collected: 04/10/24 10:15

Client ID: EP-2 Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	55.	1
Carbazole	ND		ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	27	8.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		25-120
Phenol-d6	58		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	56		30-120
2,4,6-Tribromophenol	64		10-136
4-Terphenyl-d14	59		18-120

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-03
Client ID: N-SIDEWALL
Sample Location: NY

Date Collected: 04/10/24 10:30
Date Received: 04/15/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/18/24 16:13
Analyst: JG
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 04/17/24 06:52

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	17.	1
1,2-Dichlorobenzene	ND		ug/kg	180	31.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	160		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	44.	1
Di-n-butylphthalate	ND		ug/kg	180	33.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-03 Date Collected: 04/10/24 10:30

Client ID: N-SIDEWALL Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	78	J	ug/kg	100	20.	1
Benzo(a)pyrene	84	J	ug/kg	140	43.	1
Benzo(b)fluoranthene	120		ug/kg	100	30.	1
Benzo(k)fluoranthene	37	J	ug/kg	100	28.	1
Chrysene	88	J	ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	55	J	ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	71	J	ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	46	J	ug/kg	140	24.	1
Pyrene	150		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	400	23.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	72.	1
Dibenzofuran	ND		ug/kg	180	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	240	72.	1
2,4-Dinitrophenol	ND		ug/kg	840	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	84.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	180	26.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-03 Date Collected: 04/10/24 10:30

Client ID: N-SIDEWALL Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	ND		ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	26	8.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		25-120
Phenol-d6	61		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	57		30-120
2,4,6-Tribromophenol	62		10-136
4-Terphenyl-d14	56		18-120

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-04
Client ID: S-SIDEWALL
Sample Location: NY

Date Collected: 04/10/24 10:45
Date Received: 04/15/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/18/24 16:33
Analyst: JG
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 04/17/24 06:52

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	28	J	ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	1300		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	44.	1
Di-n-butylphthalate	ND		ug/kg	180	33.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-04 Date Collected: 04/10/24 10:45

Client ID: S-SIDEWALL Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	250		ug/kg	100	20.	1
Benzo(a)pyrene	370		ug/kg	140	43.	1
Benzo(b)fluoranthene	530		ug/kg	100	30.	1
Benzo(k)fluoranthene	250		ug/kg	100	28.	1
Chrysene	540		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	210		ug/kg	140	21.	1
Fluorene	27	J	ug/kg	180	17.	1
Phenanthrene	1100		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	66	J	ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	210		ug/kg	140	25.	1
Pyrene	960		ug/kg	100	18.	1
Biphenyl	ND		ug/kg	400	23.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	73.	1
Dibenzofuran	40	J	ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	850	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	85.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	28.	1

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-04 Date Collected: 04/10/24 10:45

Client ID: S-SIDEWALL Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	73	J	ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	26	8.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		25-120
Phenol-d6	60		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	58		30-120
2,4,6-Tribromophenol	62		10-136
4-Terphenyl-d14	55		18-120

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-05
Client ID: E-SIDEWALL
Sample Location: NY

Date Collected: 04/10/24 11:00
Date Received: 04/15/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/18/24 16:52
Analyst: JG
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 04/17/24 06:52

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	17.	1
1,2-Dichlorobenzene	ND		ug/kg	180	31.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	46.	1
2,4-Dinitrotoluene	ND		ug/kg	180	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	110		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	60.	1
Butyl benzyl phthalate	ND		ug/kg	180	44.	1
Di-n-butylphthalate	ND		ug/kg	180	33.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-05 Date Collected: 04/10/24 11:00

Client ID: E-SIDEWALL Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	53	J	ug/kg	100	20.	1
Benzo(a)pyrene	62	J	ug/kg	140	43.	1
Benzo(b)fluoranthene	86	J	ug/kg	100	29.	1
Benzo(k)fluoranthene	37	J	ug/kg	100	28.	1
Chrysene	66	J	ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	50	J	ug/kg	140	20.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	37	J	ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	40	J	ug/kg	140	24.	1
Pyrene	98	J	ug/kg	100	17.	1
Biphenyl	ND		ug/kg	400	23.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	72.	1
Dibenzofuran	ND		ug/kg	180	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	240	71.	1
2,4-Dinitrophenol	ND		ug/kg	840	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	84.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	180	26.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-05 Date Collected: 04/10/24 11:00

Client ID: E-SIDEWALL Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	ND		ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	26	8.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		25-120
Phenol-d6	55		10-120
Nitrobenzene-d5	55		23-120
2-Fluorobiphenyl	55		30-120
2,4,6-Tribromophenol	59		10-136
4-Terphenyl-d14	55		18-120

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-06
Client ID: W-SIDEWALL
Sample Location: NY

Date Collected: 04/10/24 11:15
Date Received: 04/15/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/18/24 17:12
Analyst: JG
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 04/17/24 06:52

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	30.	1
Fluoranthene	200		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	60.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	58.	1

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-06 Date Collected: 04/10/24 11:15

Client ID: W-SIDEWALL Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	97	J	ug/kg	100	19.	1
Benzo(a)pyrene	110	J	ug/kg	140	42.	1
Benzo(b)fluoranthene	150		ug/kg	100	29.	1
Benzo(k)fluoranthene	51	J	ug/kg	100	28.	1
Chrysene	110		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	26.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	70	J	ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	97	J	ug/kg	100	21.	1
Dibenzo(a,h)anthracene	20	J	ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	62	J	ug/kg	140	24.	1
Pyrene	180		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	22.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	71.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	370	65.	1
4-Nitrophenol	ND		ug/kg	240	70.	1
2,4-Dinitrophenol	ND		ug/kg	830	80.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	83.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-06 Date Collected: 04/10/24 11:15

Client ID: W-SIDEWALL Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	170	1
Benzyl Alcohol	ND		ug/kg	170	53.	1
Carbazole	17	J	ug/kg	170	17.	1
1,4-Dioxane	ND		ug/kg	26	7.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		25-120
Phenol-d6	68		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	64		30-120
2,4,6-Tribromophenol	60		10-136
4-Terphenyl-d14	61		18-120

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-07
Client ID: L-1
Sample Location: NY

Date Collected: 04/10/24 11:30
Date Received: 04/15/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/18/24 17:31
Analyst: JG
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 04/17/24 06:52

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	520		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-07 Date Collected: 04/10/24 11:30

Client ID: L-1 Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	340		ug/kg	110	20.	1
Benzo(a)pyrene	380		ug/kg	140	44.	1
Benzo(b)fluoranthene	450		ug/kg	110	31.	1
Benzo(k)fluoranthene	200		ug/kg	110	29.	1
Chrysene	360		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	49	J	ug/kg	110	36.	1
Benzo(ghi)perylene	220		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	180		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	68	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	190		ug/kg	140	25.	1
Pyrene	480		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	24.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	75.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	260	74.	1
2,4-Dinitrophenol	ND		ug/kg	870	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	87.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-07 Date Collected: 04/10/24 11:30

Client ID: L-1 Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	36	J	ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	27	8.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		25-120
Phenol-d6	64		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	72		10-136
4-Terphenyl-d14	60		18-120

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-08
Client ID: L-2
Sample Location: NY

Date Collected: 04/10/24 11:45
Date Received: 04/15/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/18/24 17:50
Analyst: JG
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 04/17/24 06:52

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	35.	1
2,6-Dinitrotoluene	ND		ug/kg	170	30.	1
Fluoranthene	220		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	60.	1
Butyl benzyl phthalate	ND		ug/kg	170	44.	1
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	59.	1

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-08 Date Collected: 04/10/24 11:45

Client ID: L-2 Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	91	J	ug/kg	100	20.	1
Benzo(a)pyrene	100	J	ug/kg	140	42.	1
Benzo(b)fluoranthene	150		ug/kg	100	29.	1
Benzo(k)fluoranthene	58	J	ug/kg	100	28.	1
Chrysene	120		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	77	J	ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	82	J	ug/kg	100	21.	1
Dibenzo(a,h)anthracene	20	J	ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	63	J	ug/kg	140	24.	1
Pyrene	190		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	400	22.	1
4-Chloroaniline	ND		ug/kg	170	32.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	33.	1
4-Nitroaniline	ND		ug/kg	170	72.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	380	65.	1
4-Nitrophenol	ND		ug/kg	240	71.	1
2,4-Dinitrophenol	ND		ug/kg	830	81.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	83.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-08 Date Collected: 04/10/24 11:45

Client ID: L-2 Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	180	1
Benzyl Alcohol	ND		ug/kg	170	53.	1
Carbazole	ND		ug/kg	170	17.	1
1,4-Dioxane	ND		ug/kg	26	8.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	92		10-136
4-Terphenyl-d14	82		18-120

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-09
Client ID: STOCKPILE
Sample Location: NY

Date Collected: 04/10/24 11:50
Date Received: 04/15/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/19/24 10:00
Analyst: JG
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 04/18/24 15:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	29.	1
Fluoranthene	320		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	59.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1
Di-n-butylphthalate	ND		ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	58.	1

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-09 Date Collected: 04/10/24 11:50

Client ID: STOCKPILE Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	120		ug/kg	100	19.	1
Benzo(a)pyrene	140		ug/kg	140	42.	1
Benzo(b)fluoranthene	230		ug/kg	100	29.	1
Benzo(k)fluoranthene	70	J	ug/kg	100	27.	1
Chrysene	180		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	26.	1
Anthracene	ND		ug/kg	100	33.	1
Benzo(ghi)perylene	92	J	ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	87	J	ug/kg	100	21.	1
Dibenzo(a,h)anthracene	20	J	ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	86	J	ug/kg	140	24.	1
Pyrene	280		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	22.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	71.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	370	64.	1
4-Nitrophenol	ND		ug/kg	240	70.	1
2,4-Dinitrophenol	ND		ug/kg	820	80.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	82.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-09 Date Collected: 04/10/24 11:50

Client ID: STOCKPILE Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	170	1
Benzyl Alcohol	ND		ug/kg	170	52.	1
Carbazole	20	J	ug/kg	170	17.	1
1,4-Dioxane	ND		ug/kg	26	7.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		25-120
Phenol-d6	67		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	70		10-136
4-Terphenyl-d14	49		18-120

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 04/18/24 08:05
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 04/17/24 13:40

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG1909584-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 04/18/24 08:05
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 04/17/24 13:40

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG1909584-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	21.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 04/18/24 08:05
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 04/17/24 13:40

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG1909584-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	530	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	69		10-136
4-Terphenyl-d14	76		18-120

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 04/19/24 04:34
Analyst: GMR

Extraction Method: EPA 3546
Extraction Date: 04/18/24 09:44

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 09 Batch: WG1910206-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 04/19/24 04:34
Analyst: GMR

Extraction Method: EPA 3546
Extraction Date: 04/18/24 09:44

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 09 Batch: WG1910206-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	21.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 04/19/24 04:34
Analyst: GMR

Extraction Method: EPA 3546
Extraction Date: 04/18/24 09:44

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 09 Batch: WG1910206-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	24	7.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	93		25-120
Phenol-d6	90		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	76		10-136
4-Terphenyl-d14	85		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 70294094
Project Number: 70294094

Lab Number: L2420570
Report Date: 04/23/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1909584-2 WG1909584-3								
Acenaphthene	58		56		31-137	4		50
1,2,4-Trichlorobenzene	52		50		38-107	4		50
Hexachlorobenzene	50		48		40-140	4		50
Bis(2-chloroethyl)ether	55		53		40-140	4		50
2-Chloronaphthalene	51		50		40-140	2		50
1,2-Dichlorobenzene	54		50		40-140	8		50
1,3-Dichlorobenzene	53		49		40-140	8		50
1,4-Dichlorobenzene	53		50		28-104	6		50
3,3'-Dichlorobenzidine	47		45		40-140	4		50
2,4-Dinitrotoluene	62		60		40-132	3		50
2,6-Dinitrotoluene	56		58		40-140	4		50
Fluoranthene	52		53		40-140	2		50
4-Chlorophenyl phenyl ether	54		53		40-140	2		50
4-Bromophenyl phenyl ether	51		52		40-140	2		50
Bis(2-chloroisopropyl)ether	47		45		40-140	4		50
Bis(2-chloroethoxy)methane	57		55		40-117	4		50
Hexachlorobutadiene	58		56		40-140	4		50
Hexachlorocyclopentadiene	60		61		40-140	2		50
Hexachloroethane	56		52		40-140	7		50
Isophorone	54		52		40-140	4		50
Naphthalene	56		54		40-140	4		50
Nitrobenzene	59		56		40-140	5		50
NDPA/DPA	54		52		36-157	4		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 70294094
Project Number: 70294094

Lab Number: L2420570
Report Date: 04/23/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1909584-2 WG1909584-3								
n-Nitrosodi-n-propylamine	56		55		32-121	2		50
Bis(2-ethylhexyl)phthalate	66		69		40-140	4		50
Butyl benzyl phthalate	57		63		40-140	10		50
Di-n-butylphthalate	59		61		40-140	3		50
Di-n-octylphthalate	64		69		40-140	8		50
Diethyl phthalate	52		53		40-140	2		50
Dimethyl phthalate	50		52		40-140	4		50
Benzo(a)anthracene	55		53		40-140	4		50
Benzo(a)pyrene	54		53		40-140	2		50
Benzo(b)fluoranthene	56		51		40-140	9		50
Benzo(k)fluoranthene	50		55		40-140	10		50
Chrysene	53		53		40-140	0		50
Acenaphthylene	51		51		40-140	0		50
Anthracene	58		55		40-140	5		50
Benzo(ghi)perylene	56		49		40-140	13		50
Fluorene	52		51		40-140	2		50
Phenanthrene	56		54		40-140	4		50
Dibenzo(a,h)anthracene	58		51		40-140	13		50
Indeno(1,2,3-cd)pyrene	57		50		40-140	13		50
Pyrene	52		53		35-142	2		50
Biphenyl	52		53		37-127	2		50
4-Chloroaniline	**30**	Q	**30**	Q	40-140	0		50
2-Nitroaniline	61		60		47-134	2		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 70294094
Project Number: 70294094

Lab Number: L2420570
Report Date: 04/23/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1909584-2 WG1909584-3								
3-Nitroaniline	44		42		26-129	5		50
4-Nitroaniline	57		57		41-125	0		50
Dibenzofuran	55		52		40-140	6		50
2-Methylnaphthalene	55		54		40-140	2		50
1,2,4,5-Tetrachlorobenzene	54		54		40-117	0		50
Acetophenone	67		64		14-144	5		50
2,4,6-Trichlorophenol	56		56		30-130	0		50
p-Chloro-m-cresol	54		54		26-103	0		50
2-Chlorophenol	59		54		25-102	9		50
2,4-Dichlorophenol	55		54		30-130	2		50
2,4-Dimethylphenol	60		58		30-130	3		50
2-Nitrophenol	66		62		30-130	6		50
4-Nitrophenol	54		57		11-114	5		50
2,4-Dinitrophenol	38		41		4-130	8		50
4,6-Dinitro-o-cresol	57		60		10-130	5		50
Pentachlorophenol	48		50		17-109	4		50
Phenol	60		56		26-90	7		50
2-Methylphenol	57		54		30-130.	5		50
3-Methylphenol/4-Methylphenol	58		56		30-130	4		50
2,4,5-Trichlorophenol	54		54		30-130	0		50
Benzoic Acid	**8**	Q	10		10-110	22		50
Benzyl Alcohol	56		55		40-140	2		50
Carbazole	57		55		54-128	4		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 70294094
Project Number: 70294094

Lab Number: L2420570
Report Date: 04/23/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1909584-2 WG1909584-3								
1,4-Dioxane	45		43		40-140	5		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	59		55		25-120
Phenol-d6	57		53		10-120
Nitrobenzene-d5	60		56		23-120
2-Fluorobiphenyl	52		52		30-120
2,4,6-Tribromophenol	53		53		10-136
4-Terphenyl-d14	51		53		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 70294094
Project Number: 70294094

Lab Number: L2420570
Report Date: 04/23/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG1910206-2 WG1910206-3								
Acenaphthene	79		86		31-137	8		50
1,2,4-Trichlorobenzene	74		80		38-107	8		50
Hexachlorobenzene	78		83		40-140	6		50
Bis(2-chloroethyl)ether	87		97		40-140	11		50
2-Chloronaphthalene	76		81		40-140	6		50
1,2-Dichlorobenzene	74		80		40-140	8		50
1,3-Dichlorobenzene	72		78		40-140	8		50
1,4-Dichlorobenzene	72		78		28-104	8		50
3,3'-Dichlorobenzidine	52		60		40-140	14		50
2,4-Dinitrotoluene	87		95		40-132	9		50
2,6-Dinitrotoluene	84		89		40-140	6		50
Fluoranthene	86		93		40-140	8		50
4-Chlorophenyl phenyl ether	80		87		40-140	8		50
4-Bromophenyl phenyl ether	82		88		40-140	7		50
Bis(2-chloroisopropyl)ether	88		94		40-140	7		50
Bis(2-chloroethoxy)methane	88		94		40-117	7		50
Hexachlorobutadiene	75		85		40-140	13		50
Hexachlorocyclopentadiene	94		103		40-140	9		50
Hexachloroethane	78		85		40-140	9		50
Isophorone	84		90		40-140	7		50
Naphthalene	72		79		40-140	9		50
Nitrobenzene	85		93		40-140	9		50
NDPA/DPA	80		87		36-157	8		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 70294094
Project Number: 70294094

Lab Number: L2420570
Report Date: 04/23/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG1910206-2 WG1910206-3								
n-Nitrosodi-n-propylamine	85		96		32-121	12		50
Bis(2-ethylhexyl)phthalate	77		83		40-140	8		50
Butyl benzyl phthalate	91		99		40-140	8		50
Di-n-butylphthalate	87		94		40-140	8		50
Di-n-octylphthalate	91		100		40-140	9		50
Diethyl phthalate	81		89		40-140	9		50
Dimethyl phthalate	76		82		40-140	8		50
Benzo(a)anthracene	82		91		40-140	10		50
Benzo(a)pyrene	85		94		40-140	10		50
Benzo(b)fluoranthene	86		94		40-140	9		50
Benzo(k)fluoranthene	80		88		40-140	10		50
Chrysene	83		91		40-140	9		50
Acenaphthylene	72		76		40-140	5		50
Anthracene	83		91		40-140	9		50
Benzo(ghi)perylene	82		92		40-140	11		50
Fluorene	78		85		40-140	9		50
Phenanthrene	80		87		40-140	8		50
Dibenzo(a,h)anthracene	82		91		40-140	10		50
Indeno(1,2,3-cd)pyrene	81		94		40-140	15		50
Pyrene	86		95		35-142	10		50
Biphenyl	65		70		37-127	7		50
4-Chloroaniline	70		71		40-140	1		50
2-Nitroaniline	86		94		47-134	9		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 70294094
Project Number: 70294094

Lab Number: L2420570
Report Date: 04/23/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG1910206-2 WG1910206-3								
3-Nitroaniline	71		76		26-129	7		50
4-Nitroaniline	86		93		41-125	8		50
Dibenzofuran	77		84		40-140	9		50
2-Methylnaphthalene	76		82		40-140	8		50
1,2,4,5-Tetrachlorobenzene	67		73		40-117	9		50
Acetophenone	72		78		14-144	8		50
2,4,6-Trichlorophenol	84		91		30-130	8		50
p-Chloro-m-cresol	85		91		26-103	7		50
2-Chlorophenol	84		91		25-102	8		50
2,4-Dichlorophenol	82		88		30-130	7		50
2,4-Dimethylphenol	93		100		30-130	7		50
2-Nitrophenol	94		102		30-130	8		50
4-Nitrophenol	105		114		11-114	8		50
2,4-Dinitrophenol	64		76		4-130	17		50
4,6-Dinitro-o-cresol	89		96		10-130	8		50
Pentachlorophenol	71		79		17-109	11		50
Phenol	84		**92**	Q	26-90	9		50
2-Methylphenol	89		96		30-130.	8		50
3-Methylphenol/4-Methylphenol	88		94		30-130	7		50
2,4,5-Trichlorophenol	81		88		30-130	8		50
Benzoic Acid	18		20		10-110	11		50
Benzyl Alcohol	89		94		40-140	5		50
Carbazole	81		87		54-128	7		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 70294094
Project Number: 70294094

Lab Number: L2420570
Report Date: 04/23/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG1910206-2 WG1910206-3								
1,4-Dioxane	61		63		40-140	3		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	91		99		25-120
Phenol-d6	88		94		10-120
Nitrobenzene-d5	85		92		23-120
2-Fluorobiphenyl	73		78		30-120
2,4,6-Tribromophenol	84		92		10-136
4-Terphenyl-d14	85		90		18-120

PCBS

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-09
Client ID: STOCKPILE
Sample Location: NY

Date Collected: 04/10/24 11:50
Date Received: 04/15/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/19/24 16:11
Analyst: AD
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 04/18/24 18:46
Cleanup Method: EPA 3665A
Cleanup Date: 04/19/24
Cleanup Method: EPA 3660B
Cleanup Date: 04/19/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	51.4	4.56	1	A
Aroclor 1221	ND		ug/kg	51.4	5.14	1	A
Aroclor 1232	ND		ug/kg	51.4	10.9	1	A
Aroclor 1242	ND		ug/kg	51.4	6.92	1	A
Aroclor 1248	ND		ug/kg	51.4	7.70	1	A
Aroclor 1254	ND		ug/kg	51.4	5.62	1	A
Aroclor 1260	ND		ug/kg	51.4	9.49	1	A
Aroclor 1262	ND		ug/kg	51.4	6.52	1	A
Aroclor 1268	ND		ug/kg	51.4	5.32	1	A
PCBs, Total	ND		ug/kg	51.4	4.56	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	39		30-150	B

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 04/18/24 18:20
Analyst: AD

Extraction Method: EPA 3546
Extraction Date: 04/18/24 03:43
Cleanup Method: EPA 3665A
Cleanup Date: 04/18/24
Cleanup Method: EPA 3660B
Cleanup Date: 04/18/24

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 09 Batch: WG1910027-1						
Aroclor 1016	ND		ug/kg	49.8	4.42	A
Aroclor 1221	ND		ug/kg	49.8	4.98	A
Aroclor 1232	ND		ug/kg	49.8	10.5	A
Aroclor 1242	ND		ug/kg	49.8	6.71	A
Aroclor 1248	ND		ug/kg	49.8	7.46	A
Aroclor 1254	ND		ug/kg	49.8	5.44	A
Aroclor 1260	ND		ug/kg	49.8	9.19	A
Aroclor 1262	ND		ug/kg	49.8	6.32	A
Aroclor 1268	ND		ug/kg	49.8	5.15	A
PCBs, Total	ND		ug/kg	49.8	4.42	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	93		30-150	A
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	95		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 70294094

Project Number: 70294094

Lab Number: L2420570

Report Date: 04/23/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 09 Batch: WG1910027-2 WG1910027-3									
Aroclor 1016	88		89		40-140	1		50	A
Aroclor 1260	76		79		40-140	4		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		89		30-150	A
Decachlorobiphenyl	92		96		30-150	A
2,4,5,6-Tetrachloro-m-xylene	90		91		30-150	B
Decachlorobiphenyl	95		95		30-150	B

PESTICIDES

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-09
Client ID: STOCKPILE
Sample Location: NY

Date Collected: 04/10/24 11:50
Date Received: 04/15/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/19/24 12:51
Analyst: MMG
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 04/18/24 18:57
Cleanup Method: EPA 3620B
Cleanup Date: 04/19/24
Cleanup Method: EPA 3660B
Cleanup Date: 04/19/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.65	0.323	1	A
Lindane	ND		ug/kg	0.687	0.307	1	A
Alpha-BHC	ND		ug/kg	0.687	0.195	1	A
Beta-BHC	ND		ug/kg	1.65	0.625	1	A
Heptachlor	ND		ug/kg	0.825	0.370	1	A
Aldrin	ND		ug/kg	1.65	0.581	1	A
Heptachlor epoxide	ND		ug/kg	3.09	0.928	1	A
Endrin	ND		ug/kg	0.687	0.282	1	A
Endrin aldehyde	ND		ug/kg	2.06	0.722	1	A
Endrin ketone	ND		ug/kg	1.65	0.425	1	A
Dieldrin	ND		ug/kg	1.03	0.515	1	A
4,4'-DDE	ND		ug/kg	1.65	0.381	1	A
4,4'-DDD	ND		ug/kg	1.65	0.588	1	A
4,4'-DDT	ND		ug/kg	1.65	1.33	1	A
Endosulfan I	ND		ug/kg	1.65	0.390	1	A
Endosulfan II	ND		ug/kg	1.65	0.551	1	A
Endosulfan sulfate	ND		ug/kg	0.687	0.327	1	A
Methoxychlor	ND		ug/kg	3.09	0.962	1	A
Toxaphene	ND		ug/kg	30.9	8.66	1	A
cis-Chlordane	ND		ug/kg	2.06	0.574	1	A
trans-Chlordane	ND		ug/kg	2.06	0.544	1	A
Chlordane	ND		ug/kg	13.7	5.46	1	A

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-09 Date Collected: 04/10/24 11:50

Client ID: STOCKPILE Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	93		30-150	A
2,4,5,6-Tetrachloro-m-xylene	94		30-150	B
Decachlorobiphenyl	108		30-150	B

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-09
Client ID: STOCKPILE
Sample Location: NY

Date Collected: 04/10/24 11:50
Date Received: 04/15/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 04/21/24 11:18
Analyst: AKM
Percent Solids: 95%
Methylation Date: 04/20/24 20:01

Extraction Method: EPA 8151A
Extraction Date: 04/19/24 12:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	171	10.8	1	A
2,4,5-T	ND		ug/kg	171	5.30	1	A
2,4,5-TP (Silvex)	ND		ug/kg	171	4.55	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	74		30-150	A
DCAA	69		30-150	B

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 04/19/24 10:27
Analyst: JAG

Extraction Method: EPA 3546
Extraction Date: 04/18/24 07:30
Cleanup Method: EPA 3620B
Cleanup Date: 04/19/24
Cleanup Method: EPA 3660B
Cleanup Date: 04/19/24

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 09 Batch: WG1910112-1						
Delta-BHC	ND		ug/kg	1.53	0.300	A
Lindane	ND		ug/kg	0.638	0.285	A
Alpha-BHC	ND		ug/kg	0.638	0.181	A
Beta-BHC	ND		ug/kg	1.53	0.581	A
Heptachlor	ND		ug/kg	0.766	0.343	A
Aldrin	ND		ug/kg	1.53	0.539	A
Heptachlor epoxide	ND		ug/kg	2.87	0.862	A
Endrin	ND		ug/kg	0.638	0.262	A
Endrin aldehyde	ND		ug/kg	1.91	0.670	A
Endrin ketone	ND		ug/kg	1.53	0.394	A
Dieldrin	ND		ug/kg	0.957	0.479	A
4,4'-DDE	ND		ug/kg	1.53	0.354	A
4,4'-DDD	ND		ug/kg	1.53	0.546	A
4,4'-DDT	ND		ug/kg	1.53	1.23	A
Endosulfan I	ND		ug/kg	1.53	0.362	A
Endosulfan II	ND		ug/kg	1.53	0.512	A
Endosulfan sulfate	ND		ug/kg	0.638	0.304	A
Methoxychlor	ND		ug/kg	2.87	0.893	A
Toxaphene	ND		ug/kg	28.7	8.04	A
cis-Chlordane	ND		ug/kg	1.91	0.534	A
trans-Chlordane	ND		ug/kg	1.91	0.505	A
Chlordane	ND		ug/kg	12.8	5.07	A

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 04/19/24 10:27
Analyst: JAG

Extraction Method: EPA 3546
Extraction Date: 04/18/24 07:30
Cleanup Method: EPA 3620B
Cleanup Date: 04/19/24
Cleanup Method: EPA 3660B
Cleanup Date: 04/19/24

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 09 Batch: WG1910112-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	91		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	101		30-150	B

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 04/21/24 10:05
Analyst: AKM

Extraction Method: EPA 8151A
Extraction Date: 04/19/24 10:00

Methylation Date: 04/20/24 20:01

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 09 Batch: WG1910836-1						
2,4-D	ND		ug/kg	165	10.4	A
2,4,5-T	ND		ug/kg	165	5.12	A
2,4,5-TP (Silvex)	ND		ug/kg	165	4.39	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	70		30-150	A
DCAA	66		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 70294094

Project Number: 70294094

Lab Number: L2420570

Report Date: 04/23/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 09 Batch: WG1910112-2 WG1910112-3									
Delta-BHC	98		104		30-150	6		30	A
Lindane	92		101		30-150	9		30	A
Alpha-BHC	92		102		30-150	10		30	A
Beta-BHC	98		107		30-150	9		30	A
Heptachlor	92		101		30-150	9		30	A
Aldrin	91		100		30-150	9		30	A
Heptachlor epoxide	89		96		30-150	8		30	A
Endrin	99		106		30-150	7		30	A
Endrin aldehyde	88		92		30-150	4		30	A
Endrin ketone	103		110		30-150	7		30	A
Dieldrin	105		113		30-150	7		30	A
4,4'-DDE	94		102		30-150	8		30	A
4,4'-DDD	102		111		30-150	8		30	A
4,4'-DDT	96		103		30-150	7		30	A
Endosulfan I	94		102		30-150	8		30	A
Endosulfan II	98		105		30-150	7		30	A
Endosulfan sulfate	95		101		30-150	6		30	A
Methoxychlor	97		103		30-150	6		30	A
cis-Chlordane	90		97		30-150	7		30	A
trans-Chlordane	109		116		30-150	6		30	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: 70294094
Project Number: 70294094

Lab Number: L2420570
Report Date: 04/23/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 09 Batch: WG1910112-2 WG1910112-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		78		30-150	A
Decachlorobiphenyl	90		95		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		86		30-150	B
Decachlorobiphenyl	101		106		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 70294094

Project Number: 70294094

Lab Number: L2420570

Report Date: 04/23/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 09 Batch: WG1910836-2 WG1910836-3									
2,4-D	73		81		30-150	10		30	A
2,4,5-T	68		78		30-150	14		30	A
2,4,5-TP (Silvex)	78		88		30-150	12		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	72		75		30-150	A
DCAA	72		104		30-150	B

METALS

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-01 Date Collected: 04/10/24 10:00

Client ID: EP-1 Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	2.74		mg/kg	0.894	0.186	2	04/17/24 12:41	04/18/24 14:35	EPA 3050B	1,6010D	MAM
Barium, Total	30.3		mg/kg	0.894	0.156	2	04/17/24 12:41	04/18/24 14:35	EPA 3050B	1,6010D	MAM
Cadmium, Total	ND		mg/kg	0.894	0.088	2	04/17/24 12:41	04/18/24 14:35	EPA 3050B	1,6010D	MAM
Chromium, Total	7.80		mg/kg	0.894	0.086	2	04/17/24 12:41	04/18/24 14:35	EPA 3050B	1,6010D	MAM
Lead, Total	10.1		mg/kg	4.47	0.240	2	04/17/24 12:41	04/18/24 14:35	EPA 3050B	1,6010D	MAM
Mercury, Total	ND		mg/kg	0.083	0.054	1	04/17/24 12:57	04/19/24 16:19	EPA 7471B	1,7471B	SMV
Selenium, Total	ND		mg/kg	1.79	0.231	2	04/17/24 12:41	04/18/24 14:35	EPA 3050B	1,6010D	MAM
Silver, Total	ND		mg/kg	0.447	0.253	2	04/17/24 12:41	04/18/24 14:35	EPA 3050B	1,6010D	MAM

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-02 Date Collected: 04/10/24 10:15

Client ID: EP-2 Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	2.47		mg/kg	0.844	0.176	2	04/17/24 12:41	04/18/24 14:41	EPA 3050B	1,6010D	MAM
Barium, Total	36.3		mg/kg	0.844	0.147	2	04/17/24 12:41	04/18/24 14:41	EPA 3050B	1,6010D	MAM
Cadmium, Total	0.134	J	mg/kg	0.844	0.083	2	04/17/24 12:41	04/18/24 14:41	EPA 3050B	1,6010D	MAM
Chromium, Total	5.90		mg/kg	0.844	0.081	2	04/17/24 12:41	04/18/24 14:41	EPA 3050B	1,6010D	MAM
Lead, Total	11.2		mg/kg	4.22	0.226	2	04/17/24 12:41	04/18/24 14:41	EPA 3050B	1,6010D	MAM
Mercury, Total	ND		mg/kg	0.077	0.050	1	04/17/24 12:57	04/19/24 16:23	EPA 7471B	1,7471B	SMV
Selenium, Total	0.330	J	mg/kg	1.69	0.218	2	04/17/24 12:41	04/18/24 14:41	EPA 3050B	1,6010D	MAM
Silver, Total	ND		mg/kg	0.422	0.239	2	04/17/24 12:41	04/18/24 14:41	EPA 3050B	1,6010D	MAM

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-03 Date Collected: 04/10/24 10:30

Client ID: N-SIDEWALL Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	2.07		mg/kg	0.838	0.174	2	04/17/24 12:41	04/18/24 14:46	EPA 3050B	1,6010D	MAM
Barium, Total	24.2		mg/kg	0.838	0.146	2	04/17/24 12:41	04/18/24 14:46	EPA 3050B	1,6010D	MAM
Cadmium, Total	0.083	J	mg/kg	0.838	0.082	2	04/17/24 12:41	04/18/24 14:46	EPA 3050B	1,6010D	MAM
Chromium, Total	6.22		mg/kg	0.838	0.080	2	04/17/24 12:41	04/18/24 14:46	EPA 3050B	1,6010D	MAM
Lead, Total	9.87		mg/kg	4.19	0.224	2	04/17/24 12:41	04/18/24 14:46	EPA 3050B	1,6010D	MAM
Mercury, Total	ND		mg/kg	0.079	0.051	1	04/17/24 12:57	04/19/24 16:26	EPA 7471B	1,7471B	SMV
Selenium, Total	0.366	J	mg/kg	1.68	0.216	2	04/17/24 12:41	04/18/24 14:46	EPA 3050B	1,6010D	MAM
Silver, Total	ND		mg/kg	0.419	0.237	2	04/17/24 12:41	04/18/24 14:46	EPA 3050B	1,6010D	MAM

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-04 Date Collected: 04/10/24 10:45

Client ID: S-SIDEWALL Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	2.47		mg/kg	0.852	0.177	2	04/17/24 12:41	04/18/24 14:52	EPA 3050B	1,6010D	MAM
Barium, Total	33.0		mg/kg	0.852	0.148	2	04/17/24 12:41	04/18/24 14:52	EPA 3050B	1,6010D	MAM
Cadmium, Total	0.091	J	mg/kg	0.852	0.084	2	04/17/24 12:41	04/18/24 14:52	EPA 3050B	1,6010D	MAM
Chromium, Total	7.85		mg/kg	0.852	0.082	2	04/17/24 12:41	04/18/24 14:52	EPA 3050B	1,6010D	MAM
Lead, Total	8.78		mg/kg	4.26	0.228	2	04/17/24 12:41	04/18/24 14:52	EPA 3050B	1,6010D	MAM
Mercury, Total	ND		mg/kg	0.072	0.047	1	04/17/24 12:57	04/19/24 16:29	EPA 7471B	1,7471B	SMV
Selenium, Total	0.527	J	mg/kg	1.70	0.220	2	04/17/24 12:41	04/18/24 14:52	EPA 3050B	1,6010D	MAM
Silver, Total	ND		mg/kg	0.426	0.241	2	04/17/24 12:41	04/18/24 14:52	EPA 3050B	1,6010D	MAM

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-05 Date Collected: 04/10/24 11:00

Client ID: E-SIDEWALL Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	2.27		mg/kg	0.826	0.172	2	04/17/24 12:41	04/18/24 14:57	EPA 3050B	1,6010D	MAM
Barium, Total	26.7		mg/kg	0.826	0.144	2	04/17/24 12:41	04/18/24 14:57	EPA 3050B	1,6010D	MAM
Cadmium, Total	0.081	J	mg/kg	0.826	0.081	2	04/17/24 12:41	04/18/24 14:57	EPA 3050B	1,6010D	MAM
Chromium, Total	6.88		mg/kg	0.826	0.079	2	04/17/24 12:41	04/18/24 14:57	EPA 3050B	1,6010D	MAM
Lead, Total	8.50		mg/kg	4.13	0.221	2	04/17/24 12:41	04/18/24 14:57	EPA 3050B	1,6010D	MAM
Mercury, Total	ND		mg/kg	0.068	0.045	1	04/17/24 12:57	04/19/24 16:33	EPA 7471B	1,7471B	SMV
Selenium, Total	0.226	J	mg/kg	1.65	0.213	2	04/17/24 12:41	04/18/24 14:57	EPA 3050B	1,6010D	MAM
Silver, Total	ND		mg/kg	0.413	0.234	2	04/17/24 12:41	04/18/24 14:57	EPA 3050B	1,6010D	MAM

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-06 Date Collected: 04/10/24 11:15

Client ID: W-SIDEWALL Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	2.03		mg/kg	0.798	0.166	2	04/17/24 12:41	04/18/24 15:03	EPA 3050B	1,6010D	MAM
Barium, Total	26.7		mg/kg	0.798	0.139	2	04/17/24 12:41	04/18/24 15:03	EPA 3050B	1,6010D	MAM
Cadmium, Total	ND		mg/kg	0.798	0.078	2	04/17/24 12:41	04/18/24 15:03	EPA 3050B	1,6010D	MAM
Chromium, Total	6.48		mg/kg	0.798	0.077	2	04/17/24 12:41	04/18/24 15:03	EPA 3050B	1,6010D	MAM
Lead, Total	6.79		mg/kg	3.99	0.214	2	04/17/24 12:41	04/18/24 15:03	EPA 3050B	1,6010D	MAM
Mercury, Total	ND		mg/kg	0.079	0.052	1	04/17/24 12:57	04/19/24 16:36	EPA 7471B	1,7471B	SMV
Selenium, Total	0.358	J	mg/kg	1.60	0.206	2	04/17/24 12:41	04/18/24 15:03	EPA 3050B	1,6010D	MAM
Silver, Total	ND		mg/kg	0.399	0.226	2	04/17/24 12:41	04/18/24 15:03	EPA 3050B	1,6010D	MAM

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-07 Date Collected: 04/10/24 11:30

Client ID: L-1 Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	4.41		mg/kg	0.863	0.180	2	04/17/24 12:41	04/18/24 15:54	EPA 3050B	1,6010D	MAM
Barium, Total	43.0		mg/kg	0.863	0.150	2	04/17/24 12:41	04/18/24 15:54	EPA 3050B	1,6010D	MAM
Cadmium, Total	0.164	J	mg/kg	0.863	0.085	2	04/17/24 12:41	04/18/24 15:54	EPA 3050B	1,6010D	MAM
Chromium, Total	9.74		mg/kg	0.863	0.083	2	04/17/24 12:41	04/18/24 15:54	EPA 3050B	1,6010D	MAM
Lead, Total	15.6		mg/kg	4.32	0.231	2	04/17/24 12:41	04/18/24 15:54	EPA 3050B	1,6010D	MAM
Mercury, Total	ND		mg/kg	0.082	0.053	1	04/17/24 12:57	04/19/24 16:39	EPA 7471B	1,7471B	SMV
Selenium, Total	0.860	J	mg/kg	1.73	0.223	2	04/17/24 12:41	04/18/24 15:54	EPA 3050B	1,6010D	MAM
Silver, Total	ND		mg/kg	0.432	0.244	2	04/17/24 12:41	04/18/24 15:54	EPA 3050B	1,6010D	MAM

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-08 Date Collected: 04/10/24 11:45

Client ID: L-2 Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	1.98		mg/kg	0.822	0.171	2	04/17/24 12:41	04/18/24 16:00	EPA 3050B	1,6010D	MAM
Barium, Total	25.5		mg/kg	0.822	0.143	2	04/17/24 12:41	04/18/24 16:00	EPA 3050B	1,6010D	MAM
Cadmium, Total	0.088	J	mg/kg	0.822	0.081	2	04/17/24 12:41	04/18/24 16:00	EPA 3050B	1,6010D	MAM
Chromium, Total	6.68		mg/kg	0.822	0.079	2	04/17/24 12:41	04/18/24 16:00	EPA 3050B	1,6010D	MAM
Lead, Total	7.36		mg/kg	4.11	0.220	2	04/17/24 12:41	04/18/24 16:00	EPA 3050B	1,6010D	MAM
Mercury, Total	ND		mg/kg	0.069	0.045	1	04/17/24 12:57	04/19/24 16:42	EPA 7471B	1,7471B	SMV
Selenium, Total	0.589	J	mg/kg	1.64	0.212	2	04/17/24 12:41	04/18/24 16:00	EPA 3050B	1,6010D	MAM
Silver, Total	ND		mg/kg	0.411	0.233	2	04/17/24 12:41	04/18/24 16:00	EPA 3050B	1,6010D	MAM

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-09 Date Collected: 04/10/24 11:50

Client ID: STOCKPILE Date Received: 04/15/24

Sample Location: NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	2.26		mg/kg	0.827	0.172	2	04/19/24 08:10	04/19/24 18:58	EPA 3050B	1,6010D	JMF
Barium, Total	25.7		mg/kg	0.827	0.144	2	04/19/24 08:10	04/19/24 18:58	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.202	J	mg/kg	0.414	0.027	2	04/19/24 08:10	04/19/24 18:58	EPA 3050B	1,6010D	JMF
Cadmium, Total	ND		mg/kg	0.827	0.081	2	04/19/24 08:10	04/19/24 18:58	EPA 3050B	1,6010D	JMF
Chromium, Total	6.74		mg/kg	0.827	0.079	2	04/19/24 08:10	04/19/24 18:58	EPA 3050B	1,6010D	JMF
Copper, Total	10.9		mg/kg	0.827	0.213	2	04/19/24 08:10	04/19/24 18:58	EPA 3050B	1,6010D	JMF
Lead, Total	8.60		mg/kg	4.14	0.222	2	04/19/24 08:10	04/19/24 18:58	EPA 3050B	1,6010D	JMF
Manganese, Total	212		mg/kg	0.827	0.132	2	04/19/24 08:10	04/19/24 18:58	EPA 3050B	1,6010D	JMF
Mercury, Total	ND		mg/kg	0.068	0.044	1	04/19/24 09:15	04/21/24 14:51	EPA 7471B	1,7471B	TAA
Nickel, Total	9.01		mg/kg	2.07	0.200	2	04/19/24 08:10	04/19/24 18:58	EPA 3050B	1,6010D	JMF
Selenium, Total	ND		mg/kg	1.65	0.213	2	04/19/24 08:10	04/19/24 18:58	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.414	0.234	2	04/19/24 08:10	04/19/24 18:58	EPA 3050B	1,6010D	JMF
Zinc, Total	45.5		mg/kg	4.14	0.242	2	04/19/24 08:10	04/19/24 18:58	EPA 3050B	1,6010D	JMF
General Chemistry - Mansfield Lab											
Chromium, Trivalent	6.46	J	mg/kg	0.844	0.169	1		04/22/24 09:43	NA	107,-	

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-08 Batch: WG1909708-1										
Arsenic, Total	ND		mg/kg	0.400	0.083	1	04/17/24 12:41	04/18/24 13:09	1,6010D	MAM
Barium, Total	ND		mg/kg	0.400	0.070	1	04/17/24 12:41	04/18/24 13:09	1,6010D	MAM
Cadmium, Total	ND		mg/kg	0.400	0.039	1	04/17/24 12:41	04/18/24 13:09	1,6010D	MAM
Chromium, Total	ND		mg/kg	0.400	0.038	1	04/17/24 12:41	04/18/24 13:09	1,6010D	MAM
Lead, Total	ND		mg/kg	2.00	0.107	1	04/17/24 12:41	04/18/24 13:09	1,6010D	MAM
Selenium, Total	ND		mg/kg	0.800	0.103	1	04/17/24 12:41	04/18/24 13:09	1,6010D	MAM
Silver, Total	ND		mg/kg	0.200	0.113	1	04/17/24 12:41	04/18/24 13:09	1,6010D	MAM

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-08 Batch: WG1909712-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	04/17/24 12:57	04/19/24 15:33	1,7471B	SMV

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 09 Batch: WG1910342-1										
Arsenic, Total	ND		mg/kg	0.400	0.083	1	04/19/24 08:10	04/19/24 18:36	1,6010D	JMF
Barium, Total	ND		mg/kg	0.400	0.070	1	04/19/24 08:10	04/19/24 18:36	1,6010D	JMF
Beryllium, Total	ND		mg/kg	0.200	0.013	1	04/19/24 08:10	04/19/24 18:36	1,6010D	JMF
Cadmium, Total	ND		mg/kg	0.400	0.039	1	04/19/24 08:10	04/19/24 18:36	1,6010D	JMF
Chromium, Total	ND		mg/kg	0.400	0.038	1	04/19/24 08:10	04/19/24 18:36	1,6010D	JMF
Copper, Total	ND		mg/kg	0.400	0.103	1	04/19/24 08:10	04/19/24 18:36	1,6010D	JMF
Lead, Total	ND		mg/kg	2.00	0.107	1	04/19/24 08:10	04/19/24 18:36	1,6010D	JMF
Manganese, Total	ND		mg/kg	0.400	0.064	1	04/19/24 08:10	04/19/24 18:36	1,6010D	JMF
Nickel, Total	ND		mg/kg	1.00	0.097	1	04/19/24 08:10	04/19/24 18:36	1,6010D	JMF

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

Method Blank Analysis
Batch Quality Control

Selenium, Total	ND	mg/kg	0.800	0.103	1	04/19/24 08:10	04/19/24 18:36	1,6010D	JMF
Silver, Total	ND	mg/kg	0.200	0.113	1	04/19/24 08:10	04/19/24 18:36	1,6010D	JMF
Zinc, Total	ND	mg/kg	2.00	0.117	1	04/19/24 08:10	04/19/24 18:36	1,6010D	JMF

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 09 Batch: WG1910345-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	04/19/24 09:15	04/21/24 14:44	1,7471B	TAA

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 70294094

Project Number: 70294094

Lab Number: L2420570

Report Date: 04/23/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-08 Batch: WG1909708-2								
Arsenic, Total	100		-		80-120	-		
Barium, Total	106		-		80-120	-		
Cadmium, Total	102		-		80-120	-		
Chromium, Total	103		-		80-120	-		
Lead, Total	103		-		80-120	-		
Selenium, Total	99		-		80-120	-		
Silver, Total	104		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 01-08 Batch: WG1909712-2								
Mercury, Total	116		-		72-128	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 70294094

Project Number: 70294094

Lab Number: L2420570

Report Date: 04/23/24

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 09 Batch: WG1910342-2					
Arsenic, Total	101	-	80-120	-	
Barium, Total	108	-	80-120	-	
Beryllium, Total	108	-	80-120	-	
Cadmium, Total	104	-	80-120	-	
Chromium, Total	104	-	80-120	-	
Copper, Total	105	-	80-120	-	
Lead, Total	104	-	80-120	-	
Manganese, Total	108	-	80-120	-	
Nickel, Total	105	-	80-120	-	
Selenium, Total	100	-	80-120	-	
Silver, Total	104	-	80-120	-	
Zinc, Total	103	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 09 Batch: WG1910345-2					
Mercury, Total	91	-	72-128	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 70294094
Project Number: 70294094

Lab Number: L2420570
Report Date: 04/23/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1909708-3 QC Sample: L2420550-01 Client ID: MS Sample												
Arsenic, Total	2.99	9.98	11.8	88		-	-		75-125	-		20
Barium, Total	27.7	166	177	90		-	-		75-125	-		20
Cadmium, Total	0.118J	4.41	3.77	86		-	-		75-125	-		20
Chromium, Total	8.58	16.6	23.9	92		-	-		75-125	-		20
Lead, Total	55.0	44.1	98.0	98		-	-		75-125	-		20
Selenium, Total	0.495J	9.98	8.93	89		-	-		75-125	-		20
Silver, Total	ND	4.16	3.92	94		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1909712-3 QC Sample: L2420550-01 Client ID: MS Sample												
Mercury, Total	0.170	1.47	1.92	119		-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 70294094
Project Number: 70294094

Lab Number: L2420570
Report Date: 04/23/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 09 QC Batch ID: WG1910342-3 QC Sample: L2420570-09 Client ID: STOCKPILE										
Arsenic, Total	2.26	9.88	15.1	**130**	Q	-	-	75-125	-	20
Barium, Total	25.7	165	212	113		-	-	75-125	-	20
Beryllium, Total	0.202J	4.12	4.68	114		-	-	75-125	-	20
Cadmium, Total	ND	4.36	4.40	101		-	-	75-125	-	20
Chromium, Total	6.74	16.5	28.4	**132**	Q	-	-	75-125	-	20
Copper, Total	10.9	20.6	43.1	**156**	Q	-	-	75-125	-	20
Lead, Total	8.60	43.6	63.3	125		-	-	75-125	-	20
Manganese, Total	212	41.2	393	**440**	Q	-	-	75-125	-	20
Nickel, Total	9.01	41.2	56.9	116		-	-	75-125	-	20
Selenium, Total	ND	9.88	10.9	110		-	-	75-125	-	20
Silver, Total	ND	4.12	4.80	116		-	-	75-125	-	20
Zinc, Total	45.5	41.2	101	**135**	Q	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 09 QC Batch ID: WG1910345-3 QC Sample: L2420570-09 Client ID: STOCKPILE										
Mercury, Total	ND	1.32	1.23	93		-	-	80-120	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 70294094
Project Number: 70294094

Lab Number: L2420570
Report Date: 04/23/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1909708-4 QC Sample: L2420550-01 Client ID: DUP Sample						
Arsenic, Total	2.99	4.03	mg/kg	**30**	Q	20
Barium, Total	27.7	30.5	mg/kg	10		20
Cadmium, Total	0.118J	0.133J	mg/kg	NC		20
Chromium, Total	8.58	10.3	mg/kg	18		20
Lead, Total	55.0	57.8	mg/kg	5		20
Selenium, Total	0.495J	0.457J	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1909712-4 QC Sample: L2420550-01 Client ID: DUP Sample						
Mercury, Total	0.170	0.144	mg/kg	17		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 70294094
Project Number: 70294094

Lab Number: L2420570
Report Date: 04/23/24

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 09 QC Batch ID: WG1910342-4 QC Sample: L2420570-09 Client ID: STOCKPILE						
Arsenic, Total	2.26	2.85	mg/kg	**23**	Q	20
Barium, Total	25.7	29.2	mg/kg	13		20
Beryllium, Total	0.202J	0.252J	mg/kg	NC		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Chromium, Total	6.74	8.21	mg/kg	20		20
Copper, Total	10.9	19.6	mg/kg	**57**	Q	20
Lead, Total	8.60	10.8	mg/kg	**23**	Q	20
Manganese, Total	212	211	mg/kg	0		20
Nickel, Total	9.01	11.0	mg/kg	20		20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Zinc, Total	45.5	53.9	mg/kg	17		20
Total Metals - Mansfield Lab Associated sample(s): 09 QC Batch ID: WG1910345-4 QC Sample: L2420570-09 Client ID: STOCKPILE						
Mercury, Total	ND	ND	mg/kg	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: 70294094
Project Number: 70294094

Lab Number: L2420570
Report Date: 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-01
Client ID: EP-1
Sample Location: NY

Date Collected: 04/10/24 10:00
Date Received: 04/15/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.6		%	0.100	NA	1	-	04/16/24 12:45	121,2540G	ROI

Project Name: 70294094
Project Number: 70294094

Lab Number: L2420570
Report Date: 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-02
Client ID: EP-2
Sample Location: NY

Date Collected: 04/10/24 10:15
Date Received: 04/15/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.8		%	0.100	NA	1	-	04/16/24 12:45	121,2540G	ROI

Project Name: 70294094
Project Number: 70294094

Lab Number: L2420570
Report Date: 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-03
Client ID: N-SIDEWALL
Sample Location: NY

Date Collected: 04/10/24 10:30
Date Received: 04/15/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.4		%	0.100	NA	1	-	04/16/24 12:45	121,2540G	ROI

Project Name: 70294094
Project Number: 70294094

Lab Number: L2420570
Report Date: 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-04
Client ID: S-SIDEWALL
Sample Location: NY

Date Collected: 04/10/24 10:45
Date Received: 04/15/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.8		%	0.100	NA	1	-	04/16/24 12:45	121,2540G	ROI

Project Name: 70294094
Project Number: 70294094

Lab Number: L2420570
Report Date: 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-05
Client ID: E-SIDEWALL
Sample Location: NY

Date Collected: 04/10/24 11:00
Date Received: 04/15/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.8		%	0.100	NA	1	-	04/16/24 12:45	121,2540G	ROI

Project Name: 70294094
Project Number: 70294094

Lab Number: L2420570
Report Date: 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-06
Client ID: W-SIDEWALL
Sample Location: NY

Date Collected: 04/10/24 11:15
Date Received: 04/15/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.7		%	0.100	NA	1	-	04/16/24 12:45	121,2540G	ROI

Project Name: 70294094
Project Number: 70294094

Lab Number: L2420570
Report Date: 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-07
Client ID: L-1
Sample Location: NY

Date Collected: 04/10/24 11:30
Date Received: 04/15/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.3		%	0.100	NA	1	-	04/16/24 12:45	121,2540G	ROI

Project Name: 70294094
Project Number: 70294094

Lab Number: L2420570
Report Date: 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-08
Client ID: L-2
Sample Location: NY

Date Collected: 04/10/24 11:45
Date Received: 04/15/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.3		%	0.100	NA	1	-	04/16/24 12:45	121,2540G	ROI

Project Name: 70294094
Project Number: 70294094

Lab Number: L2420570
Report Date: 04/23/24

SAMPLE RESULTS

Lab ID: L2420570-09
Client ID: STOCKPILE
Sample Location: NY

Date Collected: 04/10/24 11:50
Date Received: 04/15/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.8		%	0.100	NA	1	-	04/16/24 12:45	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.0	0.21	1	04/19/24 14:00	04/19/24 17:02	1,9010C/9012B	JER
Chromium, Hexavalent	0.285	J	mg/kg	0.844	0.169	1	04/19/24 09:45	04/22/24 09:43	1,7196A	DTH

Project Name: 70294094 **Lab Number:** L2420570

Project Number: 70294094 **Report Date:** 04/23/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 09 Batch: WG1910603-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	04/19/24 09:45	04/22/24 09:43	1,7196A	DTH
General Chemistry - Westborough Lab for sample(s): 09 Batch: WG1910857-1										
Cyanide, Total	ND		mg/kg	0.86	0.18	1	04/19/24 14:00	04/19/24 16:58	1,9010C/9012B	JER

Lab Control Sample Analysis

Batch Quality Control

Project Name: 70294094

Project Number: 70294094

Lab Number: L2420570

Report Date: 04/23/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 09 Batch: WG1910603-2								
Chromium, Hexavalent	80		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 09 Batch: WG1910857-2 WG1910857-3								
Cyanide, Total	88		90		80-120	0		35

Matrix Spike Analysis
Batch Quality Control

Project Name: 70294094
Project Number: 70294094

Lab Number: L2420570
Report Date: 04/23/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 09 QC Batch ID: WG1910603-4 QC Sample: L2420570-09 Client ID: STOCKPILE												
Chromium, Hexavalent	0.285J	1260	1190	94		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 09 QC Batch ID: WG1910857-4 WG1910857-5 QC Sample: L2420607-01 Client ID: MS Sample												
Cyanide, Total	ND	10	11	100		11	110		75-125	0		35

Lab Duplicate Analysis

Batch Quality Control

Project Name: 70294094

Project Number: 70294094

Lab Number: L2420570

Report Date: 04/23/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG1909126-1 QC Sample: L2419363-01 Client ID: DUP Sample						
Solids, Total	84.1	85.6	%	2		20
General Chemistry - Westborough Lab Associated sample(s): 09 QC Batch ID: WG1910603-6 QC Sample: L2420570-09 Client ID: STOCKPILE						
Chromium, Hexavalent	0.285J	0.264J	mg/kg	NC		20

Project Name: 70294094
Project Number: 70294094

Lab Number: L2420570
Report Date: 04/23/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2420570-01A	Vial Large Septa unpreserved (4oz)	A	NA		5.2	Y	Absent		NYTCL-8260(14)
L2420570-01B	Glass 500ml/16oz unpreserved	A	NA		5.2	Y	Absent		NYTCL-8270(14),TS(7)
L2420570-01C	Glass 60ml unpreserved split	A	NA		5.2	Y	Absent		AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L2420570-01X	Vial MeOH preserved split	A	NA		5.2	Y	Absent		NYTCL-8260(14)
L2420570-01Y	Vial Water preserved split	A	NA		5.2	Y	Absent	**17-APR-24 06:43**	NYTCL-8260(14)
L2420570-01Z	Vial Water preserved split	A	NA		5.2	Y	Absent	**17-APR-24 06:43**	NYTCL-8260(14)
L2420570-02A	Vial Large Septa unpreserved (4oz)	A	NA		5.2	Y	Absent		NYTCL-8260(14)
L2420570-02B	Glass 500ml/16oz unpreserved	A	NA		5.2	Y	Absent		NYTCL-8270(14),TS(7)
L2420570-02C	Glass 60ml unpreserved split	A	NA		5.2	Y	Absent		AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L2420570-02X	Vial MeOH preserved split	A	NA		5.2	Y	Absent		NYTCL-8260(14)
L2420570-02Y	Vial Water preserved split	A	NA		5.2	Y	Absent	**17-APR-24 06:43**	NYTCL-8260(14)
L2420570-02Z	Vial Water preserved split	A	NA		5.2	Y	Absent	**17-APR-24 06:43**	NYTCL-8260(14)
L2420570-03A	Vial Large Septa unpreserved (4oz)	A	NA		5.2	Y	Absent		NYTCL-8260(14)
L2420570-03B	Glass 500ml/16oz unpreserved	A	NA		5.2	Y	Absent		NYTCL-8270(14),TS(7)
L2420570-03C	Glass 60ml unpreserved split	A	NA		5.2	Y	Absent		AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),SE-TI(180),PB-TI(180),HG-T(28),CD-TI(180)
L2420570-03X	Vial MeOH preserved split	A	NA		5.2	Y	Absent		NYTCL-8260(14)
L2420570-03Y	Vial Water preserved split	A	NA		5.2	Y	Absent	**17-APR-24 06:43**	NYTCL-8260(14)
L2420570-03Z	Vial Water preserved split	A	NA		5.2	Y	Absent	**17-APR-24 06:43**	NYTCL-8260(14)
L2420570-04A	Vial Large Septa unpreserved (4oz)	A	NA		5.2	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: 70294094
Project Number: 70294094

Lab Number: L2420570
Report Date: 04/23/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2420570-04B	Glass 500ml/16oz unpreserved	A	NA		5.2	Y	Absent		NYTCL-8270(14),TS(7)
L2420570-04C	Glass 60ml unpreserved split	A	NA		5.2	Y	Absent		BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),SE-TI(180),PB-TI(180),HG-T(28),CD-TI(180)
L2420570-04X	Vial MeOH preserved split	A	NA		5.2	Y	Absent		NYTCL-8260(14)
L2420570-04Y	Vial Water preserved split	A	NA		5.2	Y	Absent	**17-APR-24 06:43**	NYTCL-8260(14)
L2420570-04Z	Vial Water preserved split	A	NA		5.2	Y	Absent	**17-APR-24 06:43**	NYTCL-8260(14)
L2420570-05A	Vial Large Septa unpreserved (4oz)	A	NA		5.2	Y	Absent		NYTCL-8260(14)
L2420570-05B	Glass 500ml/16oz unpreserved	A	NA		5.2	Y	Absent		NYTCL-8270(14),TS(7)
L2420570-05C	Glass 60ml unpreserved split	A	NA		5.2	Y	Absent		AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),SE-TI(180),PB-TI(180),HG-T(28),CD-TI(180)
L2420570-05X	Vial MeOH preserved split	A	NA		5.2	Y	Absent		NYTCL-8260(14)
L2420570-05Y	Vial Water preserved split	A	NA		5.2	Y	Absent	**17-APR-24 06:43**	NYTCL-8260(14)
L2420570-05Z	Vial Water preserved split	A	NA		5.2	Y	Absent	**17-APR-24 06:43**	NYTCL-8260(14)
L2420570-06A	Vial Large Septa unpreserved (4oz)	A	NA		5.2	Y	Absent		NYTCL-8260(14)
L2420570-06B	Glass 500ml/16oz unpreserved	A	NA		5.2	Y	Absent		NYTCL-8270(14),TS(7)
L2420570-06C	Glass 60ml unpreserved split	A	NA		5.2	Y	Absent		AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L2420570-06X	Vial MeOH preserved split	A	NA		5.2	Y	Absent		NYTCL-8260(14)
L2420570-06Y	Vial Water preserved split	A	NA		5.2	Y	Absent	**17-APR-24 06:43**	NYTCL-8260(14)
L2420570-06Z	Vial Water preserved split	A	NA		5.2	Y	Absent	**17-APR-24 06:43**	NYTCL-8260(14)
L2420570-07A	Vial Large Septa unpreserved (4oz)	A	NA		5.2	Y	Absent		NYTCL-8260(14)
L2420570-07B	Glass 500ml/16oz unpreserved	A	NA		5.2	Y	Absent		NYTCL-8270(14),TS(7)
L2420570-07C	Glass 60ml unpreserved split	A	NA		5.2	Y	Absent		AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),SE-TI(180),PB-TI(180),HG-T(28),CD-TI(180)
L2420570-07X	Vial MeOH preserved split	A	NA		5.2	Y	Absent		NYTCL-8260(14)
L2420570-07Y	Vial Water preserved split	A	NA		5.2	Y	Absent	**17-APR-24 06:43**	NYTCL-8260(14)
L2420570-07Z	Vial Water preserved split	A	NA		5.2	Y	Absent	**17-APR-24 06:43**	NYTCL-8260(14)
L2420570-08A	Vial Large Septa unpreserved (4oz)	A	NA		5.2	Y	Absent		NYTCL-8260(14)
L2420570-08B	Glass 500ml/16oz unpreserved	A	NA		5.2	Y	Absent		NYTCL-8270(14),TS(7)

*Values in parentheses indicate holding time in days

Project Name: 70294094
Project Number: 70294094

Lab Number: L2420570
Report Date: 04/23/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2420570-08C	Glass 60ml unpreserved split	A	NA		5.2	Y	Absent		BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),SE-TI(180),PB-TI(180),HG-T(28),CD-TI(180)
L2420570-08X	Vial MeOH preserved split	A	NA		5.2	Y	Absent		NYTCL-8260(14)
L2420570-08Y	Vial Water preserved split	A	NA		5.2	Y	Absent	**17-APR-24 06:43**	NYTCL-8260(14)
L2420570-08Z	Vial Water preserved split	A	NA		5.2	Y	Absent	**17-APR-24 06:43**	NYTCL-8260(14)
L2420570-09A	Vial MeOH preserved	A	NA		5.2	Y	Absent		NYTCL-8260HLW(14)
L2420570-09B	Vial water preserved	A	NA		5.2	Y	Absent	**16-APR-24 13:11**	NYTCL-8260HLW(14)
L2420570-09C	Amber 100ml unpreserved	A	NA		5.2	Y	Absent		TS(7)
L2420570-09D	Glass 250ml/8oz unpreserved	B	NA		3.4	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),ZN-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L2420570-09E	Glass 250ml/8oz unpreserved	B	NA		3.4	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2420570-09F	Glass 250ml/8oz unpreserved	B	NA		3.4	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2420570-09G	Glass 250ml/8oz unpreserved	B	NA		3.4	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name:	70294094	**Lab Number:**	L2420570
Project Number:	70294094	**Report Date:**	04/23/24

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	70294094	**Lab Number:**	L2420570
Project Number:	70294094	**Report Date:**	04/23/24

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	70294094	**Lab Number:**	L2420570
Project Number:	70294094	**Report Date:**	04/23/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	70294094	**Lab Number:**	L2420570
Project Number:	70294094	**Report Date:**	04/23/24

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

107 Alpha Analytical - In-house calculation method.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

EA420570

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Wor

WO# : 70294094

70294094

ALL SHAD

LAB

Company: Champion Environmental

Billing Information: Holtec Decom.

Address: 1701d Dock Rd. Yaphank, NY

Report To: Justin H.

Email To: Justin | Carlos G.

Copy To: C.garcia@holtec.com

Site Collection Info/Address: Buchanan, NY

Customer Project Name/Number: Indian Pt. / 21659

State: NY County/City: Westchester Time Zone Collected: [ ] PT [ ] MT [ ] CT [X] ET

Phone: 631-589-6521 Email:

Site/Facility ID #: Indian Point

Compliance Monitoring? [ ] Yes [X] No

Collected By (print): Justin H.

Purchase Order #: Quote #: Holtec account

DW PWS ID #: DW Location Code: N/A

Collected By (signature):

Turnaround Date Required: Normal

Immediately Packed on Ice: [X] Yes [ ] No

Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:

Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Field Filtered (if applicable): [ ] Yes [X] No Analysis:

* 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)

** 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

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Container Preservative Ty	Analyses: 8260 (VOC's)	8270BN (SVOC's)	RCRA - metals	Part-375 testing	Lab Profile/Line:
EP-1	SL	G	4/10	10:00				2		X	X	X		
EP-2	SL	G		10:15				2		X	X	X		
N-Side wall	SL	G		10:30				2		X	X	X		
S-Side wall	SL	G		10:45				2		X	X	X		
E-Side wall	SL	G		11:00				2		X	X	X		
W-Side wall	SL	G		11:15				2		X	X	X		
L-1	SL	G		11:30				2		X	X	X		
L-2	SL	G		11:45				2		X	X	X		
Stockpile	SL	C		11:50	4/10	11:55		8					X	

Lab Sample Receipt Checklist:

Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signature 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:
Sample pH Acceptable Y N NA
pH Strips:
Sulfide Present Y N NA
Lead Acetate Strips:

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards: po- Holtec

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2820875

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: TH211
Cooler 1 Temp Upon Receipt: 5.3 oC
Cooler 1 Therm Corr. Factor: -0.4 oC
Cooler 1 Corrected Temp: 4.9 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	4/11/24 12:29	ASF PACE LV	4/11/24 12:34
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
MMP PACE LV for ASF/PAC	4/15/24 1800	MSMA (ANL) 04/15 1509	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
MMP PACE LV (ANL) 04/15	2209	Anthony Green	APR 15 2024 2241
Anthony Green	4/16/22 0100		4/16/22 0100

MT/L LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:
Rel: 4/16/22 0300 4/16/24 0305

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 1 of: 1

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

Chain of Custody is a LEGAL DOCUMENT. Complete all relevant fields.

LAB USE ONLY- Affix Wor

WO# : 70294094

70294094

ALL SHAD

Container Preservative Ty

LAB

** 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 _____

Company: Champion Environmental	Billing Information: Holtec Decom.
Address: 1701d Dock Rd. Yaphank, NY	
Report To: Justin H.	Email To: Justin / Carlos G.
Copy To: C.garcia@holtec.com	Site Collection Info/Address: Buchanan, NY
Customer Project Name/Number: Indian Pt. / 21659	State: County/City: NY / Westchester Time Zone Collected: [ ] PT [ ] MT [ ] CT [X] ET
Phone: Email: 631-584-6521	Site/Facility ID #: Indian Point
Collected By (print): Justin H.	Purchase Order #: Quote #: Holtec account
Collected By (signature):	Turnaround Date Required: Normal
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)
	Compliance Monitoring? [ ] Yes [X] No
	DW PWS ID #: DW Location Code: NA
	Immediately Packed on Ice: [X] Yes [ ] No
	Field Filtered (if applicable): [ ] Yes [X] No Analysis: _____

* 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)

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N NA
Custody Signatures Present	Y	N NA
Collector Signature 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:		
Sample pH Acceptable	Y	N NA
pH Strips:		
Sulfide Present	Y	N NA
Lead Acetate Strips:		

LAB USE ONLY:
Lab Sample # / Comments:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	8260 (VOC's)	8270 BN (SVOC's)	RCRA - metals	Part-375 testing
EP-1	SL	G	4/10	10:00				2	X	X	X	
EP-2	SL	G		10:15				2	X	X	X	
N-Side wall	SL	G		10:30				2	X	X	X	
S-Side wall	SL	G		10:45				2	X	X	X	
E-Side wall	SL	G		11:00				2	X	X	X	
W-Side wall	SL	G		11:15				2	X	X	X	
L-1	SL	G		11:30				2	X	X	X	
L-2	SL	G		11:45				2	X	X	X	
Stockpile	SL	C		11:50	4/10	11:55		8				X

MS/MSD Samples

Customer Remarks / Special Conditions / Possible Hazards:

po - Holtec

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2820875

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: IR21
Cooler 1 Temp Upon Receipt: 5.3 oC
Cooler 1 Therm Corr. Factor: -0.4 oC
Cooler 1 Corrected Temp: 4.9 oC
Comments:

	Date/Time		Date/Time
Relinquished by/Company: (Signature)	4/11/24 12:27	Received by/Company: (Signature) ASPRACE (LT)	4/11/24 12:34
Relinquished by/Company: (Signature)	4/17/24	Received by/Company: (Signature) MSMR(AL)	4/17 2000
Relinquished by/Company: (Signature)	4/18/24 0100	Received by/Company: (Signature) Anthony Green APR 17 2024	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y (N) NA
HCL MeOH TSP Other

Non Conformance(s): YES / (NO)

Page: 1 of: 1

Anthony Green 4/18/24 0305 Mohamed 4/18/24 0100

04118124-0305

Attachment-C

Photo Log

TANK EQUIPPED WITH
PATENT $4,722,800
TANK
OIL/WATER SEPARATOR
STOYSTOWN, PA
DANGER
DANGER

ON
MODE
Y/+
N/-
BEi
MiniRAE 2000

ON

Y/+

MODE

N/-

GUEZLER
CHAMPION

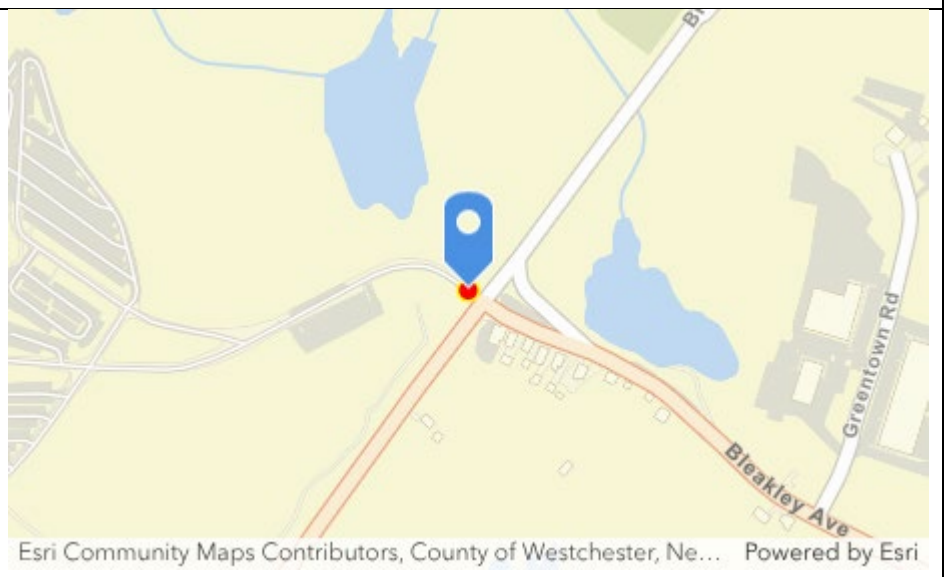
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF WATER
Site Visit Inspection

Violations of 6 NYCRR Part 750 are subject to applicable civil, administrative, and criminal sanctions set forth in

ECL Article 17 and as appropriate, the Clean Water Act.

This form is a record of conditions which are observed in the field at the time of inspection and documentation of compliance with Part 750.

A. Location and Inspection Information

A1. Location Name:	Buchanan Gas Turbine Site
A2: Address:	450 Broadway, Buchanan, NY 10511
A3. Municipality:	Cortlandt (T)
A4. Location Map:	
A5. Permit Number:	NY0234826
A5a. Permit Class:	01
A6. Permit Type	Industrial Wastewater
Other	
A7. Component Inspected:	Treatment System
Other	
A8. Reason for visit:	
Other	Final Closure Inspection

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF WATER
Site Visit Inspection

A9. County:	WESTCHESTER
A10. Region:	3
A11. Site Owner/Facility Representative:	Carlos Garcia, Chemistry/Environmental Supervisor
A12. Inspector's Name:	Erik Posner, Permit Writer and Roshan Cherish, Regional Inspector
A13. Other Agencies involved:	None
A14. Date:	August 5, 2025
A15. Time:	10:00 AM
A16. Weather:	Sunny
A17. Summary Rating:	Satisfactory

B. Inspection

B1. Inspection Comments:	The inspection verified that: • the influent and effluent pipes have been removed • solid and residual materials related to the treatment process have been removed • the above ground oil storage tank has been removed, • the oil water separator has been removed • the northwest berm wall has been removed and the area inside the berm has been filled and graded to prevent the collection of stormwater. The remaining berm walls will be removed in the future. • underground and aboveground pipes have been removed • the outfall has been removed • residuals have been removed and proof of contractual arrangement for the removal was provided to NYSDEC There are two excavation pits in the northeast portion of the site, where the former turbine buildings were located. These buildings did not produce any wastewater or stormwater discharges, did not connect to the wastewater treatment system, and were not relevant to the SPDES permit. These pits were excavated down to bedrock and currently contain collected rainwater, which was tested and determined to be free of contamination. The rainwater will be pumped into a frac tank for disposal and the pits filled and graded. All activities associated with the SPDES permit have permanently ceased. All equipment and residuals associated with the SPDES permit and treatment processes have been removed. There are no potential discharges to surface or groundwater.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF WATER
Site Visit Inspection

B2. Inspection Photos	br> br>
B3. Photo Comments:	Photo 1) Shows the AST has been removed, and the berm wall remains with its northwestern portion taken down Photo 2) Shows that the OWS, effluent piping and the outfall have also been removed.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF WATER
Site Visit Inspection

C. Closeout

C1. Inspector's Signature:	EP

Attachment 4
Waste Manifests and Disposal Tickets

CleanEarth

Manifest # 3293028

GLOBAL JOB NUMBER: 1024754 **FACILITY APPROVAL NUMBER:** 263070237

Please Check One:

- ☒ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 J Caldwell Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☐ Other CE of Brandywine, 16301 Gardner Road, Waldorf, MD 20601

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☒ Tons ☐ Yards	
IDEC-Hollier International		
450 Broadway Ave	TARE WEIGHT: ☒ Tons ☐ Yards	
Buchanan, NY, 10511		
GENERATOR'S PHONE: 646-355-8972	NET WEIGHT: ☒ Tons ☐ Yards	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Contaminated soil (coal impacted). BOX # RB 44047 RT

IDEC GT 2-3 PO # 42444

GENERATOR'S CERTIFICATION - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: on Behalf of IDEC Pedro Caserta Title: Supervisor

Signature: Date and Time: 4/1/2026 815am

TRANSPORTER

Company: WRS Environmental Services dba Champion Phone Number: 631-924-8111

Address: 65 Corporate Dr. Hauppauge, NY 11742 Truck # and License Plate: 102 34861 PF (NY)

Driver: T McConnell (Type or Print Clearly) SW Haulers Permit #: 268703 (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 4/1/26

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time:

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time:

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-601-1515

CleanEarth

Manifest # 3293029

GLOBAL JOB NUMBER: 1024754 **FACILITY APPROVAL NUMBER:** 263070237

Please Check One:

- [x] Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- [ ] Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- [ ] Clean Earth of New Castle, 94 J Caldwell Lane, New Castle, DE 19720, Ph: 302-427-6633
- [ ] Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- [ ] Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- [ ] Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- [ ] Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- [ ] Other CE of Brandywine, 15301 Gardner Road, Waldorf, MD 20601

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: [x] Tons [ ] Yards	
IPEC-Holtec International 450 Broadway Ave Buchanan, NY, 10511	TARE WEIGHT: [x] Tons [ ] Yards	
GENERATOR'S PHONE: 646-355-8972	NET WEIGHT: [x] Tons [ ] Yards	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Contaminated soil (only impacted). BOL-RB44876RT
IPEC GT 2-3 PO# 42444

GENERATOR'S CERTIFICATION - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

On behalf of Holtec Name: Pedro Greve Title: Supervisor

Signature: [signature] Date and Time: 4/1/2026

TRANSPORTER

Company: WRS Environmental Services dba Champion Phone Number: 631-924-8111

Address: 65 Corporate Dr. Hollsville, NY 11742 Truck # and License Plate: 157 AU4501F (NJ)

Driver: x Albert Velazquez (Type or Print Clearly) SW Haulers Permit #: 268709 (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: x [signature] Date and Time: x 4-1-26 0930

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: _____

GENERATOR

CleanEarth

Manifest # 3293030

GLOBAL JOB NUMBER: 1024754 **FACILITY APPROVAL NUMBER:** 263970237

Please Check One:

- [x] Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- [ ] Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- [ ] Clean Earth of New Castle, 94 J Caldwell Lane, New Castle, DE 19720, Ph: 302-427-6633
- [ ] Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- [ ] Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- [ ] Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- [ ] Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- [ ] Other CE of Brandywine, 16301 Gardner Road, Waldorf, MD 20601

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: [x] Tons [ ] Yards	
IPEC-Holtec International		
450 Broadway Ave	TARE WEIGHT: [x] Tons [ ] Yards	
Buchanan, NY, 10511		
GENERATOR'S PHONE: 646-355-8972	NET WEIGHT: [x] Tons [ ] Yards	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Contaminated Soil (oil impacted) BOX #1400287.

IPEL GT 2-3 PO# 42444

GENERATOR'S CERTIFICATION - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Pedro Guerra Title: Supervisor

Signature: Date and Time: 3/31/2026 730pm.

TRANSPORTER

Company: WRS Environmental Services dba Champion Phone Number: 631 924 9111

Address: 65 Corporate Dr. Hottsville, NY 11742 Truck # and License Plate: 102 34856 NJF (NY)

Driver: THEODORE L. (Type or Print Clearly) SW Haulers Permit #: 268703 (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 3/31/26

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time:

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time:

GENERATOR

CleanEarth

Manifest # 3293031

GLOBAL JOB NUMBER: 1034754 **FACILITY APPROVAL NUMBER:** 263070237

Please Check One:

- [X] Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- [ ] Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- [ ] Clean Earth of New Castle, 94 J Caldwell Lane, New Castle, DE 19720, Ph: 302-427-6633
- [ ] Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- [ ] Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- [ ] Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- [ ] Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- [ ] Other CE of Brandywine, 16301 Gardner Road, Waldorf, MD 20601

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: [X] Tons [ ] Yards	
IPEC-Holtec International		
450 Broadway Ave	TARE WEIGHT: [X] Tons [ ] Yards	
Buchanan, NY, 10511		
GENERATOR'S PHONE: 646-355-8972	NET WEIGHT: [X] Tons [ ] Yards	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Contaminated Soil (Oil impacted). BOX# 11931630
IPEL GT 2-3 PO# 424444

GENERATOR'S CERTIFICATION - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Pedro Guerra Title: Supervisor

Signature: [signature] Date and Time: 3/31/2026 730 am

TRANSPORTER

Company: WMS Environmental Services dba Champion Phone Number: 631-924-8111

Address: 65 Corporate Dr. Holtsville NY 11742 Truck # and License Plate: 157 AU95JF (NJ)

Driver: Cook, Michael J SW Haulers Permit #: 268704

(Type or Print Clearly) (applicable state permit#)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [signature] Date and Time: 03/31/26 0714

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: _____

GENERATOR

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	NYD 986 513 746		914-254-5367	

GENERATOR

5. Generator's Name and Mailing Address: NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION, 450 CLARKSON AVE, BROOKLYN NY 11203

Generator's Site Address (if different than mailing address): 3RD FLOOR SOUTH CABINETS, 59-17 JUNCTION BLVD, QUEENS NY 11373

Generator's Phone: 914 254 5367

6. Transporter 1 Company Name: GIORDANO CARTING — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: TRISTATE TRANSFER ASSOC. INC., 1149 RANDALL AVE, BRONX NY 10474 — U.S. EPA ID Number:

Facility's Phone: 718-617 0771

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	RQ, NA 2212, ASBESTOS, 9, PGIII	1	RL	20	Y.	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

9.1) NON FRIABLE WIRES, CABLES STRUCTURES BOXES (WORK AREA OF)

BOX #74350.

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: DU DESIRE OF MARIE — Signature: — Month: 03 Day: 31 Year: 26

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: CARLOS LOPEZ-ENCA — Signature — Month: 3 Day: 31 Year: 26

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number:

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY'S COPY

Attachment 5
MOSF License Application

New York State Department of Environmental Conservation
Division of Environmental Remediation

Application For Major Petroleum Facility License

Pursuant to Article 12 of the Navigation Law and 6 NYCRR 610; 17 NYCRR 30

Section A

Please Type or Print Clearly and Complete All Items

Return Completed Form To:

Expiration Date:

License Number
3-2140

DEC CBS Number: (If applicable)

Transaction Type
(Check all that apply)
- ☐ 1)Initial/New Facility
- ☐ 2)Change of Licensee
- ■ 3)Tank installation, Closing, or Repair
- ☐ 4)Information Correction
- ☐ 5) Renewal

Type of Licensee:
(check only one)
- ☐ State Government
- ☐ Local
- ☐ Federal Government
- ■ Corporate/Commerci

FACILITY

Facility Name: Indian Point Energy Center
Indian Point 2

Location (Not P.O. Boxes): Holtec Indian Point 2, LLC

Location (cont.): 450 Broadway, Suite 1

City: Buchanan | State: NY | Zip Code: 10511

County: Westchester | Township/City: Buchanan | Facility Operator Phone: 914-254-5035

Facility Operator:
Holtec Decommissioning International, LLC.
Frank Spagnuolo, Site VP

LICENSEE

Licensee Name: Holtec Indian Point 2, LLC

Address (Street and/or P.O.): 450 Broadway, Suite 1

City: Buchanan | State: NY | Zip Code: 10511

Licensee Telephone Number:

LEGAL AGENT

Legal Agent Name: The Corporation Trust Company

Address (Street and/or P.O.): Corporation Trust Center 1209 Orange St.

City: Wilmington | State: DE | Zip Code: 19801

Date Filed With The Secretary Of State: 11/12/2019

TYPE OF PETROLEUM FACILITY: (Check only one)
- ☐ 01=Storage Terminal/Petroleum Distributor
- ☐ 04=Manufacturing (Other than Chemical)/ Processing
- ☐ 06=Trucking/Transportation/Fl
- ☐ 11=Airline/Air Taxi
- ☐ 15=Railroad
- ☐ 99=Other (Specify):_____
- ■ 05=Utility
- ☐ 08=School
- ☐ 14=Refinery
- ☐ 16=Vessel/Barge
- ☐ 20=Chemical Mfg.

PRODUCT TRANSFER OPERATIONS: (Check all that apply)
- ■ 1=Tank Truck
- ☐ 2=Railroad Car
- ☐ 3=Vessel/Barge (incl. off-shore platform)
- ☐ 4=Pipeline
- ☐ 5=Other(Specify):

Average Daily Throughput (Gallons):

Total Storage Capacity (Gallons):

Emergency Contact Name: iCAS Security Shift Supervisor

Emergency Telephone Number: 914-254-5330

I hereby certify, under penalty of law, that all of the information provided on this form is true and correct. False statements made herein may be punishable as a criminal offense and/or a civil violation in accordance with applicable state and federal law.

Name of Licensee or Authorized Representative:

Title:

Signature: Date:

For Vessels Only
Vessel ID #:

Licensee is
(Check all that apply)
- ■ Facility Operator
- ■ Facility (Equip) Owner
- ■ Property Owner

CORRESPONDEN

(Please keep up to date - this information is used for mailing and contact puposes)

Facility Contact Person Name: Frank Spagnuolo

Contact Person Company Name: Holtec International, LLC

Address: 450 Broadway, Suite 1

Address (cont.):

City/State/Zip Code: Buchanan, NY 10511

Telephone Number: 914-254-5035 | E-Mail Address: f.spagnuolo@holtec.com

OFFICIAL USE ONLY

Date Received ____/____/_____

Sections Completed:
- A: ☐ Yes ☐ No
- B: ☐ Yes ☐ No
- C: ☐ Yes ☐ No
- D: ☐ Yes ☐ No

Date Processed ___/___/___

Reviewed by _____

Revised 12/19/2022

License Number: 3-2140

Section B - Tank Information

(Please use the key located on the last page to complete each item/column)

License Expiration Date:

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
Action	Tank Number	Tank Location	Status	Installation, Out of Service, or Permanent Closure Date (Month/ Day/Year)	Capacity (Gallons)	Product Stored (If Gasoline w/ethanol or Biodiesel, list % additive) %	Tank Type	Tank Internal Protection	Tank External Protection	Tank Secondary Containment	Tank Leak Detection	Tank Overfill Prevention	Tank Spill Prevention	Pumping/Dispensing Method	Piping Location	Piping Type	Piping External Protection	Piping Secondary Containment	Piping Leak Detection	Last Test (UST) or Inspection(AST) date (Month/Day/Year)
3	GT2LFST	5	3	6/1/1972	275	0001	01	00	00 00	00 00	00 00	00 00	00	00	03	01	00 01	00	00 00	11/26/22
3	GT 2/3 FOT	2	3	12/1/1970	213,840	0001	01	00	00 01	01 05	00 04	02 04	01	00	03	01	00 01	99	00 00	11/26/22

Note: If you need to add tanks to your registration, write them in using blank lines above. Attach additional sheets as needed.
Blank Section B is available at http://www.dec.ny.gov/docs/remediation_hudson_pdf/mosfappform.pdf

License Number:

Major Oil Storage Facility License Application

Section C - Tank Ownership Information (for MOSF tanks listed in Section B)

Tank Owner Information

■ Check box if same as Licensee

If tank owner is different from licensee, fill out information below:

Tank Owner Name (Company/Individual):

Contact Person:

Tank Owner Address:

City: | State: | ZIP:

Contact Person Telephone Number: | Contact Person email:

Specific Tanks Owned

■ Check box if this owner owns all tanks at this facility.

If not, list tanks owned by this owner below:

Tank Number:

Name of Class B (Daily On-Site) Operator:	Authorization No:
Name of Class A (Primary) Operator:	Authorization No:

Tank Owner Information

☐ Check box if same as Licensee.

If tank owner is different from licensee, fill out information below:

Tank Owner Name (Company/Individual):

Contact Person:

Tank Owner Address:

City: | State: | ZIP:

Contact Person Telephone Number: | Contact Person email:

Specific Tanks Owned

☐ Check box if this owner owns all tanks at this facility.

If not, list tanks owned by this owner below:

Tank Number:

Name of Class B (Daily On-Site) Operator:	Authorization No:
Name of Class A (Primary) Operator:	Authorization No:

SECTION D OF MAJOR PETROLEUM LICENSE APPLICATION - ON SHORE ONLY
(See Instructions)

INITIAL/NEW FACILITY AND CHANGE OF LICENSEE APPLICATIONS ONLY

APPLICANT, PLEASE CHECK APPROPRIATE BOX FOR QUESTIONS 1 THRU 6. ATTACH OR INSERT INFORMATION AS REQUIRED

	Yes	No	
1.	■	☐	Does this facility have a federal spill prevention control and countermeasure (SPCC) plan? If Yes, please attach a copy. If No, please see instructions.
2.	☐	■	Does this facility have an operations manual on file with the U.S. Coast Guard? If yes, please attach a copy. If no, please see instructions.
3.	☐	■	In addition to 1 and 2 above, does this facility have a plan for the prevention of petroleum spills or discharges? If so, please attach a copy.
4.	☐	■	Does this facility have a separate clean-up and removal plan? Please see instructions and attach a copy.
5.	■	☐	Are plans referenced in questions 1 through 4 above fully implemented? If not, indicate anticipated date for complete implementation. _____/___/_____
6.	■	☐	Has this facility experienced a spill or an uncontrolled discharge during the past five years? If so, please see instructions.

RENEWAL APPLICATIONS ONLY

APPLICANT, PLEASE CHECK APPROPRIATE BOX FOR QUESTIONS 7 THROUGH 9 AND ATTACH OR INSERT INFORMATION AS REQUIRED.

	Yes	No	
7.	☐	☐	Has the facility experienced a spill or an uncontrolled discharge during the past year? If so, please see instructions.
8.	☐	☐	Have any major additions or changes to the structure or equipment of the facility been made within the past year which would materially affect the potential for a petroleum discharge? If yes, please see instructions and attach requested information.
9.	☐	☐	Has the facility's federal SPCC plan, U.S. Coast Guard Operations Manual, and/or other spill control plans submitted for initial licensing been amended or otherwise changed during the past year? Please see instructions and attach requested information.

ALL APPLICATIONS

APPLICANT, PLEASE CHECK APPROPRIATE BOX FOR QUESTIONS 10 THROUGH 16 AND ATTACH OR INSERT INFORMATION AS REQUIRED.

	Yes	No	
10.	☐	■	Does this facility have any uncorrected violations cited by the U.S. Coast Guard and/or the U.S. Environmental Protection Agency? If so, please attach an explanation.
11.	■	☐	Is a general site plan included in the submitted plan(s)? If not, please attach a copy. If yes, specify plan and page. SPCC Plan - page 41
12.	■	☐	Does the submitted plan(s) indicate how petroleum spills or discharges are prevented from contaminating groundwater? If not, please see instructions. If yes, specify plan and page. ~~SPCC Plan - pages 25-28, 33, 34~~
13.	☐	■	Is this facility a member of a discharge clean-up organization or cooperative? If so, please enter name and address of organization, and attach a copy of the agreement.
			Name _____ Address _____
14.	■	☐	Does this facility contract for discharge clean-up services? If so, please enter name and address of contractor.
			Champion Environmental Services (Name) 17 Old Dock Road, Yaphank, NY 11980 (Address)
15	■	☐	Does this facility dispose of petroleum contaminated wastes (debris, dirt, sludges, sorbents, waste oil, etc.) off site? If so, please enter name and address of company(s) and the location(s) of disposal sites(s).
			Tradebe (Name) 136 Gracey Ave, Meriden, CT 06451 (Address) EPA # CTD021816889 (Site Location)
16.	■	☐	Does the submitted plan(s) show compliance with 6 NYCRR 613-2, 3 & 4 of the Petroleum Bulk Storage Regulations? If not, please indicate anticipated date for compliance. _____/___/_____

MAJOR OIL STORAGE LICENSE APPLICATION - SECTION B - TANK INFORMATION - CODE KEYS

Action (1)

1. Initial Listing
2. Add Tank
3. Close/Remove Tank
4. Information Correction
5. Repair/Reline Tank

Tank Location (3)

1. Aboveground-contact w/soil
2. Aboveground-contact w/ impervious barrier
3. Aboveground on saddles, legs, stilts, rack or cradle
4. Partially buried tank (tank with 10% or more below ground)
5. Underground including vaulted with no access for inspection
6. Aboveground in Subterranean Vault w/access for inspections

Status (4)

1. In-service
2. Out-of-service
3. Closed-Removed
4. Closed- In Place
5. Tank converted to Non-Regulated use

Products Stored (7)

Heating Oils: On-Site Consumption

0001. #2 Fuel Oil
0002. #4 Fuel Oil
0259. #5 Fuel Oil
0003. #6 Fuel Oil
0012. Kerosene
0591. Clarified Oil
2711. Biofuel Oil
2642. Used Oil (Heating)

Heating Oils: Resale/ Redistribution

2718. #2 Fuel Oil
2719. #4 Fuel Oil
2720. #5 Fuel Oil
2721. #6 Fuel Oil
2722. Kerosene
2723. Clarified Oil
2724. Biofuel Oil

Motor Fuels

0009. Gasoline
2712. Gasoline/Ethanol
0008. Diesel
2710. Biodiesel
0011. Jet Fuel
1044. Jet Fuel (Biofuel)
2641. Aviation Gasoline

Emergency Generator Fuels

0001. #2 Fuel Oil
2730. Biodiesel (E-Gen)
2731. Diesel (E-Gen)

Lubricating/Cutting Oils

0013. Lube Oil
0015. Motor Oil
1045. Gear/Spindle Oil
0010. Hydraulic Oil
0007. Cutting Oil
0021. Transmission Fluid
1836. Turbine Oil
0308. Petroleum Grease

Oils Used as Building Materials

0004. Asphalt
2626. Asphaltic Emulsions
0748. Form Oil

Petroleum Spirits

0014. White/Mineral Spirits
1731. Naptha

Mineral/Insulating Oils

0020. Insulating Oil (e.g., Transformer, Cable Oil)
2630. Mineral Oil

Waste/Used/Other Oils

0022 Waste/Used Oil
9999. Other-Please list:*

Crude Oil

0006. Crude Oil
0701. Crude Oil Fractions

Tank Type (8)

01. Steel/Carbon Steel/Iron
02. Galvanized Steel Alloy
03. Stainless Steel Alloy
04. Fiberglass Coated Steel
05. Steel Tank in Concrete
06. Fiberglass Reinforced Plastic (FRP)
07. Plastic
08. Equivalent Technology
09. Concrete
10. Urethane Clad Steel
99. Other-Please list:*

Internal Protection (9)

00. None
01 Epoxy Liner
02. Rubber Liner
03. Fiberglass Liner (FRP)
04. Glass Liner
99. Other-Please list:*

External Protection (10/18)

00. None
01. Painted/Asphalt Coating
02. Original Sacrificial Anode
03. Original Impressed Current
04. Fiberglass
05. Jacketed
06. Wrapped (Piping)
07 Retrofitted Sacrificial Anode
08. Retrofitted Impressed Current
09. Urethane
99. Other-Please list:*

Tank Secondary Containment (11)

00. None
01. Diking (AST Only)
02. Vault (w/access)
03. Vault (w/o access)
04. Double-Walled (UST Only)
05. Synthetic Liner
06. Remote Impounding Area
07. Excavation Liner
09. Modified Double-Walled (AST Only)
10. Impervious Underlayment (AST Only)**
11. Double Bottom (AST Only)**
12. Double-Walled (AST Only)
99. Other - Please list*

Tank Leak Detection (12)

00. None
01. Interstitial Electronic Monitoring
02. Interstitial Manual Monitoring
03. Vapor Well
04. Groundwater Well
05. In-Tank System (Auto Tank
06. Impervious Barrier/Concrete Pad (AST Only)
07. Statistical Inventory Reconciliation (SIR)
08. Weep holes in vaults with no access for inspection
99. Other-Please list: *

Overfill Protection (13)

00. None
01. Float Vent Valve
02. High Level Alarm
03. Automatic Shut-Off
04. Product Level Gauge (AST Only)
05. Vent Whistle
99. Other-Please list:*

Spill Prevention (14)

00. None
02. Transfer Station Containment
01. Catch Basin
99. Other-Please list:*

Pumping/Dispensing Method (15)

00. None
01. Presurized Dispenser
02. Suction Dispenser
03. Gravity
04. On-Site Heating System (Suction)
05. On-Site Heating System (Supply/Return)
06. Tank-Mounted Dispenser
07. Loading Rack/Transfer Pump

Piping Location (16)

00. No Piping
01. Aboveground
02. Underground/On-ground
03. Aboveground/Underground Combination

Piping Type (17)

00. None
01. Steel/Carbon Steel/Iron
02. Galvanized Steel
03. Stainless Steel Alloy
04. Fiberglass Coated Steel
05. Steel Encased in Concrete
06. Fiberglass Reinforced Plastic (FRP)
07. Plastic
08. Equivalent Technology
09. Concrete
10. Copper
11. Flexible Piping
99. Other-Please list:*

Piping Secondary Containment (19)

00. None
01. Diking (Aboveground Only)
02. Vault (w/access)
04. Double-Walled (Underground Only)
06. Remote Impounding Area
07. Trench Liner
12. Double-Walled (Aboveground Only)
99. Other-Please list: *

Pipe Leak Detection (20)

00. None
01. Interstitial Electronic Monitoring
02. Insterstitial Manual Monitoring
03. Vapor Well
04. Groundwater Well
07. Pressurized Piping Leak Detector
09. Exempt Suction Piping
10. Statistical Inventory Reconciliation (SIR)
99. Other-Please list:*

- - - - - - - - - - - - - -

* If other, please list on a separate sheet including tank number,

** Each of these codes must be combined with code 01 or 06 to meet compliance requirements.

Attachment 6
Monitoring Well Data

ANALYTICAL REPORT

Lab Number:	L2018768
Client:	GZA GeoEnvironmental, Inc. 104 West 29th Street, 10th Floor New York, NY 10001
ATTN:	Joshua Simpson
Phone:	(212) 594-8140
Project Name:	IPEC BCP SITES 2 THROUGH 4
Project Number:	01.0017869.05
Report Date:	05/12/20

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: IPEC BCP SITES 2 THROUGH 4
Project Number: 01.0017869.05

Lab Number: L2018768
Report Date: 05/12/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2018768-01	MW-1	WATER	BUCHANAN, NY	05/05/20 11:55	05/06/20
L2018768-02	EQUIPMENT BLANK-050520	WATER	BUCHANAN, NY	05/05/20 12:30	05/06/20
L2018768-03	FIELD BLANK-050520	WATER	BUCHANAN, NY	05/05/20 12:40	05/06/20
L2018768-04	MW-101	WATER	BUCHANAN, NY	05/06/20 08:55	05/06/20
L2018768-05	MW-101 (DUP)	WATER	BUCHANAN, NY	05/06/20 08:55	05/06/20
L2018768-06	MW-104	WATER	BUCHANAN, NY	05/06/20 11:00	05/06/20
L2018768-07	EQUIPMENT BLANK-050620	WATER	BUCHANAN, NY	05/06/20 11:40	05/06/20
L2018768-08	FIELD BLANK-050620	WATER	BUCHANAN, NY	05/06/20 11:30	05/06/20
L2018768-09	TRIP BLANK	WATER	BUCHANAN, NY	05/01/20 00:00	05/06/20

Project Name:	IPEC BCP SITES 2 THROUGH 4	**Lab Number:**	L2018768
Project Number:	01.0017869.05	**Report Date:**	05/12/20

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	IPEC BCP SITES 2 THROUGH 4	**Lab Number:**	L2018768
Project Number:	01.0017869.05	**Report Date:**	05/12/20

Case Narrative (continued)

Report Submission

May 12, 2020: This final report includes the results of all requested analyses.

May 11, 2020: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L2018768-01 and -03: The analysis of Hexavalent Chromium was received with the method required holding time exceeded.

Semivolatile Organics

The WG1368231-2/-3 LCS/LCSD recoveries, associated with L2018768-01, -03 through -06, and -08, are below the acceptance criteria for benzoic acid (0%/0%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

Dissolved Metals

L2018768-03: The Field Blank has results for barium and sodium present above the reporting limits. The sample was verified as being labeled correctly by the laboratory and the previous analysis showed there was no potential for carry over.

L2018768-08: The Field Blank has a result for sodium present above the reporting limit. The sample was verified as being labeled correctly by the laboratory and the previous analysis showed there was no potential for carry over.

The WG1368327-3 MS recoveries for calcium (70%) and sodium (0%), performed on L2018768-04, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1368327-3 MS recovery, performed on L2018768-04, is outside the acceptance criteria for magnesium (73%). A post digestion spike was performed and was within acceptance criteria.

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768
Project Number: 01.0017869.05 **Report Date:** 05/12/20

Case Narrative (continued)

The WG1368496-3 MS recovery, performed on L2018768-03, is outside the acceptance criteria for mercury (68%). A post digestion spike was performed and was within acceptance criteria.

Total Metals

L2018768-08: The Field Blank has results for aluminum and barium present above the reporting limits. The sample was verified as being labeled correctly by the laboratory and the previous analysis showed there was no potential for carry over.

The WG1368726-3 MS recovery for sodium (0%), performed on L2018768-01, does not apply because the sample concentration is greater than four times the spike amount added.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 05/12/20

ORGANICS

VOLATILES

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-01
Client ID: MW-1
Sample Location: BUCHANAN, NY

Date Collected: 05/05/20 11:55
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/07/20 11:03
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-01 Date Collected: 05/05/20 11:55

Client ID: MW-1 Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-01 Date Collected: 05/05/20 11:55

Client ID: MW-1 Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	103		70-130

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-03
Client ID: FIELD BLANK-050520
Sample Location: BUCHANAN, NY

Date Collected: 05/05/20 12:40
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/07/20 08:43
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-03 Date Collected: 05/05/20 12:40

Client ID: FIELD BLANK-050520 Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-03 Date Collected: 05/05/20 12:40

Client ID: FIELD BLANK-050520 Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	102		70-130

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-04
Client ID: MW-101
Sample Location: BUCHANAN, NY

Date Collected: 05/06/20 08:55
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/07/20 09:53
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-04 Date Collected: 05/06/20 08:55

Client ID: MW-101 Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-04 Date Collected: 05/06/20 08:55

Client ID: MW-101 Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	100		70-130

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-05
Client ID: MW-101 (DUP)
Sample Location: BUCHANAN, NY

Date Collected: 05/06/20 08:55
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/07/20 10:16
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-05 Date Collected: 05/06/20 08:55

Client ID: MW-101 (DUP) Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-05 Date Collected: 05/06/20 08:55

Client ID: MW-101 (DUP) Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	102		70-130

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-06
Client ID: MW-104
Sample Location: BUCHANAN, NY

Date Collected: 05/06/20 11:00
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/07/20 10:39
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-06 Date Collected: 05/06/20 11:00

Client ID: MW-104 Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-06 Date Collected: 05/06/20 11:00

Client ID: MW-104 Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	104		70-130

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-08
Client ID: FIELD BLANK-050620
Sample Location: BUCHANAN, NY

Date Collected: 05/06/20 11:30
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/07/20 09:06
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-08 Date Collected: 05/06/20 11:30

Client ID: FIELD BLANK-050620 Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-08 Date Collected: 05/06/20 11:30

Client ID: FIELD BLANK-050620 Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	102		70-130

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-09
Client ID: TRIP BLANK
Sample Location: BUCHANAN, NY

Date Collected: 05/01/20 00:00
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/07/20 09:30
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-09 Date Collected: 05/01/20 00:00

Client ID: TRIP BLANK Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-09 Date Collected: 05/01/20 00:00

Client ID: TRIP BLANK Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	102		70-130

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/07/20 07:57
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-06,08-09 Batch: WG1368369-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/07/20 07:57
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-06,08-09 Batch: WG1368369-5					
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/07/20 07:57
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-06,08-09 Batch: WG1368369-5					
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4

Project Number: 01.0017869.05

Lab Number: L2018768

Report Date: 05/12/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-06,08-09 Batch: WG1368369-3 WG1368369-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	100		110		70-130	10		20
Chloroform	110		110		70-130	0		20
Carbon tetrachloride	110		110		63-132	0		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	99		99		63-130	0		20
1,1,2-Trichloroethane	110		110		70-130	0		20
Tetrachloroethene	120		120		70-130	0		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	90		93		62-150	3		20
1,2-Dichloroethane	110		120		70-130	9		20
1,1,1-Trichloroethane	120		120		67-130	0		20
Bromodichloromethane	100		100		67-130	0		20
trans-1,3-Dichloropropene	110		110		70-130	0		20
cis-1,3-Dichloropropene	97		100		70-130	3		20
1,1-Dichloropropene	110		110		70-130	0		20
Bromoform	100		100		54-136	0		20
1,1,2,2-Tetrachloroethane	91		92		67-130	1		20
Benzene	100		100		70-130	0		20
Toluene	100		100		70-130	0		20
Ethylbenzene	100		110		70-130	10		20
Chloromethane	95		97		64-130	2		20
Bromomethane	**35**	Q	43		39-139	**21**	Q	20

Lab Control Sample Analysis
Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4
Project Number: 01.0017869.05

Lab Number: L2018768
Report Date: 05/12/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-06,08-09 Batch: WG1368369-3 WG1368369-4								
Vinyl chloride	83		87		55-140	5		20
Chloroethane	60		64		55-138	6		20
1,1-Dichloroethene	97		100		61-145	3		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Trichloroethene	98		100		70-130	2		20
1,2-Dichlorobenzene	96		97		70-130	1		20
1,3-Dichlorobenzene	98		99		70-130	1		20
1,4-Dichlorobenzene	98		98		70-130	0		20
Methyl tert butyl ether	93		94		63-130	1		20
p/m-Xylene	100		105		70-130	5		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	110		110		70-130	0		20
Dibromomethane	100		110		70-130	10		20
1,2,3-Trichloropropane	96		96		64-130	0		20
Acrylonitrile	96		100		70-130	4		20
Styrene	100		100		70-130	0		20
Dichlorodifluoromethane	120		120		36-147	0		20
Acetone	110		100		58-148	10		20
Carbon disulfide	88		93		51-130	6		20
2-Butanone	120		110		63-138	9		20
Vinyl acetate	130		130		70-130	0		20
4-Methyl-2-pentanone	91		93		59-130	2		20
2-Hexanone	96		95		57-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4
Project Number: 01.0017869.05

Lab Number: L2018768
Report Date: 05/12/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-06,08-09 Batch: WG1368369-3 WG1368369-4								
Bromochloromethane	100		110		70-130	10		20
2,2-Dichloropropane	110		110		63-133	0		20
1,2-Dibromoethane	110		110		70-130	0		20
1,3-Dichloropropane	110		110		70-130	0		20
1,1,1,2-Tetrachloroethane	110		110		64-130	0		20
Bromobenzene	99		100		70-130	1		20
n-Butylbenzene	96		96		53-136	0		20
sec-Butylbenzene	91		91		70-130	0		20
tert-Butylbenzene	91		92		70-130	1		20
o-Chlorotoluene	97		99		70-130	2		20
p-Chlorotoluene	95		96		70-130	1		20
1,2-Dibromo-3-chloropropane	81		83		41-144	2		20
Hexachlorobutadiene	100		110		63-130	10		20
Isopropylbenzene	96		97		70-130	1		20
p-Isopropyltoluene	92		93		70-130	1		20
Naphthalene	**65**	Q	**68**	Q	70-130	5		20
n-Propylbenzene	96		97		69-130	1		20
1,2,3-Trichlorobenzene	76		82		70-130	8		20
1,2,4-Trichlorobenzene	87		90		70-130	3		20
1,3,5-Trimethylbenzene	98		99		64-130	1		20
1,2,4-Trimethylbenzene	97		97		70-130	0		20
p-Diethylbenzene	86		85		70-130	1		20
p-Ethyltoluene	93		94		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4

Project Number: 01.0017869.05

Lab Number: L2018768

Report Date: 05/12/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-06,08-09 Batch: WG1368369-3 WG1368369-4								
1,2,4,5-Tetramethylbenzene	82		82		70-130	0		20
Ethyl ether	**55**	Q	59		59-134	7		20
trans-1,4-Dichloro-2-butene	72		73		70-130	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	117		117		70-130
Toluene-d8	104		103		70-130
4-Bromofluorobenzene	93		94		70-130
Dibromofluoromethane	102		103		70-130

SEMIVOLATILES

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-01
Client ID: MW-1
Sample Location: BUCHANAN, NY

Date Collected: 05/05/20 11:55
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 05/07/20 17:24
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 05/07/20 08:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-01 Date Collected: 05/05/20 11:55

Client ID: MW-1 Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		21-120
Phenol-d6	54		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	75		15-120
2,4,6-Tribromophenol	69		10-120
4-Terphenyl-d14	90		41-149

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-01
Client ID: MW-1
Sample Location: BUCHANAN, NY

Date Collected: 05/05/20 11:55
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 05/08/20 14:12
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 05/07/20 08:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.03	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.02	J	ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.03	J	ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-01 Date Collected: 05/05/20 11:55

Client ID: MW-1 Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		21-120
Phenol-d6	53		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	82		15-120
2,4,6-Tribromophenol	99		10-120
4-Terphenyl-d14	102		41-149

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-01
Client ID: MW-1
Sample Location: BUCHANAN, NY

Date Collected: 05/05/20 11:55
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 05/11/20 18:12
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 05/09/20 09:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.144	0.0326	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	40		15-110

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-01
Client ID: MW-1
Sample Location: BUCHANAN, NY

Date Collected: 05/05/20 11:55
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/08/20 15:32
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 05/07/20 11:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	1.48	J	ng/l	1.77	0.362	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.77	0.351	1
Perfluorobutanesulfonic Acid (PFBS)	2.64		ng/l	1.77	0.211	1
Perfluorohexanoic Acid (PFHxA)	0.936	J	ng/l	1.77	0.291	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.77	0.200	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.77	0.333	1
Perfluorooctanoic Acid (PFOA)	2.27		ng/l	1.77	0.209	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	16.7		ng/l	1.77	1.18	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.77	0.610	1
Perfluorononanoic Acid (PFNA)	0.933	J	ng/l	1.77	0.276	1
Perfluorooctanesulfonic Acid (PFOS)	4.83		ng/l	1.77	0.447	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.77	0.270	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.77	1.07	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.77	0.574	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.77	0.230	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.77	0.869	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.77	0.514	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.77	0.713	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.77	0.330	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.77	0.290	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.77	0.220	1
PFOA/PFOS, Total	7.10		ng/l	1.77	0.209	1

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-01 Date Collected: 05/05/20 11:55

Client ID: MW-1 Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	89		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	72		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	84		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	59		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	76		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	116		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	86		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	223		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	80		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	106		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	85		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	127		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	54		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	79		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	33		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	58		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	68		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	59		33-143

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-02
Client ID: EQUIPMENT BLANK-050520
Sample Location: BUCHANAN, NY

Date Collected: 05/05/20 12:30
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/08/20 14:25
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 05/07/20 11:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.76	0.359	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.76	0.348	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.76	0.210	1
Perfluorohexanoic Acid (PFHxA)	0.317	J	ng/l	1.76	0.289	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.76	0.198	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.76	0.331	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.76	0.208	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.76	1.17	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.76	0.606	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.76	0.275	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.76	0.444	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.76	0.268	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.76	1.07	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.76	0.570	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.76	0.229	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.76	0.863	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.76	0.510	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.76	0.708	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.76	0.327	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.76	0.288	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.76	0.218	1
PFOA/PFOS, Total	ND		ng/l	1.76	0.208	1

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-02 Date Collected: 05/05/20 12:30

Client ID: EQUIPMENT BLANK-050520 Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	99		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	95		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	91		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	84		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	94		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	115		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	98		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	104		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	84		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	92		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	91		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	88		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	70		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	94		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	60		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	75		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	91		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	76		33-143

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-03
Client ID: FIELD BLANK-050520
Sample Location: BUCHANAN, NY

Date Collected: 05/05/20 12:40
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 05/07/20 17:48
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 05/07/20 08:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-03 Date Collected: 05/05/20 12:40

Client ID: FIELD BLANK-050520 Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		21-120
Phenol-d6	54		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	68		15-120
2,4,6-Tribromophenol	59		10-120
4-Terphenyl-d14	82		41-149

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-03
Client ID: FIELD BLANK-050520
Sample Location: BUCHANAN, NY

Date Collected: 05/05/20 12:40
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 05/08/20 14:33
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 05/07/20 08:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.02	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-03 Date Collected: 05/05/20 12:40

Client ID: FIELD BLANK-050520 Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		21-120
Phenol-d6	50		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	79		15-120
2,4,6-Tribromophenol	88		10-120
4-Terphenyl-d14	94		41-149

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-03
Client ID: FIELD BLANK-050520
Sample Location: BUCHANAN, NY

Date Collected: 05/05/20 12:40
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 05/09/20 10:34
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 05/07/20 17:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.139	0.0314	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	32		15-110

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-03
Client ID: FIELD BLANK-050520
Sample Location: BUCHANAN, NY

Date Collected: 05/05/20 12:40
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/08/20 14:42
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 05/07/20 11:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.80	0.368	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.80	0.357	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.80	0.215	1
Perfluorohexanoic Acid (PFHxA)	0.318	J	ng/l	1.80	0.296	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.80	0.203	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.80	0.339	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.80	0.213	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.80	1.20	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.80	0.621	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.80	0.282	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.80	0.455	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.80	0.274	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.80	1.09	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.80	0.585	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.80	0.235	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.80	0.884	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.80	0.523	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.80	0.726	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.80	0.336	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.80	0.295	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.80	0.224	1
PFOA/PFOS, Total	ND		ng/l	1.80	0.213	1

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-03 Date Collected: 05/05/20 12:40

Client ID: FIELD BLANK-050520 Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	99		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	95		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	90		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	84		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	91		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	111		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	95		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	107		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	84		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	90		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	87		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	77		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	73		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	97		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	54		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	76		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	90		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	78		33-143

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-04
Client ID: MW-101
Sample Location: BUCHANAN, NY

Date Collected: 05/06/20 08:55
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 05/07/20 18:11
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 05/07/20 08:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-04 Date Collected: 05/06/20 08:55

Client ID: MW-101 Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		21-120
Phenol-d6	43		10-120
Nitrobenzene-d5	55		23-120
2-Fluorobiphenyl	63		15-120
2,4,6-Tribromophenol	53		10-120
4-Terphenyl-d14	88		41-149

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-04
Client ID: MW-101
Sample Location: BUCHANAN, NY

Date Collected: 05/06/20 08:55
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 05/08/20 14:53
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 05/07/20 08:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.03	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-04 Date Collected: 05/06/20 08:55

Client ID: MW-101 Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	39		21-120
Phenol-d6	39		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	63		10-120
4-Terphenyl-d14	95		41-149

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-04
Client ID: MW-101
Sample Location: BUCHANAN, NY

Date Collected: 05/06/20 08:55
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 05/09/20 11:05
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 05/07/20 17:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.139	0.0314	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	34		15-110

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-04
Client ID: MW-101
Sample Location: BUCHANAN, NY

Date Collected: 05/06/20 08:55
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/08/20 15:48
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 05/07/20 11:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	7.42		ng/l	1.82	0.371	1
Perfluoropentanoic Acid (PFPeA)	1.44	J	ng/l	1.82	0.360	1
Perfluorobutanesulfonic Acid (PFBS)	1.63	J	ng/l	1.82	0.216	1
Perfluorohexanoic Acid (PFHxA)	1.15	J	ng/l	1.82	0.298	1
Perfluoroheptanoic Acid (PFHpA)	0.742	J	ng/l	1.82	0.205	1
Perfluorohexanesulfonic Acid (PFHxS)	0.454	J	ng/l	1.82	0.342	1
Perfluorooctanoic Acid (PFOA)	7.50		ng/l	1.82	0.214	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	17.0		ng/l	1.82	1.21	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.82	0.625	1
Perfluorononanoic Acid (PFNA)	0.756	J	ng/l	1.82	0.284	1
Perfluorooctanesulfonic Acid (PFOS)	4.03		ng/l	1.82	0.458	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.82	0.276	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.82	1.10	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.82	0.589	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.82	0.236	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.82	0.891	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.82	0.527	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.82	0.731	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.82	0.338	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.82	0.297	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.82	0.225	1
PFOA/PFOS, Total	11.5		ng/l	1.82	0.214	1

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-04 Date Collected: 05/06/20 08:55

Client ID: MW-101 Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	83		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	77		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	93		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	61		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	76		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	120		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	84		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	169		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	72		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	98		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	76		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	94		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	52		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	77		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	24		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	51		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	75		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	62		33-143

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-05
Client ID: MW-101 (DUP)
Sample Location: BUCHANAN, NY

Date Collected: 05/06/20 08:55
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 05/07/20 18:35
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 05/07/20 08:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-05 Date Collected: 05/06/20 08:55

Client ID: MW-101 (DUP) Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		21-120
Phenol-d6	50		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	71		15-120
2,4,6-Tribromophenol	55		10-120
4-Terphenyl-d14	86		41-149

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-05
Client ID: MW-101 (DUP)
Sample Location: BUCHANAN, NY

Date Collected: 05/06/20 08:55
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 05/08/20 15:14
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 05/07/20 08:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-05 Date Collected: 05/06/20 08:55

Client ID: MW-101 (DUP) Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	53		21-120
Phenol-d6	46		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	78		15-120
2,4,6-Tribromophenol	77		10-120
4-Terphenyl-d14	95		41-149

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-05
Client ID: MW-101 (DUP)
Sample Location: BUCHANAN, NY

Date Collected: 05/06/20 08:55
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 05/09/20 11:36
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 05/07/20 17:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.139	0.0314	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	36		15-110

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-05
Client ID: MW-101 (DUP)
Sample Location: BUCHANAN, NY

Date Collected: 05/06/20 08:55
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/08/20 16:21
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 05/07/20 11:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	7.87		ng/l	1.81	0.370	1
Perfluoropentanoic Acid (PFPeA)	1.66	J	ng/l	1.81	0.359	1
Perfluorobutanesulfonic Acid (PFBS)	1.35	J	ng/l	1.81	0.216	1
Perfluorohexanoic Acid (PFHxA)	1.18	J	ng/l	1.81	0.297	1
Perfluoroheptanoic Acid (PFHpA)	0.888	J	ng/l	1.81	0.204	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.81	0.340	1
Perfluorooctanoic Acid (PFOA)	7.34		ng/l	1.81	0.214	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	10.2		ng/l	1.81	1.21	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.81	0.623	1
Perfluorononanoic Acid (PFNA)	0.793	J	ng/l	1.81	0.283	1
Perfluorooctanesulfonic Acid (PFOS)	4.17		ng/l	1.81	0.456	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.81	0.275	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.81	1.10	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.81	0.587	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.81	0.236	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.81	0.888	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.81	0.525	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.81	0.728	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.81	0.337	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.81	0.296	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.81	0.225	1
PFOA/PFOS, Total	11.5		ng/l	1.81	0.214	1

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-05 Date Collected: 05/06/20 08:55

Client ID: MW-101 (DUP) Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	84		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	82		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	87		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	63		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	78		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	112		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	87		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	152		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	74		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	88		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	79		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	86		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	51		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	84		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	27		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	55		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	75		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	66		33-143

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-06
Client ID: MW-104
Sample Location: BUCHANAN, NY

Date Collected: 05/06/20 11:00
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 05/07/20 18:59
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 05/07/20 08:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-06 Date Collected: 05/06/20 11:00

Client ID: MW-104 Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		21-120
Phenol-d6	50		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	69		15-120
2,4,6-Tribromophenol	53		10-120
4-Terphenyl-d14	77		41-149

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-06
Client ID: MW-104
Sample Location: BUCHANAN, NY

Date Collected: 05/06/20 11:00
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 05/08/20 15:35
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 05/07/20 08:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-06 Date Collected: 05/06/20 11:00

Client ID: MW-104 Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		21-120
Phenol-d6	47		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	79		15-120
2,4,6-Tribromophenol	82		10-120
4-Terphenyl-d14	93		41-149

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-06
Client ID: MW-104
Sample Location: BUCHANAN, NY

Date Collected: 05/06/20 11:00
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 05/11/20 13:21
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 05/07/20 17:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.139	0.0314	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	34		15-110

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-06
Client ID: MW-104
Sample Location: BUCHANAN, NY

Date Collected: 05/06/20 11:00
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/08/20 16:38
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 05/07/20 11:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	7.02		ng/l	1.80	0.367	1
Perfluoropentanoic Acid (PFPeA)	6.10		ng/l	1.80	0.356	1
Perfluorobutanesulfonic Acid (PFBS)	1.41	J	ng/l	1.80	0.214	1
Perfluorohexanoic Acid (PFHxA)	6.26		ng/l	1.80	0.295	1
Perfluoroheptanoic Acid (PFHpA)	6.15		ng/l	1.80	0.202	1
Perfluorohexanesulfonic Acid (PFHxS)	1.07	J	ng/l	1.80	0.338	1
Perfluorooctanoic Acid (PFOA)	22.0		ng/l	1.80	0.212	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	75.8		ng/l	1.80	1.20	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.80	0.619	1
Perfluorononanoic Acid (PFNA)	0.712	J	ng/l	1.80	0.280	1
Perfluorooctanesulfonic Acid (PFOS)	1.87		ng/l	1.80	0.453	1
Perfluorodecanoic Acid (PFDA)	0.806	J	ng/l	1.80	0.273	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.80	1.09	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.80	0.583	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.80	0.234	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.80	0.881	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.80	0.522	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.80	0.723	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.80	0.334	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.80	0.294	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.80	0.223	1
PFOA/PFOS, Total	23.9		ng/l	1.80	0.212	1

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-06 Date Collected: 05/06/20 11:00

Client ID: MW-104 Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	89		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	73		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	83		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	60		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	80		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	113		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	94		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	226		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	85		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	100		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	89		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	129		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	54		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	86		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	38		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	56		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	72		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	61		33-143

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-07
Client ID: EQUIPMENT BLANK-050620
Sample Location: BUCHANAN, NY

Date Collected: 05/06/20 11:40
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/08/20 14:59
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 05/07/20 11:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.78	0.364	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.78	0.354	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.78	0.212	1
Perfluorohexanoic Acid (PFHxA)	0.307	J	ng/l	1.78	0.293	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.78	0.201	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.78	0.336	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.78	0.211	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.78	1.19	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.78	0.614	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.78	0.278	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.78	0.450	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.78	0.271	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.78	1.08	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.78	0.578	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.78	0.232	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.78	0.875	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.78	0.518	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.78	0.718	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.78	0.332	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.78	0.292	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.78	0.221	1
PFOA/PFOS, Total	ND		ng/l	1.78	0.211	1

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-07 Date Collected: 05/06/20 11:40

Client ID: EQUIPMENT BLANK-050620 Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	98		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	94		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	93		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	82		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	93		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	114		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	95		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	107		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	87		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	101		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	95		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	87		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	76		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	100		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	67		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	80		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	92		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	80		33-143

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-08
Client ID: FIELD BLANK-050620
Sample Location: BUCHANAN, NY

Date Collected: 05/06/20 11:30
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 05/07/20 19:22
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 05/07/20 08:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-08 Date Collected: 05/06/20 11:30

Client ID: FIELD BLANK-050620 Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		21-120
Phenol-d6	56		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	71		15-120
2,4,6-Tribromophenol	58		10-120
4-Terphenyl-d14	82		41-149

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-08
Client ID: FIELD BLANK-050620
Sample Location: BUCHANAN, NY

Date Collected: 05/06/20 11:30
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 05/08/20 15:56
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 05/07/20 08:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	0.02	J	ug/l	0.10	0.01	1
Phenanthrene	0.09	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-08 Date Collected: 05/06/20 11:30

Client ID: FIELD BLANK-050620 Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		21-120
Phenol-d6	52		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	81		15-120
2,4,6-Tribromophenol	89		10-120
4-Terphenyl-d14	94		41-149

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-08
Client ID: FIELD BLANK-050620
Sample Location: BUCHANAN, NY

Date Collected: 05/06/20 11:30
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 05/11/20 13:50
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 05/07/20 17:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.139	0.0314	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	42		15-110

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-08
Client ID: FIELD BLANK-050620
Sample Location: BUCHANAN, NY

Date Collected: 05/06/20 11:30
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/08/20 15:15
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 05/07/20 11:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.79	0.366	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.79	0.355	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.79	0.213	1
Perfluorohexanoic Acid (PFHxA)	0.337	J	ng/l	1.79	0.294	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.79	0.202	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.79	0.337	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.79	0.211	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.79	1.19	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.79	0.616	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.79	0.280	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.79	0.452	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.79	0.272	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.79	1.09	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.79	0.581	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.79	0.233	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.79	0.878	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.79	0.520	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.79	0.720	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.79	0.333	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.79	0.293	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.79	0.222	1
PFOA/PFOS, Total	ND		ng/l	1.79	0.211	1

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-08 Date Collected: 05/06/20 11:30

Client ID: FIELD BLANK-050620 Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	101		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	96		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	96		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	87		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	96		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	122		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	98		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	102		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	86		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	99		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	95		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	73		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	77		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	100		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	61		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	82		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	94		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	77		33-143

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/08/20 14:09
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 05/07/20 06:36

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-08 Batch: WG1368160-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.00	0.408
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.00	0.396
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.238
Perfluorohexanoic Acid (PFHxA)	0.396	J	ng/l	2.00	0.328
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.225
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.376
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	0.236
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.00	1.33
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.688
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.312
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.504
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.304
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	1.21
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.648
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.260
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.980
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.804
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.372
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.327
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.00	0.248
PFOA/PFOS, Total	ND		ng/l	2.00	0.236

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/08/20 14:09
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 05/07/20 06:36

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-08 Batch: WG1368160-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	99		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	94		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	94		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	85		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	94		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	118		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	100		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	106		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	88		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	100		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	98		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	91		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	84		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	96		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	56		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	85		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	94		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	80		33-143

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/07/20 16:14
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 05/07/20 08:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-06,08 Batch: WG1368231-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/07/20 16:14
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 05/07/20 08:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-06,08 Batch: WG1368231-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
2-Methylnaphthalene	ND		ug/l	2.0	0.45
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/07/20 16:14
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 05/07/20 08:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-06,08 Batch: WG1368231-1					
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		21-120
Phenol-d6	49		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	65		15-120
2,4,6-Tribromophenol	48		10-120
4-Terphenyl-d14	79		41-149

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 05/08/20 13:30
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 05/07/20 08:39

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01,03-06,08 Batch: WG1368235-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	0.05	J	ug/l	0.10	0.02
Benzo(b)fluoranthene	0.04	J	ug/l	0.10	0.01
Benzo(k)fluoranthene	0.04	J	ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	0.08	J	ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	0.10	J	ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 05/08/20 13:30
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 05/07/20 08:39

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01,03-06,08 Batch: WG1368235-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	53		21-120
Phenol-d6	46		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	77		15-120
2,4,6-Tribromophenol	72		10-120
4-Terphenyl-d14	97		41-149

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 05/09/20 01:25
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 05/07/20 17:00

Parameter	Result	Qualifier	Units	RL	MDL
1,4 Dioxane by 8270D-SIM - Mansfield Lab for sample(s): 03-06,08 Batch: WG1368433-1					
1,4-Dioxane	ND		ug/l	0.150	0.0339

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	37		15-110

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 05/11/20 11:44
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 05/09/20 09:00

Parameter	Result	Qualifier	Units	RL	MDL
1,4 Dioxane by 8270D-SIM - Mansfield Lab for sample(s): 01 Batch: WG1368972-1					
1,4-Dioxane	ND		ug/l	0.150	0.0339

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	30		15-110

Lab Control Sample Analysis

Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4

Project Number: 01.0017869.05

Lab Number: L2018768

Report Date: 05/12/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-08 Batch: WG1368160-2 WG1368160-3								
Perfluorobutanoic Acid (PFBA)	99		97		67-148	2		30
Perfluoropentanoic Acid (PFPeA)	100		99		63-161	1		30
Perfluorobutanesulfonic Acid (PFBS)	89		89		65-157	0		30
Perfluorohexanoic Acid (PFHxA)	103		102		69-168	1		30
Perfluoroheptanoic Acid (PFHpA)	99		99		58-159	0		30
Perfluorohexanesulfonic Acid (PFHxS)	93		99		69-177	6		30
Perfluorooctanoic Acid (PFOA)	106		100		63-159	6		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	108		115		49-187	6		30
Perfluoroheptanesulfonic Acid (PFHpS)	108		114		61-179	5		30
Perfluorononanoic Acid (PFNA)	98		101		68-171	3		30
Perfluorooctanesulfonic Acid (PFOS)	95		103		52-151	8		30
Perfluorodecanoic Acid (PFDA)	101		101		63-171	0		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	114		96		56-173	17		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	104		115		60-166	10		30
Perfluoroundecanoic Acid (PFUnA)	98		94		60-153	4		30
Perfluorodecanesulfonic Acid (PFDS)	104		110		38-156	6		30
Perfluorooctanesulfonamide (FOSA)	99		89		46-170	11		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	100		96		45-170	4		30
Perfluorododecanoic Acid (PFDoA)	110		98		67-153	12		30
Perfluorotridecanoic Acid (PFTrDA)	120		113		48-158	6		30
Perfluorotetradecanoic Acid (PFTA)	102		103		59-182	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4

Project Number: 01.0017869.05

Lab Number: L2018768

Report Date: 05/12/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-08 Batch: WG1368160-2 WG1368160-3								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	95		96		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	93		94		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	97		93		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	79		78		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	89		85		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	118		113		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	93		94		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	107		105		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	85		80		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	103		98		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	93		91		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	84		102		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	80		78		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	101		102		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	59		63		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	84		79		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	94		98		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	84		82		33-143

Lab Control Sample Analysis

Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4

Project Number: 01.0017869.05

Lab Number: L2018768

Report Date: 05/12/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-06,08 Batch: WG1368231-2 WG1368231-3								
Acenaphthene	84		80		37-111	5		30
1,2,4-Trichlorobenzene	83		74		39-98	11		30
Hexachlorobenzene	78		70		40-140	11		30
Bis(2-chloroethyl)ether	86		86		40-140	0		30
2-Chloronaphthalene	82		74		40-140	10		30
1,2-Dichlorobenzene	80		77		40-140	4		30
1,3-Dichlorobenzene	76		70		40-140	8		30
1,4-Dichlorobenzene	77		74		36-97	4		30
3,3'-Dichlorobenzidine	68		65		40-140	5		30
2,4-Dinitrotoluene	76		69		48-143	10		30
2,6-Dinitrotoluene	80		70		40-140	13		30
Fluoranthene	81		79		40-140	3		30
4-Chlorophenyl phenyl ether	79		74		40-140	7		30
4-Bromophenyl phenyl ether	77		73		40-140	5		30
Bis(2-chloroisopropyl)ether	112		106		40-140	6		30
Bis(2-chloroethoxy)methane	93		87		40-140	7		30
Hexachlorobutadiene	77		68		40-140	12		30
Hexachlorocyclopentadiene	64		54		40-140	17		30
Hexachloroethane	87		79		40-140	10		30
Isophorone	98		92		40-140	6		30
Naphthalene	80		75		40-140	6		30
Nitrobenzene	90		86		40-140	5		30
NDPA/DPA	80		76		40-140	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4

Project Number: 01.0017869.05

Lab Number: L2018768

Report Date: 05/12/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-06,08 Batch: WG1368231-2 WG1368231-3								
n-Nitrosodi-n-propylamine	102		96		29-132	6		30
Bis(2-ethylhexyl)phthalate	89		82		40-140	8		30
Butyl benzyl phthalate	74		70		40-140	6		30
Di-n-butylphthalate	83		79		40-140	5		30
Di-n-octylphthalate	75		73		40-140	3		30
Diethyl phthalate	86		80		40-140	7		30
Dimethyl phthalate	84		75		40-140	11		30
Benzo(a)anthracene	80		75		40-140	6		30
Benzo(a)pyrene	72		74		40-140	3		30
Benzo(b)fluoranthene	70		73		40-140	4		30
Benzo(k)fluoranthene	84		87		40-140	4		30
Chrysene	93		89		40-140	4		30
Acenaphthylene	83		75		45-123	10		30
Anthracene	89		86		40-140	3		30
Benzo(ghi)perylene	78		78		40-140	0		30
Fluorene	85		78		40-140	9		30
Phenanthrene	82		79		40-140	4		30
Dibenzo(a,h)anthracene	79		77		40-140	3		30
Indeno(1,2,3-cd)pyrene	74		68		40-140	8		30
Pyrene	77		76		26-127	1		30
Biphenyl	86		78		40-140	10		30
4-Chloroaniline	74		71		40-140	4		30
2-Nitroaniline	76		66		52-143	14		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4
Project Number: 01.0017869.05

Lab Number: L2018768
Report Date: 05/12/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-06,08 Batch: WG1368231-2 WG1368231-3								
3-Nitroaniline	72		68		25-145	6		30
4-Nitroaniline	63		58		51-143	8		30
Dibenzofuran	81		76		40-140	6		30
2-Methylnaphthalene	77		71		40-140	8		30
1,2,4,5-Tetrachlorobenzene	82		74		2-134	10		30
Acetophenone	93		87		39-129	7		30
2,4,6-Trichlorophenol	73		66		30-130	10		30
p-Chloro-m-cresol	88		80		23-97	10		30
2-Chlorophenol	87		82		27-123	6		30
2,4-Dichlorophenol	85		79		30-130	7		30
2,4-Dimethylphenol	86		76		30-130	12		30
2-Nitrophenol	82		78		30-130	5		30
4-Nitrophenol	75		67		10-80	11		30
2,4-Dinitrophenol	70		63		20-130	11		30
4,6-Dinitro-o-cresol	78		70		20-164	11		30
Pentachlorophenol	66		56		9-103	16		30
Phenol	63		58		12-110	8		30
2-Methylphenol	90		82		30-130	9		30
3-Methylphenol/4-Methylphenol	97		88		30-130	10		30
2,4,5-Trichlorophenol	84		73		30-130	14		30
Benzoic Acid	**0**	Q	**0**	Q	10-164	NC		30
Benzyl Alcohol	85		78		26-116	9		30
Carbazole	82		80		55-144	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4

Project Number: 01.0017869.05

Lab Number: L2018768

Report Date: 05/12/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-06,08 Batch: WG1368231-2 WG1368231-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	72		66		21-120
Phenol-d6	63		59		10-120
Nitrobenzene-d5	84		78		23-120
2-Fluorobiphenyl	73		65		15-120
2,4,6-Tribromophenol	74		67		10-120
4-Terphenyl-d14	73		72		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4
Project Number: 01.0017869.05

Lab Number: L2018768
Report Date: 05/12/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01,03-06,08 Batch: WG1368235-2 WG1368235-3								
Acenaphthene	70		74		40-140	6		40
2-Chloronaphthalene	70		76		40-140	8		40
Fluoranthene	79		76		40-140	4		40
Hexachlorobutadiene	65		66		40-140	2		40
Naphthalene	65		70		40-140	7		40
Benzo(a)anthracene	77		78		40-140	1		40
Benzo(a)pyrene	79		79		40-140	0		40
Benzo(b)fluoranthene	87		88		40-140	1		40
Benzo(k)fluoranthene	80		80		40-140	0		40
Chrysene	75		76		40-140	1		40
Acenaphthylene	70		77		40-140	10		40
Anthracene	74		76		40-140	3		40
Benzo(ghi)perylene	78		83		40-140	6		40
Fluorene	74		78		40-140	5		40
Phenanthrene	73		76		40-140	4		40
Dibenzo(a,h)anthracene	74		78		40-140	5		40
Indeno(1,2,3-cd)pyrene	90		95		40-140	5		40
Pyrene	78		75		40-140	4		40
2-Methylnaphthalene	69		75		40-140	8		40
Pentachlorophenol	70		72		40-140	3		40
Hexachlorobenzene	75		76		40-140	1		40
Hexachloroethane	62		64		40-140	3		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4

Project Number: 01.0017869.05

Lab Number: L2018768

Report Date: 05/12/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01,03-06,08 Batch: WG1368235-2 WG1368235-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	54		63		21-120
Phenol-d6	48		55		10-120
Nitrobenzene-d5	76		85		23-120
2-Fluorobiphenyl	76		81		15-120
2,4,6-Tribromophenol	79		100		10-120
4-Terphenyl-d14	103		98		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4

Project Number: 01.0017869.05

Lab Number: L2018768

Report Date: 05/12/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270D-SIM - Mansfield Lab	Associated sample(s): 03-06,08		Batch: WG1368433-2		WG1368433-3			
1,4-Dioxane	115		115		40-140	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,4-Dioxane-d8	34		33		15-110

Lab Control Sample Analysis

Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4

Project Number: 01.0017869.05

Lab Number: L2018768

Report Date: 05/12/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270D-SIM - Mansfield Lab Associated sample(s): 01 Batch: WG1368972-2 WG1368972-3								
1,4-Dioxane	116		117		40-140	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,4-Dioxane-d8	27		29		15-110

Matrix Spike Analysis

Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4

Project Number: 01.0017869.05

Lab Number: L2018768

Report Date: 05/12/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1368160-4 QC Sample: L2018768-01 Client ID: MW-1												
Perfluorobutanoic Acid (PFBA)	1.48J	36.8	39.6	108		-	-		67-148	-		30
Perfluoropentanoic Acid (PFPeA)	ND	36.8	38.4	104		-	-		63-161	-		30
Perfluorobutanesulfonic Acid (PFBS)	2.64	32.6	33.5	95		-	-		65-157	-		30
Perfluorohexanoic Acid (PFHxA)	0.936J	36.8	38.5	105		-	-		69-168	-		30
Perfluoroheptanoic Acid (PFHpA)	ND	36.8	37.2	101		-	-		58-159	-		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	33.5	35.0	104		-	-		69-177	-		30
Perfluorooctanoic Acid (PFOA)	2.27	36.8	40.3	103		-	-		63-159	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	16.7	34.9	53.6	106		-	-		49-187	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	34.9	40.0	115		-	-		61-179	-		30
Perfluorononanoic Acid (PFNA)	0.933J	36.8	39.8	108		-	-		68-171	-		30
Perfluorooctanesulfonic Acid (PFOS)	4.83	34	38.0	97		-	-		52-151	-		30
Perfluorodecanoic Acid (PFDA)	ND	36.8	37.6	102		-	-		63-171	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	35.3	38.8	110		-	-		56-173	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	36.8	46.7	127		-	-		60-166	-		30
Perfluoroundecanoic Acid (PFUnA)	ND	36.8	36.5	99		-	-		60-153	-		30
Perfluorodecanesulfonic Acid (PFDS)	ND	35.5	36.1	102		-	-		38-156	-		30
Perfluorooctanesulfonamide (FOSA)	ND	36.8	37.3	101		-	-		46-170	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	36.8	42.6	116		-	-		45-170	-		30
Perfluorododecanoic Acid (PFDoA)	ND	36.8	38.5	105		-	-		67-153	-		30
Perfluorotridecanoic Acid (PFTrDA)	ND	36.8	42.7	116		-	-		48-158	-		30
Perfluorotetradecanoic Acid (PFTA)	ND	36.8	40.9	111		-	-		59-182	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4 ***Lab Number:*** L2018768

Project Number: 01.0017869.05 ***Report Date:*** 05/12/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1368160-4 QC Sample: L2018768-01 Client ID: MW-1												

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	128				7-170
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	205				1-244
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	47				23-146
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	46				1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	78				40-144
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	81				38-144
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	56				21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	73				30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	109				47-153
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	66				24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	59				33-143
Perfluoro[13C4]Butanoic Acid (MPFBA)	84				2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	69				16-173
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	29				1-87
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	95				42-146
Perfluoro[13C8]Octanoic Acid (M8PFOA)	83				36-149
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	77				34-146
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	81				31-159

Lab Duplicate Analysis
Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4
Project Number: 01.0017869.05

Lab Number: L2018768
Report Date: 05/12/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1368160-5 QC Sample: L2018768-04 Client ID: MW-101						
Perfluorobutanoic Acid (PFBA)	7.42	7.40	ng/l	0		30
Perfluoropentanoic Acid (PFPeA)	1.44J	1.55J	ng/l	NC		30
Perfluorobutanesulfonic Acid (PFBS)	1.63J	1.49J	ng/l	NC		30
Perfluorohexanoic Acid (PFHxA)	1.15J	1.10J	ng/l	NC		30
Perfluoroheptanoic Acid (PFHpA)	0.742J	0.832J	ng/l	NC		30
Perfluorohexanesulfonic Acid (PFHxS)	0.454J	0.365J	ng/l	NC		30
Perfluorooctanoic Acid (PFOA)	7.50	7.49	ng/l	0		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	17.0	15.7	ng/l	8		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ND	ng/l	NC		30
Perfluorononanoic Acid (PFNA)	0.756J	0.624J	ng/l	NC		30
Perfluorooctanesulfonic Acid (PFOS)	4.03	5.11	ng/l	24		30
Perfluorodecanoic Acid (PFDA)	ND	ND	ng/l	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/l	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/l	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/l	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/l	NC		30
Perfluorooctanesulfonamide (FOSA)	ND	ND	ng/l	NC		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ng/l	NC		30
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/l	NC		30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ng/l	NC		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4
Project Number: 01.0017869.05

Lab Number: L2018768
Report Date: 05/12/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1368160-5 QC Sample: L2018768-04 Client ID: MW-101						
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/l	NC		30
PFOA/PFOS, Total	11.5	12.6	ng/l	9		30

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	83		85		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	77		80		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	93		93		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	61		62		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	76		78		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	120		119		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	84		87		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	169		166		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	72		77		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	98		90		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	76		85		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	94		103		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	52		57		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	77		86		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	24		31		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	51		66		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	75		82		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	62		69		33-143

PCBS

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-01
Client ID: MW-1
Sample Location: BUCHANAN, NY

Date Collected: 05/05/20 11:55
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 05/07/20 22:04
Analyst: AD

Extraction Method: EPA 3510C
Extraction Date: 05/07/20 10:47
Cleanup Method: EPA 3665A
Cleanup Date: 05/07/20
Cleanup Method: EPA 3660B
Cleanup Date: 05/07/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	ND		ug/l	0.083	0.039	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	ND		ug/l	0.083	0.032	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	98		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	91		30-150	B

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-03
Client ID: FIELD BLANK-050520
Sample Location: BUCHANAN, NY

Date Collected: 05/05/20 12:40
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 05/07/20 22:18
Analyst: AD

Extraction Method: EPA 3510C
Extraction Date: 05/07/20 10:47
Cleanup Method: EPA 3665A
Cleanup Date: 05/07/20
Cleanup Method: EPA 3660B
Cleanup Date: 05/07/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	ND		ug/l	0.083	0.039	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	ND		ug/l	0.083	0.032	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	54		30-150	B

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-04
Client ID: MW-101
Sample Location: BUCHANAN, NY

Date Collected: 05/06/20 08:55
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 05/07/20 22:32
Analyst: AD

Extraction Method: EPA 3510C
Extraction Date: 05/07/20 10:47
Cleanup Method: EPA 3665A
Cleanup Date: 05/07/20
Cleanup Method: EPA 3660B
Cleanup Date: 05/07/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	ND		ug/l	0.083	0.039	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	ND		ug/l	0.083	0.032	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	89		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	82		30-150	B

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-05
Client ID: MW-101 (DUP)
Sample Location: BUCHANAN, NY

Date Collected: 05/06/20 08:55
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 05/07/20 22:45
Analyst: AD

Extraction Method: EPA 3510C
Extraction Date: 05/07/20 10:47
Cleanup Method: EPA 3665A
Cleanup Date: 05/07/20
Cleanup Method: EPA 3660B
Cleanup Date: 05/07/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	ND		ug/l	0.083	0.039	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	ND		ug/l	0.083	0.032	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	79		30-150	B

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-06
Client ID: MW-104
Sample Location: BUCHANAN, NY

Date Collected: 05/06/20 11:00
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 05/07/20 22:59
Analyst: AD

Extraction Method: EPA 3510C
Extraction Date: 05/07/20 10:47
Cleanup Method: EPA 3665A
Cleanup Date: 05/07/20
Cleanup Method: EPA 3660B
Cleanup Date: 05/07/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	ND		ug/l	0.083	0.039	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	ND		ug/l	0.083	0.032	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-08
Client ID: FIELD BLANK-050620
Sample Location: BUCHANAN, NY

Date Collected: 05/06/20 11:30
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 05/07/20 23:13
Analyst: AD

Extraction Method: EPA 3510C
Extraction Date: 05/07/20 10:47
Cleanup Method: EPA 3665A
Cleanup Date: 05/07/20
Cleanup Method: EPA 3660B
Cleanup Date: 05/07/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	ND		ug/l	0.083	0.039	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	ND		ug/l	0.083	0.032	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	71		30-150	B

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 05/07/20 21:24
Analyst: JM

Extraction Method: EPA 3510C
Extraction Date: 05/07/20 10:47
Cleanup Method: EPA 3665A
Cleanup Date: 05/07/20
Cleanup Method: EPA 3660B
Cleanup Date: 05/07/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01,03-06,08 Batch: WG1368300-1						
Aroclor 1016	ND		ug/l	0.083	0.034	A
Aroclor 1221	ND		ug/l	0.083	0.067	A
Aroclor 1232	ND		ug/l	0.083	0.046	A
Aroclor 1242	ND		ug/l	0.083	0.039	A
Aroclor 1248	ND		ug/l	0.083	0.049	A
Aroclor 1254	ND		ug/l	0.083	0.039	A
Aroclor 1260	ND		ug/l	0.083	0.032	A
Aroclor 1262	ND		ug/l	0.083	0.035	A
Aroclor 1268	ND		ug/l	0.083	0.034	A
PCBs, Total	ND		ug/l	0.083	0.032	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	42		30-150	A
Decachlorobiphenyl	52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	44		30-150	B
Decachlorobiphenyl	51		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4

Project Number: 01.0017869.05

Lab Number: L2018768

Report Date: 05/12/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01,03-06,08 Batch: WG1368300-2 WG1368300-3									
Aroclor 1016	75		80		40-140	7		50	A
Aroclor 1260	125		134		40-140	7		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		77		30-150	A
Decachlorobiphenyl	92		90		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		74		30-150	B
Decachlorobiphenyl	78		81		30-150	B

PESTICIDES

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-01
Client ID: MW-1
Sample Location: BUCHANAN, NY

Date Collected: 05/05/20 11:55
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 05/07/20 22:53
Analyst: SL

Extraction Method: EPA 3510C
Extraction Date: 05/07/20 10:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-01 Date Collected: 05/05/20 11:55

Client ID: MW-1 Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	53		30-150	A
Decachlorobiphenyl	47		30-150	A
2,4,5,6-Tetrachloro-m-xylene	54		30-150	B
Decachlorobiphenyl	42		30-150	B

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-01
Client ID: MW-1
Sample Location: BUCHANAN, NY

Date Collected: 05/05/20 11:55
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8151A
Analytical Date: 05/08/20 20:59
Analyst: JMC

Extraction Method: EPA 8151A
Extraction Date: 05/07/20 17:44

Methylation Date: 05/08/20 02:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	83		30-150	A
DCAA	77		30-150	B

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-03
Client ID: FIELD BLANK-050520
Sample Location: BUCHANAN, NY

Date Collected: 05/05/20 12:40
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 05/07/20 23:03
Analyst: SL

Extraction Method: EPA 3510C
Extraction Date: 05/07/20 10:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-03 Date Collected: 05/05/20 12:40

Client ID: FIELD BLANK-050520 Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	43		30-150	B

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-03
Client ID: FIELD BLANK-050520
Sample Location: BUCHANAN, NY

Date Collected: 05/05/20 12:40
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8151A
Analytical Date: 05/08/20 21:17
Analyst: JMC

Extraction Method: EPA 8151A
Extraction Date: 05/07/20 16:54

Methylation Date: 05/08/20 02:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	82		30-150	A
DCAA	78		30-150	B

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-04
Client ID: MW-101
Sample Location: BUCHANAN, NY

Date Collected: 05/06/20 08:55
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 05/07/20 23:12
Analyst: SL

Extraction Method: EPA 3510C
Extraction Date: 05/07/20 10:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-04 Date Collected: 05/06/20 08:55

Client ID: MW-101 Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	53		30-150	B

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-04
Client ID: MW-101
Sample Location: BUCHANAN, NY

Date Collected: 05/06/20 08:55
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8151A
Analytical Date: 05/08/20 21:35
Analyst: JMC

Extraction Method: EPA 8151A
Extraction Date: 05/07/20 16:54

Methylation Date: 05/08/20 02:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	68		30-150	A
DCAA	64		30-150	B

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-05
Client ID: MW-101 (DUP)
Sample Location: BUCHANAN, NY

Date Collected: 05/06/20 08:55
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 05/07/20 23:21
Analyst: SL

Extraction Method: EPA 3510C
Extraction Date: 05/07/20 10:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-05 Date Collected: 05/06/20 08:55

Client ID: MW-101 (DUP) Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		30-150	A
Decachlorobiphenyl	38		30-150	A
2,4,5,6-Tetrachloro-m-xylene	53		30-150	B
Decachlorobiphenyl	34		30-150	B

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-05
Client ID: MW-101 (DUP)
Sample Location: BUCHANAN, NY

Date Collected: 05/06/20 08:55
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8151A
Analytical Date: 05/08/20 21:54
Analyst: JMC

Extraction Method: EPA 8151A
Extraction Date: 05/07/20 16:54

Methylation Date: 05/08/20 02:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	65		30-150	A
DCAA	61		30-150	B

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-06
Client ID: MW-104
Sample Location: BUCHANAN, NY

Date Collected: 05/06/20 11:00
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 05/07/20 23:30
Analyst: SL

Extraction Method: EPA 3510C
Extraction Date: 05/07/20 10:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-06 Date Collected: 05/06/20 11:00

Client ID: MW-104 Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	45		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	40		30-150	B

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-06
Client ID: MW-104
Sample Location: BUCHANAN, NY

Date Collected: 05/06/20 11:00
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8151A
Analytical Date: 05/08/20 22:12
Analyst: JMC

Extraction Method: EPA 8151A
Extraction Date: 05/07/20 16:54

Methylation Date: 05/08/20 02:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	79		30-150	A
DCAA	76		30-150	B

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-08
Client ID: FIELD BLANK-050620
Sample Location: BUCHANAN, NY

Date Collected: 05/06/20 11:30
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 05/07/20 23:39
Analyst: SL

Extraction Method: EPA 3510C
Extraction Date: 05/07/20 10:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-08 Date Collected: 05/06/20 11:30

Client ID: FIELD BLANK-050620 Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	53		30-150	A
Decachlorobiphenyl	37		30-150	A
2,4,5,6-Tetrachloro-m-xylene	51		30-150	B
Decachlorobiphenyl	31		30-150	B

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-08
Client ID: FIELD BLANK-050620
Sample Location: BUCHANAN, NY

Date Collected: 05/06/20 11:30
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8151A
Analytical Date: 05/08/20 22:31
Analyst: JMC

Extraction Method: EPA 8151A
Extraction Date: 05/07/20 16:54

Methylation Date: 05/08/20 02:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	78		30-150	A
DCAA	76		30-150	B

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 05/08/20 18:50
Analyst: JMC

Extraction Method: EPA 8151A
Extraction Date: 05/07/20 00:39

Methylation Date: 05/07/20 20:22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01,03-06,08 Batch: WG1368068-1						
2,4-D	ND		ug/l	10.0	0.498	A
2,4,5-T	ND		ug/l	2.00	0.531	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	84		30-150	A
DCAA	75		30-150	B

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/07/20 22:44
Analyst: SL

Extraction Method: EPA 3510C
Extraction Date: 05/07/20 10:12

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01,03-06,08 Batch: WG1368285-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/07/20 22:44
Analyst: SL

Extraction Method: EPA 3510C
Extraction Date: 05/07/20 10:12

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01,03-06,08 Batch: WG1368285-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	A
Decachlorobiphenyl	49		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	43		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4

Project Number: 01.0017869.05

Lab Number: L2018768

Report Date: 05/12/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01,03-06,08 Batch: WG1368068-2 WG1368068-3									
2,4-D	85		88		30-150	3		25	A
2,4,5-T	76		77		30-150	1		25	A
2,4,5-TP (Silvex)	81		84		30-150	4		25	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	79		85		30-150	A
DCAA	100		95		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4
Project Number: 01.0017869.05

Lab Number: L2018768
Report Date: 05/12/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,03-06,08 Batch: WG1368285-2 WG1368285-3									
Delta-BHC	61		61		30-150	0		20	A
Lindane	62		64		30-150	3		20	A
Alpha-BHC	68		70		30-150	3		20	A
Beta-BHC	74		74		30-150	0		20	A
Heptachlor	60		61		30-150	2		20	A
Aldrin	60		61		30-150	2		20	A
Heptachlor epoxide	59		58		30-150	1		20	A
Endrin	61		60		30-150	0		20	A
Endrin aldehyde	52		48		30-150	6		20	A
Endrin ketone	65		61		30-150	6		20	A
Dieldrin	64		63		30-150	2		20	A
4,4'-DDE	61		59		30-150	3		20	A
4,4'-DDD	67		64		30-150	4		20	A
4,4'-DDT	62		60		30-150	4		20	A
Endosulfan I	57		57		30-150	1		20	A
Endosulfan II	64		61		30-150	4		20	A
Endosulfan sulfate	62		59		30-150	5		20	A
Methoxychlor	64		60		30-150	7		20	A
cis-Chlordane	59		58		30-150	2		20	A
trans-Chlordane	61		59		30-150	3		20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4

Project Number: 01.0017869.05

Lab Number: L2018768

Report Date: 05/12/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,03-06,08 Batch: WG1368285-2 WG1368285-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		67		30-150	A
Decachlorobiphenyl	56		53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		69		30-150	B
Decachlorobiphenyl	50		48		30-150	B

METALS

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-01 Date Collected: 05/05/20 11:55

Client ID: MW-1 Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	05/08/20 15:53	05/11/20 11:02	EPA 3005A	1,6020B	AM
Antimony, Total	ND		mg/l	0.00400	0.00042	1	05/08/20 15:53	05/11/20 11:02	EPA 3005A	1,6020B	AM
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	05/08/20 15:53	05/11/20 11:02	EPA 3005A	1,6020B	AM
Barium, Total	0.02190		mg/l	0.00050	0.00017	1	05/08/20 15:53	05/11/20 11:02	EPA 3005A	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	05/08/20 15:53	05/11/20 11:02	EPA 3005A	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	05/08/20 15:53	05/11/20 11:02	EPA 3005A	1,6020B	AM
Calcium, Total	71.2		mg/l	0.100	0.0394	1	05/08/20 15:53	05/11/20 11:02	EPA 3005A	1,6020B	AM
Chromium, Total	ND		mg/l	0.00100	0.00017	1	05/08/20 15:53	05/11/20 11:02	EPA 3005A	1,6020B	AM
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	05/08/20 15:53	05/11/20 11:02	EPA 3005A	1,6020B	AM
Copper, Total	0.00050	J	mg/l	0.00100	0.00038	1	05/08/20 15:53	05/11/20 11:02	EPA 3005A	1,6020B	AM
Iron, Total	0.0224	J	mg/l	0.0500	0.0191	1	05/08/20 15:53	05/11/20 11:02	EPA 3005A	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	05/08/20 15:53	05/11/20 11:02	EPA 3005A	1,6020B	AM
Magnesium, Total	17.7		mg/l	0.0700	0.0242	1	05/08/20 15:53	05/11/20 11:02	EPA 3005A	1,6020B	AM
Manganese, Total	0.00545		mg/l	0.00100	0.00044	1	05/08/20 15:53	05/11/20 11:02	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	05/08/20 17:10	05/09/20 12:09	EPA 7470A	1,7470A	AL
Nickel, Total	ND		mg/l	0.00200	0.00055	1	05/08/20 15:53	05/11/20 11:02	EPA 3005A	1,6020B	AM
Potassium, Total	5.13		mg/l	0.100	0.0309	1	05/08/20 15:53	05/11/20 11:02	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	05/08/20 15:53	05/11/20 11:02	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	05/08/20 15:53	05/11/20 11:02	EPA 3005A	1,6020B	AM
Sodium, Total	334.		mg/l	0.100	0.0293	1	05/08/20 15:53	05/11/20 11:02	EPA 3005A	1,6020B	AM
Thallium, Total	0.00017	J	mg/l	0.00050	0.00014	1	05/08/20 15:53	05/11/20 11:02	EPA 3005A	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	05/08/20 15:53	05/11/20 11:02	EPA 3005A	1,6020B	AM
Zinc, Total	0.00643	J	mg/l	0.01000	0.00341	1	05/08/20 15:53	05/11/20 11:02	EPA 3005A	1,6020B	AM
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	05/08/20 17:02	05/11/20 10:01	EPA 3005A	1,6020B	AM
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	05/08/20 17:02	05/11/20 10:01	EPA 3005A	1,6020B	AM
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	05/08/20 17:02	05/11/20 10:01	EPA 3005A	1,6020B	AM
Barium, Dissolved	0.02737		mg/l	0.00050	0.00017	1	05/08/20 17:02	05/11/20 10:01	EPA 3005A	1,6020B	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	05/08/20 17:02	05/11/20 10:01	EPA 3005A	1,6020B	AM

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-01 Date Collected: 05/05/20 11:55

Client ID: MW-1 Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	05/08/20 17:02	05/11/20 10:01	EPA 3005A	1,6020B	AM
Calcium, Dissolved	77.8		mg/l	0.100	0.0394	1	05/08/20 17:02	05/11/20 10:01	EPA 3005A	1,6020B	AM
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	05/08/20 17:02	05/11/20 10:01	EPA 3005A	1,6020B	AM
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	05/08/20 17:02	05/11/20 10:01	EPA 3005A	1,6020B	AM
Copper, Dissolved	0.00083	J	mg/l	0.00100	0.00038	1	05/08/20 17:02	05/11/20 10:01	EPA 3005A	1,6020B	AM
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	05/08/20 17:02	05/11/20 10:01	EPA 3005A	1,6020B	AM
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	05/08/20 17:02	05/11/20 10:01	EPA 3005A	1,6020B	AM
Magnesium, Dissolved	19.4		mg/l	0.0700	0.0242	1	05/08/20 17:02	05/11/20 10:01	EPA 3005A	1,6020B	AM
Manganese, Dissolved	0.00309		mg/l	0.00100	0.00044	1	05/08/20 17:02	05/11/20 10:01	EPA 3005A	1,6020B	AM
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	05/08/20 17:30	05/09/20 12:49	EPA 7470A	1,7470A	AL
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	05/08/20 17:02	05/11/20 10:01	EPA 3005A	1,6020B	AM
Potassium, Dissolved	5.58		mg/l	0.100	0.0309	1	05/08/20 17:02	05/11/20 10:01	EPA 3005A	1,6020B	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	05/08/20 17:02	05/11/20 10:01	EPA 3005A	1,6020B	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	05/08/20 17:02	05/11/20 10:01	EPA 3005A	1,6020B	AM
Sodium, Dissolved	383.		mg/l	0.100	0.0293	1	05/08/20 17:02	05/11/20 10:01	EPA 3005A	1,6020B	AM
Thallium, Dissolved	ND		mg/l	0.00050	0.00014	1	05/08/20 17:02	05/11/20 10:01	EPA 3005A	1,6020B	AM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	05/08/20 17:02	05/11/20 10:01	EPA 3005A	1,6020B	AM
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	05/08/20 17:02	05/11/20 10:01	EPA 3005A	1,6020B	AM

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-03 Date Collected: 05/05/20 12:40

Client ID: FIELD BLANK-050520 Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	05/07/20 17:30	05/08/20 14:09	EPA 3005A	1,6020B	AM
Antimony, Total	ND		mg/l	0.00400	0.00042	1	05/07/20 17:30	05/08/20 14:09	EPA 3005A	1,6020B	AM
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	05/07/20 17:30	05/08/20 14:09	EPA 3005A	1,6020B	AM
Barium, Total	0.00047	J	mg/l	0.00050	0.00017	1	05/07/20 17:30	05/08/20 14:09	EPA 3005A	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	05/07/20 17:30	05/08/20 14:09	EPA 3005A	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	05/07/20 17:30	05/08/20 14:09	EPA 3005A	1,6020B	AM
Calcium, Total	ND		mg/l	0.100	0.0394	1	05/07/20 17:30	05/08/20 14:09	EPA 3005A	1,6020B	AM
Chromium, Total	ND		mg/l	0.00100	0.00017	1	05/07/20 17:30	05/08/20 14:09	EPA 3005A	1,6020B	AM
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	05/07/20 17:30	05/08/20 14:09	EPA 3005A	1,6020B	AM
Copper, Total	ND		mg/l	0.00100	0.00038	1	05/07/20 17:30	05/08/20 14:09	EPA 3005A	1,6020B	AM
Iron, Total	ND		mg/l	0.0700	0.0191	1	05/07/20 17:30	05/08/20 14:09	EPA 3005A	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	05/07/20 17:30	05/08/20 14:09	EPA 3005A	1,6020B	AM
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	05/07/20 17:30	05/08/20 14:09	EPA 3005A	1,6020B	AM
Manganese, Total	ND		mg/l	0.00100	0.00044	1	05/07/20 17:30	05/08/20 14:09	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	05/07/20 17:36	05/07/20 20:52	EPA 7470A	1,7470A	AL
Nickel, Total	ND		mg/l	0.00200	0.00055	1	05/07/20 17:30	05/08/20 14:09	EPA 3005A	1,6020B	AM
Potassium, Total	ND		mg/l	0.100	0.0309	1	05/07/20 17:30	05/08/20 14:09	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	05/07/20 17:30	05/08/20 14:09	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	05/07/20 17:30	05/08/20 14:09	EPA 3005A	1,6020B	AM
Sodium, Total	ND		mg/l	0.100	0.0293	1	05/07/20 17:30	05/08/20 14:09	EPA 3005A	1,6020B	AM
Thallium, Total	ND		mg/l	0.00100	0.00014	1	05/07/20 17:30	05/08/20 14:09	EPA 3005A	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	05/07/20 17:30	05/08/20 14:09	EPA 3005A	1,6020B	AM
Zinc, Total	ND		mg/l	0.01000	0.00341	1	05/07/20 17:30	05/08/20 14:09	EPA 3005A	1,6020B	AM
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	05/07/20 21:01	05/08/20 10:01	EPA 3005A	1,6020B	AM
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	05/07/20 21:01	05/08/20 10:01	EPA 3005A	1,6020B	AM
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	05/07/20 21:01	05/08/20 10:01	EPA 3005A	1,6020B	AM
Barium, Dissolved	0.00055		mg/l	0.00050	0.00017	1	05/07/20 21:01	05/08/20 10:01	EPA 3005A	1,6020B	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	05/07/20 21:01	05/08/20 10:01	EPA 3005A	1,6020B	AM

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-03 Date Collected: 05/05/20 12:40

Client ID: FIELD BLANK-050520 Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	05/07/20 21:01	05/08/20 10:01	EPA 3005A	1,6020B	AM
Calcium, Dissolved	0.0482	J	mg/l	0.100	0.0394	1	05/07/20 21:01	05/08/20 10:01	EPA 3005A	1,6020B	AM
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	05/07/20 21:01	05/08/20 10:01	EPA 3005A	1,6020B	AM
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	05/07/20 21:01	05/08/20 10:01	EPA 3005A	1,6020B	AM
Copper, Dissolved	0.00039	J	mg/l	0.00100	0.00038	1	05/07/20 21:01	05/08/20 10:01	EPA 3005A	1,6020B	AM
Iron, Dissolved	ND		mg/l	0.0700	0.0191	1	05/07/20 21:01	05/08/20 10:01	EPA 3005A	1,6020B	AM
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	05/07/20 21:01	05/08/20 10:01	EPA 3005A	1,6020B	AM
Magnesium, Dissolved	ND		mg/l	0.0700	0.0242	1	05/07/20 21:01	05/08/20 10:01	EPA 3005A	1,6020B	AM
Manganese, Dissolved	ND		mg/l	0.00100	0.00044	1	05/07/20 21:01	05/08/20 10:01	EPA 3005A	1,6020B	AM
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	05/07/20 21:06	05/08/20 09:42	EPA 7470A	1,7470A	GD
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	05/07/20 21:01	05/08/20 10:01	EPA 3005A	1,6020B	AM
Potassium, Dissolved	ND		mg/l	0.100	0.0309	1	05/07/20 21:01	05/08/20 10:01	EPA 3005A	1,6020B	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	05/07/20 21:01	05/08/20 10:01	EPA 3005A	1,6020B	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	05/07/20 21:01	05/08/20 10:01	EPA 3005A	1,6020B	AM
Sodium, Dissolved	0.403		mg/l	0.100	0.0293	1	05/07/20 21:01	05/08/20 10:01	EPA 3005A	1,6020B	AM
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	05/07/20 21:01	05/08/20 10:01	EPA 3005A	1,6020B	AM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	05/07/20 21:01	05/08/20 10:01	EPA 3005A	1,6020B	AM
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	05/07/20 21:01	05/08/20 10:01	EPA 3005A	1,6020B	AM

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-04 Date Collected: 05/06/20 08:55

Client ID: MW-101 Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.00951	J	mg/l	0.0100	0.00327	1	05/07/20 17:30	05/08/20 13:16	EPA 3005A	1,6020B	AM
Antimony, Total	0.00111	J	mg/l	0.00400	0.00042	1	05/07/20 17:30	05/08/20 13:16	EPA 3005A	1,6020B	AM
Arsenic, Total	0.00032	J	mg/l	0.00050	0.00016	1	05/07/20 17:30	05/08/20 13:16	EPA 3005A	1,6020B	AM
Barium, Total	0.1000		mg/l	0.00050	0.00017	1	05/07/20 17:30	05/08/20 13:16	EPA 3005A	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	05/07/20 17:30	05/08/20 13:16	EPA 3005A	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	05/07/20 17:30	05/08/20 13:16	EPA 3005A	1,6020B	AM
Calcium, Total	171.		mg/l	0.100	0.0394	1	05/07/20 17:30	05/08/20 13:16	EPA 3005A	1,6020B	AM
Chromium, Total	ND		mg/l	0.00100	0.00017	1	05/07/20 17:30	05/08/20 13:16	EPA 3005A	1,6020B	AM
Cobalt, Total	0.00025	J	mg/l	0.00050	0.00016	1	05/07/20 17:30	05/08/20 13:16	EPA 3005A	1,6020B	AM
Copper, Total	0.00087	J	mg/l	0.00100	0.00038	1	05/07/20 17:30	05/08/20 13:16	EPA 3005A	1,6020B	AM
Iron, Total	0.149		mg/l	0.0700	0.0191	1	05/07/20 17:30	05/08/20 13:16	EPA 3005A	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	05/07/20 17:30	05/08/20 13:16	EPA 3005A	1,6020B	AM
Magnesium, Total	42.2		mg/l	0.0700	0.0242	1	05/07/20 17:30	05/08/20 13:16	EPA 3005A	1,6020B	AM
Manganese, Total	0.1564		mg/l	0.00100	0.00044	1	05/07/20 17:30	05/08/20 13:16	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	05/07/20 17:36	05/07/20 20:54	EPA 7470A	1,7470A	AL
Nickel, Total	ND		mg/l	0.00200	0.00055	1	05/07/20 17:30	05/08/20 13:16	EPA 3005A	1,6020B	AM
Potassium, Total	4.52		mg/l	0.100	0.0309	1	05/07/20 17:30	05/08/20 13:16	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	05/07/20 17:30	05/08/20 13:16	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	05/07/20 17:30	05/08/20 13:16	EPA 3005A	1,6020B	AM
Sodium, Total	579.		mg/l	5.00	1.46	50	05/07/20 17:30	05/08/20 16:52	EPA 3005A	1,6020B	AM
Thallium, Total	ND		mg/l	0.00100	0.00014	1	05/07/20 17:30	05/08/20 13:16	EPA 3005A	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	05/07/20 17:30	05/08/20 13:16	EPA 3005A	1,6020B	AM
Zinc, Total	0.00884	J	mg/l	0.01000	0.00341	1	05/07/20 17:30	05/08/20 13:16	EPA 3005A	1,6020B	AM
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	05/07/20 21:01	05/08/20 10:26	EPA 3005A	1,6020B	AM
Antimony, Dissolved	0.00106	J	mg/l	0.00400	0.00042	1	05/07/20 21:01	05/08/20 10:26	EPA 3005A	1,6020B	AM
Arsenic, Dissolved	0.00023	J	mg/l	0.00050	0.00016	1	05/07/20 21:01	05/08/20 10:26	EPA 3005A	1,6020B	AM
Barium, Dissolved	0.07617		mg/l	0.00050	0.00017	1	05/07/20 21:01	05/08/20 10:26	EPA 3005A	1,6020B	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	05/07/20 21:01	05/08/20 10:26	EPA 3005A	1,6020B	AM

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-04 Date Collected: 05/06/20 08:55

Client ID: MW-101 Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	05/07/20 21:01	05/08/20 10:26	EPA 3005A	1,6020B	AM
Calcium, Dissolved	132.		mg/l	0.100	0.0394	1	05/07/20 21:01	05/08/20 10:26	EPA 3005A	1,6020B	AM
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	05/07/20 21:01	05/08/20 10:26	EPA 3005A	1,6020B	AM
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	05/07/20 21:01	05/08/20 10:26	EPA 3005A	1,6020B	AM
Copper, Dissolved	0.00040	J	mg/l	0.00100	0.00038	1	05/07/20 21:01	05/08/20 10:26	EPA 3005A	1,6020B	AM
Iron, Dissolved	0.0211	J	mg/l	0.0700	0.0191	1	05/07/20 21:01	05/08/20 10:26	EPA 3005A	1,6020B	AM
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	05/07/20 21:01	05/08/20 10:26	EPA 3005A	1,6020B	AM
Magnesium, Dissolved	33.1		mg/l	0.0700	0.0242	1	05/07/20 21:01	05/08/20 10:26	EPA 3005A	1,6020B	AM
Manganese, Dissolved	0.01440		mg/l	0.00100	0.00044	1	05/07/20 21:01	05/08/20 10:26	EPA 3005A	1,6020B	AM
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	05/07/20 21:06	05/08/20 09:49	EPA 7470A	1,7470A	GD
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	05/07/20 21:01	05/08/20 10:26	EPA 3005A	1,6020B	AM
Potassium, Dissolved	3.49		mg/l	0.100	0.0309	1	05/07/20 21:01	05/08/20 10:26	EPA 3005A	1,6020B	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	05/07/20 21:01	05/08/20 10:26	EPA 3005A	1,6020B	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	05/07/20 21:01	05/08/20 10:26	EPA 3005A	1,6020B	AM
Sodium, Dissolved	485.		mg/l	0.100	0.0293	1	05/07/20 21:01	05/08/20 10:26	EPA 3005A	1,6020B	AM
Thallium, Dissolved	0.00028	J	mg/l	0.00100	0.00014	1	05/07/20 21:01	05/08/20 10:26	EPA 3005A	1,6020B	AM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	05/07/20 21:01	05/08/20 10:26	EPA 3005A	1,6020B	AM
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	05/07/20 21:01	05/08/20 10:26	EPA 3005A	1,6020B	AM

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-05 Date Collected: 05/06/20 08:55

Client ID: MW-101 (DUP) Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.0252		mg/l	0.0100	0.00327	1	05/07/20 17:30	05/08/20 14:29	EPA 3005A	1,6020B	AM
Antimony, Total	0.00114	J	mg/l	0.00400	0.00042	1	05/07/20 17:30	05/08/20 14:29	EPA 3005A	1,6020B	AM
Arsenic, Total	0.00040	J	mg/l	0.00050	0.00016	1	05/07/20 17:30	05/08/20 14:29	EPA 3005A	1,6020B	AM
Barium, Total	0.1035		mg/l	0.00050	0.00017	1	05/07/20 17:30	05/08/20 14:29	EPA 3005A	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	05/07/20 17:30	05/08/20 14:29	EPA 3005A	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	05/07/20 17:30	05/08/20 14:29	EPA 3005A	1,6020B	AM
Calcium, Total	162.		mg/l	0.100	0.0394	1	05/07/20 17:30	05/08/20 14:29	EPA 3005A	1,6020B	AM
Chromium, Total	ND		mg/l	0.00100	0.00017	1	05/07/20 17:30	05/08/20 14:29	EPA 3005A	1,6020B	AM
Cobalt, Total	0.00066		mg/l	0.00050	0.00016	1	05/07/20 17:30	05/08/20 14:29	EPA 3005A	1,6020B	AM
Copper, Total	0.00143		mg/l	0.00100	0.00038	1	05/07/20 17:30	05/08/20 14:29	EPA 3005A	1,6020B	AM
Iron, Total	0.165		mg/l	0.0700	0.0191	1	05/07/20 17:30	05/08/20 14:29	EPA 3005A	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	05/07/20 17:30	05/08/20 14:29	EPA 3005A	1,6020B	AM
Magnesium, Total	41.2		mg/l	0.0700	0.0242	1	05/07/20 17:30	05/08/20 14:29	EPA 3005A	1,6020B	AM
Manganese, Total	0.3472		mg/l	0.00100	0.00044	1	05/07/20 17:30	05/08/20 14:29	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	05/07/20 17:36	05/07/20 20:56	EPA 7470A	1,7470A	AL
Nickel, Total	ND		mg/l	0.00200	0.00055	1	05/07/20 17:30	05/08/20 14:29	EPA 3005A	1,6020B	AM
Potassium, Total	4.43		mg/l	0.100	0.0309	1	05/07/20 17:30	05/08/20 14:29	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	05/07/20 17:30	05/08/20 14:29	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	05/07/20 17:30	05/08/20 14:29	EPA 3005A	1,6020B	AM
Sodium, Total	596.		mg/l	5.00	1.46	50	05/07/20 17:30	05/08/20 14:49	EPA 3005A	1,6020B	AM
Thallium, Total	0.00025	J	mg/l	0.00100	0.00014	1	05/07/20 17:30	05/08/20 14:29	EPA 3005A	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	05/07/20 17:30	05/08/20 14:29	EPA 3005A	1,6020B	AM
Zinc, Total	0.00978	J	mg/l	0.01000	0.00341	1	05/07/20 17:30	05/08/20 14:29	EPA 3005A	1,6020B	AM
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	05/07/20 21:01	05/08/20 10:31	EPA 3005A	1,6020B	AM
Antimony, Dissolved	0.00082	J	mg/l	0.00400	0.00042	1	05/07/20 21:01	05/08/20 10:31	EPA 3005A	1,6020B	AM
Arsenic, Dissolved	0.00025	J	mg/l	0.00050	0.00016	1	05/07/20 21:01	05/08/20 10:31	EPA 3005A	1,6020B	AM
Barium, Dissolved	0.08874		mg/l	0.00050	0.00017	1	05/07/20 21:01	05/08/20 10:31	EPA 3005A	1,6020B	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	05/07/20 21:01	05/08/20 10:31	EPA 3005A	1,6020B	AM

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-05 Date Collected: 05/06/20 08:55

Client ID: MW-101 (DUP) Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	05/07/20 21:01	05/08/20 10:31	EPA 3005A	1,6020B	AM
Calcium, Dissolved	155.		mg/l	0.100	0.0394	1	05/07/20 21:01	05/08/20 10:31	EPA 3005A	1,6020B	AM
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	05/07/20 21:01	05/08/20 10:31	EPA 3005A	1,6020B	AM
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	05/07/20 21:01	05/08/20 10:31	EPA 3005A	1,6020B	AM
Copper, Dissolved	0.00045	J	mg/l	0.00100	0.00038	1	05/07/20 21:01	05/08/20 10:31	EPA 3005A	1,6020B	AM
Iron, Dissolved	0.0212	J	mg/l	0.0700	0.0191	1	05/07/20 21:01	05/08/20 10:31	EPA 3005A	1,6020B	AM
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	05/07/20 21:01	05/08/20 10:31	EPA 3005A	1,6020B	AM
Magnesium, Dissolved	39.2		mg/l	0.0700	0.0242	1	05/07/20 21:01	05/08/20 10:31	EPA 3005A	1,6020B	AM
Manganese, Dissolved	0.01958		mg/l	0.00100	0.00044	1	05/07/20 21:01	05/08/20 10:31	EPA 3005A	1,6020B	AM
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	05/07/20 21:06	05/08/20 09:51	EPA 7470A	1,7470A	GD
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	05/07/20 21:01	05/08/20 10:31	EPA 3005A	1,6020B	AM
Potassium, Dissolved	4.19		mg/l	0.100	0.0309	1	05/07/20 21:01	05/08/20 10:31	EPA 3005A	1,6020B	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	05/07/20 21:01	05/08/20 10:31	EPA 3005A	1,6020B	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	05/07/20 21:01	05/08/20 10:31	EPA 3005A	1,6020B	AM
Sodium, Dissolved	536.		mg/l	5.00	1.46	50	05/07/20 21:01	05/08/20 13:46	EPA 3005A	1,6020B	AM
Thallium, Dissolved	0.00016	J	mg/l	0.00100	0.00014	1	05/07/20 21:01	05/08/20 10:31	EPA 3005A	1,6020B	AM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	05/07/20 21:01	05/08/20 10:31	EPA 3005A	1,6020B	AM
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	05/07/20 21:01	05/08/20 10:31	EPA 3005A	1,6020B	AM

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-06 Date Collected: 05/06/20 11:00

Client ID: MW-104 Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.0154		mg/l	0.0100	0.00327	1	05/07/20 17:30	05/08/20 13:21	EPA 3005A	1,6020B	AM
Antimony, Total	0.00066	J	mg/l	0.00400	0.00042	1	05/07/20 17:30	05/08/20 13:21	EPA 3005A	1,6020B	AM
Arsenic, Total	0.00040	J	mg/l	0.00050	0.00016	1	05/07/20 17:30	05/08/20 13:21	EPA 3005A	1,6020B	AM
Barium, Total	0.03704		mg/l	0.00050	0.00017	1	05/07/20 17:30	05/08/20 13:21	EPA 3005A	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	05/07/20 17:30	05/08/20 13:21	EPA 3005A	1,6020B	AM
Cadmium, Total	0.00006	J	mg/l	0.00020	0.00005	1	05/07/20 17:30	05/08/20 13:21	EPA 3005A	1,6020B	AM
Calcium, Total	26.5		mg/l	0.100	0.0394	1	05/07/20 17:30	05/08/20 13:21	EPA 3005A	1,6020B	AM
Chromium, Total	ND		mg/l	0.00100	0.00017	1	05/07/20 17:30	05/08/20 13:21	EPA 3005A	1,6020B	AM
Cobalt, Total	0.00479		mg/l	0.00050	0.00016	1	05/07/20 17:30	05/08/20 13:21	EPA 3005A	1,6020B	AM
Copper, Total	0.00211		mg/l	0.00100	0.00038	1	05/07/20 17:30	05/08/20 13:21	EPA 3005A	1,6020B	AM
Iron, Total	0.0732		mg/l	0.0700	0.0191	1	05/07/20 17:30	05/08/20 13:21	EPA 3005A	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	05/07/20 17:30	05/08/20 13:21	EPA 3005A	1,6020B	AM
Magnesium, Total	5.77		mg/l	0.0700	0.0242	1	05/07/20 17:30	05/08/20 13:21	EPA 3005A	1,6020B	AM
Manganese, Total	0.4470		mg/l	0.00100	0.00044	1	05/07/20 17:30	05/08/20 13:21	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	05/07/20 17:36	05/07/20 20:58	EPA 7470A	1,7470A	AL
Nickel, Total	0.00074	J	mg/l	0.00200	0.00055	1	05/07/20 17:30	05/08/20 13:21	EPA 3005A	1,6020B	AM
Potassium, Total	5.26		mg/l	0.100	0.0309	1	05/07/20 17:30	05/08/20 13:21	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	05/07/20 17:30	05/08/20 13:21	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	05/07/20 17:30	05/08/20 13:21	EPA 3005A	1,6020B	AM
Sodium, Total	482.		mg/l	0.100	0.0293	1	05/07/20 17:30	05/08/20 13:21	EPA 3005A	1,6020B	AM
Thallium, Total	ND		mg/l	0.00100	0.00014	1	05/07/20 17:30	05/08/20 13:21	EPA 3005A	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	05/07/20 17:30	05/08/20 13:21	EPA 3005A	1,6020B	AM
Zinc, Total	0.00817	J	mg/l	0.01000	0.00341	1	05/07/20 17:30	05/08/20 13:21	EPA 3005A	1,6020B	AM
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00358	J	mg/l	0.0100	0.00327	1	05/07/20 21:01	05/08/20 12:30	EPA 3005A	1,6020B	AM
Antimony, Dissolved	0.00071	J	mg/l	0.00400	0.00042	1	05/07/20 21:01	05/08/20 12:30	EPA 3005A	1,6020B	AM
Arsenic, Dissolved	0.00028	J	mg/l	0.00050	0.00016	1	05/07/20 21:01	05/08/20 12:30	EPA 3005A	1,6020B	AM
Barium, Dissolved	0.02916		mg/l	0.00050	0.00017	1	05/07/20 21:01	05/08/20 12:30	EPA 3005A	1,6020B	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	05/07/20 21:01	05/08/20 12:30	EPA 3005A	1,6020B	AM

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-06 Date Collected: 05/06/20 11:00

Client ID: MW-104 Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	05/07/20 21:01	05/08/20 12:30	EPA 3005A	1,6020B	AM
Calcium, Dissolved	25.2		mg/l	0.100	0.0394	1	05/07/20 21:01	05/08/20 12:30	EPA 3005A	1,6020B	AM
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	05/07/20 21:01	05/08/20 12:30	EPA 3005A	1,6020B	AM
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	05/07/20 21:01	05/08/20 12:30	EPA 3005A	1,6020B	AM
Copper, Dissolved	0.00110		mg/l	0.00100	0.00038	1	05/07/20 21:01	05/08/20 12:30	EPA 3005A	1,6020B	AM
Iron, Dissolved	0.0195	J	mg/l	0.0700	0.0191	1	05/07/20 21:01	05/08/20 12:30	EPA 3005A	1,6020B	AM
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	05/07/20 21:01	05/08/20 12:30	EPA 3005A	1,6020B	AM
Magnesium, Dissolved	5.63		mg/l	0.0700	0.0242	1	05/07/20 21:01	05/08/20 12:30	EPA 3005A	1,6020B	AM
Manganese, Dissolved	0.00121		mg/l	0.00100	0.00044	1	05/07/20 21:01	05/08/20 12:30	EPA 3005A	1,6020B	AM
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	05/07/20 21:06	05/08/20 10:07	EPA 7470A	1,7470A	GD
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	05/07/20 21:01	05/08/20 12:30	EPA 3005A	1,6020B	AM
Potassium, Dissolved	4.98		mg/l	0.100	0.0309	1	05/07/20 21:01	05/08/20 12:30	EPA 3005A	1,6020B	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	05/07/20 21:01	05/08/20 12:30	EPA 3005A	1,6020B	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	05/07/20 21:01	05/08/20 12:30	EPA 3005A	1,6020B	AM
Sodium, Dissolved	485.		mg/l	0.100	0.0293	1	05/07/20 21:01	05/08/20 12:30	EPA 3005A	1,6020B	AM
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	05/07/20 21:01	05/08/20 12:30	EPA 3005A	1,6020B	AM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	05/07/20 21:01	05/08/20 12:30	EPA 3005A	1,6020B	AM
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	05/07/20 21:01	05/08/20 12:30	EPA 3005A	1,6020B	AM

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-08 Date Collected: 05/06/20 11:30

Client ID: FIELD BLANK-050620 Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.0176		mg/l	0.0100	0.00327	1	05/07/20 17:30	05/08/20 14:14	EPA 3005A	1,6020B	AM
Antimony, Total	ND		mg/l	0.00400	0.00042	1	05/07/20 17:30	05/08/20 14:14	EPA 3005A	1,6020B	AM
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	05/07/20 17:30	05/08/20 14:14	EPA 3005A	1,6020B	AM
Barium, Total	0.00066		mg/l	0.00050	0.00017	1	05/07/20 17:30	05/08/20 14:14	EPA 3005A	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	05/07/20 17:30	05/08/20 14:14	EPA 3005A	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	05/07/20 17:30	05/08/20 14:14	EPA 3005A	1,6020B	AM
Calcium, Total	0.0497	J	mg/l	0.100	0.0394	1	05/07/20 17:30	05/08/20 14:14	EPA 3005A	1,6020B	AM
Chromium, Total	ND		mg/l	0.00100	0.00017	1	05/07/20 17:30	05/08/20 14:14	EPA 3005A	1,6020B	AM
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	05/07/20 17:30	05/08/20 14:14	EPA 3005A	1,6020B	AM
Copper, Total	ND		mg/l	0.00100	0.00038	1	05/07/20 17:30	05/08/20 14:14	EPA 3005A	1,6020B	AM
Iron, Total	0.0198	J	mg/l	0.0700	0.0191	1	05/07/20 17:30	05/08/20 14:14	EPA 3005A	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	05/07/20 17:30	05/08/20 14:14	EPA 3005A	1,6020B	AM
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	05/07/20 17:30	05/08/20 14:14	EPA 3005A	1,6020B	AM
Manganese, Total	0.00093	J	mg/l	0.00100	0.00044	1	05/07/20 17:30	05/08/20 14:14	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	05/07/20 17:36	05/07/20 21:01	EPA 7470A	1,7470A	AL
Nickel, Total	ND		mg/l	0.00200	0.00055	1	05/07/20 17:30	05/08/20 14:14	EPA 3005A	1,6020B	AM
Potassium, Total	ND		mg/l	0.100	0.0309	1	05/07/20 17:30	05/08/20 14:14	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	05/07/20 17:30	05/08/20 14:14	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	05/07/20 17:30	05/08/20 14:14	EPA 3005A	1,6020B	AM
Sodium, Total	ND		mg/l	0.100	0.0293	1	05/07/20 17:30	05/08/20 14:14	EPA 3005A	1,6020B	AM
Thallium, Total	ND		mg/l	0.00100	0.00014	1	05/07/20 17:30	05/08/20 14:14	EPA 3005A	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	05/07/20 17:30	05/08/20 14:14	EPA 3005A	1,6020B	AM
Zinc, Total	ND		mg/l	0.01000	0.00341	1	05/07/20 17:30	05/08/20 14:14	EPA 3005A	1,6020B	AM
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	05/07/20 21:01	05/08/20 11:03	EPA 3005A	1,6020B	AM
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	05/07/20 21:01	05/08/20 11:03	EPA 3005A	1,6020B	AM
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	05/07/20 21:01	05/08/20 11:03	EPA 3005A	1,6020B	AM
Barium, Dissolved	0.00032	J	mg/l	0.00050	0.00017	1	05/07/20 21:01	05/08/20 11:03	EPA 3005A	1,6020B	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	05/07/20 21:01	05/08/20 11:03	EPA 3005A	1,6020B	AM

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-08 Date Collected: 05/06/20 11:30

Client ID: FIELD BLANK-050620 Date Received: 05/06/20

Sample Location: BUCHANAN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	05/07/20 21:01	05/08/20 11:03	EPA 3005A	1,6020B	AM
Calcium, Dissolved	ND		mg/l	0.100	0.0394	1	05/07/20 21:01	05/08/20 11:03	EPA 3005A	1,6020B	AM
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	05/07/20 21:01	05/08/20 11:03	EPA 3005A	1,6020B	AM
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	05/07/20 21:01	05/08/20 11:03	EPA 3005A	1,6020B	AM
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	05/07/20 21:01	05/08/20 11:03	EPA 3005A	1,6020B	AM
Iron, Dissolved	ND		mg/l	0.0700	0.0191	1	05/07/20 21:01	05/08/20 11:03	EPA 3005A	1,6020B	AM
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	05/07/20 21:01	05/08/20 11:03	EPA 3005A	1,6020B	AM
Magnesium, Dissolved	ND		mg/l	0.0700	0.0242	1	05/07/20 21:01	05/08/20 11:03	EPA 3005A	1,6020B	AM
Manganese, Dissolved	ND		mg/l	0.00100	0.00044	1	05/07/20 21:01	05/08/20 11:03	EPA 3005A	1,6020B	AM
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	05/07/20 21:06	05/08/20 10:09	EPA 7470A	1,7470A	GD
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	05/07/20 21:01	05/08/20 11:03	EPA 3005A	1,6020B	AM
Potassium, Dissolved	ND		mg/l	0.100	0.0309	1	05/07/20 21:01	05/08/20 11:03	EPA 3005A	1,6020B	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	05/07/20 21:01	05/08/20 11:03	EPA 3005A	1,6020B	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	05/07/20 21:01	05/08/20 11:03	EPA 3005A	1,6020B	AM
Sodium, Dissolved	0.356		mg/l	0.100	0.0293	1	05/07/20 21:01	05/08/20 11:03	EPA 3005A	1,6020B	AM
Thallium, Dissolved	0.00017	J	mg/l	0.00100	0.00014	1	05/07/20 21:01	05/08/20 11:03	EPA 3005A	1,6020B	AM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	05/07/20 21:01	05/08/20 11:03	EPA 3005A	1,6020B	AM
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	05/07/20 21:01	05/08/20 11:03	EPA 3005A	1,6020B	AM

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 03-06,08 Batch: WG1368303-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	05/07/20 17:30	05/08/20 13:01	1,6020B	AM
Antimony, Total	ND		mg/l	0.00400	0.00042	1	05/07/20 17:30	05/08/20 13:01	1,6020B	AM
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	05/07/20 17:30	05/08/20 13:01	1,6020B	AM
Barium, Total	ND		mg/l	0.00050	0.00017	1	05/07/20 17:30	05/08/20 13:01	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	05/07/20 17:30	05/08/20 13:01	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	05/07/20 17:30	05/08/20 13:01	1,6020B	AM
Calcium, Total	ND		mg/l	0.100	0.0394	1	05/07/20 17:30	05/08/20 13:01	1,6020B	AM
Chromium, Total	ND		mg/l	0.00100	0.00017	1	05/07/20 17:30	05/08/20 13:01	1,6020B	AM
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	05/07/20 17:30	05/08/20 13:01	1,6020B	AM
Copper, Total	ND		mg/l	0.00100	0.00038	1	05/07/20 17:30	05/08/20 13:01	1,6020B	AM
Iron, Total	ND		mg/l	0.0700	0.0191	1	05/07/20 17:30	05/08/20 13:01	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	05/07/20 17:30	05/08/20 13:01	1,6020B	AM
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	05/07/20 17:30	05/08/20 13:01	1,6020B	AM
Manganese, Total	ND		mg/l	0.00100	0.00044	1	05/07/20 17:30	05/08/20 13:01	1,6020B	AM
Nickel, Total	ND		mg/l	0.00200	0.00055	1	05/07/20 17:30	05/08/20 13:01	1,6020B	AM
Potassium, Total	ND		mg/l	0.100	0.0309	1	05/07/20 17:30	05/08/20 13:01	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	05/07/20 17:30	05/08/20 13:01	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	05/07/20 17:30	05/08/20 13:01	1,6020B	AM
Sodium, Total	ND		mg/l	0.100	0.0293	1	05/07/20 17:30	05/08/20 13:01	1,6020B	AM
Thallium, Total	0.00018	J	mg/l	0.00100	0.00014	1	05/07/20 17:30	05/08/20 13:01	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	05/07/20 17:30	05/08/20 13:01	1,6020B	AM
Zinc, Total	ND		mg/l	0.01000	0.00341	1	05/07/20 17:30	05/08/20 13:01	1,6020B	AM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 03-06,08 Batch: WG1368306-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	05/07/20 17:36	05/07/20 20:16	1,7470A	AL

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 03-06,08 Batch: WG1368327-1										
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	05/07/20 21:01	05/08/20 09:55	1,6020B	AM
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	05/07/20 21:01	05/08/20 09:55	1,6020B	AM
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	05/07/20 21:01	05/08/20 09:55	1,6020B	AM
Barium, Dissolved	ND		mg/l	0.00050	0.00017	1	05/07/20 21:01	05/08/20 09:55	1,6020B	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	05/07/20 21:01	05/08/20 09:55	1,6020B	AM
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	05/07/20 21:01	05/08/20 09:55	1,6020B	AM
Calcium, Dissolved	0.0704	J	mg/l	0.100	0.0394	1	05/07/20 21:01	05/08/20 09:55	1,6020B	AM
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	05/07/20 21:01	05/08/20 09:55	1,6020B	AM
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	05/07/20 21:01	05/08/20 09:55	1,6020B	AM
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	05/07/20 21:01	05/08/20 09:55	1,6020B	AM
Iron, Dissolved	0.0212	J	mg/l	0.0700	0.0191	1	05/07/20 21:01	05/08/20 09:55	1,6020B	AM
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	05/07/20 21:01	05/08/20 09:55	1,6020B	AM
Magnesium, Dissolved	ND		mg/l	0.0700	0.0242	1	05/07/20 21:01	05/08/20 09:55	1,6020B	AM
Manganese, Dissolved	ND		mg/l	0.00100	0.00044	1	05/07/20 21:01	05/08/20 09:55	1,6020B	AM
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	05/07/20 21:01	05/08/20 09:55	1,6020B	AM
Potassium, Dissolved	ND		mg/l	0.100	0.0309	1	05/07/20 21:01	05/08/20 09:55	1,6020B	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	05/07/20 21:01	05/08/20 09:55	1,6020B	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	05/07/20 21:01	05/08/20 09:55	1,6020B	AM
Sodium, Dissolved	ND		mg/l	0.100	0.0293	1	05/07/20 21:01	05/08/20 09:55	1,6020B	AM
Thallium, Dissolved	0.00018	J	mg/l	0.00100	0.00014	1	05/07/20 21:01	05/08/20 09:55	1,6020B	AM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	05/07/20 21:01	05/08/20 09:55	1,6020B	AM
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	05/07/20 21:01	05/08/20 09:55	1,6020B	AM

Prep Information

Digestion Method: EPA 3005A

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 03-06,08 Batch: WG1368496-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	05/07/20 21:06	05/08/20 09:37	1,7470A	GD

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1368726-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	05/08/20 15:53	05/11/20 10:32	1,6020B	AM
Antimony, Total	ND		mg/l	0.00400	0.00042	1	05/08/20 15:53	05/11/20 10:32	1,6020B	AM
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	05/08/20 15:53	05/11/20 10:32	1,6020B	AM
Barium, Total	ND		mg/l	0.00050	0.00017	1	05/08/20 15:53	05/11/20 10:32	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	05/08/20 15:53	05/11/20 10:32	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	05/08/20 15:53	05/11/20 10:32	1,6020B	AM
Calcium, Total	ND		mg/l	0.100	0.0394	1	05/08/20 15:53	05/11/20 10:32	1,6020B	AM
Chromium, Total	ND		mg/l	0.00100	0.00017	1	05/08/20 15:53	05/11/20 10:32	1,6020B	AM
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	05/08/20 15:53	05/11/20 10:32	1,6020B	AM
Copper, Total	ND		mg/l	0.00100	0.00038	1	05/08/20 15:53	05/11/20 10:32	1,6020B	AM
Iron, Total	ND		mg/l	0.0500	0.0191	1	05/08/20 15:53	05/11/20 10:32	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	05/08/20 15:53	05/11/20 10:32	1,6020B	AM
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	05/08/20 15:53	05/11/20 10:32	1,6020B	AM
Manganese, Total	0.00096	J	mg/l	0.00100	0.00044	1	05/08/20 15:53	05/11/20 10:32	1,6020B	AM
Nickel, Total	ND		mg/l	0.00200	0.00055	1	05/08/20 15:53	05/11/20 10:32	1,6020B	AM
Potassium, Total	0.0961	J	mg/l	0.100	0.0309	1	05/08/20 15:53	05/11/20 10:32	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	05/08/20 15:53	05/11/20 10:32	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	05/08/20 15:53	05/11/20 10:32	1,6020B	AM
Sodium, Total	ND		mg/l	0.100	0.0293	1	05/08/20 15:53	05/11/20 10:32	1,6020B	AM
Thallium, Total	0.00015	J	mg/l	0.00050	0.00014	1	05/08/20 15:53	05/11/20 10:32	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	05/08/20 15:53	05/11/20 10:32	1,6020B	AM
Zinc, Total	ND		mg/l	0.01000	0.00341	1	05/08/20 15:53	05/11/20 10:32	1,6020B	AM

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1368727-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	05/08/20 17:10	05/09/20 11:56	1,7470A	AL

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01 Batch: WG1368734-1										
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	05/08/20 17:02	05/11/20 09:30	1,6020B	AM
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	05/08/20 17:02	05/11/20 09:30	1,6020B	AM
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	05/08/20 17:02	05/11/20 09:30	1,6020B	AM
Barium, Dissolved	ND		mg/l	0.00050	0.00017	1	05/08/20 17:02	05/11/20 09:30	1,6020B	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	05/08/20 17:02	05/11/20 09:30	1,6020B	AM
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	05/08/20 17:02	05/11/20 09:30	1,6020B	AM
Calcium, Dissolved	ND		mg/l	0.100	0.0394	1	05/08/20 17:02	05/11/20 09:30	1,6020B	AM
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	05/08/20 17:02	05/11/20 09:30	1,6020B	AM
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	05/08/20 17:02	05/11/20 09:30	1,6020B	AM
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	05/08/20 17:02	05/11/20 09:30	1,6020B	AM
Iron, Dissolved	0.0195	J	mg/l	0.0500	0.0191	1	05/08/20 17:02	05/11/20 09:30	1,6020B	AM
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	05/08/20 17:02	05/11/20 09:30	1,6020B	AM
Magnesium, Dissolved	ND		mg/l	0.0700	0.0242	1	05/08/20 17:02	05/11/20 09:30	1,6020B	AM
Manganese, Dissolved	ND		mg/l	0.00100	0.00044	1	05/08/20 17:02	05/11/20 09:30	1,6020B	AM
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	05/08/20 17:02	05/11/20 09:30	1,6020B	AM
Potassium, Dissolved	0.0628	J	mg/l	0.100	0.0309	1	05/08/20 17:02	05/11/20 09:30	1,6020B	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	05/08/20 17:02	05/11/20 09:30	1,6020B	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	05/08/20 17:02	05/11/20 09:30	1,6020B	AM
Sodium, Dissolved	ND		mg/l	0.100	0.0293	1	05/08/20 17:02	05/11/20 09:30	1,6020B	AM
Thallium, Dissolved	0.00019	J	mg/l	0.00050	0.00014	1	05/08/20 17:02	05/11/20 09:30	1,6020B	AM

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

Method Blank Analysis
Batch Quality Control

Vanadium, Dissolved	ND	mg/l	0.00500	0.00157	1	05/08/20 17:02	05/11/20 09:30	1,6020B	AM
Zinc, Dissolved	ND	mg/l	0.01000	0.00341	1	05/08/20 17:02	05/11/20 09:30	1,6020B	AM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01 Batch: WG1368736-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	05/08/20 17:30	05/09/20 12:35	1,7470A	AL

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4

Project Number: 01.0017869.05

Lab Number: L2018768

Report Date: 05/12/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03-06,08 Batch: WG1368303-2								
Aluminum, Total	97		-		80-120	-		
Antimony, Total	84		-		80-120	-		
Arsenic, Total	98		-		80-120	-		
Barium, Total	99		-		80-120	-		
Beryllium, Total	97		-		80-120	-		
Cadmium, Total	102		-		80-120	-		
Calcium, Total	104		-		80-120	-		
Chromium, Total	97		-		80-120	-		
Cobalt, Total	93		-		80-120	-		
Copper, Total	90		-		80-120	-		
Iron, Total	104		-		80-120	-		
Lead, Total	103		-		80-120	-		
Magnesium, Total	106		-		80-120	-		
Manganese, Total	96		-		80-120	-		
Nickel, Total	93		-		80-120	-		
Potassium, Total	105		-		80-120	-		
Selenium, Total	99		-		80-120	-		
Silver, Total	98		-		80-120	-		
Sodium, Total	104		-		80-120	-		
Thallium, Total	102		-		80-120	-		
Vanadium, Total	98		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4

Project Number: 01.0017869.05

Lab Number: L2018768

Report Date: 05/12/20

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03-06,08 Batch: WG1368303-2					
Zinc, Total	94	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 03-06,08 Batch: WG1368306-2					
Mercury, Total	91	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4

Project Number: 01.0017869.05

Lab Number: L2018768

Report Date: 05/12/20

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 03-06,08 Batch: WG1368327-2					
Aluminum, Dissolved	100	-	80-120	-	
Antimony, Dissolved	90	-	80-120	-	
Arsenic, Dissolved	98	-	80-120	-	
Barium, Dissolved	97	-	80-120	-	
Beryllium, Dissolved	102	-	80-120	-	
Cadmium, Dissolved	104	-	80-120	-	
Calcium, Dissolved	105	-	80-120	-	
Chromium, Dissolved	102	-	80-120	-	
Cobalt, Dissolved	99	-	80-120	-	
Copper, Dissolved	94	-	80-120	-	
Iron, Dissolved	111	-	80-120	-	
Lead, Dissolved	102	-	80-120	-	
Magnesium, Dissolved	109	-	80-120	-	
Manganese, Dissolved	98	-	80-120	-	
Nickel, Dissolved	100	-	80-120	-	
Potassium, Dissolved	102	-	80-120	-	
Selenium, Dissolved	93	-	80-120	-	
Silver, Dissolved	98	-	80-120	-	
Sodium, Dissolved	107	-	80-120	-	
Thallium, Dissolved	102	-	80-120	-	
Vanadium, Dissolved	103	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4

Project Number: 01.0017869.05

Lab Number: L2018768

Report Date: 05/12/20

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 03-06,08 Batch: WG1368327-2					
Zinc, Dissolved	97	-	80-120	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 03-06,08 Batch: WG1368496-2					
Mercury, Dissolved	96	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4

Project Number: 01.0017869.05

Lab Number: L2018768

Report Date: 05/12/20

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1368726-2					
Aluminum, Total	108	-	80-120	-	
Antimony, Total	81	-	80-120	-	
Arsenic, Total	97	-	80-120	-	
Barium, Total	102	-	80-120	-	
Beryllium, Total	118	-	80-120	-	
Cadmium, Total	105	-	80-120	-	
Calcium, Total	112	-	80-120	-	
Chromium, Total	104	-	80-120	-	
Cobalt, Total	102	-	80-120	-	
Copper, Total	96	-	80-120	-	
Iron, Total	113	-	80-120	-	
Lead, Total	106	-	80-120	-	
Magnesium, Total	105	-	80-120	-	
Manganese, Total	105	-	80-120	-	
Nickel, Total	100	-	80-120	-	
Potassium, Total	111	-	80-120	-	
Selenium, Total	97	-	80-120	-	
Silver, Total	98	-	80-120	-	
Sodium, Total	103	-	80-120	-	
Thallium, Total	104	-	80-120	-	
Vanadium, Total	103	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4

Project Number: 01.0017869.05

Lab Number: L2018768

Report Date: 05/12/20

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1368726-2					
Zinc, Total	106	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1368727-2					
Mercury, Total	96	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4

Project Number: 01.0017869.05

Lab Number: L2018768

Report Date: 05/12/20

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1368734-2					
Aluminum, Dissolved	103	-	80-120	-	
Antimony, Dissolved	83	-	80-120	-	
Arsenic, Dissolved	102	-	80-120	-	
Barium, Dissolved	102	-	80-120	-	
Beryllium, Dissolved	104	-	80-120	-	
Cadmium, Dissolved	102	-	80-120	-	
Calcium, Dissolved	103	-	80-120	-	
Chromium, Dissolved	100	-	80-120	-	
Cobalt, Dissolved	99	-	80-120	-	
Copper, Dissolved	95	-	80-120	-	
Iron, Dissolved	107	-	80-120	-	
Lead, Dissolved	107	-	80-120	-	
Magnesium, Dissolved	101	-	80-120	-	
Manganese, Dissolved	100	-	80-120	-	
Nickel, Dissolved	97	-	80-120	-	
Potassium, Dissolved	102	-	80-120	-	
Selenium, Dissolved	100	-	80-120	-	
Silver, Dissolved	99	-	80-120	-	
Sodium, Dissolved	100	-	80-120	-	
Thallium, Dissolved	106	-	80-120	-	
Vanadium, Dissolved	101	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4

Project Number: 01.0017869.05

Lab Number: L2018768

Report Date: 05/12/20

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1368734-2					
Zinc, Dissolved	102	-	80-120	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1368736-2					
Mercury, Dissolved	95	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4
Project Number: 01.0017869.05

Lab Number: L2018768
Report Date: 05/12/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03-06,08 QC Batch ID: WG1368303-3 WG1368303-4 QC Sample: L2018579-01 Client ID: MS Sample												
Aluminum, Total	0.355	2	2.35	100		2.29	97		75-125	3		20
Antimony, Total	0.00357J	0.5	0.4490	90		0.4449	89		75-125	1		20
Arsenic, Total	0.00189	0.12	0.1154	94		0.1200	98		75-125	4		20
Barium, Total	0.2775	2	2.206	96		2.133	93		75-125	3		20
Beryllium, Total	ND	0.05	0.04922	98		0.04747	95		75-125	4		20
Cadmium, Total	ND	0.051	0.05146	101		0.04950	97		75-125	4		20
Calcium, Total	186.	10	188	**20**	Q	190	**40**	Q	75-125	1		20
Chromium, Total	0.00100	0.2	0.1969	98		0.1901	94		75-125	4		20
Cobalt, Total	0.00050	0.5	0.4653	93		0.4435	88		75-125	5		20
Copper, Total	0.00259	0.25	0.2228	88		0.2088	82		75-125	6		20
Iron, Total	12.9	1	13.7	80		13.7	80		75-125	0		20
Lead, Total	0.00185	0.51	0.5286	103		0.5334	104		75-125	1		20
Magnesium, Total	30.3	10	39.2	89		39.7	94		75-125	1		20
Manganese, Total	0.3139	0.5	0.7887	95		0.7596	89		75-125	4		20
Nickel, Total	0.00173J	0.5	0.4677	94		0.4467	89		75-125	5		20
Potassium, Total	16.5	10	26.2	97		26.2	97		75-125	0		20
Selenium, Total	ND	0.12	0.115	96		0.118	98		75-125	3		20
Silver, Total	ND	0.05	0.04799	96		0.04541	91		75-125	6		20
Sodium, Total	99.5	10	102	**25**	Q	105	**55**	Q	75-125	3		20
Thallium, Total	0.00027J	0.12	0.1274	106		0.1224	102		75-125	4		20
Vanadium, Total	ND	0.5	0.5016	100		0.4734	95		75-125	6		20

Matrix Spike Analysis
Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4
Project Number: 01.0017869.05

Lab Number: L2018768
Report Date: 05/12/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03-06,08 QC Batch ID: WG1368303-3 WG1368303-4 QC Sample: L2018579-01 Client ID: MS Sample									
Zinc, Total	0.00632J	0.5	0.4666	93	0.4547	91	75-125	3	20
Total Metals - Mansfield Lab Associated sample(s): 03-06,08 QC Batch ID: WG1368306-3 WG1368306-4 QC Sample: L2018579-01 Client ID: MS Sample									
Mercury, Total	ND	0.005	0.00440	88	0.00417	84	75-125	5	20

Matrix Spike Analysis
Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4
Project Number: 01.0017869.05

Lab Number: L2018768
Report Date: 05/12/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 03-06,08 QC Batch ID: WG1368327-3 QC Sample: L2018768-04 Client ID: MW-101										
Aluminum, Dissolved	ND	2	1.86	93		-	-	75-125	-	20
Antimony, Dissolved	0.00106J	0.5	0.4112	82		-	-	75-125	-	20
Arsenic, Dissolved	0.00023J	0.12	0.1003	84		-	-	75-125	-	20
Barium, Dissolved	0.07617	2	1.894	91		-	-	75-125	-	20
Beryllium, Dissolved	ND	0.05	0.04876	98		-	-	75-125	-	20
Cadmium, Dissolved	ND	0.051	0.05065	99		-	-	75-125	-	20
Calcium, Dissolved	132.	10	139	**70**	Q	-	-	75-125	-	20
Chromium, Dissolved	ND	0.2	0.1905	95		-	-	75-125	-	20
Cobalt, Dissolved	ND	0.5	0.4676	94		-	-	75-125	-	20
Copper, Dissolved	0.00040J	0.25	0.2245	90		-	-	75-125	-	20
Iron, Dissolved	0.0211J	1	1.06	106		-	-	75-125	-	20
Lead, Dissolved	ND	0.51	0.4965	97		-	-	75-125	-	20
Magnesium, Dissolved	33.1	10	40.4	**73**	Q	-	-	75-125	-	20
Manganese, Dissolved	0.01440	0.5	0.4739	92		-	-	75-125	-	20
Nickel, Dissolved	ND	0.5	0.4682	94		-	-	75-125	-	20
Potassium, Dissolved	3.49	10	13.0	95		-	-	75-125	-	20
Selenium, Dissolved	ND	0.12	0.106	88		-	-	75-125	-	20
Silver, Dissolved	ND	0.05	0.04596	92		-	-	75-125	-	20
Sodium, Dissolved	485.	10	468	**0**	Q	-	-	75-125	-	20
Thallium, Dissolved	0.00028J	0.12	0.1171	98		-	-	75-125	-	20
Vanadium, Dissolved	ND	0.5	0.4875	98		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4
Project Number: 01.0017869.05

Lab Number: L2018768
Report Date: 05/12/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 03-06,08 QC Batch ID: WG1368327-3 QC Sample: L2018768-04 Client ID: MW-101										
Zinc, Dissolved	ND	0.5	0.4727	94		-	-	75-125	-	20
Dissolved Metals - Mansfield Lab Associated sample(s): 03-06,08 QC Batch ID: WG1368496-3 QC Sample: L2018768-03 Client ID: FIELD BLANK-050520										
Mercury, Dissolved	ND	0.005	0.00339	**68**	Q	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4
Project Number: 01.0017869.05

Lab Number: L2018768
Report Date: 05/12/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1368726-3 QC Sample: L2018768-01 Client ID: MW-1										
Aluminum, Total	ND	2	1.96	98		-	-	75-125	-	20
Antimony, Total	ND	0.5	0.4782	96		-	-	75-125	-	20
Arsenic, Total	ND	0.12	0.1226	102		-	-	75-125	-	20
Barium, Total	0.02190	2	2.080	103		-	-	75-125	-	20
Beryllium, Total	ND	0.05	0.05477	110		-	-	75-125	-	20
Cadmium, Total	ND	0.051	0.05270	103		-	-	75-125	-	20
Calcium, Total	71.2	10	79.0	78		-	-	75-125	-	20
Chromium, Total	ND	0.2	0.2122	106		-	-	75-125	-	20
Cobalt, Total	ND	0.5	0.5094	102		-	-	75-125	-	20
Copper, Total	0.00050J	0.25	0.2439	98		-	-	75-125	-	20
Iron, Total	0.0224J	1	1.22	122		-	-	75-125	-	20
Lead, Total	ND	0.51	0.5410	106		-	-	75-125	-	20
Magnesium, Total	17.7	10	27.5	98		-	-	75-125	-	20
Manganese, Total	0.00545	0.5	0.5106	101		-	-	75-125	-	20
Nickel, Total	ND	0.5	0.5097	102		-	-	75-125	-	20
Potassium, Total	5.13	10	15.5	104		-	-	75-125	-	20
Selenium, Total	ND	0.12	0.124	103		-	-	75-125	-	20
Silver, Total	ND	0.05	0.04955	99		-	-	75-125	-	20
Sodium, Total	334.	10	302	**0**	Q	-	-	75-125	-	20
Thallium, Total	0.00017J	0.12	0.1251	104		-	-	75-125	-	20
Vanadium, Total	ND	0.5	0.5263	105		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4
Project Number: 01.0017869.05

Lab Number: L2018768
Report Date: 05/12/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1368726-3 QC Sample: L2018768-01 Client ID: MW-1									
Zinc, Total	0.00643J	0.5	0.5200	104	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1368727-3 QC Sample: L2018768-01 Client ID: MW-1									
Mercury, Total	ND	0.005	0.00465	93	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4
Project Number: 01.0017869.05

Lab Number: L2018768
Report Date: 05/12/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1368734-3 QC Sample: L2018700-04 Client ID: MS Sample										
Aluminum, Dissolved	0.131	2	2.12	99		-	-	75-125	-	20
Antimony, Dissolved	0.00107J	0.5	0.4998	100		-	-	75-125	-	20
Arsenic, Dissolved	0.00292	0.12	0.1260	102		-	-	75-125	-	20
Barium, Dissolved	0.04438	2	2.119	104		-	-	75-125	-	20
Beryllium, Dissolved	ND	0.05	0.06150	123		-	-	75-125	-	20
Cadmium, Dissolved	0.00024	0.051	0.05473	107		-	-	75-125	-	20
Calcium, Dissolved	55.2	10	62.3	**71**	Q	-	-	75-125	-	20
Chromium, Dissolved	0.00425	0.2	0.2023	99		-	-	75-125	-	20
Cobalt, Dissolved	0.00097	0.5	0.4864	97		-	-	75-125	-	20
Copper, Dissolved	0.01896	0.25	0.2496	92		-	-	75-125	-	20
Iron, Dissolved	0.353	1	1.38	103		-	-	75-125	-	20
Lead, Dissolved	0.01630	0.51	0.5659	108		-	-	75-125	-	20
Magnesium, Dissolved	3.73	10	13.6	99		-	-	75-125	-	20
Manganese, Dissolved	0.06155	0.5	0.5464	97		-	-	75-125	-	20
Nickel, Dissolved	0.00676	0.5	0.4923	97		-	-	75-125	-	20
Potassium, Dissolved	8.70	10	18.8	101		-	-	75-125	-	20
Selenium, Dissolved	ND	0.12	0.116	97		-	-	75-125	-	20
Silver, Dissolved	ND	0.05	0.04914	98		-	-	75-125	-	20
Sodium, Dissolved	72.2	10	78.2	**60**	Q	-	-	75-125	-	20
Thallium, Dissolved	0.00020J	0.12	0.1275	106		-	-	75-125	-	20
Vanadium, Dissolved	0.00282J	0.5	0.4979	100		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4
Project Number: 01.0017869.05

Lab Number: L2018768
Report Date: 05/12/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1368734-3 QC Sample: L2018700-04 Client ID: MS Sample									
Zinc, Dissolved	0.04708	0.5	0.5606	103	-	-	75-125	-	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1368736-3 QC Sample: L2018768-01 Client ID: MW-1									
Mercury, Dissolved	ND	0.005	0.00469	94	-	-	75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4
Project Number: 01.0017869.05

Lab Number: L2018768
Report Date: 05/12/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 03-06,08 QC Batch ID: WG1368327-4 QC Sample: L2018768-04 Client ID: MW-101						
Aluminum, Dissolved	ND	ND	mg/l	NC		20
Antimony, Dissolved	0.00106J	0.00183J	mg/l	NC		20
Arsenic, Dissolved	0.00023J	0.00026J	mg/l	NC		20
Barium, Dissolved	0.07617	0.06852	mg/l	11		20
Beryllium, Dissolved	ND	ND	mg/l	NC		20
Cadmium, Dissolved	ND	ND	mg/l	NC		20
Calcium, Dissolved	132.	120	mg/l	10		20
Chromium, Dissolved	ND	0.00035J	mg/l	NC		20
Cobalt, Dissolved	ND	ND	mg/l	NC		20
Copper, Dissolved	0.00040J	ND	mg/l	NC		20
Iron, Dissolved	0.0211J	0.0600J	mg/l	NC		20
Lead, Dissolved	ND	ND	mg/l	NC		20
Magnesium, Dissolved	33.1	29.6	mg/l	11		20
Manganese, Dissolved	0.01440	0.01399	mg/l	3		20
Nickel, Dissolved	ND	0.00059J	mg/l	NC		20
Potassium, Dissolved	3.49	3.15	mg/l	10		20
Selenium, Dissolved	ND	ND	mg/l	NC		20
Silver, Dissolved	ND	ND	mg/l	NC		20
Sodium, Dissolved	485.	436	mg/l	11		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4

Project Number: 01.0017869.05

Lab Number: L2018768

Report Date: 05/12/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 03-06,08 QC Batch ID: WG1368327-4 QC Sample: L2018768-04 Client ID: MW-101					
Thallium, Dissolved	0.00028J	0.00092J	mg/l	NC	20
Vanadium, Dissolved	ND	ND	mg/l	NC	20
Zinc, Dissolved	ND	ND	mg/l	NC	20
Dissolved Metals - Mansfield Lab Associated sample(s): 03-06,08 QC Batch ID: WG1368496-4 QC Sample: L2018768-03 Client ID: FIELD BLANK-050520					
Mercury, Dissolved	ND	ND	mg/l	NC	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4

Project Number: 01.0017869.05

Lab Number: L2018768

Report Date: 05/12/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1368726-4 QC Sample: L2018768-01 Client ID: MW-1					
Aluminum, Total	ND	ND	mg/l	NC	20
Antimony, Total	ND	0.00071J	mg/l	NC	20
Arsenic, Total	ND	0.00018J	mg/l	NC	20
Barium, Total	0.02190	0.02237	mg/l	2	20
Beryllium, Total	ND	ND	mg/l	NC	20
Cadmium, Total	ND	ND	mg/l	NC	20
Calcium, Total	71.2	72.6	mg/l	2	20
Chromium, Total	ND	ND	mg/l	NC	20
Cobalt, Total	ND	ND	mg/l	NC	20
Copper, Total	0.00050J	ND	mg/l	NC	20
Iron, Total	0.0224J	0.0325J	mg/l	NC	20
Lead, Total	ND	ND	mg/l	NC	20
Magnesium, Total	17.7	17.8	mg/l	1	20
Manganese, Total	0.00545	0.00537	mg/l	1	20
Nickel, Total	ND	ND	mg/l	NC	20
Potassium, Total	5.13	5.17	mg/l	1	20
Selenium, Total	ND	0.00183J	mg/l	NC	20
Silver, Total	ND	ND	mg/l	NC	20
Sodium, Total	334.	342	mg/l	2	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4

Project Number: 01.0017869.05

Lab Number: L2018768

Report Date: 05/12/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1368726-4 QC Sample: L2018768-01 Client ID: MW-1					
Thallium, Total	0.00017J	0.00049J	mg/l	NC	20
Vanadium, Total	ND	ND	mg/l	NC	20
Zinc, Total	0.00643J	0.00667J	mg/l	NC	20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1368727-4 QC Sample: L2018768-01 Client ID: MW-1					
Mercury, Total	ND	ND	mg/l	NC	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4
Project Number: 01.0017869.05

Lab Number: L2018768
Report Date: 05/12/20

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1368734-4 QC Sample: L2018700-04 Client ID: DUP Sample						
Aluminum, Dissolved	0.131	0.140	mg/l	7		20
Antimony, Dissolved	0.00107J	0.00163J	mg/l	NC		20
Arsenic, Dissolved	0.00292	0.00268	mg/l	9		20
Barium, Dissolved	0.04438	0.04487	mg/l	1		20
Beryllium, Dissolved	ND	ND	mg/l	NC		20
Cadmium, Dissolved	0.00024	0.00035	mg/l	**37**	Q	20
Calcium, Dissolved	55.2	56.4	mg/l	2		20
Chromium, Dissolved	0.00425	0.00079J	mg/l	NC		20
Cobalt, Dissolved	0.00097	0.00083	mg/l	15		20
Copper, Dissolved	0.01896	0.01787	mg/l	6		20
Iron, Dissolved	0.353	0.349	mg/l	1		20
Lead, Dissolved	0.01630	0.01660	mg/l	2		20
Magnesium, Dissolved	3.73	3.78	mg/l	1		20
Manganese, Dissolved	0.06155	0.06280	mg/l	2		20
Nickel, Dissolved	0.00676	0.00265	mg/l	**87**	Q	20
Potassium, Dissolved	8.70	8.93	mg/l	3		20
Selenium, Dissolved	ND	ND	mg/l	NC		20
Silver, Dissolved	ND	ND	mg/l	NC		20
Sodium, Dissolved	72.2	74.1	mg/l	3		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4

Project Number: 01.0017869.05

Lab Number: L2018768

Report Date: 05/12/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1368734-4 QC Sample: L2018700-04 Client ID: DUP Sample					
Thallium, Dissolved	0.00020J	0.00052	mg/l	NC	20
Vanadium, Dissolved	0.00282J	0.00296J	mg/l	NC	20
Zinc, Dissolved	0.04708	0.04808	mg/l	2	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1368736-4 QC Sample: L2018768-01 Client ID: MW-1					
Mercury, Dissolved	ND	ND	mg/l	NC	20

INORGANICS
&
MISCELLANEOUS

Project Name: IPEC BCP SITES 2 THROUGH 4
Project Number: 01.0017869.05

Lab Number: L2018768
Report Date: 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-01
Client ID: MW-1
Sample Location: BUCHANAN, NY

Date Collected: 05/05/20 11:55
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	05/07/20 12:10	05/07/20 14:56	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	05/07/20 06:00	05/07/20 06:59	1,7196A	MA

Project Name: IPEC BCP SITES 2 THROUGH 4
Project Number: 01.0017869.05
Lab Number: L2018768
Report Date: 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-03
Client ID: FIELD BLANK-050520
Sample Location: BUCHANAN, NY
Sample Depth:
Matrix: Water
Date Collected: 05/05/20 12:40
Date Received: 05/06/20
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	05/07/20 12:10	05/07/20 14:58	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	05/07/20 06:00	05/07/20 06:59	1,7196A	MA

Project Name: IPEC BCP SITES 2 THROUGH 4
Project Number: 01.0017869.05
Lab Number: L2018768
Report Date: 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-04
Client ID: MW-101
Sample Location: BUCHANAN, NY
Sample Depth:
Matrix: Water
Date Collected: 05/06/20 08:55
Date Received: 05/06/20
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	05/07/20 12:10	05/07/20 14:59	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	05/07/20 06:00	05/07/20 06:59	1,7196A	MA

Project Name: IPEC BCP SITES 2 THROUGH 4
Project Number: 01.0017869.05

Lab Number: L2018768
Report Date: 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-05
Client ID: MW-101 (DUP)
Sample Location: BUCHANAN, NY

Date Collected: 05/06/20 08:55
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	05/07/20 12:10	05/07/20 15:00	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	05/07/20 06:00	05/07/20 06:59	1,7196A	MA

Project Name: IPEC BCP SITES 2 THROUGH 4
Project Number: 01.0017869.05

Lab Number: L2018768
Report Date: 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-06
Client ID: MW-104
Sample Location: BUCHANAN, NY

Date Collected: 05/06/20 11:00
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.002	J	mg/l	0.005	0.001	1	05/07/20 12:10	05/07/20 15:01	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	05/07/20 06:00	05/07/20 07:00	1,7196A	MA

Project Name: IPEC BCP SITES 2 THROUGH 4
Project Number: 01.0017869.05

Lab Number: L2018768
Report Date: 05/12/20

SAMPLE RESULTS

Lab ID: L2018768-08
Client ID: FIELD BLANK-050620
Sample Location: BUCHANAN, NY

Date Collected: 05/06/20 11:30
Date Received: 05/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	05/07/20 12:10	05/07/20 15:02	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	05/07/20 06:00	05/07/20 07:01	1,7196A	MA

Project Name: IPEC BCP SITES 2 THROUGH 4 **Lab Number:** L2018768

Project Number: 01.0017869.05 **Report Date:** 05/12/20

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01,03-06,08 Batch: WG1368166-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	05/07/20 06:00	05/07/20 06:57	1,7196A	MA
General Chemistry - Westborough Lab for sample(s): 01,03-06,08 Batch: WG1368279-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	05/07/20 12:10	05/07/20 14:14	1,9010C/9012B	LH

Lab Control Sample Analysis

Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4

Project Number: 01.0017869.05

Lab Number: L2018768

Report Date: 05/12/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,03-06,08 Batch: WG1368166-2								
Chromium, Hexavalent	104		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01,03-06,08 Batch: WG1368279-2 WG1368279-3								
Cyanide, Total	92		98		85-115	6		20

Matrix Spike Analysis
Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4
Project Number: 01.0017869.05

Lab Number: L2018768
Report Date: 05/12/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,03-06,08 QC Batch ID: WG1368166-4 QC Sample: L2018768-06 Client ID: MW-104												
Chromium, Hexavalent	ND	0.1	0.103	103		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01,03-06,08 QC Batch ID: WG1368279-4 WG1368279-5 QC Sample: L2018700-04 Client ID: MS Sample												
Cyanide, Total	0.002J	0.2	0.196	98		0.191	96		80-120	3		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: IPEC BCP SITES 2 THROUGH 4

Project Number: 01.0017869.05

Lab Number: L2018768

Report Date: 05/12/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,03-06,08 QC Batch ID: WG1368166-3 QC Sample: L2018768-06 Client ID: MW-104						
Chromium, Hexavalent	ND	ND	mg/l	NC		20

Project Name: IPEC BCP SITES 2 THROUGH 4
Project Number: 01.0017869.05

Lab Number: L2018768
Report Date: 05/12/20

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent
D	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2018768-01A	Vial HCl preserved	C	NA		2.6	Y	Absent		NYTCL-8260(14)
L2018768-01B	Vial HCl preserved	C	NA		2.6	Y	Absent		NYTCL-8260(14)
L2018768-01C	Vial HCl preserved	C	NA		2.6	Y	Absent		NYTCL-8260(14)
L2018768-01D	Plastic 250ml unpreserved	D	NA		2.2	Y	Absent		HOLD-537(14),A2-NY-537-ISOTOPE(14)
L2018768-01E	Plastic 250ml unpreserved	C	NA		2.6	Y	Absent		HOLD-537(14),A2-NY-537-ISOTOPE(14)
L2018768-01F	Plastic 120ml unpreserved split	C	7	7	2.6	Y	Absent		-
L2018768-01G	Plastic 250ml unpreserved	C	7	7	2.6	Y	Absent		HOLD-WETCHEM(),HEXCR-7196(1)
L2018768-01H	Amber 120ml unpreserved	C	7	7	2.6	Y	Absent		HOLD-8081(7),NYTCL-8081(7)
L2018768-01J	Amber 120ml unpreserved	C	7	7	2.6	Y	Absent		HOLD-8081(7),NYTCL-8081(7)
L2018768-01K	Amber 120ml unpreserved	C	7	7	2.6	Y	Absent		HOLD-8082(7),NYTCL-8082-LVI(7)
L2018768-01L	Amber 120ml unpreserved	C	7	7	2.6	Y	Absent		HOLD-8082(7),NYTCL-8082-LVI(7)
L2018768-01M	Plastic 250ml NaOH preserved	C	>12	>12	2.6	Y	Absent		TCN-9010(14),HOLD-WETCHEM()
L2018768-01N	Plastic 250ml HNO3 preserved	C	<2	<2	2.6	Y	Absent		FE-6020T(180),SE-6020T(180),TL-6020T(180),BA-6020T(180),NI-6020T(180),CR-6020T(180),CA-6020T(180),K-6020T(180),NA-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AL-6020T(180),MG-6020T(180),HG-T(28),AG-6020T(180),CD-6020T(180),HOLD-METAL-TOTAL(180),CO-6020T(180)
L2018768-01Q	Amber 250ml unpreserved	C	7	7	2.6	Y	Absent		HOLD-8081(7),A2-14-DIOXANESIM-PPB(7)
L2018768-01R	Amber 250ml unpreserved	C	7	7	2.6	Y	Absent		HOLD-8081(7),A2-14-DIOXANESIM-PPB(7)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2018768-01S	Amber 250ml unpreserved	C	7	7	2.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2018768-01T	Amber 250ml unpreserved	C	7	7	2.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2018768-01U	Amber 1000ml unpreserved	C	7	7	2.6	Y	Absent		HERB-APA(7),HOLD-8151(7)
L2018768-01V	Amber 1000ml unpreserved	C	7	7	2.6	Y	Absent		HERB-APA(7),HOLD-8151(7)
L2018768-01X	Plastic 120ml HNO3 preserved Filtrates	C	NA		2.6	Y	Absent		K-6020S(180),SE-6020S(180),CU-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),MG-6020S(180),ZN-6020S(180),HOLD-METAL-DISSOLVED(180),CO-6020S(180),CR-6020S(180),FE-6020S(180),CA-6020S(180),NI-6020S(180),NA-6020S(180),BA-6020S(180),TL-6020S(180),PB-6020S(180),AS-6020S(180),AG-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L2018768-02A	Plastic 250ml unpreserved	D	NA		2.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2018768-02B	Plastic 250ml unpreserved	D	NA		2.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2018768-03A	Vial HCl preserved	C	NA		2.6	Y	Absent		NYTCL-8260(14)
L2018768-03B	Vial HCl preserved	C	NA		2.6	Y	Absent		NYTCL-8260(14)
L2018768-03C	Vial HCl preserved	C	NA		2.6	Y	Absent		NYTCL-8260(14)
L2018768-03D	Plastic 250ml unpreserved	D	NA		2.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2018768-03F	Plastic 120ml unpreserved split	C	7	7	2.6	Y	Absent		-
L2018768-03G	Plastic 250ml unpreserved	C	7	7	2.6	Y	Absent		HEXCR-7196(1)
L2018768-03H	Amber 120ml unpreserved	C	7	7	2.6	Y	Absent		NYTCL-8081(7)
L2018768-03J	Amber 120ml unpreserved	C	7	7	2.6	Y	Absent		NYTCL-8081(7)
L2018768-03K	Amber 120ml unpreserved	C	7	7	2.6	Y	Absent		NYTCL-8082-LVI(7)
L2018768-03L	Amber 120ml unpreserved	C	7	7	2.6	Y	Absent		NYTCL-8082-LVI(7)
L2018768-03M	Plastic 250ml NaOH preserved	C	>12	>12	2.6	Y	Absent		TCN-9010(14)
L2018768-03N	Plastic 250ml HNO3 preserved	C	<2	<2	2.6	Y	Absent		FE-6020T(180),SE-6020T(180),BA-6020T(180),TL-6020T(180),NI-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),SB-6020T(180),AS-6020T(180),V-6020T(180),AL-6020T(180),MG-6020T(180),HG-T(28),AG-6020T(180),CD-6020T(180),CO-6020T(180)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2018768-03Q	Amber 250ml unpreserved	C	7	7	2.6	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2018768-03R	Amber 250ml unpreserved	C	7	7	2.6	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2018768-03S	Amber 250ml unpreserved	C	7	7	2.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2018768-03T	Amber 250ml unpreserved	C	7	7	2.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2018768-03U	Amber 1000ml unpreserved	C	7	7	2.6	Y	Absent		HERB-APA(7)
L2018768-03V	Amber 1000ml unpreserved	C	7	7	2.6	Y	Absent		HERB-APA(7)
L2018768-03X	Plastic 120ml HNO3 preserved Filtrates	C	NA		2.6	Y	Absent		K-6020S(180),V-6020S(180),SE-6020S(180),CU-6020S(180),MN-6020S(180),MG-6020S(180),ZN-6020S(180),BE-6020S(180),CO-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),TL-6020S(180),NA-6020S(180),NI-6020S(180),BA-6020S(180),PB-6020S(180),AS-6020S(180),AG-6020S(180),SB-6020S(180),HG-S(28),AL-6020S(180),CD-6020S(180)
L2018768-04A	Vial HCl preserved	B	NA		2.0	Y	Absent		NYTCL-8260(14)
L2018768-04B	Vial HCl preserved	B	NA		2.0	Y	Absent		NYTCL-8260(14)
L2018768-04C	Vial HCl preserved	B	NA		2.0	Y	Absent		NYTCL-8260(14)
L2018768-04D	Plastic 250ml unpreserved	D	NA		2.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2018768-04E	Plastic 250ml unpreserved	D	NA		2.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2018768-04F	Plastic 120ml unpreserved split	B	7	7	2.0	Y	Absent		-
L2018768-04G	Plastic 250ml unpreserved	B	7	7	2.0	Y	Absent		HEXCR-7196(1)
L2018768-04H	Amber 120ml unpreserved	B	7	7	2.0	Y	Absent		NYTCL-8081(7)
L2018768-04J	Amber 120ml unpreserved	B	7	7	2.0	Y	Absent		NYTCL-8081(7)
L2018768-04K	Amber 120ml unpreserved	B	7	7	2.0	Y	Absent		NYTCL-8082-LVI(7)
L2018768-04L	Amber 120ml unpreserved	B	7	7	2.0	Y	Absent		NYTCL-8082-LVI(7)
L2018768-04M	Plastic 250ml NaOH preserved	B	>12	>12	2.0	Y	Absent		TCN-9010(14)
L2018768-04N	Plastic 250ml HNO3 preserved	B	<2	<2	2.0	Y	Absent		FE-6020T(180),BA-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),CA-6020T(180),NI-6020T(180),NA-6020T(180),ZN-6020T(180),CU-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),SB-6020T(180),V-6020T(180),AS-6020T(180),AL-6020T(180),CD-6020T(180),AG-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2018768-04Q	Amber 250ml unpreserved	B	7	7	2.0	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2018768-04R	Amber 250ml unpreserved	B	7	7	2.0	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2018768-04S	Amber 250ml unpreserved	B	7	7	2.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2018768-04T	Amber 250ml unpreserved	B	7	7	2.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2018768-04U	Amber 1000ml unpreserved	B	7	7	2.0	Y	Absent		HERB-APA(7)
L2018768-04V	Amber 1000ml unpreserved	B	7	7	2.0	Y	Absent		HERB-APA(7)
L2018768-04X	Plastic 120ml HNO3 preserved Filtrates	B	NA		2.0	Y	Absent		SE-6020S(180),V-6020S(180),CU-6020S(180),K-6020S(180),MN-6020S(180),BE-6020S(180),MG-6020S(180),ZN-6020S(180),CO-6020S(180),CR-6020S(180),FE-6020S(180),CA-6020S(180),NI-6020S(180),BA-6020S(180),NA-6020S(180),PB-6020S(180),TL-6020S(180),AS-6020S(180),SB-6020S(180),AG-6020S(180),CD-6020S(180),AL-6020S(180),HG-S(28)
L2018768-05A	Vial HCl preserved	B	NA		2.0	Y	Absent		NYTCL-8260(14)
L2018768-05B	Vial HCl preserved	B	NA		2.0	Y	Absent		NYTCL-8260(14)
L2018768-05C	Vial HCl preserved	B	NA		2.0	Y	Absent		NYTCL-8260(14)
L2018768-05D	Plastic 250ml unpreserved	D	NA		2.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2018768-05E	Plastic 250ml unpreserved	D	NA		2.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2018768-05F	Plastic 120ml unpreserved split	B	7	7	2.0	Y	Absent		-
L2018768-05G	Plastic 250ml unpreserved	B	7	7	2.0	Y	Absent		HEXCR-7196(1)
L2018768-05H	Amber 120ml unpreserved	B	7	7	2.0	Y	Absent		NYTCL-8081(7)
L2018768-05J	Amber 120ml unpreserved	B	7	7	2.0	Y	Absent		NYTCL-8081(7)
L2018768-05K	Amber 120ml unpreserved	B	7	7	2.0	Y	Absent		NYTCL-8082-LVI(7)
L2018768-05L	Amber 120ml unpreserved	B	7	7	2.0	Y	Absent		NYTCL-8082-LVI(7)
L2018768-05M	Plastic 250ml NaOH preserved	B	>12	>12	2.0	Y	Absent		TCN-9010(14)
L2018768-05N	Plastic 250ml HNO3 preserved	B	<2	<2	2.0	Y	Absent		SE-6020T(180),TL-6020T(180),BA-6020T(180),FE-6020T(180),CR-6020T(180),CA-6020T(180),K-6020T(180),NI-6020T(180),ZN-6020T(180),NA-6020T(180),CU-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),HG-T(28),MG-6020T(180),CD-6020T(180),AL-6020T(180),CO-6020T(180)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2018768-05Q	Amber 250ml unpreserved	B	7	7	2.0	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2018768-05R	Amber 250ml unpreserved	B	7	7	2.0	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2018768-05S	Amber 250ml unpreserved	B	7	7	2.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2018768-05T	Amber 250ml unpreserved	B	7	7	2.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2018768-05U	Amber 1000ml unpreserved	B	7	7	2.0	Y	Absent		HERB-APA(7)
L2018768-05V	Amber 1000ml unpreserved	B	7	7	2.0	Y	Absent		HERB-APA(7)
L2018768-05X	Plastic 120ml HNO3 preserved Filtrates	B	NA		2.0	Y	Absent		V-6020S(180),K-6020S(180),SE-6020S(180),CU-6020S(180),MN-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),BE-6020S(180),FE-6020S(180),CR-6020S(180),CA-6020S(180),NI-6020S(180),TL-6020S(180),NA-6020S(180),PB-6020S(180),BA-6020S(180),AS-6020S(180),AG-6020S(180),SB-6020S(180),CD-6020S(180),AL-6020S(180),HG-S(28)
L2018768-06A	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2018768-06B	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2018768-06C	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2018768-06D	Plastic 250ml unpreserved	D	NA		2.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2018768-06E	Plastic 250ml unpreserved	D	NA		2.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2018768-06F	Plastic 120ml unpreserved split	A	7	7	3.4	Y	Absent		-
L2018768-06G	Plastic 250ml unpreserved	A	7	7	3.4	Y	Absent		HEXCR-7196(1)
L2018768-06H	Amber 120ml unpreserved	A	7	7	3.4	Y	Absent		NYTCL-8081(7)
L2018768-06J	Amber 120ml unpreserved	A	7	7	3.4	Y	Absent		NYTCL-8081(7)
L2018768-06K	Amber 120ml unpreserved	A	7	7	3.4	Y	Absent		NYTCL-8082-LVI(7)
L2018768-06L	Amber 120ml unpreserved	A	7	7	3.4	Y	Absent		NYTCL-8082-LVI(7)
L2018768-06M	Plastic 250ml NaOH preserved	A	>12	>12	3.4	Y	Absent		TCN-9010(14)
L2018768-06N	Plastic 250ml HNO3 preserved	A	<2	<2	3.4	Y	Absent		SE-6020T(180),TL-6020T(180),BA-6020T(180),FE-6020T(180),NI-6020T(180),CA-6020T(180),K-6020T(180),CR-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),AS-6020T(180),V-6020T(180),SB-6020T(180),CD-6020T(180),MG-6020T(180),AL-6020T(180),AG-6020T(180),HG-T(28),CO-6020T(180)

*Values in parentheses indicate holding time in days

Project Name: IPEC BCP SITES 2 THROUGH 4
Project Number: 01.0017869.05

Lab Number: L2018768
Report Date: 05/12/20

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2018768-06Q	Amber 250ml unpreserved	A	7	7	3.4	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2018768-06R	Amber 250ml unpreserved	A	7	7	3.4	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2018768-06S	Amber 250ml unpreserved	A	7	7	3.4	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2018768-06T	Amber 250ml unpreserved	A	7	7	3.4	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2018768-06U	Amber 1000ml unpreserved	A	7	7	3.4	Y	Absent		HERB-APA(7)
L2018768-06V	Amber 1000ml unpreserved	A	7	7	3.4	Y	Absent		HERB-APA(7)
L2018768-06X	Plastic 120ml HNO3 preserved Filtrates	A	NA		3.4	Y	Absent		CU-6020S(180),V-6020S(180),SE-6020S(180),K-6020S(180),MN-6020S(180),ZN-6020S(180),BE-6020S(180),MG-6020S(180),CO-6020S(180),FE-6020S(180),CA-6020S(180),CR-6020S(180),TL-6020S(180),PB-6020S(180),NA-6020S(180),NI-6020S(180),BA-6020S(180),SB-6020S(180),AS-6020S(180),AG-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L2018768-07A	Plastic 250ml unpreserved	D	NA		2.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2018768-07B	Plastic 250ml unpreserved	D	NA		2.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2018768-08A	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2018768-08B	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2018768-08C	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2018768-08D	Plastic 250ml unpreserved	A	NA		3.4	Y	Absent		A2-NY-537-ISOTOPE(14)
L2018768-08F	Plastic 120ml unpreserved split	A	7	7	3.4	Y	Absent		-
L2018768-08G	Plastic 250ml unpreserved	A	7	7	3.4	Y	Absent		HEXCR-7196(1)
L2018768-08H	Amber 120ml unpreserved	A	7	7	3.4	Y	Absent		NYTCL-8081(7)
L2018768-08J	Amber 120ml unpreserved	A	7	7	3.4	Y	Absent		NYTCL-8081(7)
L2018768-08K	Amber 120ml unpreserved	A	7	7	3.4	Y	Absent		NYTCL-8082-LVI(7)
L2018768-08L	Amber 120ml unpreserved	A	7	7	3.4	Y	Absent		NYTCL-8082-LVI(7)
L2018768-08M	Plastic 250ml NaOH preserved	A	>12	>12	3.4	Y	Absent		TCN-9010(14)

*Values in parentheses indicate holding time in days

Project Name: IPEC BCP SITES 2 THROUGH 4
Project Number: 01.0017869.05

Lab Number: L2018768
Report Date: 05/12/20

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2018768-08N	Plastic 250ml HNO3 preserved	A	<2	<2	3.4	Y	Absent		BA-6020T(180),TL-6020T(180),SE-6020T(180),FE-6020T(180),CR-6020T(180),K-6020T(180),CA-6020T(180),NI-6020T(180),NA-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),AS-6020T(180),V-6020T(180),SB-6020T(180),HG-T(28),AG-6020T(180),MG-6020T(180),AL-6020T(180),CD-6020T(180),CO-6020T(180)
L2018768-08Q	Amber 250ml unpreserved	A	7	7	3.4	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2018768-08R	Amber 250ml unpreserved	A	7	7	3.4	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2018768-08S	Amber 250ml unpreserved	A	7	7	3.4	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2018768-08T	Amber 250ml unpreserved	A	7	7	3.4	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2018768-08U	Amber 1000ml unpreserved	A	7	7	3.4	Y	Absent		HERB-APA(7)
L2018768-08V	Amber 1000ml unpreserved	A	7	7	3.4	Y	Absent		HERB-APA(7)
L2018768-08X	Plastic 120ml HNO3 preserved Filtrates	A	NA		3.4	Y	Absent		K-6020S(180),V-6020S(180),CU-6020S(180),SE-6020S(180),MN-6020S(180),CO-6020S(180),BE-6020S(180),ZN-6020S(180),MG-6020S(180),FE-6020S(180),CA-6020S(180),CR-6020S(180),PB-6020S(180),TL-6020S(180),NI-6020S(180),BA-6020S(180),NA-6020S(180),AS-6020S(180),SB-6020S(180),AG-6020S(180),CD-6020S(180),HG-S(28),AL-6020S(180)
L2018768-09A	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2018768-09B	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2018768-09C	Vial HCl preserved	B	NA		2.0	Y	Absent		NYTCL-8260(14)
L2018768-09D	Vial HCl preserved	B	NA		2.0	Y	Absent		NYTCL-8260(14)
L2018768-09E	Vial HCl preserved	C	NA		2.6	Y	Absent		NYTCL-8260(14)
L2018768-09F	Vial HCl preserved	C	NA		2.6	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: IPEC BCP SITES 2 THROUGH 4
Project Number: 01.0017869.05

Lab Number: L2018768
Report Date: 05/12/20

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1

Project Name:	IPEC BCP SITES 2 THROUGH 4	**Lab Number:**	L2018768
Project Number:	01.0017869.05	**Report Date:**	05/12/20

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers

Project Name:	IPEC BCP SITES 2 THROUGH 4	**Lab Number:**	L2018768
Project Number:	01.0017869.05	**Report Date:**	05/12/20

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration

Report Format: DU Report with 'J' Qualifiers

Project Name:	IPEC BCP SITES 2 THROUGH 4	**Lab Number:**	L2018768
Project Number:	01.0017869.05	**Report Date:**	05/12/20

Data Qualifiers

Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers

Project Name:	IPEC BCP SITES 2 THROUGH 4	**Lab Number:**	L2018768
Project Number:	01.0017869.05	**Report Date:**	05/12/20

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
EPA TO-12 Non-methane organics
EPA 3C Fixed gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2

Date Rec'd in Lab: 5/6/20

ALPHA Job #: L2018768

Client Information
Client: GZA of New York
Address: 104 W 29th Street, 10th Floor
Manhattan, NY 10001
Phone: 781-789-8096
Fax:
Email: Joshua.Simpson@gza.com

Project Information
Project Name: IPEC BCP Sites 2 through 4
Project Location: Buchanan, NY
Project #: 01.0017869.05
(Use Project name as Project #)
Project Manager: Joshua Simpson
ALPHAQuote #: 10724

Turn-Around Time
Standard
Rush (only if pre approved)
Due Date:
# of Days: 3 Day

Deliverables
ASP-A
ASP-B
EQuIS (1 File)
EQuIS (4 File)
Other

Regulatory Requirement
NY TOGS
NY Part 375
AWQ Standards
NY CP-51
NY Restricted Use
Other
NY Unrestricted Use
NYC Sewer Discharge

Billing Information
Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
NJ
NY
Other: Return to IPEC

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:
PFAs and 1,4 dioxane have 5 day TaT
Lab filter for dissolved metals only

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
Done
Lab to do
Preservation
Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	NYTCL Semivolatiles EPA 8270D	TCL Volatiles EPA 8260C	1,4 Dioxane via EPA 8270-SIM	TCL Pesticides EPA 8081B	Herbicides EPA 8151A	TCL PCBs EPA 8082A	Hexavalent Chromium EPA 7196	Total Cyanide EPA 9010C/9012B	Sample Specific Comments	Total Bottles
L2018768-01	MW-1	5/5/2020	1155	GW	SHS/CZ	X	X	X	X	X	X	X	X		18
-02	Equipment Blank - 050520	5/5/2020	1230	GW	SHS/CZ										2
-03	Field Blank - 050520	5/5/2020	1240	GW	SHS/CZ	X	X	X	X	X	X	X	X		18
-04	MW-101	5/6/2020	855	GW	SHS/CZ	X	X	X	X	X	X	X	X		18
-05	MW-101(dup)	5/6/2020	855	GW	SHS/CZ	X	X	X	X	X	X	X	X		18
-06	MW-104	5/6/2020	1100	GW	SHS/CZ	X	X	X	X	X	X	X	X		18
-07	Equipment Blank - 050620	5/6/2020	1140	GW	SHS/CZ										2
-08	Field Blank - 050620	5/6/2020	1130	GW	SHS/CZ	X	X	X	X	X	X	X	X		18
-09	Trip Blank	5/1/2020	-	-	JB		X								2

Container Type	A	V	A	A	A	A	P	P
Preservative	A	B	A	A	A	A	A	E

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible] GZA	5/6/20 16:10	[illegible] AAL	5/6/20 16:20
[illegible] AAL	5/6/20 1640	Paul Magella	5/6/20 1840
Paul Magella	5/6/20 2000		
	5/6/20 2230		

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 2

Date Rec'd in Lab: 5/6/20

ALPHA Job #: L2018768

Client Information

Client: GZA of New York
Address: 104 W 29th Street, 10th Floor
Manhattan, NY 10001
Phone: 781-789-8096
Fax:
Email: Joshua.Simpson@gza.com

Project Information

Project Name: IPEC BCP Sites 2 through 4
Project Location: Buchanan, NY
Project #: 01.0017869.05
(Use Project name as Project #)
Project Manager: Joshua Simpson
ALPHAQuote #: 10724

Turn-Around Time

Standard — Due Date:
Rush (only if pre approved) — # of Days: 3 Day

Deliverables

ASP-A — ASP-B
EQuIS (1 File) — EQuIS (4 File)
Other

Regulatory Requirement

NY TOGS — NY Part 375
AWQ Standards — NY CP-51
NY Restricted Use — Other
NY Unrestricted Use
NYC Sewer Discharge

Billing Information

Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
NJ — NY
Other: Return to IPEC

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

PFAs and 1,4 dioxane have 5 day TaT
Lab filter for dissolved metals only

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
Done
Lab to do
Preservation
Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total & Dissolved TAL Metals	NY PFAAs via LCMSMS -isotope dilution	Sample Specific Comments	Total Bottles
8768-01	MW-1	5/5/2020	1155	GW	SHS/CZ	X	X		8
-02	Equipment Blank - 050520	5/5/2020	1230	GW	SHS/CZ		X		2
-03	Field Blank - 050520	5/5/2020	1240	GW	SHS/CZ	X	X		18
-04	MW-101	5/6/2020	855	GW	SHS/CZ	X	X		18
-05	MW-101(dup)	5/6/2020	855	GW	SHS/CZ	X	X		18
-06	MW-104	5/6/2020	1100	GW	SHS/CZ	X	X		18
-07	Equipment Blank - 050620	5/6/2020	1140	GW	SHS/CZ		X		2
-08	Field Blank - 050620	5/6/2020	1130	GW	SHS/CZ	X	X		18
-09	Trip Blank	5/1/2020	-	-	JB				6
	Container Type					P	P		
	Preservative					C	A		

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	5/6/20 16:10		5/6/20 1620
	5/6/20 1840		5/6/20 1840
	5/6/20 2200		5/6/20 2200
	5/6/20 2230		5/6/20 2230

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

CERTIFICATE OF ANALYSIS

Joshua Simpson
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062

RE: IPEC- 450 Broadway NY (01.0017869.98)
ESS Laboratory Work Order Number: 21D0890

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 5:44 pm, May 03, 2021

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY

ESS Laboratory Work Order: 21D0890

SAMPLE RECEIPT

The following samples were received on April 26, 2021 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
21D0890-01	MW-1	Ground Water	8260C, 8270D, 8270D SIM
21D0890-02	Trip Blank	Aqueous	8260C

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY

ESS Laboratory Work Order: 21D0890

PROJECT NARRATIVE

8260C Volatile Organic Compounds

D1D0510-CCV1 **Continuing Calibration %Diff/Drift is below control limit (CD-).**
Bromomethane (27% @ 20%), Chloromethane (22% @ 20%)

DD12729-BS1 **Blank Spike recovery is below lower control limit (B-).**
Bromomethane (72% @ 80-120%), Chloromethane (70% @ 80-120%), Dichlorodifluoromethane (78% @ 80-120%)

DD12729-BSD1 **Blank Spike recovery is below lower control limit (B-).**
Bromomethane (75% @ 80-120%), Chloromethane (75% @ 80-120%), Dichlorodifluoromethane (79% @ 80-120%)

8270D Semi-Volatile Organic Compounds

D1D0576-CCV1 **Calibration required quadratic regression (Q).**
Di-n-octylphthalate (114% @ 80-120%)

D1D0576-CCV1 **Continuing Calibration %Diff/Drift is below control limit (CD-).**
Benzaldehyde (82% @ 20%)

D1D0576-CCV1 **Initial Calibration Verification recovery is below lower control limit (ICV-).**
Atrazine

8270D(SIM) Polynuclear Aromatic Hydrocarbons

D1D0539-CCV1 **Continuing Calibration %Diff/Drift is above control limit (CD+).**
Benzo(g,h,i)perylene (26% @ 20%), Indeno(1,2,3-cd)Pyrene (23% @ 20%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY

ESS Laboratory Work Order: 21D0890

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH
MADEP 18-2.1 - VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY
Client Sample ID: MW-1
Date Sampled: 04/23/21 11:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21D0890
ESS Laboratory Sample ID: 21D0890-01
Sample Matrix: Ground Water
Units: ug/L
Analyst: MD

8260C Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1-Trichloroethane	ND (1.0)	0.2	8260C		1	04/27/21 18:39	D1D0510	DD12729
1,1,2,2-Tetrachloroethane	ND (0.5)	0.1	8260C		1	04/27/21 18:39	D1D0510	DD12729
1,1,2-Trichloro-1,2,2-trifluoroethane	ND (1.0)	0.2	8260C		1	04/27/21 18:39	D1D0510	DD12729
1,1,2-Trichloroethane	ND (1.0)	0.2	8260C		1	04/27/21 18:39	D1D0510	DD12729
1,1-Dichloroethane	ND (1.0)	0.2	8260C		1	04/27/21 18:39	D1D0510	DD12729
1,1-Dichloroethene	ND (1.0)	0.3	8260C		1	04/27/21 18:39	D1D0510	DD12729
1,2,3-Trichlorobenzene	ND (1.0)	0.2	8260C		1	04/27/21 18:39	D1D0510	DD12729
1,2,4-Trichlorobenzene	ND (1.0)	0.2	8260C		1	04/27/21 18:39	D1D0510	DD12729
1,2-Dibromo-3-Chloropropane	ND (5.0)	1.0	8260C		1	04/27/21 18:39	D1D0510	DD12729
1,2-Dibromoethane	ND (1.0)	0.2	8260C		1	04/27/21 18:39	D1D0510	DD12729
1,2-Dichlorobenzene	ND (1.0)	0.1	8260C		1	04/27/21 18:39	D1D0510	DD12729
1,2-Dichloroethane	ND (1.0)	0.2	8260C		1	04/27/21 18:39	D1D0510	DD12729
1,2-Dichloropropane	ND (1.0)	0.2	8260C		1	04/27/21 18:39	D1D0510	DD12729
1,3-Dichlorobenzene	ND (1.0)	0.2	8260C		1	04/27/21 18:39	D1D0510	DD12729
1,4-Dichlorobenzene	ND (1.0)	0.1	8260C		1	04/27/21 18:39	D1D0510	DD12729
1,4-Dioxane - Screen	ND (500)	190	8260C		1	04/27/21 18:39	D1D0510	DD12729
2-Butanone	ND (10.0)	3.4	8260C		1	04/27/21 18:39	D1D0510	DD12729
2-Hexanone	ND (10.0)	1.5	8260C		1	04/27/21 18:39	D1D0510	DD12729
4-Methyl-2-Pentanone	ND (10.0)	1.6	8260C		1	04/27/21 18:39	D1D0510	DD12729
Acetone	ND (10.0)	2.7	8260C		1	04/27/21 18:39	D1D0510	DD12729
Benzene	**J 0.2** (1.0)	0.1	8260C		1	04/27/21 18:39	D1D0510	DD12729
Bromochloromethane	ND (1.0)	0.3	8260C		1	04/27/21 18:39	D1D0510	DD12729
Bromodichloromethane	ND (0.6)	0.1	8260C		1	04/27/21 18:39	D1D0510	DD12729
Bromoform	ND (1.0)	0.2	8260C		1	04/27/21 18:39	D1D0510	DD12729
Bromomethane	ND (2.0)	0.4	8260C		1	04/27/21 18:39	D1D0510	DD12729
Carbon Disulfide	ND (1.0)	0.1	8260C		1	04/27/21 18:39	D1D0510	DD12729
Carbon Tetrachloride	ND (1.0)	0.1	8260C		1	04/27/21 18:39	D1D0510	DD12729
Chlorobenzene	ND (1.0)	0.1	8260C		1	04/27/21 18:39	D1D0510	DD12729
Chloroethane	ND (2.0)	0.4	8260C		1	04/27/21 18:39	D1D0510	DD12729
Chloroform	ND (1.0)	0.2	8260C		1	04/27/21 18:39	D1D0510	DD12729
Chloromethane	ND (2.0)	0.2	8260C		1	04/27/21 18:39	D1D0510	DD12729
cis-1,2-Dichloroethene	ND (1.0)	0.2	8260C		1	04/27/21 18:39	D1D0510	DD12729

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY
Client Sample ID: MW-1
Date Sampled: 04/23/21 11:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21D0890
ESS Laboratory Sample ID: 21D0890-01
Sample Matrix: Ground Water
Units: ug/L
Analyst: MD

8260C Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
cis-1,3-Dichloropropene	ND (0.4)	0.2	8260C		1	04/27/21 18:39	D1D0510	DD12729
Cyclohexane	ND (5.0)	1.0	8260C		1	04/27/21 18:39	D1D0510	DD12729
Dibromochloromethane	ND (1.0)	0.2	8260C		1	04/27/21 18:39	D1D0510	DD12729
Dichlorodifluoromethane	ND (2.0)	0.3	8260C		1	04/27/21 18:39	D1D0510	DD12729
Ethylbenzene	ND (1.0)	0.1	8260C		1	04/27/21 18:39	D1D0510	DD12729
Isopropylbenzene	ND (1.0)	0.1	8260C		1	04/27/21 18:39	D1D0510	DD12729
Methyl acetate	ND (5.0)	1.4	8260C		1	04/27/21 18:39	D1D0510	DD12729
Methyl tert-Butyl Ether	ND (1.0)	0.3	8260C		1	04/27/21 18:39	D1D0510	DD12729
Methylcyclohexane	ND (1.0)	0.3	8260C		1	04/27/21 18:39	D1D0510	DD12729
Methylene Chloride	ND (2.0)	0.2	8260C		1	04/27/21 18:39	D1D0510	DD12729
Styrene	**J 0.4** (1.0)	0.1	8260C		1	04/27/21 18:39	D1D0510	DD12729
Tetrachloroethene	ND (1.0)	0.2	8260C		1	04/27/21 18:39	D1D0510	DD12729
Toluene	**J 0.2** (1.0)	0.1	8260C		1	04/27/21 18:39	D1D0510	DD12729
trans-1,2-Dichloroethene	ND (1.0)	0.3	8260C		1	04/27/21 18:39	D1D0510	DD12729
trans-1,3-Dichloropropene	ND (0.4)	0.2	8260C		1	04/27/21 18:39	D1D0510	DD12729
Trichloroethene	ND (1.0)	0.2	8260C		1	04/27/21 18:39	D1D0510	DD12729
Trichlorofluoromethane	ND (1.0)	0.4	8260C		1	04/27/21 18:39	D1D0510	DD12729
Vinyl Chloride	ND (1.0)	0.2	8260C		1	04/27/21 18:39	D1D0510	DD12729
Xylene O	ND (1.0)	0.1	8260C		1	04/27/21 18:39	D1D0510	DD12729
Xylene P,M	ND (2.0)	0.2	8260C		1	04/27/21 18:39	D1D0510	DD12729

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*95 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*96 %*		*70-130*
Surrogate: Dibromofluoromethane	*95 %*		*70-130*
Surrogate: Toluene-d8	*99 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY
Client Sample ID: MW-1
Date Sampled: 04/23/21 11:00
Percent Solids: N/A
Initial Volume: 1070
Final Volume: 1
Extraction Method: 3520C

ESS Laboratory Work Order: 21D0890
ESS Laboratory Sample ID: 21D0890-01
Sample Matrix: Ground Water
Units: ug/L
Analyst: TJ
Prepared: 4/28/21 12:45

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1-Biphenyl	ND (9.3)	1.0	8270D		1	04/29/21 21:48	D1D0576	DD12809
1,2,4,5-Tetrachlorobenzene	ND (9.3)	1.3	8270D		1	04/29/21 21:48	D1D0576	DD12809
2,4-Dinitrotoluene	ND (9.3)	1.0	8270D		1	04/29/21 21:48	D1D0576	DD12809
2,6-Dinitrotoluene	ND (9.3)	0.8	8270D		1	04/29/21 21:48	D1D0576	DD12809
2-Chloronaphthalene	ND (9.3)	0.9	8270D		1	04/29/21 21:48	D1D0576	DD12809
2-Nitroaniline	ND (9.3)	1.8	8270D		1	04/29/21 21:48	D1D0576	DD12809
3,3´-Dichlorobenzidine	ND (18.7)	4.9	8270D		1	04/29/21 21:48	D1D0576	DD12809
3-Nitroaniline	ND (9.3)	0.8	8270D		1	04/29/21 21:48	D1D0576	DD12809
4-Bromophenyl-phenylether	ND (9.3)	1.1	8270D		1	04/29/21 21:48	D1D0576	DD12809
4-Chloroaniline	ND (18.7)	1.9	8270D		1	04/29/21 21:48	D1D0576	DD12809
4-Chloro-phenyl-phenyl ether	ND (9.3)	1.9	8270D		1	04/29/21 21:48	D1D0576	DD12809
4-Nitroaniline	ND (9.3)	1.9	8270D		1	04/29/21 21:48	D1D0576	DD12809
Acetophenone	ND (9.3)	1.0	8270D		1	04/29/21 21:48	D1D0576	DD12809
Atrazine	ND (9.3)	1.3	8270D		1	04/29/21 21:48	D1D0576	DD12809
Benzaldehyde	ND (9.3)	6.4	8270D		1	04/29/21 21:48	D1D0576	DD12809
bis(2-Chloroethoxy)methane	ND (9.3)	1.0	8270D		1	04/29/21 21:48	D1D0576	DD12809
bis(2-Chloroethyl)ether	ND (9.3)	1.2	8270D		1	04/29/21 21:48	D1D0576	DD12809
bis(2-chloroisopropyl)Ether	ND (9.3)	1.0	8270D		1	04/29/21 21:48	D1D0576	DD12809
bis(2-Ethylhexyl)phthalate	ND (5.6)	2.1	8270D		1	04/29/21 21:48	D1D0576	DD12809
Butylbenzylphthalate	ND (9.3)	1.8	8270D		1	04/29/21 21:48	D1D0576	DD12809
Caprolactam	ND (9.3)	1.9	8270D		1	04/29/21 21:48	D1D0576	DD12809
Carbazole	ND (9.3)	1.1	8270D		1	04/29/21 21:48	D1D0576	DD12809
Dibenzofuran	ND (9.3)	1.0	8270D		1	04/29/21 21:48	D1D0576	DD12809
Diethylphthalate	ND (9.3)	1.0	8270D		1	04/29/21 21:48	D1D0576	DD12809
Dimethylphthalate	**B,J 3.2** (9.3)	1.0	8270D		1	04/29/21 21:48	D1D0576	DD12809
Di-n-butylphthalate	ND (9.3)	1.3	8270D		1	04/29/21 21:48	D1D0576	DD12809
Di-n-octylphthalate	ND (9.3)	2.0	8270D		1	04/29/21 21:48	D1D0576	DD12809
Hexachlorobenzene	ND (9.3)	0.6	8270D		1	04/29/21 21:48	D1D0576	DD12809
Hexachlorobutadiene	ND (9.3)	1.7	8270D		1	04/29/21 21:48	D1D0576	DD12809
Hexachlorocyclopentadiene	ND (23.4)	2.0	8270D		1	04/29/21 21:48	D1D0576	DD12809
Hexachloroethane	ND (4.7)	0.9	8270D		1	04/29/21 21:48	D1D0576	DD12809
Isophorone	ND (9.3)	0.9	8270D		1	04/29/21 21:48	D1D0576	DD12809

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY
Client Sample ID: MW-1
Date Sampled: 04/23/21 11:00
Percent Solids: N/A
Initial Volume: 1070
Final Volume: 1
Extraction Method: 3520C

ESS Laboratory Work Order: 21D0890
ESS Laboratory Sample ID: 21D0890-01
Sample Matrix: Ground Water
Units: ug/L
Analyst: TJ
Prepared: 4/28/21 12:45

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Nitrobenzene	ND (9.3)	0.7	8270D		1	04/29/21 21:48	D1D0576	DD12809
N-Nitroso-Di-n-Propylamine	ND (9.3)	1.1	8270D		1	04/29/21 21:48	D1D0576	DD12809
N-nitrosodiphenylamine	ND (9.3)	1.7	8270D		1	04/29/21 21:48	D1D0576	DD12809

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*59 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*71 %*		*15-110*
Surrogate: 2-Chlorophenol-d4	*59 %*		*15-110*
Surrogate: 2-Fluorobiphenyl	*61 %*		*30-130*
Surrogate: 2-Fluorophenol	*53 %*		*15-110*
Surrogate: Nitrobenzene-d5	*63 %*		*30-130*
Surrogate: Phenol-d6	*62 %*		*15-110*
Surrogate: p-Terphenyl-d14	*59 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY
Client Sample ID: MW-1
Date Sampled: 04/23/21 11:00
Percent Solids: N/A
Initial Volume: 1070
Final Volume: 0.25
Extraction Method: 3520C

ESS Laboratory Work Order: 21D0890
ESS Laboratory Sample ID: 21D0890-01
Sample Matrix: Ground Water
Units: ug/L
Analyst: TAJ
Prepared: 4/28/21 12:45

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.19)		8270D SIM		1	04/30/21 3:51	D1D0539	DD12809
Acenaphthene	ND (0.19)		8270D SIM		1	04/30/21 3:51	D1D0539	DD12809
Acenaphthylene	ND (0.19)		8270D SIM		1	04/30/21 3:51	D1D0539	DD12809
Anthracene	ND (0.19)		8270D SIM		1	04/30/21 3:51	D1D0539	DD12809
Benzo(a)anthracene	ND (0.05)		8270D SIM		1	04/30/21 3:51	D1D0539	DD12809
Benzo(a)pyrene	ND (0.05)		8270D SIM		1	04/30/21 3:51	D1D0539	DD12809
Benzo(b)fluoranthene	ND (0.05)		8270D SIM		1	04/30/21 3:51	D1D0539	DD12809
Benzo(g,h,i)perylene	ND (0.19)		8270D SIM		1	04/30/21 3:51	D1D0539	DD12809
Benzo(k)fluoranthene	ND (0.05)		8270D SIM		1	04/30/21 3:51	D1D0539	DD12809
Chrysene	ND (0.05)		8270D SIM		1	04/30/21 3:51	D1D0539	DD12809
Dibenzo(a,h)Anthracene	ND (0.05)		8270D SIM		1	04/30/21 3:51	D1D0539	DD12809
Fluoranthene	ND (0.19)		8270D SIM		1	04/30/21 3:51	D1D0539	DD12809
Fluorene	ND (0.19)		8270D SIM		1	04/30/21 3:51	D1D0539	DD12809
Indeno(1,2,3-cd)Pyrene	ND (0.05)		8270D SIM		1	04/30/21 3:51	D1D0539	DD12809
Naphthalene	ND (0.19)		8270D SIM		1	04/30/21 3:51	D1D0539	DD12809
Phenanthrene	ND (0.19)		8270D SIM		1	04/30/21 3:51	D1D0539	DD12809
Pyrene	ND (0.19)		8270D SIM		1	04/30/21 3:51	D1D0539	DD12809

%Recovery	Qualifier	Limits

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY
Client Sample ID: Trip Blank
Date Sampled: 04/23/21 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21D0890
ESS Laboratory Sample ID: 21D0890-02
Sample Matrix: Aqueous
Units: ug/L
Analyst: MD

8260C Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1-Trichloroethane	ND (1.0)	0.2	8260C		1	04/27/21 12:07	D1D0510	DD12729
1,1,2,2-Tetrachloroethane	ND (0.5)	0.1	8260C		1	04/27/21 12:07	D1D0510	DD12729
1,1,2-Trichloro-1,2,2-trifluoroethane	ND (1.0)	0.2	8260C		1	04/27/21 12:07	D1D0510	DD12729
1,1,2-Trichloroethane	ND (1.0)	0.2	8260C		1	04/27/21 12:07	D1D0510	DD12729
1,1-Dichloroethane	ND (1.0)	0.2	8260C		1	04/27/21 12:07	D1D0510	DD12729
1,1-Dichloroethene	ND (1.0)	0.3	8260C		1	04/27/21 12:07	D1D0510	DD12729
1,2,3-Trichlorobenzene	ND (1.0)	0.2	8260C		1	04/27/21 12:07	D1D0510	DD12729
1,2,4-Trichlorobenzene	ND (1.0)	0.2	8260C		1	04/27/21 12:07	D1D0510	DD12729
1,2-Dibromo-3-Chloropropane	ND (5.0)	1.0	8260C		1	04/27/21 12:07	D1D0510	DD12729
1,2-Dibromoethane	ND (1.0)	0.2	8260C		1	04/27/21 12:07	D1D0510	DD12729
1,2-Dichlorobenzene	ND (1.0)	0.1	8260C		1	04/27/21 12:07	D1D0510	DD12729
1,2-Dichloroethane	ND (1.0)	0.2	8260C		1	04/27/21 12:07	D1D0510	DD12729
1,2-Dichloropropane	ND (1.0)	0.2	8260C		1	04/27/21 12:07	D1D0510	DD12729
1,3-Dichlorobenzene	ND (1.0)	0.2	8260C		1	04/27/21 12:07	D1D0510	DD12729
1,4-Dichlorobenzene	ND (1.0)	0.1	8260C		1	04/27/21 12:07	D1D0510	DD12729
1,4-Dioxane - Screen	ND (500)	190	8260C		1	04/27/21 12:07	D1D0510	DD12729
2-Butanone	ND (10.0)	3.4	8260C		1	04/27/21 12:07	D1D0510	DD12729
2-Hexanone	ND (10.0)	1.5	8260C		1	04/27/21 12:07	D1D0510	DD12729
4-Methyl-2-Pentanone	ND (10.0)	1.6	8260C		1	04/27/21 12:07	D1D0510	DD12729
Acetone	ND (10.0)	2.7	8260C		1	04/27/21 12:07	D1D0510	DD12729
Benzene	ND (1.0)	0.1	8260C		1	04/27/21 12:07	D1D0510	DD12729
Bromochloromethane	ND (1.0)	0.3	8260C		1	04/27/21 12:07	D1D0510	DD12729
Bromodichloromethane	ND (0.6)	0.1	8260C		1	04/27/21 12:07	D1D0510	DD12729
Bromoform	ND (1.0)	0.2	8260C		1	04/27/21 12:07	D1D0510	DD12729
Bromomethane	ND (2.0)	0.4	8260C		1	04/27/21 12:07	D1D0510	DD12729
Carbon Disulfide	ND (1.0)	0.1	8260C		1	04/27/21 12:07	D1D0510	DD12729
Carbon Tetrachloride	ND (1.0)	0.1	8260C		1	04/27/21 12:07	D1D0510	DD12729
Chlorobenzene	ND (1.0)	0.1	8260C		1	04/27/21 12:07	D1D0510	DD12729
Chloroethane	ND (2.0)	0.4	8260C		1	04/27/21 12:07	D1D0510	DD12729
Chloroform	ND (1.0)	0.2	8260C		1	04/27/21 12:07	D1D0510	DD12729
Chloromethane	ND (2.0)	0.2	8260C		1	04/27/21 12:07	D1D0510	DD12729
cis-1,2-Dichloroethene	ND (1.0)	0.2	8260C		1	04/27/21 12:07	D1D0510	DD12729

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY
Client Sample ID: Trip Blank
Date Sampled: 04/23/21 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21D0890
ESS Laboratory Sample ID: 21D0890-02
Sample Matrix: Aqueous
Units: ug/L
Analyst: MD

8260C Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
cis-1,3-Dichloropropene	ND (0.4)	0.2	8260C		1	04/27/21 12:07	D1D0510	DD12729
Cyclohexane	ND (5.0)	1.0	8260C		1	04/27/21 12:07	D1D0510	DD12729
Dibromochloromethane	ND (1.0)	0.2	8260C		1	04/27/21 12:07	D1D0510	DD12729
Dichlorodifluoromethane	ND (2.0)	0.3	8260C		1	04/27/21 12:07	D1D0510	DD12729
Ethylbenzene	ND (1.0)	0.1	8260C		1	04/27/21 12:07	D1D0510	DD12729
Isopropylbenzene	ND (1.0)	0.1	8260C		1	04/27/21 12:07	D1D0510	DD12729
Methyl acetate	ND (5.0)	1.4	8260C		1	04/27/21 12:07	D1D0510	DD12729
Methyl tert-Butyl Ether	ND (1.0)	0.3	8260C		1	04/27/21 12:07	D1D0510	DD12729
Methylcyclohexane	ND (1.0)	0.3	8260C		1	04/27/21 12:07	D1D0510	DD12729
Methylene Chloride	ND (2.0)	0.2	8260C		1	04/27/21 12:07	D1D0510	DD12729
Styrene	ND (1.0)	0.1	8260C		1	04/27/21 12:07	D1D0510	DD12729
Tetrachloroethene	ND (1.0)	0.2	8260C		1	04/27/21 12:07	D1D0510	DD12729
Toluene	ND (1.0)	0.1	8260C		1	04/27/21 12:07	D1D0510	DD12729
trans-1,2-Dichloroethene	ND (1.0)	0.3	8260C		1	04/27/21 12:07	D1D0510	DD12729
trans-1,3-Dichloropropene	ND (0.4)	0.2	8260C		1	04/27/21 12:07	D1D0510	DD12729
Trichloroethene	ND (1.0)	0.2	8260C		1	04/27/21 12:07	D1D0510	DD12729
Trichlorofluoromethane	ND (1.0)	0.4	8260C		1	04/27/21 12:07	D1D0510	DD12729
Vinyl Chloride	ND (1.0)	0.2	8260C		1	04/27/21 12:07	D1D0510	DD12729
Xylene O	ND (1.0)	0.1	8260C		1	04/27/21 12:07	D1D0510	DD12729
Xylene P,M	ND (2.0)	0.2	8260C		1	04/27/21 12:07	D1D0510	DD12729

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*91 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*96 %*		*70-130*
Surrogate: Dibromofluoromethane	*90 %*		*70-130*
Surrogate: Toluene-d8	*100 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY

ESS Laboratory Work Order: 21D0890

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260C Volatile Organic Compounds										
Batch DD12729 - 5030B										
Blank										
1,1,1-Trichloroethane	ND	1.0	ug/L							
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L							
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L							
1,1,2-Trichloroethane	ND	1.0	ug/L							
1,1-Dichloroethane	ND	1.0	ug/L							
1,1-Dichloroethene	ND	1.0	ug/L							
1,2,3-Trichlorobenzene	ND	1.0	ug/L							
1,2,4-Trichlorobenzene	ND	1.0	ug/L							
1,2-Dibromo-3-Chloropropane	ND	5.0	ug/L							
1,2-Dibromoethane	ND	1.0	ug/L							
1,2-Dichlorobenzene	ND	1.0	ug/L							
1,2-Dichloroethane	ND	1.0	ug/L							
1,2-Dichloropropane	ND	1.0	ug/L							
1,3-Dichlorobenzene	ND	1.0	ug/L							
1,4-Dichlorobenzene	ND	1.0	ug/L							
1,4-Dioxane - Screen	ND	500	ug/L							
2-Butanone	ND	10.0	ug/L							
2-Hexanone	ND	10.0	ug/L							
4-Methyl-2-Pentanone	ND	10.0	ug/L							
Acetone	ND	10.0	ug/L							
Benzene	ND	1.0	ug/L							
Bromochloromethane	ND	1.0	ug/L							
Bromodichloromethane	ND	0.6	ug/L							
Bromoform	ND	1.0	ug/L							
Bromomethane	ND	2.0	ug/L							
Carbon Disulfide	ND	1.0	ug/L							
Carbon Tetrachloride	ND	1.0	ug/L							
Chlorobenzene	ND	1.0	ug/L							
Chloroethane	ND	2.0	ug/L							
Chloroform	ND	1.0	ug/L							
Chloromethane	ND	2.0	ug/L							
cis-1,2-Dichloroethene	ND	1.0	ug/L							
cis-1,3-Dichloropropene	ND	0.4	ug/L							
Cyclohexane	ND	5.0	ug/L							
Dibromochloromethane	ND	1.0	ug/L							
Dichlorodifluoromethane	ND	2.0	ug/L							
Ethylbenzene	ND	1.0	ug/L							
Isopropylbenzene	ND	1.0	ug/L							
Methyl acetate	ND	5.0	ug/L							
Methyl tert-Butyl Ether	ND	1.0	ug/L							
Methylcyclohexane	ND	1.0	ug/L							
Methylene Chloride	ND	2.0	ug/L							
Styrene	ND	1.0	ug/L							
Tetrachloroethene	ND	1.0	ug/L							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY

ESS Laboratory Work Order: 21D0890

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260C Volatile Organic Compounds										
Batch DD12729 - 5030B										
Toluene	ND	1.0	ug/L							
trans-1,2-Dichloroethene	ND	1.0	ug/L							
trans-1,3-Dichloropropene	ND	0.4	ug/L							
Trichloroethene	ND	1.0	ug/L							
Trichlorofluoromethane	ND	1.0	ug/L							
Vinyl Chloride	ND	1.0	ug/L							
Xylene O	ND	1.0	ug/L							
Xylene P,M	ND	2.0	ug/L							
Surrogate: 1,2-Dichloroethane-d4	*23.1*		ug/L	*25.00*		*92*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*24.0*		ug/L	*25.00*		*96*	*70-130*			
Surrogate: Dibromofluoromethane	*22.5*		ug/L	*25.00*		*90*	*70-130*			
Surrogate: Toluene-d8	*25.1*		ug/L	*25.00*		*100*	*70-130*			
LCS										
1,1,1-Trichloroethane	9.8	1.0	ug/L	10.00		98	80-120			
1,1,2,2-Tetrachloroethane	10.5	0.5	ug/L	10.00		105	80-120			
1,1,2-Trichloro-1,2,2-trifluoroethane	8.8	1.0	ug/L	10.00		88	80-120			
1,1,2-Trichloroethane	10.0	1.0	ug/L	10.00		100	80-120			
1,1-Dichloroethane	9.6	1.0	ug/L	10.00		96	80-120			
1,1-Dichloroethene	11.0	1.0	ug/L	10.00		110	80-120			
1,2,3-Trichlorobenzene	10.4	1.0	ug/L	10.00		104	80-120			
1,2,4-Trichlorobenzene	10.3	1.0	ug/L	10.00		103	80-120			
1,2-Dibromo-3-Chloropropane	9.4	5.0	ug/L	10.00		94	80-120			
1,2-Dibromoethane	10.5	1.0	ug/L	10.00		105	80-120			
1,2-Dichlorobenzene	10.0	1.0	ug/L	10.00		100	80-120			
1,2-Dichloroethane	8.8	1.0	ug/L	10.00		88	80-120			
1,2-Dichloropropane	9.9	1.0	ug/L	10.00		99	80-120			
1,3-Dichlorobenzene	10.0	1.0	ug/L	10.00		100	80-120			
1,4-Dichlorobenzene	9.9	1.0	ug/L	10.00		99	80-120			
1,4-Dioxane - Screen	212	500	ug/L	200.0		106	0-332			J
2-Butanone	49.0	10.0	ug/L	50.00		98	80-120			
2-Hexanone	50.7	10.0	ug/L	50.00		101	80-120			
4-Methyl-2-Pentanone	46.5	10.0	ug/L	50.00		93	80-120			
Acetone	48.7	10.0	ug/L	50.00		97	80-120			
Benzene	10.2	1.0	ug/L	10.00		102	80-120			
Bromochloromethane	10.0	1.0	ug/L	10.00		100	80-120			
Bromodichloromethane	8.7	0.6	ug/L	10.00		87	80-120			
Bromoform	10.1	1.0	ug/L	10.00		101	80-120			
Bromomethane	7.2	2.0	ug/L	10.00		72	80-120			B-
Carbon Disulfide	9.2	1.0	ug/L	10.00		92	80-120			
Carbon Tetrachloride	10.2	1.0	ug/L	10.00		102	80-120			
Chlorobenzene	9.7	1.0	ug/L	10.00		97	80-120			
Chloroethane	9.8	2.0	ug/L	10.00		98	80-120			
Chloroform	9.5	1.0	ug/L	10.00		95	80-120			
Chloromethane	7.0	2.0	ug/L	10.00		70	80-120			B-
cis-1,2-Dichloroethene	10.2	1.0	ug/L	10.00		102	80-120			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY

ESS Laboratory Work Order: 21D0890

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260C Volatile Organic Compounds										
Batch DD12729 - 5030B										
cis-1,3-Dichloropropene	10.7	0.4	ug/L	10.00		107	80-120			
Cyclohexane	10.1	5.0	ug/L	10.00		101	80-120			
Dibromochloromethane	10.6	1.0	ug/L	10.00		106	80-120			
Dichlorodifluoromethane	7.8	2.0	ug/L	10.00		78	80-120			B-
Ethylbenzene	10.4	1.0	ug/L	10.00		104	80-120			
Isopropylbenzene	10.5	1.0	ug/L	10.00		105	80-120			
Methyl acetate	9.5	5.0	ug/L	10.00		95	80-120			
Methyl tert-Butyl Ether	10.7	1.0	ug/L	10.00		107	80-120			
Methylcyclohexane	10.2	1.0	ug/L	10.00		102	80-120			
Methylene Chloride	10.2	2.0	ug/L	10.00		102	80-120			
Styrene	10.7	1.0	ug/L	10.00		107	80-120			
Tetrachloroethene	9.1	1.0	ug/L	10.00		91	80-120			
Toluene	10.6	1.0	ug/L	10.00		106	80-120			
trans-1,2-Dichloroethene	10.6	1.0	ug/L	10.00		106	80-120			
trans-1,3-Dichloropropene	10.3	0.4	ug/L	10.00		103	80-120			
Trichloroethene	9.5	1.0	ug/L	10.00		95	80-120			
Trichlorofluoromethane	9.6	1.0	ug/L	10.00		96	80-120			
Vinyl Chloride	8.4	1.0	ug/L	10.00		84	80-120			
Xylene O	10.6	1.0	ug/L	10.00		106	80-120			
Xylene P,M	21.6	2.0	ug/L	20.00		108	80-120			
Surrogate: 1,2-Dichloroethane-d4	*23.2*		ug/L	*25.00*		*93*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*24.8*		ug/L	*25.00*		*99*	*70-130*			
Surrogate: Dibromofluoromethane	*24.1*		ug/L	*25.00*		*96*	*70-130*			
Surrogate: Toluene-d8	*24.7*		ug/L	*25.00*		*99*	*70-130*			
LCS Dup										
1,1,1-Trichloroethane	10.0	1.0	ug/L	10.00		100	80-120	2	25	
1,1,2,2-Tetrachloroethane	11.0	0.5	ug/L	10.00		110	80-120	4	25	
1,1,2-Trichloro-1,2,2-trifluoroethane	8.5	1.0	ug/L	10.00		85	80-120	3	25	
1,1,2-Trichloroethane	10.0	1.0	ug/L	10.00		100	80-120	0.6	25	
1,1-Dichloroethane	9.8	1.0	ug/L	10.00		98	80-120	2	25	
1,1-Dichloroethene	11.3	1.0	ug/L	10.00		113	80-120	3	25	
1,2,3-Trichlorobenzene	10.3	1.0	ug/L	10.00		103	80-120	0.7	25	
1,2,4-Trichlorobenzene	10.4	1.0	ug/L	10.00		104	80-120	0.6	25	
1,2-Dibromo-3-Chloropropane	10.3	5.0	ug/L	10.00		103	80-120	9	25	
1,2-Dibromoethane	10.7	1.0	ug/L	10.00		107	80-120	2	25	
1,2-Dichlorobenzene	10.1	1.0	ug/L	10.00		101	80-120	0.4	25	
1,2-Dichloroethane	9.0	1.0	ug/L	10.00		90	80-120	2	25	
1,2-Dichloropropane	10.1	1.0	ug/L	10.00		101	80-120	2	25	
1,3-Dichlorobenzene	10.0	1.0	ug/L	10.00		100	80-120	0	25	
1,4-Dichlorobenzene	10.0	1.0	ug/L	10.00		100	80-120	1	25	
1,4-Dioxane - Screen	221	500	ug/L	200.0		110	0-332	4	200	J
2-Butanone	50.4	10.0	ug/L	50.00		101	80-120	3	25	
2-Hexanone	53.3	10.0	ug/L	50.00		107	80-120	5	25	
4-Methyl-2-Pentanone	48.1	10.0	ug/L	50.00		96	80-120	3	25	
Acetone	50.6	10.0	ug/L	50.00		101	80-120	4	25	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY

ESS Laboratory Work Order: 21D0890

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260C Volatile Organic Compounds										
Batch DD12729 - 5030B										
Benzene	10.2	1.0	ug/L	10.00		102	80-120	0.4	25	
Bromochloromethane	9.8	1.0	ug/L	10.00		98	80-120	2	25	
Bromodichloromethane	8.7	0.6	ug/L	10.00		87	80-120	0	25	
Bromoform	10.2	1.0	ug/L	10.00		102	80-120	0.3	25	
Bromomethane	7.5	2.0	ug/L	10.00		75	80-120	4	25	B-
Carbon Disulfide	9.1	1.0	ug/L	10.00		91	80-120	0.9	25	
Carbon Tetrachloride	10.3	1.0	ug/L	10.00		103	80-120	0.8	25	
Chlorobenzene	9.8	1.0	ug/L	10.00		98	80-120	0.6	25	
Chloroethane	9.8	2.0	ug/L	10.00		98	80-120	0.1	25	
Chloroform	9.6	1.0	ug/L	10.00		96	80-120	0.1	25	
Chloromethane	7.5	2.0	ug/L	10.00		75	80-120	7	25	B-
cis-1,2-Dichloroethene	10.7	1.0	ug/L	10.00		107	80-120	4	25	
cis-1,3-Dichloropropene	10.9	0.4	ug/L	10.00		109	80-120	2	25	
Cyclohexane	10.2	5.0	ug/L	10.00		102	80-120	0.3	25	
Dibromochloromethane	10.5	1.0	ug/L	10.00		105	80-120	0.9	25	
Dichlorodifluoromethane	7.9	2.0	ug/L	10.00		79	80-120	0.1	25	B-
Ethylbenzene	10.4	1.0	ug/L	10.00		104	80-120	0.6	25	
Isopropylbenzene	10.6	1.0	ug/L	10.00		106	80-120	0.6	25	
Methyl acetate	9.6	5.0	ug/L	10.00		96	80-120	0.4	25	
Methyl tert-Butyl Ether	10.6	1.0	ug/L	10.00		106	80-120	0.7	25	
Methylcyclohexane	10.4	1.0	ug/L	10.00		104	80-120	2	25	
Methylene Chloride	10.4	2.0	ug/L	10.00		104	80-120	2	25	
Styrene	10.8	1.0	ug/L	10.00		108	80-120	1	25	
Tetrachloroethene	9.0	1.0	ug/L	10.00		90	80-120	1	25	
Toluene	10.6	1.0	ug/L	10.00		106	80-120	0.09	25	
trans-1,2-Dichloroethene	10.2	1.0	ug/L	10.00		102	80-120	4	25	
trans-1,3-Dichloropropene	10.3	0.4	ug/L	10.00		103	80-120	0.2	25	
Trichloroethene	9.6	1.0	ug/L	10.00		96	80-120	0.4	25	
Trichlorofluoromethane	9.4	1.0	ug/L	10.00		94	80-120	3	25	
Vinyl Chloride	8.8	1.0	ug/L	10.00		88	80-120	4	25	
Xylene O	10.6	1.0	ug/L	10.00		106	80-120	0.09	25	
Xylene P,M	21.9	2.0	ug/L	20.00		109	80-120	1	25	
Surrogate: 1,2-Dichloroethane-d4	*23.2*		ug/L	*25.00*		*93*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*24.7*		ug/L	*25.00*		*99*	*70-130*			
Surrogate: Dibromofluoromethane	*24.0*		ug/L	*25.00*		*96*	*70-130*			
Surrogate: Toluene-d8	*24.8*		ug/L	*25.00*		*99*	*70-130*			
8270D Semi-Volatile Organic Compounds										
Batch DD12809 - 3520C										
Blank										
1,1-Biphenyl	ND	10.0	ug/L							
1,2,4,5-Tetrachlorobenzene	ND	10.0	ug/L							
2,4-Dinitrotoluene	ND	10.0	ug/L							
2,6-Dinitrotoluene	ND	10.0	ug/L							
2-Chloronaphthalene	ND	10.0	ug/L							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY

ESS Laboratory Work Order: 21D0890

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch DD12809 - 3520C										
2-Nitroaniline	ND	10.0	ug/L							
3,3´-Dichlorobenzidine	ND	20.0	ug/L							
3-Nitroaniline	ND	10.0	ug/L							
4-Bromophenyl-phenylether	ND	10.0	ug/L							
4-Chloroaniline	ND	20.0	ug/L							
4-Chloro-phenyl-phenyl ether	ND	10.0	ug/L							
4-Nitroaniline	ND	10.0	ug/L							
Acetophenone	ND	10.0	ug/L							
Atrazine	ND	10.0	ug/L							
Benzaldehyde	ND	10.0	ug/L							
bis(2-Chloroethoxy)methane	ND	10.0	ug/L							
bis(2-Chloroethyl)ether	ND	10.0	ug/L							
bis(2-chloroisopropyl)Ether	ND	10.0	ug/L							
bis(2-Ethylhexyl)phthalate	ND	6.0	ug/L							
Butylbenzylphthalate	ND	10.0	ug/L							
Caprolactam	ND	10.0	ug/L							
Carbazole	ND	10.0	ug/L							
Dibenzofuran	ND	10.0	ug/L							
Diethylphthalate	ND	10.0	ug/L							
Dimethylphthalate	1.7	10.0	ug/L							J
Di-n-butylphthalate	ND	10.0	ug/L							
Di-n-octylphthalate	ND	10.0	ug/L							
Hexachlorobenzene	ND	10.0	ug/L							
Hexachlorobutadiene	ND	10.0	ug/L							
Hexachlorocyclopentadiene	ND	25.0	ug/L							
Hexachloroethane	ND	5.0	ug/L							
Isophorone	ND	10.0	ug/L							
Nitrobenzene	ND	10.0	ug/L							
N-Nitroso-Di-n-Propylamine	ND	10.0	ug/L							
N-nitrosodiphenylamine	ND	10.0	ug/L							
Surrogate: 1,2-Dichlorobenzene-d4	*61.8*		ug/L	*100.0*		*62*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*97.2*		ug/L	*150.0*		*65*	*15-110*			
Surrogate: 2-Chlorophenol-d4	*93.1*		ug/L	*150.0*		*62*	*15-110*			
Surrogate: 2-Fluorobiphenyl	*60.2*		ug/L	*100.0*		*60*	*30-130*			
Surrogate: 2-Fluorophenol	*88.8*		ug/L	*150.0*		*59*	*15-110*			
Surrogate: Nitrobenzene-d5	*62.7*		ug/L	*100.0*		*63*	*30-130*			
Surrogate: Phenol-d6	*91.6*		ug/L	*150.0*		*61*	*15-110*			
Surrogate: p-Terphenyl-d14	*68.1*		ug/L	*100.0*		*68*	*30-130*			
LCS										
1,1-Biphenyl	86.4	10.0	ug/L	100.0		86	40-140			
1,2,4,5-Tetrachlorobenzene	79.4	10.0	ug/L	100.0		79	40-140			
2,4-Dinitrotoluene	92.0	10.0	ug/L	100.0		92	40-140			
2,6-Dinitrotoluene	89.4	10.0	ug/L	100.0		89	40-140			
2-Chloronaphthalene	83.1	10.0	ug/L	100.0		83	40-140			
2-Nitroaniline	84.3	10.0	ug/L	100.0		84	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY

ESS Laboratory Work Order: 21D0890

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch DD12809 - 3520C										
3,3´-Dichlorobenzidine	91.7	20.0	ug/L	100.0		92	40-140			
3-Nitroaniline	84.8	10.0	ug/L	100.0		85	40-140			
4-Bromophenyl-phenylether	90.6	10.0	ug/L	100.0		91	40-140			
4-Chloroaniline	79.8	20.0	ug/L	100.0		80	40-140			
4-Chloro-phenyl-phenyl ether	86.3	10.0	ug/L	100.0		86	40-140			
4-Nitroaniline	92.4	10.0	ug/L	100.0		92	40-140			
Acetophenone	78.0	10.0	ug/L	100.0		78	40-140			
Atrazine	92.8	10.0	ug/L	100.0		93	40-140			
Benzaldehyde	133	10.0	ug/L	100.0		133	40-140			
bis(2-Chloroethoxy)methane	77.4	10.0	ug/L	100.0		77	40-140			
bis(2-Chloroethyl)ether	77.1	10.0	ug/L	100.0		77	40-140			
bis(2-chloroisopropyl)Ether	74.8	10.0	ug/L	100.0		75	40-140			
bis(2-Ethylhexyl)phthalate	92.0	6.0	ug/L	100.0		92	40-140			
Butylbenzylphthalate	91.1	10.0	ug/L	100.0		91	40-140			
Caprolactam	86.7	10.0	ug/L	100.0		87	40-140			
Carbazole	93.4	10.0	ug/L	100.0		93	40-140			
Dibenzofuran	86.9	10.0	ug/L	100.0		87	40-140			
Diethylphthalate	90.9	10.0	ug/L	100.0		91	40-140			
Dimethylphthalate	91.4	10.0	ug/L	100.0		91	40-140			
Di-n-butylphthalate	88.4	10.0	ug/L	100.0		88	40-140			
Di-n-octylphthalate	99.2	10.0	ug/L	100.0		99	40-140			
Hexachlorobenzene	91.3	10.0	ug/L	100.0		91	40-140			
Hexachlorobutadiene	70.8	10.0	ug/L	100.0		71	40-140			
Hexachlorocyclopentadiene	76.9	25.0	ug/L	100.0		77	40-140			
Hexachloroethane	66.0	5.0	ug/L	100.0		66	40-140			
Isophorone	81.2	10.0	ug/L	100.0		81	40-140			
Nitrobenzene	76.5	10.0	ug/L	100.0		76	40-140			
N-Nitroso-Di-n-Propylamine	81.5	10.0	ug/L	100.0		81	40-140			
N-nitrosodiphenylamine	91.8	10.0	ug/L	100.0		92	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*73.7*		ug/L	*100.0*		*74*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*145*		ug/L	*150.0*		*97*	*15-110*			
Surrogate: 2-Chlorophenol-d4	*117*		ug/L	*150.0*		*78*	*15-110*			
Surrogate: 2-Fluorobiphenyl	*85.8*		ug/L	*100.0*		*86*	*30-130*			
Surrogate: 2-Fluorophenol	*111*		ug/L	*150.0*		*74*	*15-110*			
Surrogate: Nitrobenzene-d5	*79.5*		ug/L	*100.0*		*79*	*30-130*			
Surrogate: Phenol-d6	*119*		ug/L	*150.0*		*79*	*15-110*			
Surrogate: p-Terphenyl-d14	*95.0*		ug/L	*100.0*		*95*	*30-130*			
LCS Dup										
1,1-Biphenyl	84.5	10.0	ug/L	100.0		85	40-140	2	20	
1,2,4,5-Tetrachlorobenzene	82.0	10.0	ug/L	100.0		82	40-140	3	20	
2,4-Dinitrotoluene	90.9	10.0	ug/L	100.0		91	40-140	1	20	
2,6-Dinitrotoluene	87.8	10.0	ug/L	100.0		88	40-140	2	20	
2-Chloronaphthalene	81.4	10.0	ug/L	100.0		81	40-140	2	20	
2-Nitroaniline	82.4	10.0	ug/L	100.0		82	40-140	2	20	
3,3´-Dichlorobenzidine	89.9	20.0	ug/L	100.0		90	40-140	2	20	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY

ESS Laboratory Work Order: 21D0890

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch DD12809 - 3520C										
3-Nitroaniline	83.7	10.0	ug/L	100.0		84	40-140	1	20	
4-Bromophenyl-phenylether	88.9	10.0	ug/L	100.0		89	40-140	2	20	
4-Chloroaniline	80.3	20.0	ug/L	100.0		80	40-140	0.6	20	
4-Chloro-phenyl-phenyl ether	84.8	10.0	ug/L	100.0		85	40-140	2	20	
4-Nitroaniline	90.5	10.0	ug/L	100.0		91	40-140	2	20	
Acetophenone	77.9	10.0	ug/L	100.0		78	40-140	0.2	20	
Atrazine	89.8	10.0	ug/L	100.0		90	40-140	3	20	
Benzaldehyde	135	10.0	ug/L	100.0		135	40-140	2	20	
bis(2-Chloroethoxy)methane	81.0	10.0	ug/L	100.0		81	40-140	5	20	
bis(2-Chloroethyl)ether	76.0	10.0	ug/L	100.0		76	40-140	1	20	
bis(2-chloroisopropyl)Ether	74.0	10.0	ug/L	100.0		74	40-140	1	20	
bis(2-Ethylhexyl)phthalate	90.5	6.0	ug/L	100.0		90	40-140	2	20	
Butylbenzylphthalate	90.1	10.0	ug/L	100.0		90	40-140	1	20	
Caprolactam	91.2	10.0	ug/L	100.0		91	40-140	5	20	
Carbazole	90.8	10.0	ug/L	100.0		91	40-140	3	20	
Dibenzofuran	85.7	10.0	ug/L	100.0		86	40-140	1	20	
Diethylphthalate	88.7	10.0	ug/L	100.0		89	40-140	2	20	
Dimethylphthalate	89.2	10.0	ug/L	100.0		89	40-140	3	20	
Di-n-butylphthalate	85.6	10.0	ug/L	100.0		86	40-140	3	20	
Di-n-octylphthalate	94.8	10.0	ug/L	100.0		95	40-140	5	20	
Hexachlorobenzene	89.0	10.0	ug/L	100.0		89	40-140	3	20	
Hexachlorobutadiene	73.6	10.0	ug/L	100.0		74	40-140	4	20	
Hexachlorocyclopentadiene	76.0	25.0	ug/L	100.0		76	40-140	1	20	
Hexachloroethane	65.3	5.0	ug/L	100.0		65	40-140	1	20	
Isophorone	83.4	10.0	ug/L	100.0		83	40-140	3	20	
Nitrobenzene	81.0	10.0	ug/L	100.0		81	40-140	6	20	
N-Nitroso-Di-n-Propylamine	81.7	10.0	ug/L	100.0		82	40-140	0.2	20	
N-nitrosodiphenylamine	88.8	10.0	ug/L	100.0		89	40-140	3	20	
Surrogate: 1,2-Dichlorobenzene-d4	*73.5*		ug/L	*100.0*		*73*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*138*		ug/L	*150.0*		*92*	*15-110*			
Surrogate: 2-Chlorophenol-d4	*114*		ug/L	*150.0*		*76*	*15-110*			
Surrogate: 2-Fluorobiphenyl	*83.2*		ug/L	*100.0*		*83*	*30-130*			
Surrogate: 2-Fluorophenol	*108*		ug/L	*150.0*		*72*	*15-110*			
Surrogate: Nitrobenzene-d5	*81.2*		ug/L	*100.0*		*81*	*30-130*			
Surrogate: Phenol-d6	*116*		ug/L	*150.0*		*77*	*15-110*			
Surrogate: p-Terphenyl-d14	*90.8*		ug/L	*100.0*		*91*	*30-130*			
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch DD12809 - 3520C										
Blank										
2-Methylnaphthalene	ND	0.20	ug/L							
Acenaphthene	ND	0.20	ug/L							
Acenaphthylene	ND	0.20	ug/L							
Anthracene	ND	0.20	ug/L							
Benzo(a)anthracene	ND	0.05	ug/L							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY

ESS Laboratory Work Order: 21D0890

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch DD12809 - 3520C										
Benzo(a)pyrene	ND	0.05	ug/L							
Benzo(b)fluoranthene	ND	0.05	ug/L							
Benzo(g,h,i)perylene	ND	0.20	ug/L							
Benzo(k)fluoranthene	ND	0.05	ug/L							
Chrysene	ND	0.05	ug/L							
Dibenzo(a,h)Anthracene	ND	0.05	ug/L							
Fluoranthene	ND	0.20	ug/L							
Fluorene	ND	0.20	ug/L							
Indeno(1,2,3-cd)Pyrene	ND	0.05	ug/L							
Naphthalene	ND	0.20	ug/L							
Phenanthrene	ND	0.20	ug/L							
Pyrene	ND	0.20	ug/L							
Surrogate: 1,2-Dichlorobenzene-d4	*31.0*		ug/L	*100.0*		*31*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*ND*		ug/L	*150.0*		*0*	*15-110*			
Surrogate: 2-Fluorobiphenyl	*34.6*		ug/L	*100.0*		*35*	*30-130*			
Surrogate: Nitrobenzene-d5	*51.9*		ug/L	*100.0*		*52*	*30-130*			
Surrogate: p-Terphenyl-d14	*28.4*		ug/L	*100.0*		*28*	*30-130*			
LCS										
2-Methylnaphthalene	80.7	4.00	ug/L	100.0		81	40-140			
Acenaphthene	87.5	4.00	ug/L	100.0		88	40-140			
Acenaphthylene	92.7	4.00	ug/L	100.0		93	40-140			
Anthracene	89.6	4.00	ug/L	100.0		90	40-140			
Benzo(a)anthracene	84.1	1.00	ug/L	100.0		84	40-140			
Benzo(a)pyrene	95.3	1.00	ug/L	100.0		95	40-140			
Benzo(b)fluoranthene	83.7	1.00	ug/L	100.0		84	40-140			
Benzo(g,h,i)perylene	116	4.00	ug/L	100.0		116	40-140			
Benzo(k)fluoranthene	96.1	1.00	ug/L	100.0		96	40-140			
Chrysene	85.6	1.00	ug/L	100.0		86	40-140			
Dibenzo(a,h)Anthracene	111	1.00	ug/L	100.0		111	40-140			
Fluoranthene	88.7	4.00	ug/L	100.0		89	40-140			
Fluorene	93.0	4.00	ug/L	100.0		93	40-140			
Indeno(1,2,3-cd)Pyrene	121	1.00	ug/L	100.0		121	40-140			
Naphthalene	75.7	4.00	ug/L	100.0		76	40-140			
Phenanthrene	89.2	4.00	ug/L	100.0		89	40-140			
Pyrene	89.7	4.00	ug/L	100.0		90	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*71.9*		ug/L	*100.0*		*72*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*162*		ug/L	*150.0*		*108*	*15-110*			
Surrogate: 2-Fluorobiphenyl	*85.5*		ug/L	*100.0*		*85*	*30-130*			
Surrogate: Nitrobenzene-d5	*83.6*		ug/L	*100.0*		*84*	*30-130*			
Surrogate: p-Terphenyl-d14	*84.6*		ug/L	*100.0*		*85*	*30-130*			
LCS Dup										
2-Methylnaphthalene	76.7	4.00	ug/L	100.0		77	40-140	5	20	
Acenaphthene	83.0	4.00	ug/L	100.0		83	40-140	5	20	
Acenaphthylene	87.0	4.00	ug/L	100.0		87	40-140	6	20	
Anthracene	84.3	4.00	ug/L	100.0		84	40-140	6	20	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY

ESS Laboratory Work Order: 21D0890

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch DD12809 - 3520C										
Benzo(a)anthracene	81.6	1.00	ug/L	100.0		82	40-140	3	20	
Benzo(a)pyrene	94.0	1.00	ug/L	100.0		94	40-140	1	20	
Benzo(b)fluoranthene	88.6	1.00	ug/L	100.0		89	40-140	6	20	
Benzo(g,h,i)perylene	117	4.00	ug/L	100.0		117	40-140	0.7	20	
Benzo(k)fluoranthene	89.9	1.00	ug/L	100.0		90	40-140	7	20	
Chrysene	85.6	1.00	ug/L	100.0		86	40-140	0.02	20	
Dibenzo(a,h)Anthracene	110	1.00	ug/L	100.0		110	40-140	0.3	20	
Fluoranthene	83.4	4.00	ug/L	100.0		83	40-140	6	20	
Fluorene	88.7	4.00	ug/L	100.0		89	40-140	5	20	
Indeno(1,2,3-cd)Pyrene	117	1.00	ug/L	100.0		117	40-140	3	20	
Naphthalene	73.0	4.00	ug/L	100.0		73	40-140	4	20	
Phenanthrene	83.8	4.00	ug/L	100.0		84	40-140	6	20	
Pyrene	89.2	4.00	ug/L	100.0		89	40-140	0.5	20	
Surrogate: 1,2-Dichlorobenzene-d4	*67.7*		ug/L	*100.0*		*68*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*146*		ug/L	*150.0*		*97*	*15-110*			
Surrogate: 2-Fluorobiphenyl	*80.0*		ug/L	*100.0*		*80*	*30-130*			
Surrogate: Nitrobenzene-d5	*78.9*		ug/L	*100.0*		*79*	*30-130*			
Surrogate: p-Terphenyl-d14	*73.7*		ug/L	*100.0*		*74*	*30-130*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY

ESS Laboratory Work Order: 21D0890

Notes and Definitions

U	Analyte included in the analysis, but not detected
Q	Calibration required quadratic regression (Q).
J	Reported between MDL and MRL
ICV-	Initial Calibration Verification recovery is below lower control limit (ICV-).
D	Diluted.
CD+	Continuing Calibration %Diff/Drift is above control limit (CD+).
CD-	Continuing Calibration %Diff/Drift is below control limit (CD-).
B-	Blank Spike recovery is below lower control limit (B-).
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probably Number
TNTC	Too numerous to Count
CFU	Colony Forming Units

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY

ESS Laboratory Work Order: 21D0890

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002
http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424
http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752
http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: GZA - Norwood, MA - GZA/TB

Shipped/Delivered Via: ESS Courier

ESS Project ID: 21D0890
Date Received: 4/26/2021
Project Due Date: 5/3/2021
Days for Project: 5 Day

1. Air bill manifest present? No
   Air No.: NA
2. Were custody seals present? No
3. Is radiation count <100 CPM? Yes
4. Is a Cooler Present? Yes
   Temp: 0.1 Iced with: Ice
5. Was COC signed and dated by client? Yes
6. Does COC match bottles? Yes
7. Is COC complete and correct? Yes
8. Were samples received intact? Yes
9. **Were labs informed about short holds & rushes?** Yes / No / NA
10. Were any analyses received outside of hold time? Yes / No

11. Any Subcontracting needed? Yes / No
    ESS Sample IDs:
    Analysis:
    TAT:
12. Were VOAs received? Yes / No
    a. Air bubbles in aqueous VOAs? Yes / No
    b. Does methanol cover soil completely? Yes / No / NA
13. Are the samples properly preserved? Yes / No
    a. If metals preserved upon receipt: Date: Time: By:
    b. Low Level VOA vials frozen: Date: Time: By:

Sample Receiving Notes:

14. Was there a need to contact Project Manager? Yes / No
    a. Was there a need to contact the client? Yes / No
    Who was contacted? Date: Time: By:

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	158247	Yes	No	Yes	VOA Vial	HCl	
1	158248	Yes	No	Yes	VOA Vial	HCl	
1	158249	Yes	No	Yes	VOA Vial	HCl	
1	158251	Yes	N/A	Yes	1L Amber	NP	
1	158252	Yes	N/A	Yes	1L Amber	NP	
2	158250	Yes	No	Yes	VOA Vial	HCl	

2nd Review
Were all containers scanned into storage/lab? Initials AC
Are barcode labels on correct containers? Yes / No
Are all Flashpoint stickers attached/container ID # circled? Yes / No / NA
Are all Hex Chrome stickers attached? Yes / No / NA
Are all QC stickers attached? Yes / No / NA
Are VOA stickers attached if bubbles noted? Yes / No / NA

Completed By: Amber Perrin Date & Time: 4/26/21 13:20

ESS Laboratory Sample and Cooler Receipt Checklist

Client: GZA - Norwood, MA - GZA/TB

ESS Project ID: 21D0890

Date Received: 4/26/2021

Reviewed By:

Date & Time: 4/26/21 1327

CHAIN OF CUSTODY

ESS Lab # 210890 | Page 1 of 1

185 Frances Avenue
Cranston, RI 02921
Phone: 401-461-7181
Fax: 401-461-4486
www.esslaboratory.com

Turn Time: ☐ >5 ☒ 5 ☐ 4 ☐ 3 ☐ 2 ☐ 1 ☐ Same Day

Regulatory State: NY Criteria:

Is this project for any of the following?: ☐ CT RCP ☐ MA MCP ☐ RGP ☐ Permit ☐ 401 WQ

ELECTRONIC DELIVERABLES (Final Reports are PDF): ☐ Limit Checker ☐ State Forms ☐ EQuIS ☒ Excel ☐ Hard Copy ☐ Enviro Data ☐ CLP-Like Package ☐ Other (Specify) →

CLIENT INFORMATION

Client: GZA
Address: 249 Vanderbilt Ave
Norwood, MA 02062
Phone:
Email Distribution List: joshua.simpson@gza.com

PROJECT INFORMATION

Project Name: IPEC
Project Location: 450 Broadway, Bayonne, NY
Project Number: 01.0017869.96
Project Manager: Joshua Simpson
Bill to:
PO#:
Quote#:

Client acknowledges that sampling is compliant with all EPA / State regulatory programs

REQUESTED ANALYSES

ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix	Sample ID	VOC 8260 + MTBE	SVOC 8270 Base/Neutrals	Total Number of Bottles
1	4/23/21	11:00	Grab	GW	MW-1	X	X	5
2		11:00			Trip Blank	X		1
						V	AG	
						7	6	
						2	1	

Container Type: AC-Air Cassette AG-Amber Glass B-BOD Bottle C-Cubitainer J-Jar O-Other P-Poly S-Sterile V-Vial

Container Volume: 1-100 mL 2-2.5 gal 3-250 mL 4-300 mL 5-500 mL 6-1L 7-VOA 8-2 oz 9-4 oz 10-8 oz 11-Other*

Preservation Code: 1-Non Preserved 2-HCl 3-H2SO4 4-HNO3 5-NaOH 6-Methanol 7-Na2S2O3 8-ZnAce, NaOH 9-NH4Cl 10-DI H2O 11-Other*

Chain needs to be filled out neatly and completely for on time delivery.

Sampled by: Connor Zingale

Comments: * Please specify "Other" preservative and containers types in this space

All samples submitted are subject to ESS Laboratory's payment terms and conditions.

Dissolved Filtration ☐ Lab Filter

Laboratory Use Only

Cooler Temperature (°C): 0.6 Ex Must be 5 day TAT

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
	4/23/21						
Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)

CERTIFICATE OF ANALYSIS

Joshua Simpson
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062

RE: IPEC- 450 Broadway NY (01.0017869.98)
ESS Laboratory Work Order Number: 22E0396

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 8:42 pm, May 18, 2022

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY

ESS Laboratory Work Order: 22E0396

SAMPLE RECEIPT

The following samples were received on May 11, 2022 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
22E0396-01	MW-1	Ground Water	8260C, 8270D, 8270D SIM
22E0396-02	TB	Aqueous	8260C

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY

ESS Laboratory Work Order: 22E0396

PROJECT NARRATIVE

8260C Volatile Organic Compounds

D2E0240-CCV1 **Continuing Calibration %Diff/Drift is below control limit (CD-).**
1,4-Dioxane - Screen (26% @ 20%), Methyl acetate (22% @ 20%)

DE21243-BS1 **Blank Spike recovery is above upper control limit (B+).**
1,2,4-Trichlorobenzene (122% @ 80-120%)

DE21243-BS1 **Blank Spike recovery is below lower control limit (B-).**
Dichlorodifluoromethane (77% @ 80-120%), Methyl acetate (75% @ 80-120%)

DE21243-BSD1 **Blank Spike recovery is above upper control limit (B+).**
Acetone (121% @ 80-120%), Dichlorodifluoromethane (79% @ 80-120%), Methyl acetate (77% @ 80-120%)

8270D Semi-Volatile Organic Compounds

D2E0257-CCV1 **Continuing Calibration %Diff/Drift is above control limit (CD+).**
2,4,6-Tribromophenol (27% @ 20%), 4-Bromophenyl-phenylether (21% @ 20%), Atrazine (23% @ 20%), p-Terphenyl-d14 (23% @ 20%)

D2E0257-CCV1 **Continuing Calibration %Diff/Drift is below control limit (CD-).**
Benzaldehyde (80% @ 20%)

D2E0257-CCV1 **Initial Calibration Verification recovery is below lower control limit (ICV-).**
4-Chloroaniline

8270D(SIM) Polynuclear Aromatic Hydrocarbons

D2E0311-CCV1 **Calibration required quadratic regression (Q).**
2,4,6-Tribromophenol (122% @ 80-120%)

D2E0311-CCV1 **Continuing Calibration %Diff/Drift is above control limit (CD+).**
2,4,6-Tribromophenol (22% @ 20%), Nitrobenzene-d5 (35% @ 20%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY

ESS Laboratory Work Order: 22E0396

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH
MADEP 18-2.1 - VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY
Client Sample ID: MW-1
Date Sampled: 05/10/22 11:35
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 22E0396
ESS Laboratory Sample ID: 22E0396-01
Sample Matrix: Ground Water
Units: ug/L
Analyst: MD

8260C Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1-Trichloroethane	ND (1.0)	0.2	8260C		1	05/12/22 20:09	D2E0240	DE21243
1,1,2,2-Tetrachloroethane	ND (0.5)	0.1	8260C		1	05/12/22 20:09	D2E0240	DE21243
1,1,2-Trichloro-1,2,2-trifluoroethane	ND (1.0)	0.2	8260C		1	05/12/22 20:09	D2E0240	DE21243
1,1,2-Trichloroethane	ND (1.0)	0.2	8260C		1	05/12/22 20:09	D2E0240	DE21243
1,1-Dichloroethane	ND (1.0)	0.2	8260C		1	05/12/22 20:09	D2E0240	DE21243
1,1-Dichloroethene	ND (1.0)	0.3	8260C		1	05/12/22 20:09	D2E0240	DE21243
1,2,3-Trichlorobenzene	ND (1.0)	0.2	8260C		1	05/12/22 20:09	D2E0240	DE21243
1,2,4-Trichlorobenzene	ND (1.0)	0.2	8260C		1	05/12/22 20:09	D2E0240	DE21243
1,2-Dibromo-3-Chloropropane	ND (5.0)	1.0	8260C		1	05/12/22 20:09	D2E0240	DE21243
1,2-Dibromoethane	ND (1.0)	0.2	8260C		1	05/12/22 20:09	D2E0240	DE21243
1,2-Dichlorobenzene	ND (1.0)	0.1	8260C		1	05/12/22 20:09	D2E0240	DE21243
1,2-Dichloroethane	ND (1.0)	0.2	8260C		1	05/12/22 20:09	D2E0240	DE21243
1,2-Dichloropropane	ND (1.0)	0.2	8260C		1	05/12/22 20:09	D2E0240	DE21243
1,3-Dichlorobenzene	ND (1.0)	0.2	8260C		1	05/12/22 20:09	D2E0240	DE21243
1,4-Dichlorobenzene	ND (1.0)	0.1	8260C		1	05/12/22 20:09	D2E0240	DE21243
1,4-Dioxane - Screen	ND (500)	190	8260C		1	05/12/22 20:09	D2E0240	DE21243
2-Butanone	ND (10.0)	3.4	8260C		1	05/12/22 20:09	D2E0240	DE21243
2-Hexanone	ND (10.0)	1.5	8260C		1	05/12/22 20:09	D2E0240	DE21243
4-Methyl-2-Pentanone	ND (10.0)	1.6	8260C		1	05/12/22 20:09	D2E0240	DE21243
Acetone	**J 3.4** (10.0)	2.7	8260C		1	05/12/22 20:09	D2E0240	DE21243
Benzene	ND (1.0)	0.1	8260C		1	05/12/22 20:09	D2E0240	DE21243
Bromochloromethane	ND (1.0)	0.3	8260C		1	05/12/22 20:09	D2E0240	DE21243
Bromodichloromethane	ND (0.6)	0.1	8260C		1	05/12/22 20:09	D2E0240	DE21243
Bromoform	ND (1.0)	0.2	8260C		1	05/12/22 20:09	D2E0240	DE21243
Bromomethane	ND (2.0)	0.4	8260C		1	05/12/22 20:09	D2E0240	DE21243
Carbon Disulfide	ND (1.0)	0.1	8260C		1	05/12/22 20:09	D2E0240	DE21243
Carbon Tetrachloride	ND (1.0)	0.1	8260C		1	05/12/22 20:09	D2E0240	DE21243
Chlorobenzene	ND (1.0)	0.1	8260C		1	05/12/22 20:09	D2E0240	DE21243
Chloroethane	ND (2.0)	0.4	8260C		1	05/12/22 20:09	D2E0240	DE21243
Chloroform	ND (1.0)	0.2	8260C		1	05/12/22 20:09	D2E0240	DE21243
Chloromethane	ND (2.0)	0.2	8260C		1	05/12/22 20:09	D2E0240	DE21243
cis-1,2-Dichloroethene	ND (1.0)	0.2	8260C		1	05/12/22 20:09	D2E0240	DE21243

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY
Client Sample ID: MW-1
Date Sampled: 05/10/22 11:35
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 22E0396
ESS Laboratory Sample ID: 22E0396-01
Sample Matrix: Ground Water
Units: ug/L
Analyst: MD

8260C Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
cis-1,3-Dichloropropene	ND (0.4)	0.2	8260C		1	05/12/22 20:09	D2E0240	DE21243
Cyclohexane	ND (5.0)	1.0	8260C		1	05/12/22 20:09	D2E0240	DE21243
Dibromochloromethane	ND (1.0)	0.2	8260C		1	05/12/22 20:09	D2E0240	DE21243
Dichlorodifluoromethane	ND (2.0)	0.3	8260C		1	05/12/22 20:09	D2E0240	DE21243
Ethylbenzene	ND (1.0)	0.1	8260C		1	05/12/22 20:09	D2E0240	DE21243
Isopropylbenzene	ND (1.0)	0.1	8260C		1	05/12/22 20:09	D2E0240	DE21243
Methyl acetate	ND (5.0)	1.4	8260C		1	05/12/22 20:09	D2E0240	DE21243
Methyl tert-Butyl Ether	ND (1.0)	0.3	8260C		1	05/12/22 20:09	D2E0240	DE21243
Methylcyclohexane	ND (1.0)	0.3	8260C		1	05/12/22 20:09	D2E0240	DE21243
Methylene Chloride	ND (2.0)	0.2	8260C		1	05/12/22 20:09	D2E0240	DE21243
Styrene	ND (1.0)	0.1	8260C		1	05/12/22 20:09	D2E0240	DE21243
Tetrachloroethene	ND (1.0)	0.2	8260C		1	05/12/22 20:09	D2E0240	DE21243
Toluene	ND (1.0)	0.1	8260C		1	05/12/22 20:09	D2E0240	DE21243
trans-1,2-Dichloroethene	ND (1.0)	0.3	8260C		1	05/12/22 20:09	D2E0240	DE21243
trans-1,3-Dichloropropene	ND (0.4)	0.2	8260C		1	05/12/22 20:09	D2E0240	DE21243
Trichloroethene	ND (1.0)	0.2	8260C		1	05/12/22 20:09	D2E0240	DE21243
Trichlorofluoromethane	ND (1.0)	0.4	8260C		1	05/12/22 20:09	D2E0240	DE21243
Vinyl Chloride	ND (1.0)	0.2	8260C		1	05/12/22 20:09	D2E0240	DE21243
Xylene O	ND (1.0)	0.1	8260C		1	05/12/22 20:09	D2E0240	DE21243
Xylene P,M	ND (2.0)	0.2	8260C		1	05/12/22 20:09	D2E0240	DE21243

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*98 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*101 %*		*70-130*
Surrogate: Dibromofluoromethane	*100 %*		*70-130*
Surrogate: Toluene-d8	*107 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY
Client Sample ID: MW-1
Date Sampled: 05/10/22 11:35
Percent Solids: N/A
Initial Volume: 1070
Final Volume: 1
Extraction Method: 3520C

ESS Laboratory Work Order: 22E0396
ESS Laboratory Sample ID: 22E0396-01
Sample Matrix: Ground Water
Units: ug/L
Analyst: IBM
Prepared: 5/16/22 12:55

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1-Biphenyl	ND (9.3)		8270D		1	05/17/22 11:00	D2E0257	DE21607
1,2,4,5-Tetrachlorobenzene	ND (9.3)		8270D		1	05/17/22 11:00	D2E0257	DE21607
2,4-Dinitrotoluene	ND (9.3)		8270D		1	05/17/22 11:00	D2E0257	DE21607
2,6-Dinitrotoluene	ND (9.3)		8270D		1	05/17/22 11:00	D2E0257	DE21607
2-Chloronaphthalene	ND (9.3)		8270D		1	05/17/22 11:00	D2E0257	DE21607
2-Nitroaniline	ND (9.3)		8270D		1	05/17/22 11:00	D2E0257	DE21607
3,3´-Dichlorobenzidine	ND (18.7)		8270D		1	05/17/22 11:00	D2E0257	DE21607
3-Nitroaniline	ND (9.3)		8270D		1	05/17/22 11:00	D2E0257	DE21607
4-Bromophenyl-phenylether	ND (9.3)		8270D		1	05/17/22 11:00	D2E0257	DE21607
4-Chloroaniline	ND (18.7)		8270D		1	05/17/22 11:00	D2E0257	DE21607
4-Chloro-phenyl-phenyl ether	ND (9.3)		8270D		1	05/17/22 11:00	D2E0257	DE21607
4-Nitroaniline	ND (9.3)		8270D		1	05/17/22 11:00	D2E0257	DE21607
Acetophenone	ND (9.3)		8270D		1	05/17/22 11:00	D2E0257	DE21607
Atrazine	ND (9.3)		8270D		1	05/17/22 11:00	D2E0257	DE21607
Benzaldehyde	ND (9.3)		8270D		1	05/17/22 11:00	D2E0257	DE21607
bis(2-Chloroethoxy)methane	ND (9.3)		8270D		1	05/17/22 11:00	D2E0257	DE21607
bis(2-Chloroethyl)ether	ND (9.3)		8270D		1	05/17/22 11:00	D2E0257	DE21607
bis(2-chloroisopropyl)Ether	ND (9.3)		8270D		1	05/17/22 11:00	D2E0257	DE21607
bis(2-Ethylhexyl)phthalate	ND (5.6)		8270D		1	05/17/22 11:00	D2E0257	DE21607
Butylbenzylphthalate	ND (9.3)		8270D		1	05/17/22 11:00	D2E0257	DE21607
Caprolactam	ND (9.3)		8270D		1	05/17/22 11:00	D2E0257	DE21607
Carbazole	ND (9.3)		8270D		1	05/17/22 11:00	D2E0257	DE21607
Dibenzofuran	ND (9.3)		8270D		1	05/17/22 11:00	D2E0257	DE21607
Diethylphthalate	ND (9.3)		8270D		1	05/17/22 11:00	D2E0257	DE21607
Dimethylphthalate	ND (9.3)		8270D		1	05/17/22 11:00	D2E0257	DE21607
Di-n-butylphthalate	ND (9.3)		8270D		1	05/17/22 11:00	D2E0257	DE21607
Di-n-octylphthalate	ND (9.3)		8270D		1	05/17/22 11:00	D2E0257	DE21607
Hexachlorobenzene	ND (9.3)		8270D		1	05/17/22 11:00	D2E0257	DE21607
Hexachlorobutadiene	ND (9.3)		8270D		1	05/17/22 11:00	D2E0257	DE21607
Hexachlorocyclopentadiene	ND (23.4)		8270D		1	05/17/22 11:00	D2E0257	DE21607
Hexachloroethane	ND (4.7)		8270D		1	05/17/22 11:00	D2E0257	DE21607
Isophorone	ND (9.3)		8270D		1	05/17/22 11:00	D2E0257	DE21607

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY
Client Sample ID: MW-1
Date Sampled: 05/10/22 11:35
Percent Solids: N/A
Initial Volume: 1070
Final Volume: 1
Extraction Method: 3520C

ESS Laboratory Work Order: 22E0396
ESS Laboratory Sample ID: 22E0396-01
Sample Matrix: Ground Water
Units: ug/L
Analyst: IBM
Prepared: 5/16/22 12:55

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Nitrobenzene	ND (9.3)		8270D		1	05/17/22 11:00	D2E0257	DE21607
N-Nitroso-Di-n-Propylamine	ND (9.3)		8270D		1	05/17/22 11:00	D2E0257	DE21607
N-nitrosodiphenylamine	ND (9.3)		8270D		1	05/17/22 11:00	D2E0257	DE21607

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*67 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*76 %*		*15-110*
Surrogate: 2-Chlorophenol-d4	*65 %*		*15-110*
Surrogate: 2-Fluorobiphenyl	*73 %*		*30-130*
Surrogate: 2-Fluorophenol	*63 %*		*15-110*
Surrogate: Nitrobenzene-d5	*75 %*		*30-130*
Surrogate: Phenol-d6	*59 %*		*15-110*
Surrogate: p-Terphenyl-d14	*45 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY
Client Sample ID: MW-1
Date Sampled: 05/10/22 11:35
Percent Solids: N/A
Initial Volume: 1070
Final Volume: 1
Extraction Method: 3520C

ESS Laboratory Work Order: 22E0396
ESS Laboratory Sample ID: 22E0396-01
Sample Matrix: Ground Water
Units: ug/L
Analyst: TAJ
Prepared: 5/16/22 12:55

8270D(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	ND (0.75)		8270D SIM		1	05/18/22 4:18	D2E0311	DE21607
Acenaphthene	ND (0.75)		8270D SIM		1	05/18/22 4:18	D2E0311	DE21607
Acenaphthylene	ND (0.75)		8270D SIM		1	05/18/22 4:18	D2E0311	DE21607
Anthracene	ND (0.75)		8270D SIM		1	05/18/22 4:18	D2E0311	DE21607
Benzo(a)anthracene	ND (0.19)		8270D SIM		1	05/18/22 4:18	D2E0311	DE21607
Benzo(a)pyrene	ND (0.19)		8270D SIM		1	05/18/22 4:18	D2E0311	DE21607
Benzo(b)fluoranthene	ND (0.19)		8270D SIM		1	05/18/22 4:18	D2E0311	DE21607
Benzo(g,h,i)perylene	ND (0.75)		8270D SIM		1	05/18/22 4:18	D2E0311	DE21607
Benzo(k)fluoranthene	ND (0.19)		8270D SIM		1	05/18/22 4:18	D2E0311	DE21607
Chrysene	ND (0.19)		8270D SIM		1	05/18/22 4:18	D2E0311	DE21607
Dibenzo(a,h)Anthracene	ND (0.19)		8270D SIM		1	05/18/22 4:18	D2E0311	DE21607
Fluoranthene	ND (0.75)		8270D SIM		1	05/18/22 4:18	D2E0311	DE21607
Fluorene	ND (0.75)		8270D SIM		1	05/18/22 4:18	D2E0311	DE21607
Indeno(1,2,3-cd)Pyrene	ND (0.19)		8270D SIM		1	05/18/22 4:18	D2E0311	DE21607
Naphthalene	ND (0.75)		8270D SIM		1	05/18/22 4:18	D2E0311	DE21607
Phenanthrene	ND (0.75)		8270D SIM		1	05/18/22 4:18	D2E0311	DE21607
Pyrene	ND (0.75)		8270D SIM		1	05/18/22 4:18	D2E0311	DE21607

%Recovery	Qualifier	Limits

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY
Client Sample ID: TB
Date Sampled: 05/10/22 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 22E0396
ESS Laboratory Sample ID: 22E0396-02
Sample Matrix: Aqueous
Units: ug/L
Analyst: MD

8260C Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1-Trichloroethane	ND (1.0)	0.2	8260C		1	05/12/22 12:20	D2E0228	DE21224
1,1,2,2-Tetrachloroethane	ND (0.5)	0.1	8260C		1	05/12/22 12:20	D2E0228	DE21224
1,1,2-Trichloro-1,2,2-trifluoroethane	ND (1.0)	0.2	8260C		1	05/12/22 12:20	D2E0228	DE21224
1,1,2-Trichloroethane	ND (1.0)	0.2	8260C		1	05/12/22 12:20	D2E0228	DE21224
1,1-Dichloroethane	ND (1.0)	0.2	8260C		1	05/12/22 12:20	D2E0228	DE21224
1,1-Dichloroethene	ND (1.0)	0.3	8260C		1	05/12/22 12:20	D2E0228	DE21224
1,2,3-Trichlorobenzene	ND (1.0)	0.2	8260C		1	05/12/22 12:20	D2E0228	DE21224
1,2,4-Trichlorobenzene	ND (1.0)	0.2	8260C		1	05/12/22 12:20	D2E0228	DE21224
1,2-Dibromo-3-Chloropropane	ND (5.0)	1.0	8260C		1	05/12/22 12:20	D2E0228	DE21224
1,2-Dibromoethane	ND (1.0)	0.2	8260C		1	05/12/22 12:20	D2E0228	DE21224
1,2-Dichlorobenzene	ND (1.0)	0.1	8260C		1	05/12/22 12:20	D2E0228	DE21224
1,2-Dichloroethane	ND (1.0)	0.2	8260C		1	05/12/22 12:20	D2E0228	DE21224
1,2-Dichloropropane	ND (1.0)	0.2	8260C		1	05/12/22 12:20	D2E0228	DE21224
1,3-Dichlorobenzene	ND (1.0)	0.2	8260C		1	05/12/22 12:20	D2E0228	DE21224
1,4-Dichlorobenzene	ND (1.0)	0.1	8260C		1	05/12/22 12:20	D2E0228	DE21224
1,4-Dioxane - Screen	ND (500)	190	8260C		1	05/12/22 12:20	D2E0228	DE21224
2-Butanone	ND (10.0)	3.4	8260C		1	05/12/22 12:20	D2E0228	DE21224
2-Hexanone	ND (10.0)	1.5	8260C		1	05/12/22 12:20	D2E0228	DE21224
4-Methyl-2-Pentanone	ND (10.0)	1.6	8260C		1	05/12/22 12:20	D2E0228	DE21224
Acetone	ND (10.0)	2.7	8260C		1	05/12/22 12:20	D2E0228	DE21224
Benzene	ND (1.0)	0.1	8260C		1	05/12/22 12:20	D2E0228	DE21224
Bromochloromethane	ND (1.0)	0.3	8260C		1	05/12/22 12:20	D2E0228	DE21224
Bromodichloromethane	ND (0.6)	0.1	8260C		1	05/12/22 12:20	D2E0228	DE21224
Bromoform	ND (1.0)	0.2	8260C		1	05/12/22 12:20	D2E0228	DE21224
Bromomethane	ND (2.0)	0.4	8260C		1	05/12/22 12:20	D2E0228	DE21224
Carbon Disulfide	ND (1.0)	0.1	8260C		1	05/12/22 12:20	D2E0228	DE21224
Carbon Tetrachloride	ND (1.0)	0.1	8260C		1	05/12/22 12:20	D2E0228	DE21224
Chlorobenzene	ND (1.0)	0.1	8260C		1	05/12/22 12:20	D2E0228	DE21224
Chloroethane	ND (2.0)	0.4	8260C		1	05/12/22 12:20	D2E0228	DE21224
Chloroform	ND (1.0)	0.2	8260C		1	05/12/22 12:20	D2E0228	DE21224
Chloromethane	ND (2.0)	0.2	8260C		1	05/12/22 12:20	D2E0228	DE21224
cis-1,2-Dichloroethene	ND (1.0)	0.2	8260C		1	05/12/22 12:20	D2E0228	DE21224

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY
Client Sample ID: TB
Date Sampled: 05/10/22 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 22E0396
ESS Laboratory Sample ID: 22E0396-02
Sample Matrix: Aqueous
Units: ug/L
Analyst: MD

8260C Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
cis-1,3-Dichloropropene	ND (0.4)	0.2	8260C		1	05/12/22 12:20	D2E0228	DE21224
Cyclohexane	ND (5.0)	1.0	8260C		1	05/12/22 12:20	D2E0228	DE21224
Dibromochloromethane	ND (1.0)	0.2	8260C		1	05/12/22 12:20	D2E0228	DE21224
Dichlorodifluoromethane	ND (2.0)	0.3	8260C		1	05/12/22 12:20	D2E0228	DE21224
Ethylbenzene	ND (1.0)	0.1	8260C		1	05/12/22 12:20	D2E0228	DE21224
Isopropylbenzene	ND (1.0)	0.1	8260C		1	05/12/22 12:20	D2E0228	DE21224
Methyl acetate	ND (5.0)	1.4	8260C		1	05/12/22 12:20	D2E0228	DE21224
Methyl tert-Butyl Ether	ND (1.0)	0.3	8260C		1	05/12/22 12:20	D2E0228	DE21224
Methylcyclohexane	ND (1.0)	0.3	8260C		1	05/12/22 12:20	D2E0228	DE21224
Methylene Chloride	ND (2.0)	0.2	8260C		1	05/12/22 12:20	D2E0228	DE21224
Styrene	ND (1.0)	0.1	8260C		1	05/12/22 12:20	D2E0228	DE21224
Tetrachloroethene	ND (1.0)	0.2	8260C		1	05/12/22 12:20	D2E0228	DE21224
Toluene	ND (1.0)	0.1	8260C		1	05/12/22 12:20	D2E0228	DE21224
trans-1,2-Dichloroethene	ND (1.0)	0.3	8260C		1	05/12/22 12:20	D2E0228	DE21224
trans-1,3-Dichloropropene	ND (0.4)	0.2	8260C		1	05/12/22 12:20	D2E0228	DE21224
Trichloroethene	ND (1.0)	0.2	8260C		1	05/12/22 12:20	D2E0228	DE21224
Trichlorofluoromethane	ND (1.0)	0.4	8260C		1	05/12/22 12:20	D2E0228	DE21224
Vinyl Chloride	ND (1.0)	0.2	8260C		1	05/12/22 12:20	D2E0228	DE21224
Xylene O	ND (1.0)	0.1	8260C		1	05/12/22 12:20	D2E0228	DE21224
Xylene P,M	ND (2.0)	0.2	8260C		1	05/12/22 12:20	D2E0228	DE21224

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*102 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*97 %*		*70-130*
Surrogate: Dibromofluoromethane	*98 %*		*70-130*
Surrogate: Toluene-d8	*100 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY

ESS Laboratory Work Order: 22E0396

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260C Volatile Organic Compounds										
Batch DE21224 - 5030B										
Blank										
1,1,1-Trichloroethane	ND	1.0	ug/L							
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L							
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L							
1,1,2-Trichloroethane	ND	1.0	ug/L							
1,1-Dichloroethane	ND	1.0	ug/L							
1,1-Dichloroethene	ND	1.0	ug/L							
1,2,3-Trichlorobenzene	ND	1.0	ug/L							
1,2,4-Trichlorobenzene	ND	1.0	ug/L							
1,2-Dibromo-3-Chloropropane	ND	5.0	ug/L							
1,2-Dibromoethane	ND	1.0	ug/L							
1,2-Dichlorobenzene	ND	1.0	ug/L							
1,2-Dichloroethane	ND	1.0	ug/L							
1,2-Dichloropropane	ND	1.0	ug/L							
1,3-Dichlorobenzene	ND	1.0	ug/L							
1,4-Dichlorobenzene	ND	1.0	ug/L							
1,4-Dioxane - Screen	ND	500	ug/L							
2-Butanone	ND	10.0	ug/L							
2-Hexanone	ND	10.0	ug/L							
4-Methyl-2-Pentanone	ND	10.0	ug/L							
Acetone	ND	10.0	ug/L							
Benzene	ND	1.0	ug/L							
Bromochloromethane	ND	1.0	ug/L							
Bromodichloromethane	ND	0.6	ug/L							
Bromoform	ND	1.0	ug/L							
Bromomethane	ND	2.0	ug/L							
Carbon Disulfide	ND	1.0	ug/L							
Carbon Tetrachloride	ND	1.0	ug/L							
Chlorobenzene	ND	1.0	ug/L							
Chloroethane	ND	2.0	ug/L							
Chloroform	ND	1.0	ug/L							
Chloromethane	ND	2.0	ug/L							
cis-1,2-Dichloroethene	ND	1.0	ug/L							
cis-1,3-Dichloropropene	ND	0.4	ug/L							
Cyclohexane	ND	5.0	ug/L							
Dibromochloromethane	ND	1.0	ug/L							
Dichlorodifluoromethane	ND	2.0	ug/L							
Ethylbenzene	ND	1.0	ug/L							
Isopropylbenzene	ND	1.0	ug/L							
Methyl acetate	ND	5.0	ug/L							
Methyl tert-Butyl Ether	ND	1.0	ug/L							
Methylcyclohexane	ND	1.0	ug/L							
Methylene Chloride	ND	2.0	ug/L							
Styrene	ND	1.0	ug/L							
Tetrachloroethene	ND	1.0	ug/L							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY

ESS Laboratory Work Order: 22E0396

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260C Volatile Organic Compounds										
Batch DE21224 - 5030B										
Toluene	ND	1.0	ug/L							
trans-1,2-Dichloroethene	ND	1.0	ug/L							
trans-1,3-Dichloropropene	ND	0.4	ug/L							
Trichloroethene	ND	1.0	ug/L							
Trichlorofluoromethane	ND	1.0	ug/L							
Vinyl Chloride	ND	1.0	ug/L							
Xylene O	ND	1.0	ug/L							
Xylene P,M	ND	2.0	ug/L							
Surrogate: 1,2-Dichloroethane-d4	*25.5*		ug/L	*25.00*		*102*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*24.4*		ug/L	*25.00*		*97*	*70-130*			
Surrogate: Dibromofluoromethane	*24.6*		ug/L	*25.00*		*99*	*70-130*			
Surrogate: Toluene-d8	*25.0*		ug/L	*25.00*		*100*	*70-130*			
LCS										
1,1,1-Trichloroethane	9.3	1.0	ug/L	10.00		93	80-120			
1,1,2,2-Tetrachloroethane	9.7	0.5	ug/L	10.00		97	80-120			
1,1,2-Trichloro-1,2,2-trifluoroethane	10.5	1.0	ug/L	10.00		105	80-120			
1,1,2-Trichloroethane	9.3	1.0	ug/L	10.00		93	80-120			
1,1-Dichloroethane	9.9	1.0	ug/L	10.00		99	80-120			
1,1-Dichloroethene	9.8	1.0	ug/L	10.00		98	80-120			
1,2,3-Trichlorobenzene	10.0	1.0	ug/L	10.00		100	80-120			
1,2,4-Trichlorobenzene	10.3	1.0	ug/L	10.00		103	80-120			
1,2-Dibromo-3-Chloropropane	8.0	5.0	ug/L	10.00		80	80-120			
1,2-Dibromoethane	9.6	1.0	ug/L	10.00		96	80-120			
1,2-Dichlorobenzene	10.3	1.0	ug/L	10.00		103	80-120			
1,2-Dichloroethane	10.0	1.0	ug/L	10.00		100	80-120			
1,2-Dichloropropane	9.6	1.0	ug/L	10.00		96	80-120			
1,3-Dichlorobenzene	10.2	1.0	ug/L	10.00		102	80-120			
1,4-Dichlorobenzene	10.2	1.0	ug/L	10.00		102	80-120			
1,4-Dioxane - Screen	204	500	ug/L	200.0		102	0-332			J
2-Butanone	52.5	10.0	ug/L	50.00		105	80-120			
2-Hexanone	53.4	10.0	ug/L	50.00		107	80-120			
4-Methyl-2-Pentanone	49.2	10.0	ug/L	50.00		98	80-120			
Acetone	57.7	10.0	ug/L	50.00		115	80-120			
Benzene	9.8	1.0	ug/L	10.00		98	80-120			
Bromochloromethane	10.0	1.0	ug/L	10.00		100	80-120			
Bromodichloromethane	9.6	0.6	ug/L	10.00		96	80-120			
Bromoform	9.7	1.0	ug/L	10.00		97	80-120			
Bromomethane	9.6	2.0	ug/L	10.00		96	80-120			
Carbon Disulfide	9.8	1.0	ug/L	10.00		98	80-120			
Carbon Tetrachloride	10.0	1.0	ug/L	10.00		100	80-120			
Chlorobenzene	9.9	1.0	ug/L	10.00		99	80-120			
Chloroethane	10.2	2.0	ug/L	10.00		102	80-120			
Chloroform	9.8	1.0	ug/L	10.00		98	80-120			
Chloromethane	9.0	2.0	ug/L	10.00		90	80-120			
cis-1,2-Dichloroethene	9.4	1.0	ug/L	10.00		94	80-120			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY

ESS Laboratory Work Order: 22E0396

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260C Volatile Organic Compounds										
Batch DE21224 - 5030B										
cis-1,3-Dichloropropene	9.8	0.4	ug/L	10.00		98	80-120			
Cyclohexane	9.8	5.0	ug/L	10.00		98	80-120			
Dibromochloromethane	10.1	1.0	ug/L	10.00		101	80-120			
Dichlorodifluoromethane	9.4	2.0	ug/L	10.00		94	80-120			
Ethylbenzene	9.7	1.0	ug/L	10.00		97	80-120			
Isopropylbenzene	10.0	1.0	ug/L	10.00		100	80-120			
Methyl acetate	9.2	5.0	ug/L	10.00		92	80-120			
Methyl tert-Butyl Ether	10.1	1.0	ug/L	10.00		101	80-120			
Methylcyclohexane	9.9	1.0	ug/L	10.00		99	80-120			
Methylene Chloride	9.8	2.0	ug/L	10.00		98	80-120			
Styrene	9.9	1.0	ug/L	10.00		99	80-120			
Tetrachloroethene	8.9	1.0	ug/L	10.00		89	80-120			
Toluene	9.7	1.0	ug/L	10.00		97	80-120			
trans-1,2-Dichloroethene	11.4	1.0	ug/L	10.00		114	80-120			
trans-1,3-Dichloropropene	9.4	0.4	ug/L	10.00		94	80-120			
Trichloroethene	9.3	1.0	ug/L	10.00		93	80-120			
Trichlorofluoromethane	9.6	1.0	ug/L	10.00		96	80-120			
Vinyl Chloride	10.3	1.0	ug/L	10.00		103	80-120			
Xylene O	9.8	1.0	ug/L	10.00		98	80-120			
Xylene P,M	19.9	2.0	ug/L	20.00		99	80-120			
Surrogate: 1,2-Dichloroethane-d4	*25.7*		ug/L	*25.00*		*103*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*24.4*		ug/L	*25.00*		*98*	*70-130*			
Surrogate: Dibromofluoromethane	*24.9*		ug/L	*25.00*		*100*	*70-130*			
Surrogate: Toluene-d8	*24.5*		ug/L	*25.00*		*98*	*70-130*			
LCS Dup										
1,1,1-Trichloroethane	9.8	1.0	ug/L	10.00		98	80-120	5	25	
1,1,2,2-Tetrachloroethane	9.7	0.5	ug/L	10.00		97	80-120	0.5	25	
1,1,2-Trichloro-1,2,2-trifluoroethane	9.9	1.0	ug/L	10.00		99	80-120	6	25	
1,1,2-Trichloroethane	9.6	1.0	ug/L	10.00		96	80-120	3	25	
1,1-Dichloroethane	9.6	1.0	ug/L	10.00		96	80-120	3	25	
1,1-Dichloroethene	10.2	1.0	ug/L	10.00		102	80-120	4	25	
1,2,3-Trichlorobenzene	9.9	1.0	ug/L	10.00		99	80-120	1	25	
1,2,4-Trichlorobenzene	10.3	1.0	ug/L	10.00		103	80-120	0	25	
1,2-Dibromo-3-Chloropropane	8.0	5.0	ug/L	10.00		80	80-120	0.6	25	
1,2-Dibromoethane	9.6	1.0	ug/L	10.00		96	80-120	0.3	25	
1,2-Dichlorobenzene	10.2	1.0	ug/L	10.00		102	80-120	0.8	25	
1,2-Dichloroethane	9.7	1.0	ug/L	10.00		97	80-120	3	25	
1,2-Dichloropropane	9.7	1.0	ug/L	10.00		97	80-120	1	25	
1,3-Dichlorobenzene	10.2	1.0	ug/L	10.00		102	80-120	0.3	25	
1,4-Dichlorobenzene	10.4	1.0	ug/L	10.00		104	80-120	1	25	
1,4-Dioxane - Screen	ND	500	ug/L	200.0		0	0-332	200	200	
2-Butanone	52.1	10.0	ug/L	50.00		104	80-120	0.7	25	
2-Hexanone	52.8	10.0	ug/L	50.00		106	80-120	1	25	
4-Methyl-2-Pentanone	48.6	10.0	ug/L	50.00		97	80-120	1	25	
Acetone	56.2	10.0	ug/L	50.00		112	80-120	2	25	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY

ESS Laboratory Work Order: 22E0396

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260C Volatile Organic Compounds										
Batch DE21224 - 5030B										
Benzene	10.1	1.0	ug/L	10.00		101	80-120	3	25	
Bromochloromethane	9.9	1.0	ug/L	10.00		99	80-120	1	25	
Bromodichloromethane	9.8	0.6	ug/L	10.00		98	80-120	2	25	
Bromoform	9.4	1.0	ug/L	10.00		94	80-120	3	25	
Bromomethane	9.8	2.0	ug/L	10.00		98	80-120	1	25	
Carbon Disulfide	10.3	1.0	ug/L	10.00		103	80-120	4	25	
Carbon Tetrachloride	10.3	1.0	ug/L	10.00		103	80-120	3	25	
Chlorobenzene	10.1	1.0	ug/L	10.00		101	80-120	3	25	
Chloroethane	10.7	2.0	ug/L	10.00		107	80-120	5	25	
Chloroform	10.4	1.0	ug/L	10.00		104	80-120	5	25	
Chloromethane	9.3	2.0	ug/L	10.00		93	80-120	3	25	
cis-1,2-Dichloroethene	10.3	1.0	ug/L	10.00		103	80-120	9	25	
cis-1,3-Dichloropropene	10.0	0.4	ug/L	10.00		100	80-120	2	25	
Cyclohexane	10.1	5.0	ug/L	10.00		101	80-120	3	25	
Dibromochloromethane	10.2	1.0	ug/L	10.00		102	80-120	1	25	
Dichlorodifluoromethane	9.4	2.0	ug/L	10.00		94	80-120	0.1	25	
Ethylbenzene	10.0	1.0	ug/L	10.00		100	80-120	3	25	
Isopropylbenzene	10.2	1.0	ug/L	10.00		102	80-120	2	25	
Methyl acetate	8.1	5.0	ug/L	10.00		81	80-120	12	25	
Methyl tert-Butyl Ether	10.2	1.0	ug/L	10.00		102	80-120	0.6	25	
Methylcyclohexane	10.1	1.0	ug/L	10.00		101	80-120	2	25	
Methylene Chloride	10.1	2.0	ug/L	10.00		101	80-120	2	25	
Styrene	10.2	1.0	ug/L	10.00		102	80-120	3	25	
Tetrachloroethene	9.8	1.0	ug/L	10.00		98	80-120	10	25	
Toluene	10.0	1.0	ug/L	10.00		100	80-120	3	25	
trans-1,2-Dichloroethene	10.7	1.0	ug/L	10.00		107	80-120	6	25	
trans-1,3-Dichloropropene	9.4	0.4	ug/L	10.00		94	80-120	0.4	25	
Trichloroethene	9.6	1.0	ug/L	10.00		96	80-120	3	25	
Trichlorofluoromethane	10.8	1.0	ug/L	10.00		108	80-120	11	25	
Vinyl Chloride	10.7	1.0	ug/L	10.00		107	80-120	4	25	
Xylene O	10.2	1.0	ug/L	10.00		102	80-120	4	25	
Xylene P,M	20.7	2.0	ug/L	20.00		103	80-120	4	25	
Surrogate: 1,2-Dichloroethane-d4	*25.9*		ug/L	*25.00*		*104*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*25.1*		ug/L	*25.00*		*100*	*70-130*			
Surrogate: Dibromofluoromethane	*25.2*		ug/L	*25.00*		*101*	*70-130*			
Surrogate: Toluene-d8	*24.9*		ug/L	*25.00*		*100*	*70-130*			
Batch DE21243 - 5030B										
Blank										
1,1,1-Trichloroethane	ND	1.0	ug/L							
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L							
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L							
1,1,2-Trichloroethane	ND	1.0	ug/L							
1,1-Dichloroethane	ND	1.0	ug/L							
1,1-Dichloroethene	ND	1.0	ug/L							
1,2,3-Trichlorobenzene	ND	1.0	ug/L							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY

ESS Laboratory Work Order: 22E0396

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260C Volatile Organic Compounds										
Batch DE21243 - 5030B										
1,2,4-Trichlorobenzene	ND	1.0	ug/L							
1,2-Dibromo-3-Chloropropane	ND	5.0	ug/L							
1,2-Dibromoethane	ND	1.0	ug/L							
1,2-Dichlorobenzene	ND	1.0	ug/L							
1,2-Dichloroethane	ND	1.0	ug/L							
1,2-Dichloropropane	ND	1.0	ug/L							
1,3-Dichlorobenzene	ND	1.0	ug/L							
1,4-Dichlorobenzene	ND	1.0	ug/L							
1,4-Dioxane - Screen	ND	500	ug/L							
2-Butanone	ND	10.0	ug/L							
2-Hexanone	ND	10.0	ug/L							
4-Methyl-2-Pentanone	ND	10.0	ug/L							
Acetone	ND	10.0	ug/L							
Benzene	ND	1.0	ug/L							
Bromochloromethane	ND	1.0	ug/L							
Bromodichloromethane	ND	0.6	ug/L							
Bromoform	ND	1.0	ug/L							
Bromomethane	ND	2.0	ug/L							
Carbon Disulfide	ND	1.0	ug/L							
Carbon Tetrachloride	ND	1.0	ug/L							
Chlorobenzene	ND	1.0	ug/L							
Chloroethane	ND	2.0	ug/L							
Chloroform	ND	1.0	ug/L							
Chloromethane	ND	2.0	ug/L							
cis-1,2-Dichloroethene	ND	1.0	ug/L							
cis-1,3-Dichloropropene	ND	0.4	ug/L							
Cyclohexane	ND	5.0	ug/L							
Dibromochloromethane	ND	1.0	ug/L							
Dichlorodifluoromethane	ND	2.0	ug/L							
Ethylbenzene	ND	1.0	ug/L							
Isopropylbenzene	ND	1.0	ug/L							
Methyl acetate	ND	5.0	ug/L							
Methyl tert-Butyl Ether	ND	1.0	ug/L							
Methylcyclohexane	ND	1.0	ug/L							
Methylene Chloride	ND	2.0	ug/L							
Styrene	ND	1.0	ug/L							
Tetrachloroethene	ND	1.0	ug/L							
Toluene	ND	1.0	ug/L							
trans-1,2-Dichloroethene	ND	1.0	ug/L							
trans-1,3-Dichloropropene	ND	0.4	ug/L							
Trichloroethene	ND	1.0	ug/L							
Trichlorofluoromethane	ND	1.0	ug/L							
Vinyl Chloride	ND	1.0	ug/L							
Xylene O	ND	1.0	ug/L							
Xylene P,M	ND	2.0	ug/L							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY

ESS Laboratory Work Order: 22E0396

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260C Volatile Organic Compounds										
Batch DE21243 - 5030B										
Surrogate: 1,2-Dichloroethane-d4	*22.3*		ug/L	*25.00*		*89*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*25.3*		ug/L	*25.00*		*101*	*70-130*			
Surrogate: Dibromofluoromethane	*23.7*		ug/L	*25.00*		*95*	*70-130*			
Surrogate: Toluene-d8	*26.1*		ug/L	*25.00*		*104*	*70-130*			
LCS										
1,1,1-Trichloroethane	8.8	1.0	ug/L	10.00		88	80-120			
1,1,2,2-Tetrachloroethane	10.0	0.5	ug/L	10.00		100	80-120			
1,1,2-Trichloro-1,2,2-trifluoroethane	9.7	1.0	ug/L	10.00		97	80-120			
1,1,2-Trichloroethane	9.1	1.0	ug/L	10.00		91	80-120			
1,1-Dichloroethane	9.2	1.0	ug/L	10.00		92	80-120			
1,1-Dichloroethene	9.5	1.0	ug/L	10.00		95	80-120			
1,2,3-Trichlorobenzene	11.8	1.0	ug/L	10.00		118	80-120			
1,2,4-Trichlorobenzene	12.2	1.0	ug/L	10.00		122	80-120			B+
1,2-Dibromo-3-Chloropropane	8.9	5.0	ug/L	10.00		89	80-120			
1,2-Dibromoethane	10.0	1.0	ug/L	10.00		100	80-120			
1,2-Dichlorobenzene	11.3	1.0	ug/L	10.00		113	80-120			
1,2-Dichloroethane	8.8	1.0	ug/L	10.00		88	80-120			
1,2-Dichloropropane	8.6	1.0	ug/L	10.00		86	80-120			
1,3-Dichlorobenzene	11.0	1.0	ug/L	10.00		110	80-120			
1,4-Dichlorobenzene	11.0	1.0	ug/L	10.00		110	80-120			
1,4-Dioxane - Screen	384	500	ug/L	200.0		192	0-332			J
2-Butanone	49.2	10.0	ug/L	50.00		98	80-120			
2-Hexanone	54.6	10.0	ug/L	50.00		109	80-120			
4-Methyl-2-Pentanone	43.2	10.0	ug/L	50.00		86	80-120			
Acetone	60.2	10.0	ug/L	50.00		120	80-120			
Benzene	8.9	1.0	ug/L	10.00		89	80-120			
Bromochloromethane	9.4	1.0	ug/L	10.00		94	80-120			
Bromodichloromethane	9.7	0.6	ug/L	10.00		97	80-120			
Bromoform	10.2	1.0	ug/L	10.00		102	80-120			
Bromomethane	8.6	2.0	ug/L	10.00		86	80-120			
Carbon Disulfide	9.5	1.0	ug/L	10.00		95	80-120			
Carbon Tetrachloride	9.1	1.0	ug/L	10.00		91	80-120			
Chlorobenzene	10.8	1.0	ug/L	10.00		108	80-120			
Chloroethane	9.2	2.0	ug/L	10.00		92	80-120			
Chloroform	8.9	1.0	ug/L	10.00		89	80-120			
Chloromethane	8.0	2.0	ug/L	10.00		80	80-120			
cis-1,2-Dichloroethene	9.5	1.0	ug/L	10.00		95	80-120			
cis-1,3-Dichloropropene	9.3	0.4	ug/L	10.00		93	80-120			
Cyclohexane	9.2	5.0	ug/L	10.00		92	80-120			
Dibromochloromethane	10.8	1.0	ug/L	10.00		108	80-120			
Dichlorodifluoromethane	7.7	2.0	ug/L	10.00		77	80-120			B-
Ethylbenzene	10.9	1.0	ug/L	10.00		109	80-120			
Isopropylbenzene	10.7	1.0	ug/L	10.00		107	80-120			
Methyl acetate	7.5	5.0	ug/L	10.00		75	80-120			B-

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY

ESS Laboratory Work Order: 22E0396

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260C Volatile Organic Compounds										
Batch DE21243 - 5030B										
Methyl tert-Butyl Ether	9.4	1.0	ug/L	10.00		94	80-120			
Methylcyclohexane	9.5	1.0	ug/L	10.00		95	80-120			
Methylene Chloride	8.9	2.0	ug/L	10.00		89	80-120			
Styrene	10.6	1.0	ug/L	10.00		106	80-120			
Tetrachloroethene	11.2	1.0	ug/L	10.00		112	80-120			
Toluene	9.2	1.0	ug/L	10.00		92	80-120			
trans-1,2-Dichloroethene	9.6	1.0	ug/L	10.00		96	80-120			
trans-1,3-Dichloropropene	8.7	0.4	ug/L	10.00		87	80-120			
Trichloroethene	9.1	1.0	ug/L	10.00		91	80-120			
Trichlorofluoromethane	9.2	1.0	ug/L	10.00		92	80-120			
Vinyl Chloride	8.4	1.0	ug/L	10.00		84	80-120			
Xylene O	11.0	1.0	ug/L	10.00		110	80-120			
Xylene P,M	22.1	2.0	ug/L	20.00		111	80-120			
Surrogate: 1,2-Dichloroethane-d4	*22.7*		ug/L	*25.00*		*91*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*25.9*		ug/L	*25.00*		*104*	*70-130*			
Surrogate: Dibromofluoromethane	*24.0*		ug/L	*25.00*		*96*	*70-130*			
Surrogate: Toluene-d8	*26.5*		ug/L	*25.00*		*106*	*70-130*			
LCS Dup										
1,1,1-Trichloroethane	9.5	1.0	ug/L	10.00		95	80-120	7	25	
1,1,2,2-Tetrachloroethane	10.1	0.5	ug/L	10.00		101	80-120	0.5	25	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	1.0	ug/L	10.00		100	80-120	4	25	
1,1,2-Trichloroethane	9.5	1.0	ug/L	10.00		95	80-120	3	25	
1,1-Dichloroethane	9.4	1.0	ug/L	10.00		94	80-120	3	25	
1,1-Dichloroethene	9.8	1.0	ug/L	10.00		98	80-120	3	25	
1,2,3-Trichlorobenzene	11.3	1.0	ug/L	10.00		113	80-120	5	25	
1,2,4-Trichlorobenzene	11.7	1.0	ug/L	10.00		117	80-120	4	25	
1,2-Dibromo-3-Chloropropane	9.4	5.0	ug/L	10.00		94	80-120	5	25	
1,2-Dibromoethane	10.6	1.0	ug/L	10.00		106	80-120	6	25	
1,2-Dichlorobenzene	11.8	1.0	ug/L	10.00		118	80-120	4	25	
1,2-Dichloroethane	8.9	1.0	ug/L	10.00		89	80-120	0.2	25	
1,2-Dichloropropane	9.1	1.0	ug/L	10.00		91	80-120	6	25	
1,3-Dichlorobenzene	11.4	1.0	ug/L	10.00		114	80-120	3	25	
1,4-Dichlorobenzene	11.1	1.0	ug/L	10.00		111	80-120	0.4	25	
1,4-Dioxane - Screen	305	500	ug/L	200.0		152	0-332	23	200	J
2-Butanone	51.1	10.0	ug/L	50.00		102	80-120	4	25	
2-Hexanone	56.1	10.0	ug/L	50.00		112	80-120	3	25	
4-Methyl-2-Pentanone	46.8	10.0	ug/L	50.00		94	80-120	8	25	
Acetone	60.7	10.0	ug/L	50.00		121	80-120	0.9	25	B+
Benzene	9.6	1.0	ug/L	10.00		96	80-120	7	25	
Bromochloromethane	10.0	1.0	ug/L	10.00		100	80-120	7	25	
Bromodichloromethane	10.0	0.6	ug/L	10.00		100	80-120	3	25	
Bromoform	11.0	1.0	ug/L	10.00		110	80-120	8	25	
Bromomethane	9.0	2.0	ug/L	10.00		90	80-120	4	25	
Carbon Disulfide	9.8	1.0	ug/L	10.00		98	80-120	3	25	
Carbon Tetrachloride	9.5	1.0	ug/L	10.00		95	80-120	4	25	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY

ESS Laboratory Work Order: 22E0396

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260C Volatile Organic Compounds										
Batch DE21243 - 5030B										
Chlorobenzene	11.2	1.0	ug/L	10.00		112	80-120	3	25	
Chloroethane	9.8	2.0	ug/L	10.00		98	80-120	6	25	
Chloroform	9.5	1.0	ug/L	10.00		95	80-120	6	25	
Chloromethane	8.0	2.0	ug/L	10.00		80	80-120	0.6	25	
cis-1,2-Dichloroethene	10.1	1.0	ug/L	10.00		101	80-120	6	25	
cis-1,3-Dichloropropene	10.0	0.4	ug/L	10.00		100	80-120	7	25	
Cyclohexane	9.8	5.0	ug/L	10.00		98	80-120	6	25	
Dibromochloromethane	11.2	1.0	ug/L	10.00		112	80-120	4	25	
Dichlorodifluoromethane	7.9	2.0	ug/L	10.00		79	80-120	2	25	B+
Ethylbenzene	10.9	1.0	ug/L	10.00		109	80-120	0.4	25	
Isopropylbenzene	11.2	1.0	ug/L	10.00		112	80-120	4	25	
Methyl acetate	7.7	5.0	ug/L	10.00		77	80-120	3	25	B+
Methyl tert-Butyl Ether	10.0	1.0	ug/L	10.00		100	80-120	6	25	
Methylcyclohexane	10.4	1.0	ug/L	10.00		104	80-120	8	25	
Methylene Chloride	9.4	2.0	ug/L	10.00		94	80-120	5	25	
Styrene	10.9	1.0	ug/L	10.00		109	80-120	3	25	
Tetrachloroethene	11.8	1.0	ug/L	10.00		118	80-120	6	25	
Toluene	10.2	1.0	ug/L	10.00		102	80-120	10	25	
trans-1,2-Dichloroethene	10.1	1.0	ug/L	10.00		101	80-120	5	25	
trans-1,3-Dichloropropene	8.9	0.4	ug/L	10.00		89	80-120	3	25	
Trichloroethene	9.4	1.0	ug/L	10.00		94	80-120	3	25	
Trichlorofluoromethane	9.6	1.0	ug/L	10.00		96	80-120	5	25	
Vinyl Chloride	9.1	1.0	ug/L	10.00		91	80-120	8	25	
Xylene O	10.9	1.0	ug/L	10.00		109	80-120	1	25	
Xylene P,M	22.9	2.0	ug/L	20.00		115	80-120	4	25	
Surrogate: 1,2-Dichloroethane-d4	*22.7*		ug/L	*25.00*		*91*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*25.8*		ug/L	*25.00*		*103*	*70-130*			
Surrogate: Dibromofluoromethane	*24.3*		ug/L	*25.00*		*97*	*70-130*			
Surrogate: Toluene-d8	*27.1*		ug/L	*25.00*		*108*	*70-130*			
8270D Semi-Volatile Organic Compounds										
Batch DE21607 - 3520C										
Blank										
1,1-Biphenyl	ND	10.0	ug/L							
1,2,4,5-Tetrachlorobenzene	ND	10.0	ug/L							
2,4-Dinitrotoluene	ND	10.0	ug/L							
2,6-Dinitrotoluene	ND	10.0	ug/L							
2-Chloronaphthalene	ND	10.0	ug/L							
2-Nitroaniline	ND	10.0	ug/L							
3,3´-Dichlorobenzidine	ND	20.0	ug/L							
3-Nitroaniline	ND	10.0	ug/L							
4-Bromophenyl-phenylether	ND	10.0	ug/L							
4-Chloroaniline	ND	20.0	ug/L							
4-Chloro-phenyl-phenyl ether	ND	10.0	ug/L							
4-Nitroaniline	ND	10.0	ug/L							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY

ESS Laboratory Work Order: 22E0396

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch DE21607 - 3520C										
Acetophenone	ND	10.0	ug/L							
Atrazine	ND	10.0	ug/L							
Benzaldehyde	ND	10.0	ug/L							
bis(2-Chloroethoxy)methane	ND	10.0	ug/L							
bis(2-Chloroethyl)ether	ND	10.0	ug/L							
bis(2-chloroisopropyl)Ether	ND	10.0	ug/L							
bis(2-Ethylhexyl)phthalate	ND	6.0	ug/L							
Butylbenzylphthalate	ND	10.0	ug/L							
Caprolactam	ND	10.0	ug/L							
Carbazole	ND	10.0	ug/L							
Dibenzofuran	ND	10.0	ug/L							
Diethylphthalate	ND	10.0	ug/L							
Dimethylphthalate	ND	10.0	ug/L							
Di-n-butylphthalate	ND	10.0	ug/L							
Di-n-octylphthalate	ND	10.0	ug/L							
Hexachlorobenzene	ND	10.0	ug/L							
Hexachlorobutadiene	ND	10.0	ug/L							
Hexachlorocyclopentadiene	ND	25.0	ug/L							
Hexachloroethane	ND	5.0	ug/L							
Isophorone	ND	10.0	ug/L							
Nitrobenzene	ND	10.0	ug/L							
N-Nitroso-Di-n-Propylamine	ND	10.0	ug/L							
N-nitrosodiphenylamine	ND	10.0	ug/L							
Surrogate: 1,2-Dichlorobenzene-d4	*61.2*		ug/L	*100.0*		*61*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*109*		ug/L	*150.0*		*73*	*15-110*			
Surrogate: 2-Chlorophenol-d4	*99.3*		ug/L	*150.0*		*66*	*15-110*			
Surrogate: 2-Fluorobiphenyl	*68.4*		ug/L	*100.0*		*68*	*30-130*			
Surrogate: 2-Fluorophenol	*101*		ug/L	*150.0*		*67*	*15-110*			
Surrogate: Nitrobenzene-d5	*66.6*		ug/L	*100.0*		*67*	*30-130*			
Surrogate: Phenol-d6	*96.4*		ug/L	*150.0*		*64*	*15-110*			
Surrogate: p-Terphenyl-d14	*75.9*		ug/L	*100.0*		*76*	*30-130*			
LCS										
1,1-Biphenyl	83.2	10.0	ug/L	100.0		83	40-140			
1,2,4,5-Tetrachlorobenzene	83.1	10.0	ug/L	100.0		83	40-140			
2,4-Dinitrotoluene	85.9	10.0	ug/L	100.0		86	40-140			
2,6-Dinitrotoluene	87.2	10.0	ug/L	100.0		87	40-140			
2-Chloronaphthalene	84.1	10.0	ug/L	100.0		84	40-140			
2-Nitroaniline	92.7	10.0	ug/L	100.0		93	40-140			
3,3´-Dichlorobenzidine	80.5	20.0	ug/L	100.0		81	40-140			
3-Nitroaniline	83.3	10.0	ug/L	100.0		83	40-140			
4-Bromophenyl-phenylether	99.1	10.0	ug/L	100.0		99	40-140			
4-Chloroaniline	68.8	20.0	ug/L	100.0		69	40-140			
4-Chloro-phenyl-phenyl ether	86.4	10.0	ug/L	100.0		86	40-140			
4-Nitroaniline	90.5	10.0	ug/L	100.0		90	40-140			
Acetophenone	84.1	10.0	ug/L	100.0		84	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY

ESS Laboratory Work Order: 22E0396

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch DE21607 - 3520C										
Atrazine	59.8	10.0	ug/L	100.0		60	40-140			
Benzaldehyde	83.5	10.0	ug/L	100.0		84	40-140			
bis(2-Chloroethoxy)methane	85.4	10.0	ug/L	100.0		85	40-140			
bis(2-Chloroethyl)ether	81.2	10.0	ug/L	100.0		81	40-140			
bis(2-chloroisopropyl)Ether	81.4	10.0	ug/L	100.0		81	40-140			
bis(2-Ethylhexyl)phthalate	85.6	6.0	ug/L	100.0		86	40-140			
Butylbenzylphthalate	84.8	10.0	ug/L	100.0		85	40-140			
Caprolactam	74.5	10.0	ug/L	100.0		74	40-140			
Carbazole	83.6	10.0	ug/L	100.0		84	40-140			
Dibenzofuran	83.5	10.0	ug/L	100.0		84	40-140			
Diethylphthalate	88.7	10.0	ug/L	100.0		89	40-140			
Dimethylphthalate	87.3	10.0	ug/L	100.0		87	40-140			
Di-n-butylphthalate	94.7	10.0	ug/L	100.0		95	40-140			
Di-n-octylphthalate	82.4	10.0	ug/L	100.0		82	40-140			
Hexachlorobenzene	91.8	10.0	ug/L	100.0		92	40-140			
Hexachlorobutadiene	78.4	10.0	ug/L	100.0		78	40-140			
Hexachlorocyclopentadiene	84.5	25.0	ug/L	100.0		85	40-140			
Hexachloroethane	73.5	5.0	ug/L	100.0		74	40-140			
Isophorone	83.8	10.0	ug/L	100.0		84	40-140			
Nitrobenzene	81.8	10.0	ug/L	100.0		82	40-140			
N-Nitroso-Di-n-Propylamine	88.5	10.0	ug/L	100.0		89	40-140			
N-nitrosodiphenylamine	94.1	10.0	ug/L	100.0		94	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*76.4*		ug/L	*100.0*		*76*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*157*		ug/L	*150.0*		*105*	*15-110*			
Surrogate: 2-Chlorophenol-d4	*125*		ug/L	*150.0*		*84*	*15-110*			
Surrogate: 2-Fluorobiphenyl	*89.6*		ug/L	*100.0*		*90*	*30-130*			
Surrogate: 2-Fluorophenol	*125*		ug/L	*150.0*		*83*	*15-110*			
Surrogate: Nitrobenzene-d5	*85.6*		ug/L	*100.0*		*86*	*30-130*			
Surrogate: Phenol-d6	*125*		ug/L	*150.0*		*83*	*15-110*			
Surrogate: p-Terphenyl-d14	*91.5*		ug/L	*100.0*		*91*	*30-130*			
LCS Dup										
1,1-Biphenyl	85.7	10.0	ug/L	100.0		86	40-140	3	20	
1,2,4,5-Tetrachlorobenzene	86.7	10.0	ug/L	100.0		87	40-140	4	20	
2,4-Dinitrotoluene	89.3	10.0	ug/L	100.0		89	40-140	4	20	
2,6-Dinitrotoluene	89.3	10.0	ug/L	100.0		89	40-140	2	20	
2-Chloronaphthalene	87.0	10.0	ug/L	100.0		87	40-140	3	20	
2-Nitroaniline	96.9	10.0	ug/L	100.0		97	40-140	4	20	
3,3´-Dichlorobenzidine	81.5	20.0	ug/L	100.0		81	40-140	1	20	
3-Nitroaniline	83.7	10.0	ug/L	100.0		84	40-140	0.5	20	
4-Bromophenyl-phenylether	104	10.0	ug/L	100.0		104	40-140	5	20	
4-Chloroaniline	69.9	20.0	ug/L	100.0		70	40-140	2	20	
4-Chloro-phenyl-phenyl ether	88.1	10.0	ug/L	100.0		88	40-140	2	20	
4-Nitroaniline	91.1	10.0	ug/L	100.0		91	40-140	0.7	20	
Acetophenone	90.4	10.0	ug/L	100.0		90	40-140	7	20	
Atrazine	61.7	10.0	ug/L	100.0		62	40-140	3	20	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY

ESS Laboratory Work Order: 22E0396

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch DE21607 - 3520C										
Benzaldehyde	92.1	10.0	ug/L	100.0		92	40-140	10	20	
bis(2-Chloroethoxy)methane	90.6	10.0	ug/L	100.0		91	40-140	6	20	
bis(2-Chloroethyl)ether	85.4	10.0	ug/L	100.0		85	40-140	5	20	
bis(2-chloroisopropyl)Ether	87.3	10.0	ug/L	100.0		87	40-140	7	20	
bis(2-Ethylhexyl)phthalate	90.1	6.0	ug/L	100.0		90	40-140	5	20	
Butylbenzylphthalate	89.0	10.0	ug/L	100.0		89	40-140	5	20	
Caprolactam	78.6	10.0	ug/L	100.0		79	40-140	5	20	
Carbazole	84.0	10.0	ug/L	100.0		84	40-140	0.6	20	
Dibenzofuran	86.2	10.0	ug/L	100.0		86	40-140	3	20	
Diethylphthalate	90.5	10.0	ug/L	100.0		91	40-140	2	20	
Dimethylphthalate	89.1	10.0	ug/L	100.0		89	40-140	2	20	
Di-n-butylphthalate	95.4	10.0	ug/L	100.0		95	40-140	0.8	20	
Di-n-octylphthalate	85.6	10.0	ug/L	100.0		86	40-140	4	20	
Hexachlorobenzene	94.9	10.0	ug/L	100.0		95	40-140	3	20	
Hexachlorobutadiene	81.2	10.0	ug/L	100.0		81	40-140	4	20	
Hexachlorocyclopentadiene	88.8	25.0	ug/L	100.0		89	40-140	5	20	
Hexachloroethane	76.3	5.0	ug/L	100.0		76	40-140	4	20	
Isophorone	88.3	10.0	ug/L	100.0		88	40-140	5	20	
Nitrobenzene	86.5	10.0	ug/L	100.0		87	40-140	6	20	
N-Nitroso-Di-n-Propylamine	96.2	10.0	ug/L	100.0		96	40-140	8	20	
N-nitrosodiphenylamine	97.5	10.0	ug/L	100.0		97	40-140	3	20	
Surrogate: 1,2-Dichlorobenzene-d4	*79.2*		ug/L	*100.0*		*79*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*161*		ug/L	*150.0*		*107*	*15-110*			
Surrogate: 2-Chlorophenol-d4	*131*		ug/L	*150.0*		*87*	*15-110*			
Surrogate: 2-Fluorobiphenyl	*92.1*		ug/L	*100.0*		*92*	*30-130*			
Surrogate: 2-Fluorophenol	*129*		ug/L	*150.0*		*86*	*15-110*			
Surrogate: Nitrobenzene-d5	*88.3*		ug/L	*100.0*		*88*	*30-130*			
Surrogate: Phenol-d6	*130*		ug/L	*150.0*		*87*	*15-110*			
Surrogate: p-Terphenyl-d14	*96.3*		ug/L	*100.0*		*96*	*30-130*			
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch DE21607 - 3520C										
Blank										
2-Methylnaphthalene	ND	0.80	ug/L							
Acenaphthene	ND	0.80	ug/L							
Acenaphthylene	ND	0.80	ug/L							
Anthracene	ND	0.80	ug/L							
Benzo(a)anthracene	ND	0.20	ug/L							
Benzo(a)pyrene	ND	0.20	ug/L							
Benzo(b)fluoranthene	ND	0.20	ug/L							
Benzo(g,h,i)perylene	ND	0.80	ug/L							
Benzo(k)fluoranthene	ND	0.20	ug/L							
Chrysene	ND	0.20	ug/L							
Dibenzo(a,h)Anthracene	ND	0.20	ug/L							
Fluoranthene	ND	0.80	ug/L							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY

ESS Laboratory Work Order: 22E0396

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch DE21607 - 3520C										
Fluorene	ND	0.80	ug/L							
Indeno(1,2,3-cd)Pyrene	ND	0.20	ug/L							
Naphthalene	ND	0.80	ug/L							
Phenanthrene	ND	0.80	ug/L							
Pyrene	ND	0.80	ug/L							
Surrogate: 1,2-Dichlorobenzene-d4	*240*		ug/L	*100.0*		*240*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*302*		ug/L	*150.0*		*202*	*15-110*			
Surrogate: 2-Fluorobiphenyl	*210*		ug/L	*100.0*		*210*	*30-130*			
Surrogate: Nitrobenzene-d5	*439*		ug/L	*100.0*		*439*	*30-130*			
Surrogate: p-Terphenyl-d14	*222*		ug/L	*100.0*		*222*	*30-130*			
Blank										
2-Methylnaphthalene	ND	0.80	ug/L							
Acenaphthene	ND	0.80	ug/L							
Acenaphthylene	ND	0.80	ug/L							
Anthracene	ND	0.80	ug/L							
Benzo(a)anthracene	ND	0.20	ug/L							
Benzo(a)pyrene	ND	0.20	ug/L							
Benzo(b)fluoranthene	ND	0.20	ug/L							
Benzo(g,h,i)perylene	ND	0.80	ug/L							
Benzo(k)fluoranthene	ND	0.20	ug/L							
Chrysene	ND	0.20	ug/L							
Dibenzo(a,h)Anthracene	ND	0.20	ug/L							
Fluoranthene	ND	0.80	ug/L							
Fluorene	ND	0.80	ug/L							
Indeno(1,2,3-cd)Pyrene	ND	0.20	ug/L							
Naphthalene	ND	0.80	ug/L							
Phenanthrene	ND	0.80	ug/L							
Pyrene	ND	0.80	ug/L							
Surrogate: 1,2-Dichlorobenzene-d4	*240*		ug/L	*100.0*		*240*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*302*		ug/L	*150.0*		*202*	*15-110*			
Surrogate: 2-Fluorobiphenyl	*210*		ug/L	*100.0*		*210*	*30-130*			
Surrogate: Nitrobenzene-d5	*439*		ug/L	*100.0*		*439*	*30-130*			
Surrogate: p-Terphenyl-d14	*222*		ug/L	*100.0*		*222*	*30-130*			
LCS										
2-Methylnaphthalene	75.4	4.00	ug/L	100.0		75	40-140			
Acenaphthene	83.6	4.00	ug/L	100.0		84	40-140			
Acenaphthylene	82.3	4.00	ug/L	100.0		82	40-140			
Anthracene	69.5	4.00	ug/L	100.0		69	40-140			
Benzo(a)anthracene	67.1	1.00	ug/L	100.0		67	40-140			
Benzo(a)pyrene	72.4	1.00	ug/L	100.0		72	40-140			
Benzo(b)fluoranthene	72.1	1.00	ug/L	100.0		72	40-140			
Benzo(g,h,i)perylene	74.2	4.00	ug/L	100.0		74	40-140			
Benzo(k)fluoranthene	74.5	1.00	ug/L	100.0		74	40-140			
Chrysene	72.6	1.00	ug/L	100.0		73	40-140			
Dibenzo(a,h)Anthracene	78.0	1.00	ug/L	100.0		78	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY

ESS Laboratory Work Order: 22E0396

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch DE21607 - 3520C										
Fluoranthene	75.7	4.00	ug/L	100.0		76	40-140			
Fluorene	78.1	4.00	ug/L	100.0		78	40-140			
Indeno(1,2,3-cd)Pyrene	75.9	1.00	ug/L	100.0		76	40-140			
Naphthalene	74.8	4.00	ug/L	100.0		75	40-140			
Phenanthrene	72.8	4.00	ug/L	100.0		73	40-140			
Pyrene	70.2	4.00	ug/L	100.0		70	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*76.9*		ug/L	*100.0*		*77*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*212*		ug/L	*150.0*		*141*	*15-110*			
Surrogate: 2-Fluorobiphenyl	*73.4*		ug/L	*100.0*		*73*	*30-130*			
Surrogate: Nitrobenzene-d5	*113*		ug/L	*100.0*		*113*	*30-130*			
Surrogate: p-Terphenyl-d14	*85.9*		ug/L	*100.0*		*86*	*30-130*			
LCS										
2-Methylnaphthalene	75.4	4.00	ug/L	100.0		75	40-140			
Acenaphthene	83.6	4.00	ug/L	100.0		84	40-140			
Acenaphthylene	82.3	4.00	ug/L	100.0		82	40-140			
Anthracene	69.5	4.00	ug/L	100.0		69	40-140			
Benzo(a)anthracene	67.1	1.00	ug/L	100.0		67	40-140			
Benzo(a)pyrene	72.4	1.00	ug/L	100.0		72	40-140			
Benzo(b)fluoranthene	72.1	1.00	ug/L	100.0		72	40-140			
Benzo(g,h,i)perylene	74.2	4.00	ug/L	100.0		74	40-140			
Benzo(k)fluoranthene	74.5	1.00	ug/L	100.0		74	40-140			
Chrysene	72.6	1.00	ug/L	100.0		73	40-140			
Dibenzo(a,h)Anthracene	78.0	1.00	ug/L	100.0		78	40-140			
Fluoranthene	75.7	4.00	ug/L	100.0		76	40-140			
Fluorene	78.1	4.00	ug/L	100.0		78	40-140			
Indeno(1,2,3-cd)Pyrene	75.9	1.00	ug/L	100.0		76	40-140			
Naphthalene	74.8	4.00	ug/L	100.0		75	40-140			
Phenanthrene	72.8	4.00	ug/L	100.0		73	40-140			
Pyrene	70.2	4.00	ug/L	100.0		70	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*76.9*		ug/L	*100.0*		*77*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*212*		ug/L	*150.0*		*141*	*15-110*			
Surrogate: 2-Fluorobiphenyl	*73.4*		ug/L	*100.0*		*73*	*30-130*			
Surrogate: Nitrobenzene-d5	*113*		ug/L	*100.0*		*113*	*30-130*			
Surrogate: p-Terphenyl-d14	*85.9*		ug/L	*100.0*		*86*	*30-130*			
LCS Dup										
2-Methylnaphthalene	75.5	4.00	ug/L	100.0		75	40-140	0.1	20	
Acenaphthene	81.8	4.00	ug/L	100.0		82	40-140	2	20	
Acenaphthylene	81.0	4.00	ug/L	100.0		81	40-140	2	20	
Anthracene	68.6	4.00	ug/L	100.0		69	40-140	1	20	
Benzo(a)anthracene	64.9	1.00	ug/L	100.0		65	40-140	3	20	
Benzo(a)pyrene	71.0	1.00	ug/L	100.0		71	40-140	2	20	
Benzo(b)fluoranthene	66.9	1.00	ug/L	100.0		67	40-140	7	20	
Benzo(g,h,i)perylene	71.9	4.00	ug/L	100.0		72	40-140	3	20	
Benzo(k)fluoranthene	70.2	1.00	ug/L	100.0		70	40-140	6	20	
Chrysene	70.8	1.00	ug/L	100.0		71	40-140	2	20	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY

ESS Laboratory Work Order: 22E0396

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D(SIM) Polynuclear Aromatic Hydrocarbons										
Batch DE21607 - 3520C										
Dibenzo(a,h)Anthracene	76.1	1.00	ug/L	100.0		76	40-140	2	20	
Fluoranthene	73.3	4.00	ug/L	100.0		73	40-140	3	20	
Fluorene	77.2	4.00	ug/L	100.0		77	40-140	1	20	
Indeno(1,2,3-cd)Pyrene	74.3	1.00	ug/L	100.0		74	40-140	2	20	
Naphthalene	73.6	4.00	ug/L	100.0		74	40-140	2	20	
Phenanthrene	71.3	4.00	ug/L	100.0		71	40-140	2	20	
Pyrene	66.1	4.00	ug/L	100.0		66	40-140	6	20	
Surrogate: 1,2-Dichlorobenzene-d4	*74.9*		ug/L	*100.0*		*75*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*202*		ug/L	*150.0*		*135*	*15-110*			
Surrogate: 2-Fluorobiphenyl	*70.7*		ug/L	*100.0*		*71*	*30-130*			
Surrogate: Nitrobenzene-d5	*111*		ug/L	*100.0*		*111*	*30-130*			
Surrogate: p-Terphenyl-d14	*76.1*		ug/L	*100.0*		*76*	*30-130*			
LCS Dup										
2-Methylnaphthalene	75.5	4.00	ug/L	100.0		75	40-140	0.1	20	
Acenaphthene	81.8	4.00	ug/L	100.0		82	40-140	2	20	
Acenaphthylene	81.0	4.00	ug/L	100.0		81	40-140	2	20	
Anthracene	68.6	4.00	ug/L	100.0		69	40-140	1	20	
Benzo(a)anthracene	64.9	1.00	ug/L	100.0		65	40-140	3	20	
Benzo(a)pyrene	71.0	1.00	ug/L	100.0		71	40-140	2	20	
Benzo(b)fluoranthene	66.9	1.00	ug/L	100.0		67	40-140	7	20	
Benzo(g,h,i)perylene	71.9	4.00	ug/L	100.0		72	40-140	3	20	
Benzo(k)fluoranthene	70.2	1.00	ug/L	100.0		70	40-140	6	20	
Chrysene	70.8	1.00	ug/L	100.0		71	40-140	2	20	
Dibenzo(a,h)Anthracene	76.1	1.00	ug/L	100.0		76	40-140	2	20	
Fluoranthene	73.3	4.00	ug/L	100.0		73	40-140	3	20	
Fluorene	77.2	4.00	ug/L	100.0		77	40-140	1	20	
Indeno(1,2,3-cd)Pyrene	74.3	1.00	ug/L	100.0		74	40-140	2	20	
Naphthalene	73.6	4.00	ug/L	100.0		74	40-140	2	20	
Phenanthrene	71.3	4.00	ug/L	100.0		71	40-140	2	20	
Pyrene	66.1	4.00	ug/L	100.0		66	40-140	6	20	
Surrogate: 1,2-Dichlorobenzene-d4	*74.9*		ug/L	*100.0*		*75*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*202*		ug/L	*150.0*		*135*	*15-110*			
Surrogate: 2-Fluorobiphenyl	*70.7*		ug/L	*100.0*		*71*	*30-130*			
Surrogate: Nitrobenzene-d5	*111*		ug/L	*100.0*		*111*	*30-130*			
Surrogate: p-Terphenyl-d14	*76.1*		ug/L	*100.0*		*76*	*30-130*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY

ESS Laboratory Work Order: 22E0396

Notes and Definitions

U	Analyte included in the analysis, but not detected
Q	Calibration required quadratic regression (Q).
J	Reported between MDL and MRL
ICV-	Initial Calibration Verification recovery is below lower control limit (ICV-).
D	Diluted.
CD+	Continuing Calibration %Diff/Drift is above control limit (CD+).
CD-	Continuing Calibration %Diff/Drift is below control limit (CD-).
B+	Blank Spike recovery is above upper control limit (B+).
B-	Blank Spike recovery is below lower control limit (B-).
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probable Number
TNTC	Too numerous to Count
CFU	Colony Forming Units

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: IPEC- 450 Broadway NY

ESS Laboratory Work Order: 22E0396

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002
http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424
http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

Pennsylvania: 68-01752
http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: GZA - Norwood, MA - GZA/TB

Shipped/Delivered Via: ESS Courier

ESS Project ID: 22E0396
Date Received: 5/11/2022
Project Due Date: 5/18/2022
Days for Project: 5 Day

1. Air bill manifest present? No
   Air No.: NA
2. Were custody seals present? No
3. Is radiation count <100 CPM? Yes
4. Is a Cooler Present? Yes
   Temp: 0.4 Iced with: Ice
5. Was COC signed and dated by client? Yes
6. Does COC match bottles? Yes
7. Is COC complete and correct? Yes
8. Were samples received intact? Yes
9. **Were labs informed about short holds & rushes?** Yes / No / NA
10. Were any analyses received outside of hold time? Yes / No

11. Any Subcontracting needed? Yes / No
    ESS Sample IDs:
    Analysis:
    TAT:
12. Were VOAs received? Yes / No
    a. Air bubbles in aqueous VOAs? Yes / No
    b. Does methanol cover soil completely? Yes / No / NA
13. Are the samples properly preserved? Yes / No
    a. If metals preserved upon receipt: Date: Time: By/Acid Lot#:
    b. Low Level VOA vials frozen: Date: Time: By:

Sample Receiving Notes:

14. Was there a need to contact Project Manager? Yes / No
    a. Was there a need to contact the client? Yes / No
    Who was contacted? Date: Time: By:

Resolution:

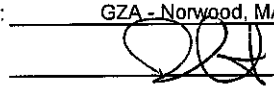
Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	290549	Yes	No	Yes	VOA Vial	HCl	
1	290550	Yes	No	Yes	VOA Vial	HCl	
1	290551	Yes	No	Yes	VOA Vial	HCl	
1	290555	Yes	N/A	Yes	1L Amber	NP	
1	290556	Yes	N/A	Yes	1L Amber	NP	
2	290552	Yes	No	Yes	VOA Vial	HCl	

2nd Review
Were all containers scanned into storage/lab? Initials
Are barcode labels on correct containers? Yes / No
Are all Flashpoint stickers attached/container ID # circled? Yes / No / NA
Are all Hex Chrome stickers attached? Yes / No / NA
Are all QC stickers attached? Yes / No / NA
Are VOA stickers attached if bubbles noted? Yes / No / NA

Completed By: Date & Time: 1807 5/11/22.
Reviewed

ESS Laboratory Sample and Cooler Receipt Checklist

Client: GZA - Norwood, MA - GZA/TB

By: 

Date & Time: 5/11/22 1835

ESS Project ID: 22E0396

Date Received: 5/11/2022

CHAIN OF CUSTODY

185 Frances Avenue
Cranston, RI 02921
Phone: 401-461-7181
Fax: 401-461-4486
www.esslaboratory.com

ESS Lab # 22E03960 | Page 1 of

Turn Time: ☐ >5 ☑ 5 ☐ 4 ☐ 3 ☐ 2 ☐ 1 ☐ Same Day

Regulatory State: Criteria:

Is this project for any of the following?: ☐ CT RCP ☐ MA MCP ☐ RGP ☐ Permit ☐ 401 WQ

ELECTRONIC DELIVERABLES (Final Reports are PDF)

☐ Limit Checker ☐ State Forms ☐ EQuIS
☑ Excel ☐ Hard Copy ☐ Enviro Data
☐ CLP-Like Package ☐ Other (Specify) →

CLIENT INFORMATION

Client: GZA Geoenvironmental
Address: 249 Vanderbilt Ave
Norwood, MA 02062
Phone: 203-623-8996
Email Distribution List: joshua.simpson@gza.com

PROJECT INFORMATION

Project Name: SPEC
Project Location: 450 Broadway, Buchanan, NY
Project Number: 01.0017869.90
Project Manager: Joshua Simpson
Bill to: Same as above
PO#:
Quote#:

Client acknowledges that sampling is compliant with all EPA / State regulatory programs

REQUESTED ANALYSES

ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix	Sample ID	VOCs (8260) mTBE	SVOCs (8270) 1,4-Dioxane	PFAS/Metals
1	5/10/22	1135	--	GW	MW-1	X	X	
2	--	--	--	GW	TB	X		

Container Type: AC-Air Cassette AG-Amber Glass B-BOD Bottle C-Cubitainer J-Jar O-Other P-Poly S-Sterile V-Vial — V | AG
Container Volume: 1-100 mL 2-2.5 gal 3-250 mL 4-300 mL 5-500 mL 6-1L 7-VOA 8-2 oz 9-4 oz 10-8 oz 11-Other* — 7 | 6
Preservation Code: 1-Non Preserved 2-HCl 3-H2SO4 4-HNO3 5-NaOH 6-Methanol 7-Na2S2O3 8-ZnAce, NaOH 9-NH4Cl 10-DI H2O 11-Other* — 2 | 1

Sampled by: Tim McBride

Chain needs to be filled out neatly and completely for on time delivery.

Laboratory Use Only
Cooler Temperature (°C): 0.4

Comments: * Please specify "Other" preservative and containers types in this space
Must be 5 day TAT

All samples submitted are subject to ESS Laboratory's payment terms and conditions.

Dissolved Filtration: ☐ Lab Filter

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
Tim	5/10/22		5/11/22	13:10	5/11/22	17:02	Clayton Davis
Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)

PHOENIX
Environmental Laboratories, Inc.

Tuesday, April 25, 2023

Attn: Joshua Simpson
GZA GeoEnvironmental, Inc.
95 Glastonbury Blvd 3rd Fl
Glastonbury, CT 06033

Project ID: 01.0017869.98
SDG ID: GCN86217
Sample ID#s: CN86217 - CN86218

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

Sample Id Cross Reference

April 25, 2023

SDG I.D.: GCN86217

Project ID: 01.0017869.98

Client Id	Lab Id	Matrix
MW-1	CN86217	GROUND WATER
TB-04182023	CN86218	WATER

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

April 25, 2023

FOR: Attn: Joshua Simpson
GZA GeoEnvironmental, Inc.
95 Glastonbury Blvd 3rd Fl
Glastonbury, CT 06033

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		04/18/23	11:50
Location Code:	GZACTENG	Received by:	SW	04/19/23	10:43
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	05.0046979.00				

Laboratory Data

SDG ID: GCN86217
Phoenix ID: CN86217

Project ID: 01.0017869.98
Client ID: MW-1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Semi-Volatile Extraction	Completed				04/19/23	X/X	SW3520C
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	04/19/23	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	04/19/23	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	04/19/23	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	04/19/23	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	04/19/23	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	04/19/23	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	04/19/23	MH	SW8260C
1,2-Dibromoethane	ND	1.0	ug/L	1	04/19/23	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	04/19/23	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	04/19/23	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	04/19/23	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	04/19/23	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	04/19/23	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C

1

Project ID: 01.0017869.98
Client ID: MW-1

Phoenix I.D.: CN86217

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
4-Chlorotoluene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
4-Methyl-2-pentanone	ND	5.0	ug/L	1	04/19/23	MH	SW8260C	
Acetone	ND	25	ug/L	1	04/19/23	MH	SW8260C	
Acrylonitrile	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Benzene	ND	0.70	ug/L	1	04/19/23	MH	SW8260C	
Bromobenzene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Bromochloromethane	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Bromodichloromethane	ND	0.50	ug/L	1	04/19/23	MH	SW8260C	
Bromoform	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Bromomethane	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Carbon Disulfide	ND	5.0	ug/L	1	04/19/23	MH	SW8260C	
Carbon tetrachloride	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Chlorobenzene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Chloroethane	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Chloroform	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Chloromethane	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	04/19/23	MH	SW8260C	
Dibromochloromethane	ND	0.50	ug/L	1	04/19/23	MH	SW8260C	
Dibromomethane	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Dichlorodifluoromethane	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Ethylbenzene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Hexachlorobutadiene	ND	0.40	ug/L	1	04/19/23	MH	SW8260C	
Isopropylbenzene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
m&p-Xylene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Methyl ethyl ketone	ND	5.0	ug/L	1	04/19/23	MH	SW8260C	
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Methylene chloride	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Naphthalene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
n-Butylbenzene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
n-Propylbenzene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
o-Xylene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
p-Isopropyltoluene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
sec-Butylbenzene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Styrene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
tert-Butylbenzene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Tetrachloroethene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	04/19/23	MH	SW8260C	1
Toluene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Total Xylenes	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	04/19/23	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	04/19/23	MH	SW8260C	
Trichloroethene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Trichlorofluoromethane	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Trichlorotrifluoroethane	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Vinyl chloride	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	100		%	1	04/19/23	MH	70 - 130 %	

Project ID: 01.0017869.98
Client ID: MW-1

Phoenix I.D.: CN86217

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
% Bromofluorobenzene	98		%	1	04/19/23	MH	70 - 130 %	
% Dibromofluoromethane	102		%	1	04/19/23	MH	70 - 130 %	
% Toluene-d8	97		%	1	04/19/23	MH	70 - 130 %	
Semivolatiles, Full Scan								
1,2,4-Trichlorobenzene	ND	4.8	ug/L	1	04/22/23	KCA	SW8270D	
1,2-Dichlorobenzene	ND	2.9	ug/L	1	04/22/23	KCA	SW8270D	
1,2-Diphenylhydrazine	ND	4.8	ug/L	1	04/22/23	KCA	SW8270D	
1,3-Dichlorobenzene	ND	2.9	ug/L	1	04/22/23	KCA	SW8270D	
1,4-Dichlorobenzene	ND	2.9	ug/L	1	04/22/23	KCA	SW8270D	
2,2'-Oxybis(1-Chloropropane)	ND	0.95	ug/L	1	04/22/23	KCA	SW8270D	1
2,4-Dinitrotoluene	ND	4.8	ug/L	1	04/22/23	KCA	SW8270D	
2,6-Dinitrotoluene	ND	4.8	ug/L	1	04/22/23	KCA	SW8270D	
2-Chloronaphthalene	ND	4.8	ug/L	1	04/22/23	KCA	SW8270D	
2-Methylnaphthalene	ND	4.8	ug/L	1	04/22/23	KCA	SW8270D	
2-Nitroaniline	ND	4.8	ug/L	1	04/22/23	KCA	SW8270D	
3,3'-Dichlorobenzidine	ND	4.8	ug/L	1	04/22/23	KCA	SW8270D	
3-Nitroaniline	ND	4.8	ug/L	1	04/22/23	KCA	SW8270D	
4-Bromophenyl phenyl ether	ND	4.8	ug/L	1	04/22/23	KCA	SW8270D	
4-Chloroaniline	ND	4.8	ug/L	1	04/22/23	KCA	SW8270D	
4-Chlorophenyl phenyl ether	ND	4.8	ug/L	1	04/22/23	KCA	SW8270D	
4-Nitroaniline	ND	4.8	ug/L	1	04/22/23	KCA	SW8270D	
Acenaphthene	ND	4.8	ug/L	1	04/22/23	KCA	SW8270D	
Anthracene	ND	4.8	ug/L	1	04/22/23	KCA	SW8270D	
Benzidine	ND	4.8	ug/L	1	04/22/23	KCA	SW8270D	
Benzoic acid	ND	48	ug/L	1	04/22/23	KCA	SW8270D	
Benzyl Alcohol	ND	19	ug/L	1	04/22/23	KCA	SW8270D	
Benzyl butyl phthalate	ND	4.8	ug/L	1	04/22/23	KCA	SW8270D	
Bis(2-chloroethoxy)methane	ND	4.8	ug/L	1	04/22/23	KCA	SW8270D	
Bis(2-chloroethyl)ether	ND	0.95	ug/L	1	04/22/23	KCA	SW8270D	
Bis(2-ethylhexyl)phthalate	ND	4.8	ug/L	1	04/22/23	KCA	SW8270D	
Dibenzofuran	ND	4.8	ug/L	1	04/22/23	KCA	SW8270D	
Diethyl phthalate	ND	4.8	ug/L	1	04/22/23	KCA	SW8270D	
Dimethylphthalate	ND	4.8	ug/L	1	04/22/23	KCA	SW8270D	
Di-n-butylphthalate	ND	4.8	ug/L	1	04/22/23	KCA	SW8270D	
Di-n-octylphthalate	ND	4.8	ug/L	1	04/22/23	KCA	SW8270D	
Fluoranthene	ND	4.8	ug/L	1	04/22/23	KCA	SW8270D	
Fluorene	ND	4.8	ug/L	1	04/22/23	KCA	SW8270D	
Hexachloroethane	ND	4.8	ug/L	1	04/22/23	KCA	SW8270D	
Isophorone	ND	4.8	ug/L	1	04/22/23	KCA	SW8270D	
Naphthalene	ND	4.8	ug/L	1	04/22/23	KCA	SW8270D	
N-Nitrosodimethylamine	ND	4.8	ug/L	1	04/22/23	KCA	SW8270D	
N-Nitrosodi-n-propylamine	ND	4.8	ug/L	1	04/22/23	KCA	SW8270D	
N-Nitrosodiphenylamine	ND	4.8	ug/L	1	04/22/23	KCA	SW8270D	
Pyrene	ND	4.8	ug/L	1	04/22/23	KCA	SW8270D	
QA/QC Surrogates								
% 2-Fluorobiphenyl	76		%	1	04/22/23	KCA	30 - 130 %	
% Nitrobenzene-d5	77		%	1	04/22/23	KCA	30 - 130 %	
% Terphenyl-d14	83		%	1	04/22/23	KCA	30 - 130 %	

Project ID: 01.0017869.98
Client ID: MW-1

Phoenix I.D.: CN86217

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Semivolatiles, SIM							
Acenaphthylene	ND	0.48	ug/L	1	04/21/23	KCA	SW8270D (SIM)
Benz(a)anthracene	ND	0.02	ug/L	1	04/21/23	KCA	SW8270D (SIM)
Benzo(a)pyrene	ND	0.02	ug/L	1	04/21/23	KCA	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.02	ug/L	1	04/21/23	KCA	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.48	ug/L	1	04/21/23	KCA	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.02	ug/L	1	04/21/23	KCA	SW8270D (SIM)
Chrysene	ND	0.02	ug/L	1	04/21/23	KCA	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.48	ug/L	1	04/21/23	KCA	SW8270D (SIM)
Hexachlorobenzene	ND	0.04	ug/L	1	04/21/23	KCA	SW8270D (SIM)
Hexachlorobutadiene	ND	0.48	ug/L	1	04/21/23	KCA	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.48	ug/L	1	04/21/23	KCA	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.02	ug/L	1	04/21/23	KCA	SW8270D (SIM)
Nitrobenzene	ND	0.38	ug/L	1	04/21/23	KCA	SW8270D (SIM)
Phenanthrene	ND	0.48	ug/L	1	04/21/23	KCA	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	72		%	1	04/21/23	KCA	30 - 130 %
% Nitrobenzene-d5	83		%	1	04/21/23	KCA	30 - 130 %
% Terphenyl-d14	82		%	1	04/21/23	KCA	30 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
April 25, 2023
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

April 25, 2023

FOR: Attn: Joshua Simpson
GZA GeoEnvironmental, Inc.
95 Glastonbury Blvd 3rd Fl
Glastonbury, CT 06033

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		04/18/23	
Location Code:	GZACTENG	Received by:	SW	04/19/23	10:43
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	05.0046979.00				

Laboratory Data

SDG ID: GCN86217
Phoenix ID: CN86218

Project ID: 01.0017869.98
Client ID: TB-04182023

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
1,1,1-Trichloroethane	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	04/19/23	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
1,1-Dichloroethane	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
1,1-Dichloroethene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
1,1-Dichloropropene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
1,2,3-Trichloropropane	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
1,2-Dibromoethane	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
1,2-Dichlorobenzene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
1,2-Dichloroethane	ND	0.60	ug/L	1	04/19/23	MH	SW8260C	
1,2-Dichloropropane	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
1,3-Dichlorobenzene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
1,3-Dichloropropane	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
1,4-Dichlorobenzene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
2,2-Dichloropropane	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
2-Chlorotoluene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
2-Hexanone	ND	5.0	ug/L	1	04/19/23	MH	SW8260C	
2-Isopropyltoluene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	1
4-Chlorotoluene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
4-Methyl-2-pentanone	ND	5.0	ug/L	1	04/19/23	MH	SW8260C	

Project ID: 01.0017869.98
Client ID: TB-04182023

Phoenix I.D.: CN86218

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Acetone	ND	25	ug/L	1	04/19/23	MH	SW8260C	
Acrylonitrile	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Benzene	ND	0.70	ug/L	1	04/19/23	MH	SW8260C	
Bromobenzene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Bromochloromethane	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Bromodichloromethane	ND	0.50	ug/L	1	04/19/23	MH	SW8260C	
Bromoform	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Bromomethane	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Carbon Disulfide	ND	5.0	ug/L	1	04/19/23	MH	SW8260C	
Carbon tetrachloride	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Chlorobenzene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Chloroethane	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Chloroform	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Chloromethane	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	04/19/23	MH	SW8260C	
Dibromochloromethane	ND	0.50	ug/L	1	04/19/23	MH	SW8260C	
Dibromomethane	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Dichlorodifluoromethane	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Ethylbenzene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Hexachlorobutadiene	ND	0.40	ug/L	1	04/19/23	MH	SW8260C	
Isopropylbenzene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
m&p-Xylene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Methyl ethyl ketone	ND	5.0	ug/L	1	04/19/23	MH	SW8260C	
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Methylene chloride	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Naphthalene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
n-Butylbenzene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
n-Propylbenzene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
o-Xylene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
p-Isopropyltoluene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
sec-Butylbenzene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Styrene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
tert-Butylbenzene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Tetrachloroethene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	04/19/23	MH	SW8260C	1
Toluene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Total Xylenes	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	04/19/23	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	04/19/23	MH	SW8260C	
Trichloroethene	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Trichlorofluoromethane	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Trichlorotrifluoroethane	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
Vinyl chloride	ND	1.0	ug/L	1	04/19/23	MH	SW8260C	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	100		%	1	04/19/23	MH	70 - 130 %	
% Bromofluorobenzene	98		%	1	04/19/23	MH	70 - 130 %	
% Dibromofluoromethane	105		%	1	04/19/23	MH	70 - 130 %	

Ver 1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	97		%	1	04/19/23	MH	70 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

April 25, 2023

Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

April 25, 2023

QA/QC Data

SDG I.D.: GCN86217

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 673571 (ug/L), QC Sample No: CN86098 (CN86217)											
Semivolatiles - Ground Water											
1,2,4-Trichlorobenzene	ND	3.5	86	80	7.2				40 - 140	20	
1,2-Dichlorobenzene	ND	1.0	78	75	3.9				40 - 140	20	
1,2-Diphenylhydrazine	ND	1.6	93	91	2.2				40 - 140	20	
1,3-Dichlorobenzene	ND	1.0	76	73	4.0				40 - 140	20	
1,4-Dichlorobenzene	ND	1.0	74	71	4.1				40 - 140	20	
2,2'-Oxybis(1-Chloropropane)	ND	1.0	78	74	5.3				40 - 140	20	
2,4-Dinitrotoluene	ND	3.5	94	90	4.3				30 - 130	20	
2,6-Dinitrotoluene	ND	3.5	112	107	4.6				40 - 140	20	
2-Chloronaphthalene	ND	3.5	93	89	4.4				40 - 140	20	
2-Methylnaphthalene	ND	3.5	93	86	7.8				40 - 140	20	
2-Nitroaniline	ND	3.5	156	153	1.9				40 - 140	20	I
3,3'-Dichlorobenzidine	ND	5.0	80	77	3.8				40 - 140	20	
3-Nitroaniline	ND	5.0	129	127	1.6				40 - 140	20	
4-Bromophenyl phenyl ether	ND	3.5	107	100	6.8				40 - 140	20	
4-Chloroaniline	ND	3.5	96	96	0.0				40 - 140	20	
4-Chlorophenyl phenyl ether	ND	1.0	97	92	5.3				40 - 140	20	
4-Nitroaniline	ND	5.0	107	105	1.9				40 - 140	20	
Acenaphthene	ND	1.5	99	93	6.3				30 - 130	20	
Anthracene	ND	1.5	104	98	5.9				40 - 140	20	
Benzidine	ND	4.5	107	116	8.1				40 - 140	20	
Benzoic acid	ND	10	62	40	43.1				30 - 130	20	r
Benzyl Alcohol	ND	5.0	91	87	4.5				30 - 130	20	
Benzyl butyl phthalate	ND	1.5	107	104	2.8				40 - 140	20	
Bis(2-chloroethoxy)methane	ND	3.5	90	83	8.1				40 - 140	20	
Bis(2-chloroethyl)ether	ND	1.0	81	74	9.0				40 - 140	20	
Bis(2-ethylhexyl)phthalate	ND	1.5	111	105	5.6				40 - 140	20	
Dibenzofuran	ND	3.5	99	95	4.1				40 - 140	20	
Diethyl phthalate	ND	1.5	111	105	5.6				40 - 140	20	
Dimethylphthalate	ND	1.5	103	99	4.0				40 - 140	20	
Di-n-butylphthalate	ND	1.5	110	104	5.6				40 - 140	20	
Di-n-octylphthalate	ND	1.5	104	100	3.9				40 - 140	20	
Fluoranthene	ND	1.5	111	105	5.6				40 - 140	20	
Fluorene	ND	1.5	101	98	3.0				40 - 140	20	
Hexachloroethane	ND	3.5	74	74	0.0				40 - 140	20	
Isophorone	ND	3.5	85	80	6.1				40 - 140	20	
Naphthalene	ND	1.5	84	80	4.9				40 - 140	20	
N-Nitrosodimethylamine	ND	1.0	69	61	12.3				40 - 140	20	
N-Nitrosodi-n-propylamine	ND	3.5	86	81	6.0				40 - 140	20	
N-Nitrosodiphenylamine	ND	3.5	94	84	11.2				40 - 140	20	
Pyrene	ND	1.5	109	104	4.7				30 - 130	20	
% 2-Fluorobiphenyl	73	%	91	85	6.8				30 - 130	20	

Parameter	Blank	Blk RL		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% Nitrobenzene-d5	72	%		85	77	9.9				30 - 130	20
% Terphenyl-d14	87	%		106	99	6.8				30 - 130	20

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 673571 (ug/L), QC Sample No: CN86098 (CN86217)

Semivolatiles (SIM) - Ground Water

Acenaphthylene	ND	0.50		76	73	4.0				30 - 130	20
Benz(a)anthracene	ND	0.50		100	96	4.1				30 - 130	20
Benzo(a)pyrene	ND	0.50		105	100	4.9				30 - 130	20
Benzo(b)fluoranthene	ND	0.50		99	99	0.0				30 - 130	20
Benzo(ghi)perylene	ND	0.50		121	119	1.7				30 - 130	20
Benzo(k)fluoranthene	ND	0.50		127	123	3.2				30 - 130	20
Chrysene	ND	0.50		98	97	1.0				30 - 130	20
Dibenz(a,h)anthracene	ND	0.50		116	114	1.7				30 - 130	20
Hexachlorobenzene	ND	0.50		95	93	2.1				30 - 130	20
Hexachlorobutadiene	ND	0.50		72	72	0.0				30 - 130	20
Hexachlorocyclopentadiene	ND	0.50		38	31	20.3				30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	0.50		115	110	4.4				30 - 130	20
Nitrobenzene	ND	0.50		74	72	2.7				30 - 130	20
Phenanthrene	ND	0.50		103	100	3.0				30 - 130	20
% 2-Fluorobiphenyl	73	%		75	72	4.1				30 - 130	20
% Nitrobenzene-d5	80	%		86	79	8.5				30 - 130	20
% Terphenyl-d14	86	%		94	89	5.5				30 - 130	20

Comment:

Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 673710 (ug/L), QC Sample No: CN86218 (CN86217, CN86218)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0		104	111	6.5				70 - 130	30
1,1,1-Trichloroethane	ND	1.0		103	108	4.7				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50		101	106	4.8				70 - 130	30
1,1,2-Trichloroethane	ND	1.0		97	101	4.0				70 - 130	30
1,1-Dichloroethane	ND	1.0		105	110	4.7				70 - 130	30
1,1-Dichloroethene	ND	1.0		105	107	1.9				70 - 130	30
1,1-Dichloropropene	ND	1.0		104	108	3.8				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0		106	110	3.7				70 - 130	30
1,2,3-Trichloropropane	ND	1.0		99	103	4.0				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0		107	111	3.7				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0		107	112	4.6				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0		105	109	3.7				70 - 130	30
1,2-Dibromoethane	ND	1.0		102	106	3.8				70 - 130	30
1,2-Dichlorobenzene	ND	1.0		106	110	3.7				70 - 130	30
1,2-Dichloroethane	ND	1.0		102	105	2.9				70 - 130	30
1,2-Dichloropropane	ND	1.0		100	105	4.9				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0		108	114	5.4				70 - 130	30
1,3-Dichlorobenzene	ND	1.0		105	110	4.7				70 - 130	30
1,3-Dichloropropane	ND	1.0		102	105	2.9				70 - 130	30
1,4-Dichlorobenzene	ND	1.0		106	110	3.7				70 - 130	30
2,2-Dichloropropane	ND	1.0		105	111	5.6				70 - 130	30
2-Chlorotoluene	ND	1.0		108	112	3.6				70 - 130	30
2-Hexanone	ND	5.0		92	97	5.3				70 - 130	30

QA/QC Data

SDG I.D.: GCN86217

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
2-Isopropyltoluene	ND	1.0	108	112	3.6				70 - 130	30
4-Chlorotoluene	ND	1.0	109	112	2.7				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	92	99	7.3				70 - 130	30
Acetone	ND	5.0	90	91	1.1				70 - 130	30
Acrylonitrile	ND	5.0	97	102	5.0				70 - 130	30
Benzene	ND	0.70	101	106	4.8				70 - 130	30
Bromobenzene	ND	1.0	107	112	4.6				70 - 130	30
Bromochloromethane	ND	1.0	101	104	2.9				70 - 130	30
Bromodichloromethane	ND	0.50	101	105	3.9				70 - 130	30
Bromoform	ND	1.0	100	106	5.8				70 - 130	30
Bromomethane	ND	1.0	133	146	9.3				70 - 130	30
Carbon Disulfide	ND	1.0	100	103	3.0				70 - 130	30
Carbon tetrachloride	ND	1.0	99	106	6.8				70 - 130	30
Chlorobenzene	ND	1.0	103	108	4.7				70 - 130	30
Chloroethane	ND	1.0	106	111	4.6				70 - 130	30
Chloroform	ND	1.0	100	105	4.9				70 - 130	30
Chloromethane	ND	1.0	107	113	5.5				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	101	107	5.8				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	99	103	4.0				70 - 130	30
Dibromochloromethane	ND	0.50	102	108	5.7				70 - 130	30
Dibromomethane	ND	1.0	101	105	3.9				70 - 130	30
Dichlorodifluoromethane	ND	1.0	106	108	1.9				70 - 130	30
Ethylbenzene	ND	1.0	106	113	6.4				70 - 130	30
Hexachlorobutadiene	ND	0.40	109	113	3.6				70 - 130	30
Isopropylbenzene	ND	1.0	110	114	3.6				70 - 130	30
m&p-Xylene	ND	1.0	106	111	4.6				70 - 130	30
Methyl ethyl ketone	ND	5.0	94	92	2.2				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	96	101	5.1				70 - 130	30
Methylene chloride	ND	1.0	97	100	3.0				70 - 130	30
Naphthalene	ND	1.0	105	110	4.7				70 - 130	30
n-Butylbenzene	ND	1.0	112	119	6.1				70 - 130	30
n-Propylbenzene	ND	1.0	110	115	4.4				70 - 130	30
o-Xylene	ND	1.0	105	108	2.8				70 - 130	30
p-Isopropyltoluene	ND	1.0	110	115	4.4				70 - 130	30
sec-Butylbenzene	ND	1.0	110	114	3.6				70 - 130	30
Styrene	ND	1.0	106	111	4.6				70 - 130	30
tert-Butylbenzene	ND	1.0	110	114	3.6				70 - 130	30
Tetrachloroethene	ND	1.0	102	106	3.8				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	92	96	4.3				70 - 130	30
Toluene	ND	1.0	102	106	3.8				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	106	110	3.7				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	99	105	5.9				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	102	110	7.5				70 - 130	30
Trichloroethene	ND	1.0	100	104	3.9				70 - 130	30
Trichlorofluoromethane	ND	1.0	109	111	1.8				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	97	100	3.0				70 - 130	30
Vinyl chloride	ND	1.0	105	110	4.7				70 - 130	30
% 1,2-dichlorobenzene-d4	99	%	99	100	1.0				70 - 130	30
% Bromofluorobenzene	98	%	99	99	0.0				70 - 130	30
% Dibromofluoromethane	103	%	101	100	1.0				70 - 130	30
% Toluene-d8	96	%	100	100	0.0				70 - 130	30

QA/QC Data

SDG I.D.: GCN86217

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
April 25, 2023

Tuesday, April 25, 2023

Criteria: None

State: NY

Sample Criteria Exceedances Report

GCN86217 - GZACTENG

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Comments

April 25, 2023 SDG I.D.: GCN86217

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report:

SVOASIM Narration

CHEM27 04/21/23-1: CN86217

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

The following Initial Calibration compounds did not meet RSD% criteria: Benzo(b)fluoranthene 21% (20%), Nitrobenzene 21% (20%)
The following Initial Calibration compounds did not meet maximum RSD% criteria: None.

VOA Narration

CHEM02 04/19/23-1: CN86217, CN86218

Chem02 is a 25ml purge instrument. The laboratory minimum response factor is set at 0.01 instead of 0.05 for the 25ml purge instruments. EPA method 8260D Table 4 supports this approach.

The following Initial Calibration compounds did not meet RSD% criteria: Bromomethane 30% (20%), trans-1,4-dichloro-2-butene 26% (20%)
The following Initial Calibration compounds did not meet maximum RSD% criteria: None.
The following Initial Calibration compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.028 (0.05), 2-Hexanone 0.062 (0.1), 4-Methyl-2-pentanone 0.081 (0.1), Acetone 0.032 (0.1), Acrylonitrile 0.034 (0.05), Bromoform 0.053 (0.1), Bromomethane 0.080 (0.1), Methyl ethyl ketone 0.054 (0.1), Tetrachloroethene 0.173 (0.2), Tetrahydrofuran (THF) 0.038 (0.05)
The following Initial Calibration compounds did not meet minimum response factors: 1,2-Dibromo-3-chloropropane 0.028 (0.05), Acetone 0.032 (0.05), Acrylonitrile 0.034 (0.05), Tetrahydrofuran (THF) 0.038 (0.05)

The following Continuing Calibration compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.027 (0.05), Acetone 0.029 (0.05), Acrylonitrile 0.034 (0.05), Bromoform 0.049 (0.05), Methyl ethyl ketone 0.049 (0.05), Tetrahydrofuran (THF) 0.033 (0.05)
The following Continuing Calibration compounds did not meet minimum response factors: 1,2-Dibromo-3-chloropropane 0.028 (0.05), Acetone 0.032 (0.05), Acrylonitrile 0.034 (0.05), Bromoform 0.053 (0.05), Methyl ethyl ketone 0.054 (0.05), Tetrahydrofuran (THF) 0.038 (0.05)

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Temperature Narration

April 25, 2023

SDG I.D.: GCN86217

The samples in this delivery group were received at 3.0°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes ☒ No ☐
Coolant: IPK ☒ ICE ☐ No ☐
Temp 3.0° C Pg 1 of 1

PHOENIX
Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: makrina@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-1102

Data Delivery/Contact Options:
☐ Fax:
☐ Phone:
■ Email: joshua.simpson@gza.com

Customer: GZA Geoenvironmental
Address: 95 Glastonbury Boulevard, Third Floor
Glastonbury, CT 06033

Project: 01.0017869.98
Report to: Joshua Simpson
Invoice to: Same as above
Quote #

Project P.O: 05.0046979.00

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification
Sampl Dat

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs (8260)	MTBE	SVOCs (8270)	Base/Neutrals							*MS/MSD (May be billable at analysis unit rate)	GL Amber 8 oz. [ ] w/H3PO4 [ ] NAHSO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) oz	GL Soil container (4) oz	40 ml VOA Vial [ ] As is [X] HCl	GL Amber 1000ml [X] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml [ ] 1000ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is	
86217	MW-1	GW	4/18/2023	1150	X	X	X	X												3	3							
86218	TB-04182023	W	4/18/2023	NA	X															2								
																											8 Total	

Relinquished by:	Accepted by:	Date:	Time:
	Fedex	4/20/23	0700
Fedex	Emily	4/19/23	1043

Comments, Special Requirements or Regulations:

MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.

Turnaround Time:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☑ Standard
☐ Other

* SURCHARGE APPLIES

RI
☐ (Residential) Direct Exposure
☐ (Comm/Industrial) Direct Exposure
☐ GA Leachability
☐ GB Leachability
☐ GA-GW Objectives
☐ GB-GW Objectives
☐ Other

CT
☐ RCP Cert
☐ GW Protection
☐ SW Protection
☐ GA Mobility
☐ GB Mobility
☐ SWPC
☐ Residential
☐ I/C DEC

MA
☐ MCP Certification
☐ GW-1
☐ GW-2
☐ GW-3
☐ MWRA eSMART
☐ S-1 10% CALC
☐ S-1 GW-1 ☐ S-1 GW-2 ☐ S-1 GW-3
☐ S-2 GW-1 ☐ S-2 GW-2 ☐ S-2 GW-3
☐ S-3 GW-1 ☐ S-3 GW-2 ☐ S-3 GW-3
☐ SW

State where samples were collected: NY

Data Format
☑ Excel
☑ PDF
☐ GIS/Key
☐ EQuIS
☐ Other

Data Package
☐ Tier II Checklist
☐ Full Data Package*
☑ Phoenix Std Report
☐ Other

* SURCHARGE

GCN86217

Shannon Wilhelm

From: Joshua Simpson <Joshua.Simpson@gza.com>
Sent: Wednesday, April 19, 2023 11:49 AM
To: Shannon Wilhelm
Subject: RE: Question on SVOC's

Hi Shannon,

We will just need the Base Neutrals reported for this sample (along with 8260, including MTBE).

Thanks!
Josh

Josh Simpson, P.G.
Senior Consultant
GZA | Spokane, WA
781.789.8096 | joshua.simpson@gza.com | www.gza.com | LinkedIn Profile

From: Shannon Wilhelm <shannon@phoenixlabs.com>
Sent: Wednesday, April 19, 2023 8:37 AM
To: Joshua Simpson <Joshua.Simpson@gza.com>
Subject: [EXTERNAL] Question on SVOC's
Importance: High

Good Morning,

Please see attached regarding samples received today. You marked off that you wanted 8270 and also Base Neutrals. Did you need a full 8270 or just the Base Neutrals for this sample? Please let me know.

Thank you,

Shannon Wilhelm

Client Services Representative

Sample login Supervisor

Phoenix Environmental Laboratories

587 East Middle Turnpike

Manchester CT 06040

80 Lupes Drive
Stratford, CT 06615

Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet1@cetlabs.com

Client: Mr. Joshua Simpson
GZA GeoEnvironmental, Inc.
35 Nutmeg Drive, Suite 325
Trumbull, CT 06611

Analytical Report

CET# 24E0277

Report Date:May 16, 2024
Project: IPEC, Buchanan, NY
Project Number: 175222.53

Connecticut Laboratory Certificate: PH 0116
Massachusetts Laboratory Certificate: M-CT903
Rhode Island Laboratory Certificate: 199

New York NELAP Accreditation: 11982
Pennsylvania Laboratory Certificate: 68-02927

SAMPLE SUMMARY

The sample(s) were received at 5.9°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
MW-1	24E0277-01	Water	5/08/2024 13:25	05/08/2024
TB-050824	24E0277-02	Water	5/08/2024 12:00	05/08/2024

Client Sample ID MW-1

Lab ID: 24E0277-01

Semivolatile Organics
Method: EPA 8270E

Analyst: STP
Matrix: Water

Analyte	Result (ug/L)	RL (ug/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
1,3-Dichlorobenzene	ND	4.0	1	EPA 3510C	BE40901	05/09/2024	05/10/2024 21:06	
n-Nitroso-di-n-propylamine	ND	4.0	1	EPA 3510C	BE40901	05/09/2024	05/10/2024 21:06	
n-Nitroso-dimethylamine	ND	4.0	1	EPA 3510C	BE40901	05/09/2024	05/10/2024 21:06	
bis(2-Chloroethyl)ether	ND	4.0	1	EPA 3510C	BE40901	05/09/2024	05/10/2024 21:06	
1,4-Dichlorobenzene	ND	4.0	1	EPA 3510C	BE40901	05/09/2024	05/10/2024 21:06	
1,2-Dichlorobenzene	ND	4.0	1	EPA 3510C	BE40901	05/09/2024	05/10/2024 21:06	
bis(2-Chloroisopropyl)ether	ND	4.0	1	EPA 3510C	BE40901	05/09/2024	05/10/2024 21:06	
Hexachloroethane	ND	3.0	1	EPA 3510C	BE40901	05/09/2024	05/10/2024 21:06	
Naphthalene	ND	1.0	1	EPA 3510C	BE40901	05/09/2024	05/10/2024 21:06	
Hexachlorobutadiene	ND	4.0	1	EPA 3510C	BE40901	05/09/2024	05/10/2024 21:06	
Nitrobenzene	ND	4.0	1	EPA 3510C	BE40901	05/09/2024	05/10/2024 21:06	
Isophorone	ND	4.0	1	EPA 3510C	BE40901	05/09/2024	05/10/2024 21:06	
bis(2-Chloroethoxy)methane	ND	4.0	1	EPA 3510C	BE40901	05/09/2024	05/10/2024 21:06	
1,2,4-Trichlorobenzene	ND	4.0	1	EPA 3510C	BE40901	05/09/2024	05/10/2024 21:06	
1,2,4,5-Tetrachlorobenzene	ND	4.0	1	EPA 3510C	BE40901	05/09/2024	05/10/2024 21:06	
2-Methyl Naphthalene	ND	2.0	1	EPA 3510C	BE40901	05/09/2024	05/10/2024 21:06	
Acenaphthene	ND	2.0	1	EPA 3510C	BE40901	05/09/2024	05/10/2024 21:06	
Dibenzofuran	ND	4.0	1	EPA 3510C	BE40901	05/09/2024	05/10/2024 21:06	
2,4-Dinitrophenol	ND	8.0	1	EPA 3510C	BE40901	05/09/2024	05/10/2024 21:06	
2-Chloronaphthalene	ND	4.0	1	EPA 3510C	BE40901	05/09/2024	05/10/2024 21:06	
2-Nitroaniline	ND	4.0	1	EPA 3510C	BE40901	05/09/2024	05/10/2024 21:06	
2,6-Dinitrotoluene	ND	4.0	1	EPA 3510C	BE40901	05/09/2024	05/10/2024 21:06	
2,4-Dinitrotoluene	ND	4.0	1	EPA 3510C	BE40901	05/09/2024	05/10/2024 21:06	
2,3,4,6-Tetrachlorophenol	ND	4.0	1	EPA 3510C	BE40901	05/09/2024	05/10/2024 21:06	
Anthracene	ND	2.0	1	EPA 3510C	BE40901	05/09/2024	05/10/2024 21:06	
Carbazole	ND	1.0	1	EPA 3510C	BE40901	05/09/2024	05/10/2024 21:06	
Fluoranthene	ND	2.0	1	EPA 3510C	BE40901	05/09/2024	05/10/2024 21:06	
3-Nitroaniline	ND	4.0	1	EPA 3510C	BE40901	05/09/2024	05/10/2024 21:06	
4,6-Dinitro-2-methylphenol	ND	8.0	1	EPA 3510C	BE40901	05/09/2024	05/10/2024 21:06	
1,2-Diphenylhydrazine	ND	4.0	1	EPA 3510C	BE40901	05/09/2024	05/10/2024 21:06	
4-Bromophenyl-phenylether	ND	4.0	1	EPA 3510C	BE40901	05/09/2024	05/10/2024 21:06	
Benzo[a]anthracene	ND	2.0	1	EPA 3510C	BE40901	05/09/2024	05/10/2024 21:06	
Chrysene	ND	2.0	1	EPA 3510C	BE40901	05/09/2024	05/10/2024 21:06	
3,3-Dichlorobenzidine	ND	4.0	1	EPA 3510C	BE40901	05/09/2024	05/10/2024 21:06	
bis(2-Ethylhexyl)phthalate	ND	2.0	1	EPA 3510C	BE40901	05/09/2024	05/10/2024 21:06	
Di-n-octylphthalate	ND	4.0	1	EPA 3510C	BE40901	05/09/2024	05/10/2024 21:06	
Benzo[b]fluoranthene	ND	2.0	1	EPA 3510C	BE40901	05/09/2024	05/10/2024 21:06	

Client Sample ID MW-1

Lab ID: 24E0277-01

Semivolatile Organics **Analyst: STP**

Method: EPA 8270E **Matrix: Water**

Analyte	Result (ug/L)	RL (ug/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Benzo[k]fluoranthene	ND	2.0	1	EPA 3510C	BE40901	05/09/2024	05/10/2024 21:06	
Surrogate: 2-Fluorophenol	*35.8 %*		*15 - 110*		BE40901	05/09/2024	*05/10/2024 21:06*	
Surrogate: Phenol-d6	*22.7 %*		*15 - 110*		BE40901	05/09/2024	*05/10/2024 21:06*	
Surrogate: Nitrobenzene-d5	*63.4 %*		*30 - 130*		BE40901	05/09/2024	*05/10/2024 21:06*	
Surrogate: 2-Fluorobiphenyl	*73.2 %*		*30 - 130*		BE40901	05/09/2024	*05/10/2024 21:06*	
Surrogate: 2,4,6-Tribromophenol	*105 %*		*15 - 110*		BE40901	05/09/2024	*05/10/2024 21:06*	
Surrogate: Terphenyl-d14	*88.2 %*		*30 - 130*		BE40901	05/09/2024	*05/10/2024 21:06*	

Volatile Organics **Analyst: ACS**

Method: EPA 8260D **Matrix: Water**

Analyte	Result (ug/L)	RL (ug/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Dichlorodifluoromethane	ND	10	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	RP*C2*I
Chloromethane	ND	2.7	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	RP*C2*I
Vinyl Chloride	ND	1.6	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	*C2*I
Bromomethane	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	*C2*I
Chloroethane	ND	5.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	*C2
Trichlorofluoromethane	ND	25	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	*C2
Acetone	ND	50	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
Acrylonitrile	ND	0.50	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
Trichlorotrifluoroethane	ND	25	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	*C2
1,1-Dichloroethene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
Methylene Chloride	ND	5.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	RP
Carbon Disulfide	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	*C2
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
trans-1,2-Dichloroethene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
1,1-Dichloroethane	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
2-Butanone (MEK)	ND	25	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	*F1RP
2,2-Dichloropropane	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
cis-1,2-Dichloroethene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
Bromochloromethane	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
Chloroform	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
Tetrahydrofuran	ND	4.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
1,1,1-Trichloroethane	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
Carbon Tetrachloride	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	

Client Sample ID MW-1

Lab ID: 24E0277-01

Volatile Organics **Analyst: ACS**

Method: EPA 8260D **Matrix: Water**

Analyte	Result (ug/L)	RL (ug/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
1,1-Dichloropropene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
Benzene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
1,2-Dichloroethane	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
Trichloroethene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
1,2-Dichloropropane	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
Dibromomethane	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
Bromodichloromethane	ND	0.50	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
Methyl Isobutyl Ketone	ND	25	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
cis-1,3-Dichloropropene	ND	0.50	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
Toluene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
trans-1,3-Dichloropropene	ND	0.50	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
2-Hexanone	ND	25	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
1,1,2-Trichloroethane	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
Tetrachloroethene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
1,3-Dichloropropane	ND	0.50	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
Dibromochloromethane	ND	0.50	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
1,2-Dibromoethane	ND	0.50	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
trans-1,4-Dichloro-2-Butene	ND	10	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
Chlorobenzene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
1,1,1,2-Tetrachloroethane	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
Ethylbenzene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
m+p Xylenes	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
o-Xylene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
Styrene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
Bromoform	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
Isopropylbenzene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
1,1,2,2-Tetrachloroethane	ND	0.50	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
Bromobenzene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
1,2,3-Trichloropropane	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
n-Propylbenzene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
2-Chlorotoluene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
4-Chlorotoluene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
1,3,5-Trimethylbenzene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
tert-Butylbenzene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
1,2,4-Trimethylbenzene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
sec-Butylbenzene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
1,3-Dichlorobenzene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	

Client Sample ID MW-1

Lab ID: 24E0277-01

Volatile Organics **Analyst: ACS**

Method: EPA 8260D **Matrix: Water**

Analyte	Result (ug/L)	RL (ug/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
4-Isopropyltoluene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
1,4-Dichlorobenzene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
1,2-Dichlorobenzene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
n-Butylbenzene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
1,2-Dibromo-3-Chloropropane	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
1,2,4-Trichlorobenzene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
Hexachlorobutadiene	ND	0.45	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
Naphthalene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
1,2,3-Trichlorobenzene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:19	
Surrogate: 1,2-Dichloroethane-d4	*101 %*		*70 - 130*		BE41443	05/15/2024	*05/15/2024 03:19*	
Surrogate: Toluene-d8	*97.8 %*		*70 - 130*		BE41443	05/15/2024	*05/15/2024 03:19*	
Surrogate: 4-Bromofluorobenzene	*98.6 %*		*70 - 130*		BE41443	05/15/2024	*05/15/2024 03:19*	

Client Sample ID TB-050824

Lab ID: 24E0277-02

Volatile Organics **Analyst: ACS**

Method: EPA 8260D **Matrix: Water**

Analyte	Result (ug/L)	RL (ug/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Dichlorodifluoromethane	ND	10	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	RP*C2*I
Chloromethane	ND	2.7	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	RP*C2*I
Vinyl Chloride	ND	1.6	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	*C2*I
Bromomethane	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	*C2*I
Chloroethane	ND	5.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	*C2
Trichlorofluoromethane	ND	25	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	*C2
Acetone	ND	50	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
Acrylonitrile	ND	0.50	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
Trichlorotrifluoroethane	ND	25	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	*C2
1,1-Dichloroethene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
Methylene Chloride	ND	5.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	RP
Carbon Disulfide	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	*C2
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
trans-1,2-Dichloroethene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
1,1-Dichloroethane	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
2-Butanone (MEK)	ND	25	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	*F1RP
2,2-Dichloropropane	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
cis-1,2-Dichloroethene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
Bromochloromethane	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
Chloroform	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
Tetrahydrofuran	ND	4.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
1,1,1-Trichloroethane	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
Carbon Tetrachloride	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
1,1-Dichloropropene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
Benzene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
1,2-Dichloroethane	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
Trichloroethene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
1,2-Dichloropropane	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
Dibromomethane	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
Bromodichloromethane	ND	0.50	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
Methyl Isobutyl Ketone	ND	25	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
cis-1,3-Dichloropropene	ND	0.50	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
Toluene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
trans-1,3-Dichloropropene	ND	0.50	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
2-Hexanone	ND	25	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
1,1,2-Trichloroethane	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
Tetrachloroethene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	

Client Sample ID TB-050824

Lab ID: 24E0277-02

Volatile Organics **Analyst: ACS**

Method: EPA 8260D **Matrix: Water**

Analyte	Result (ug/L)	RL (ug/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
1,3-Dichloropropane	ND	0.50	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
Dibromochloromethane	ND	0.50	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
1,2-Dibromoethane	ND	0.50	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
trans-1,4-Dichloro-2-Butene	ND	10	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
Chlorobenzene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
1,1,1,2-Tetrachloroethane	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
Ethylbenzene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
m+p Xylenes	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
o-Xylene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
Styrene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
Bromoform	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
Isopropylbenzene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
1,1,2,2-Tetrachloroethane	ND	0.50	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
Bromobenzene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
1,2,3-Trichloropropane	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
n-Propylbenzene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
2-Chlorotoluene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
4-Chlorotoluene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
1,3,5-Trimethylbenzene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
tert-Butylbenzene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
1,2,4-Trimethylbenzene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
sec-Butylbenzene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
1,3-Dichlorobenzene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
4-Isopropyltoluene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
1,4-Dichlorobenzene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
1,2-Dichlorobenzene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
n-Butylbenzene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
1,2-Dibromo-3-Chloropropane	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
1,2,4-Trichlorobenzene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
Hexachlorobutadiene	ND	0.45	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
Naphthalene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
1,2,3-Trichlorobenzene	ND	1.0	1	EPA 5030C	BE41443	05/15/2024	05/15/2024 03:44	
Surrogate: 1,2-Dichloroethane-d4	*97.4 %*		*70 - 130*		BE41443	05/15/2024	*05/15/2024 03:44*	
Surrogate: Toluene-d8	*101 %*		*70 - 130*		BE41443	05/15/2024	*05/15/2024 03:44*	
Surrogate: 4-Bromofluorobenzene	*98.5 %*		*70 - 130*		BE41443	05/15/2024	*05/15/2024 03:44*	

QUALITY CONTROL SECTION

Batch BE40901 - EPA 8270E

Analyte	Result (ug/L)	RL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (BE40901-BLK1)					Prepared: 5/9/2024 Analyzed: 5/10/2024				
1,3-Dichlorobenzene	ND	4.0							
n-Nitroso-di-n-propylamine	ND	4.0							
n-Nitroso-dimethylamine	ND	4.0							
bis(2-Chloroethyl)ether	ND	4.0							
1,4-Dichlorobenzene	ND	4.0							
1,2-Dichlorobenzene	ND	4.0							
bis(2-Chloroisopropyl)ether	ND	4.0							
Hexachloroethane	ND	3.0							
Naphthalene	ND	1.0							
Hexachlorobutadiene	ND	4.0							
Nitrobenzene	ND	4.0							
Isophorone	ND	4.0							
bis(2-Chloroethoxy)methane	ND	4.0							
1,2,4-Trichlorobenzene	ND	4.0							
1,2,4,5-Tetrachlorobenzene	ND	4.0							
2-Methyl Naphthalene	ND	2.0							
Acenaphthene	ND	2.0							
Dibenzofuran	ND	4.0							
2,4-Dinitrophenol	ND	8.0							
2-Chloronaphthalene	ND	4.0							
2-Nitroaniline	ND	4.0							
2,6-Dinitrotoluene	ND	4.0							
2,4-Dinitrotoluene	ND	4.0							
2,3,4,6-Tetrachlorophenol	ND	4.0							
Anthracene	ND	2.0							
Carbazole	ND	1.0							
Fluoranthene	ND	2.0							
3-Nitroaniline	ND	4.0							
4,6-Dinitro-2-methylphenol	ND	8.0							
1,2-Diphenylhydrazine	ND	4.0							
4-Bromophenyl-phenylether	ND	4.0							
Benzo[a]anthracene	ND	2.0							
Chrysene	ND	2.0							
3,3-Dichlorobenzidine	ND	4.0							
bis(2-Ethylhexyl)phthalate	ND	2.0							
Di-n-octylphthalate	ND	4.0							
Benzo[b]fluoranthene	ND	2.0							
Benzo[k]fluoranthene	ND	2.0							
Surrogate: 2-Fluorophenol					*44.6*	*15 - 110*			
Surrogate: Phenol-d6					*30.0*	*15 - 110*			
Surrogate: Nitrobenzene-d5					*79.2*	*30 - 130*			
Surrogate: 2-Fluorobiphenyl					*88.3*	*30 - 130*			
Surrogate: 2,4,6-Tribromophenol					*109*	*15 - 110*			
Surrogate: Terphenyl-d14					*115*	*30 - 130*			
LCS (BE40901-BS1)					Prepared: 5/9/2024 Analyzed: 5/10/2024				
1,3-Dichlorobenzene	24.7	4.0	30.000		82.3	40 - 140			
n-Nitroso-di-n-propylamine	26.8	4.0	30.000		89.3	40 - 140			
n-Nitroso-dimethylamine	15.3	4.0	30.000		51.1	40 - 140			

Analyte	Result (ug/L)	RL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
LCS (BE40901-BS1) - Continued					Prepared: 5/9/2024 Analyzed: 5/10/2024				
bis(2-Chloroethyl)ether	26.5	4.0	30.000		88.3	40 - 140			
1,4-Dichlorobenzene	24.4	4.0	30.000		81.2	40 - 140			
1,2-Dichlorobenzene	25.3	4.0	30.000		84.2	40 - 140			
bis(2-Chloroisopropyl)ether	24.8	4.0	30.000		82.7	40 - 140			
Hexachloroethane	26.1	3.0	30.000		87.0	40 - 140			
Naphthalene	24.6	1.0	30.000		82.0	40 - 140			
Hexachlorobutadiene	27.2	4.0	30.000		90.6	40 - 140			
Nitrobenzene	25.9	4.0	30.000		86.3	40 - 140			
Isophorone	27.3	4.0	30.000		90.9	40 - 140			
bis(2-Chloroethoxy)methane	27.5	4.0	30.000		91.7	40 - 140			
1,2,4-Trichlorobenzene	25.7	4.0	30.000		85.5	40 - 140			
1,2,4,5-Tetrachlorobenzene	25.8	4.0	30.000		86.0	40 - 140			
2-Methyl Naphthalene	25.5	2.0	30.000		84.9	40 - 140			
Acenaphthene	26.9	2.0	30.000		89.5	40 - 140			
Dibenzofuran	27.5	4.0	30.000		91.7	40 - 140			
2,4-Dinitrophenol	23.6	8.0	30.000		78.8	30 - 130			
2-Chloronaphthalene	26.0	4.0	30.000		86.5	40 - 140			
2-Nitroaniline	28.9	4.0	30.000		96.5	40 - 140			
2,6-Dinitrotoluene	28.7	4.0	30.000		95.7	40 - 140			
2,4-Dinitrotoluene	29.7	4.0	30.000		98.8	40 - 140			
2,3,4,6-Tetrachlorophenol	30.4	4.0	30.000		101	30 - 130			
Anthracene	27.2	2.0	30.000		90.8	40 - 140			
Carbazole	24.8	1.0	30.000		82.7	40 - 140			
Fluoranthene	31.2	2.0	30.000		104	40 - 140			
3-Nitroaniline	27.0	4.0	30.000		90.0	40 - 140			
4,6-Dinitro-2-methylphenol	22.1	8.0	30.000		73.7	30 - 130			
1,2-Diphenylhydrazine	25.3	4.0	30.000		84.2	40 - 140			
4-Bromophenyl-phenylether	26.2	4.0	30.000		87.4	40 - 140			
Benzo[a]anthracene	32.9	2.0	30.000		110	40 - 140			
Chrysene	31.6	2.0	30.000		105	40 - 140			
3,3-Dichlorobenzidine	31.1	4.0	30.000		104	40 - 140			
bis(2-Ethylhexyl)phthalate	32.1	2.0	30.000		107	40 - 140			
Di-n-octylphthalate	30.4	4.0	30.000		101	40 - 140			
Benzo[b]fluoranthene	28.2	2.0	30.000		94.1	40 - 140			
Benzo[k]fluoranthene	32.0	2.0	30.000		107	40 - 140			
Surrogate: 2-Fluorophenol					*54.0*	*15 - 110*			
Surrogate: Phenol-d6					*34.9*	*15 - 110*			
Surrogate: Nitrobenzene-d5					*95.1*	*30 - 130*			
Surrogate: 2-Fluorobiphenyl					*97.0*	*30 - 130*			
Surrogate: 2,4,6-Tribromophenol					*107*	*15 - 110*			
Surrogate: Terphenyl-d14					*96.7*	*30 - 130*			
LCS Dup (BE40901-BSD1)					Prepared: 5/9/2024 Analyzed: 5/10/2024				
1,3-Dichlorobenzene	23.1	4.0	30.000		76.9	40 - 140	6.87	20	
n-Nitroso-di-n-propylamine	25.2	4.0	30.000		84.1	40 - 140	6.04	20	
n-Nitroso-dimethylamine	14.6	4.0	30.000		48.5	40 - 140	5.29	20	
bis(2-Chloroethyl)ether	23.9	4.0	30.000		79.8	40 - 140	10.1	20	
1,4-Dichlorobenzene	23.0	4.0	30.000		76.8	40 - 140	5.61	20	
1,2-Dichlorobenzene	23.4	4.0	30.000		78.0	40 - 140	7.65	20	
bis(2-Chloroisopropyl)ether	22.6	4.0	30.000		75.4	40 - 140	9.19	20	
Hexachloroethane	23.6	3.0	30.000		78.5	40 - 140	10.2	20	
Naphthalene	24.3	1.0	30.000		81.0	40 - 140	1.15	20	
Hexachlorobutadiene	25.9	4.0	30.000		86.4	40 - 140	4.78	20	

Analyte	Result (ug/L)	RL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
LCS Dup (BE40901-BSD1) - Continued					Prepared: 5/9/2024 Analyzed: 5/10/2024				
Nitrobenzene	25.2	4.0	30.000		83.9	40 - 140	2.82	20	
Isophorone	27.2	4.0	30.000		90.6	40 - 140	0.294	20	
bis(2-Chloroethoxy)methane	27.7	4.0	30.000		92.2	40 - 140	0.580	20	
1,2,4-Trichlorobenzene	25.4	4.0	30.000		84.6	40 - 140	1.06	20	
1,2,4,5-Tetrachlorobenzene	25.3	4.0	30.000		84.3	40 - 140	2.00	20	
2-Methyl Naphthalene	25.4	2.0	30.000		84.7	40 - 140	0.236	20	
Acenaphthene	26.8	2.0	30.000		89.2	40 - 140	0.410	20	
Dibenzofuran	26.6	4.0	30.000		88.8	40 - 140	3.21	20	
2,4-Dinitrophenol	23.1	8.0	30.000		76.8	30 - 130	2.49	20	
2-Chloronaphthalene	25.5	4.0	30.000		84.9	40 - 140	1.87	20	
2-Nitroaniline	29.1	4.0	30.000		96.9	40 - 140	0.483	20	
2,6-Dinitrotoluene	29.3	4.0	30.000		97.7	40 - 140	2.14	20	
2,4-Dinitrotoluene	28.8	4.0	30.000		96.0	40 - 140	2.91	20	
2,3,4,6-Tetrachlorophenol	30.0	4.0	30.000		99.8	30 - 130	1.33	20	
Anthracene	26.8	2.0	30.000		89.4	40 - 140	1.55	20	
Carbazole	22.6	1.0	30.000		75.3	40 - 140	9.41	20	
Fluoranthene	30.1	2.0	30.000		100	40 - 140	3.65	20	
3-Nitroaniline	29.3	4.0	30.000		97.7	40 - 140	8.20	20	
4,6-Dinitro-2-methylphenol	24.1	8.0	30.000		80.3	30 - 130	8.57	20	
1,2-Diphenylhydrazine	24.6	4.0	30.000		82.0	40 - 140	2.65	20	
4-Bromophenyl-phenylether	26.1	4.0	30.000		86.9	40 - 140	0.574	20	
Benzo[a]anthracene	32.9	2.0	30.000		110	40 - 140	0.0304	20	
Chrysene	31.9	2.0	30.000		106	40 - 140	0.945	20	
3,3-Dichlorobenzidine	31.9	4.0	30.000		106	40 - 140	2.60	20	
bis(2-Ethylhexyl)phthalate	34.1	2.0	30.000		114	40 - 140	6.02	20	
Di-n-octylphthalate	31.7	4.0	30.000		106	40 - 140	4.19	20	
Benzo[b]fluoranthene	29.1	2.0	30.000		96.9	40 - 140	3.00	20	
Benzo[k]fluoranthene	31.6	2.0	30.000		105	40 - 140	1.38	20	
Surrogate: 2-Fluorophenol					*48.0*	*15 - 110*			
Surrogate: Phenol-d6					*32.5*	*15 - 110*			
Surrogate: Nitrobenzene-d5					*94.9*	*30 - 130*			
Surrogate: 2-Fluorobiphenyl					*96.5*	*30 - 130*			
Surrogate: 2,4,6-Tribromophenol					*111*	*15 - 110*			**H**
Surrogate: Terphenyl-d14					*98.9*	*30 - 130*			

Batch BE41443 - EPA 8260D

Analyte	Result (ug/L)	RL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (BE41443-BLK1)					Prepared: 5/15/2024 Analyzed: 5/15/2024				
Dichlorodifluoromethane	ND	10							
Chloromethane	ND	2.7							
Vinyl Chloride	ND	1.6							
Bromomethane	ND	1.0							
Chloroethane	ND	5.0							
Trichlorofluoromethane	ND	25							
Acetone	ND	50							
Acrylonitrile	ND	0.50							
Trichlorotrifluoroethane	ND	25							
1,1-Dichloroethene	ND	1.0							
Methylene Chloride	ND	5.0							
Carbon Disulfide	ND	1.0							
Methyl-t-Butyl Ether (MTBE)	ND	5.0							
trans-1,2-Dichloroethene	ND	1.0							
1,1-Dichloroethane	ND	1.0							
2-Butanone (MEK)	ND	25							
2,2-Dichloropropane	ND	1.0							
cis-1,2-Dichloroethene	ND	1.0							
Bromochloromethane	ND	1.0							
Chloroform	ND	1.0							
Tetrahydrofuran	ND	4.0							
1,1,1-Trichloroethane	ND	1.0							
Carbon Tetrachloride	ND	1.0							
1,1-Dichloropropene	ND	1.0							
Benzene	ND	1.0							
1,2-Dichloroethane	ND	1.0							
Trichloroethene	ND	1.0							
1,2-Dichloropropane	ND	1.0							
Dibromomethane	ND	1.0							
Bromodichloromethane	ND	0.50							
Methyl Isobutyl Ketone	ND	25							
cis-1,3-Dichloropropene	ND	0.50							
Toluene	ND	1.0							
trans-1,3-Dichloropropene	ND	0.50							
2-Hexanone	ND	25							
1,1,2-Trichloroethane	ND	1.0							
Tetrachloroethene	ND	1.0							
1,3-Dichloropropane	ND	0.50							
Dibromochloromethane	ND	0.50							
1,2-Dibromoethane	ND	0.50							
trans-1,4-Dichloro-2-Butene	ND	10							
Chlorobenzene	ND	1.0							
1,1,1,2-Tetrachloroethane	ND	1.0							
Ethylbenzene	ND	1.0							
m+p Xylenes	ND	1.0							
o-Xylene	ND	1.0							
Styrene	ND	1.0							
Bromoform	ND	1.0							
Isopropylbenzene	ND	1.0							
1,1,2,2-Tetrachloroethane	ND	0.50							
Bromobenzene	ND	1.0							
1,2,3-Trichloropropane	ND	1.0							

Analyte	Result (ug/L)	RL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (BE41443-BLK1) - Continued					Prepared: 5/15/2024 Analyzed: 5/15/2024				
n-Propylbenzene	ND	1.0							
2-Chlorotoluene	ND	1.0							
4-Chlorotoluene	ND	1.0							
1,3,5-Trimethylbenzene	ND	1.0							
tert-Butylbenzene	ND	1.0							
1,2,4-Trimethylbenzene	ND	1.0							
sec-Butylbenzene	ND	1.0							
1,3-Dichlorobenzene	ND	1.0							
4-Isopropyltoluene	ND	1.0							
1,4-Dichlorobenzene	ND	1.0							
1,2-Dichlorobenzene	ND	1.0							
n-Butylbenzene	ND	1.0							
1,2-Dibromo-3-Chloropropane	ND	1.0							
1,2,4-Trichlorobenzene	ND	1.0							
Hexachlorobutadiene	ND	0.45							
Naphthalene	ND	1.0							
1,2,3-Trichlorobenzene	ND	1.0							
Surrogate: 1,2-Dichloroethane-d4					*96.7*	*70 - 130*			
Surrogate: Toluene-d8					*97.9*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene					*98.5*	*70 - 130*			
LCS (BE41443-BS1)					Prepared: 5/14/2024 Analyzed: 5/14/2024				
Dichlorodifluoromethane	61.0	10	50.000		122	70 - 130			
Chloromethane	56.6	2.7	50.000		113	70 - 130			
Vinyl Chloride	54.3	1.6	50.000		109	70 - 130			
Bromomethane	50.5	1.0	50.000		101	70 - 130			
Chloroethane	49.9	5.0	50.000		99.7	70 - 130			
Trichlorofluoromethane	50.3	25	50.000		101	70 - 130			
Acetone	98.9	50	100.000		98.9	70 - 130			
Acrylonitrile	48.0	0.50	50.000		96.0	70 - 130			
Trichlorotrifluoroethane	52.0	25	50.000		104	70 - 130			
1,1-Dichloroethene	48.8	1.0	50.000		97.6	70 - 130			
Methylene Chloride	53.3	5.0	50.000		107	70 - 130			
Carbon Disulfide	47.4	1.0	50.000		94.9	70 - 130			
Methyl-t-Butyl Ether (MTBE)	50.0	5.0	50.000		99.9	70 - 130			
trans-1,2-Dichloroethene	49.1	1.0	50.000		98.1	70 - 130			
1,1-Dichloroethane	50.5	1.0	50.000		101	70 - 130			
2-Butanone (MEK)	54.7	25	100.000		**54.7**	70 - 130			**L**
2,2-Dichloropropane	46.6	1.0	50.000		93.1	70 - 130			
cis-1,2-Dichloroethene	50.5	1.0	50.000		101	70 - 130			
Bromochloromethane	47.2	1.0	50.000		94.4	70 - 130			
Chloroform	52.8	1.0	50.000		106	70 - 130			
Tetrahydrofuran	44.8	4.0	50.000		89.5	70 - 130			
1,1,1-Trichloroethane	50.7	1.0	50.000		101	70 - 130			
Carbon Tetrachloride	51.8	1.0	50.000		104	70 - 130			
1,1-Dichloropropene	52.1	1.0	50.000		104	70 - 130			
Benzene	47.5	1.0	50.000		95.0	70 - 130			
1,2-Dichloroethane	53.9	1.0	50.000		108	70 - 130			
Trichloroethene	47.9	1.0	50.000		95.7	70 - 130			
1,2-Dichloropropane	49.6	1.0	50.000		99.2	70 - 130			
Dibromomethane	54.3	1.0	50.000		109	70 - 130			
Bromodichloromethane	47.9	0.50	50.000		95.9	70 - 130			
Methyl Isobutyl Ketone	98.9	25	100.000		98.9	70 - 130			

Analyte	Result (ug/L)	RL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
LCS (BE41443-BS1) - Continued					Prepared: 5/14/2024 Analyzed: 5/14/2024				
cis-1,3-Dichloropropene	51.4	0.50	50.000		103	70 - 130			
Toluene	48.3	1.0	50.000		96.5	70 - 130			
trans-1,3-Dichloropropene	50.3	0.50	50.000		101	70 - 130			
2-Hexanone	97.7	25	100.000		97.7	70 - 130			
1,1,2-Trichloroethane	53.7	1.0	50.000		107	70 - 130			
Tetrachloroethene	47.1	1.0	50.000		94.1	70 - 130			
1,3-Dichloropropane	50.3	0.50	50.000		101	70 - 130			
Dibromochloromethane	50.4	0.50	50.000		101	70 - 130			
1,2-Dibromoethane	51.6	0.50	50.000		103	70 - 130			
trans-1,4-Dichloro-2-Butene	56.4	10	50.000		113	70 - 130			
Chlorobenzene	51.0	1.0	50.000		102	70 - 130			
1,1,1,2-Tetrachloroethane	54.7	1.0	50.000		109	70 - 130			
Ethylbenzene	52.3	1.0	50.000		105	70 - 130			
m+p Xylenes	101	1.0	100.000		101	70 - 130			
o-Xylene	49.7	1.0	50.000		99.4	70 - 130			
Styrene	49.3	1.0	50.000		98.5	70 - 130			
Bromoform	48.3	1.0	50.000		96.7	70 - 130			
Isopropylbenzene	51.1	1.0	50.000		102	70 - 130			
1,1,2,2-Tetrachloroethane	49.7	0.50	50.000		99.3	70 - 130			
Bromobenzene	53.3	1.0	50.000		107	70 - 130			
1,2,3-Trichloropropane	56.7	1.0	50.000		113	70 - 130			
n-Propylbenzene	51.3	1.0	50.000		103	70 - 130			
2-Chlorotoluene	49.6	1.0	50.000		99.2	70 - 130			
4-Chlorotoluene	52.2	1.0	50.000		104	70 - 130			
1,3,5-Trimethylbenzene	51.4	1.0	50.000		103	70 - 130			
tert-Butylbenzene	50.6	1.0	50.000		101	70 - 130			
1,2,4-Trimethylbenzene	52.4	1.0	50.000		105	70 - 130			
sec-Butylbenzene	51.7	1.0	50.000		103	70 - 130			
1,3-Dichlorobenzene	51.3	1.0	50.000		103	70 - 130			
4-Isopropyltoluene	49.8	1.0	50.000		99.5	70 - 130			
1,4-Dichlorobenzene	50.5	1.0	50.000		101	70 - 130			
1,2-Dichlorobenzene	50.8	1.0	50.000		102	70 - 130			
n-Butylbenzene	51.5	1.0	50.000		103	70 - 130			
1,2-Dibromo-3-Chloropropane	53.5	1.0	50.000		107	70 - 130			
1,2,4-Trichlorobenzene	52.3	1.0	50.000		105	70 - 130			
Hexachlorobutadiene	51.4	0.45	50.000		103	70 - 130			
Naphthalene	48.9	1.0	50.000		97.8	70 - 130			
1,2,3-Trichlorobenzene	51.3	1.0	50.000		103	70 - 130			
Surrogate: 1,2-Dichloroethane-d4					*101*	*70 - 130*			
Surrogate: Toluene-d8					*99.1*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene					*99.2*	*70 - 130*			
LCS Dup (BE41443-BSD1)					Prepared: 5/14/2024 Analyzed: 5/14/2024				
Dichlorodifluoromethane	34.9	10	50.000		69.8	70 - 130	**54.5**	30	**L**
Chloromethane	37.7	2.7	50.000		75.4	70 - 130	**40.1**	30	**D**
Vinyl Chloride	43.5	1.6	50.000		87.1	70 - 130	22.0	30	
Bromomethane	47.2	1.0	50.000		94.3	70 - 130	6.86	30	
Chloroethane	42.3	5.0	50.000		84.6	70 - 130	16.4	30	
Trichlorofluoromethane	43.1	25	50.000		86.2	70 - 130	15.4	30	
Acetone	89.1	50	100.000		89.1	70 - 130	10.4	30	
Acrylonitrile	44.6	0.50	50.000		89.3	70 - 130	7.21	30	
Trichlorotrifluoroethane	45.4	25	50.000		90.8	70 - 130	13.7	30	
1,1-Dichloroethene	41.8	1.0	50.000		83.6	70 - 130	15.5	30	

Analyte	Result (ug/L)	RL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
LCS Dup (BE41443-BSD1) - Continued					Prepared: 5/14/2024 Analyzed: 5/14/2024				
Methylene Chloride	26.7	5.0	50.000		53.4	70 - 130	**66.5**	30	**L**
Carbon Disulfide	39.2	1.0	50.000		78.4	70 - 130	19.0	30	
Methyl-t-Butyl Ether (MTBE)	43.4	5.0	50.000		86.8	70 - 130	14.1	30	
trans-1,2-Dichloroethene	43.1	1.0	50.000		86.2	70 - 130	12.9	30	
1,1-Dichloroethane	44.6	1.0	50.000		89.2	70 - 130	12.4	30	
2-Butanone (MEK)	91.6	25	100.000		91.6	70 - 130	**50.4**	30	**D**
2,2-Dichloropropane	39.6	1.0	50.000		79.3	70 - 130	16.1	30	
cis-1,2-Dichloroethene	44.4	1.0	50.000		88.7	70 - 130	12.9	30	
Bromochloromethane	41.9	1.0	50.000		83.9	70 - 130	11.8	30	
Chloroform	46.9	1.0	50.000		93.8	70 - 130	11.9	30	
Tetrahydrofuran	41.2	4.0	50.000		82.3	70 - 130	8.38	30	
1,1,1-Trichloroethane	46.0	1.0	50.000		92.0	70 - 130	9.72	30	
Carbon Tetrachloride	45.1	1.0	50.000		90.1	70 - 130	13.9	30	
1,1-Dichloropropene	47.2	1.0	50.000		94.4	70 - 130	9.75	30	
Benzene	43.9	1.0	50.000		87.8	70 - 130	7.86	30	
1,2-Dichloroethane	46.6	1.0	50.000		93.1	70 - 130	14.6	30	
Trichloroethene	44.2	1.0	50.000		88.4	70 - 130	7.95	30	
1,2-Dichloropropane	47.1	1.0	50.000		94.1	70 - 130	5.28	30	
Dibromomethane	47.2	1.0	50.000		94.4	70 - 130	14.0	30	
Bromodichloromethane	43.8	0.50	50.000		87.7	70 - 130	8.93	30	
Methyl Isobutyl Ketone	88.0	25	100.000		88.0	70 - 130	11.7	30	
cis-1,3-Dichloropropene	46.3	0.50	50.000		92.6	70 - 130	10.3	30	
Toluene	44.4	1.0	50.000		88.8	70 - 130	8.27	30	
trans-1,3-Dichloropropene	45.1	0.50	50.000		90.2	70 - 130	10.9	30	
2-Hexanone	88.1	25	100.000		88.1	70 - 130	10.3	30	
1,1,2-Trichloroethane	45.1	1.0	50.000		90.2	70 - 130	17.4	30	
Tetrachloroethene	44.8	1.0	50.000		89.7	70 - 130	4.87	30	
1,3-Dichloropropane	45.8	0.50	50.000		91.5	70 - 130	9.53	30	
Dibromochloromethane	46.1	0.50	50.000		92.1	70 - 130	9.10	30	
1,2-Dibromoethane	45.4	0.50	50.000		90.8	70 - 130	12.7	30	
trans-1,4-Dichloro-2-Butene	48.1	10	50.000		96.1	70 - 130	16.0	30	
Chlorobenzene	46.0	1.0	50.000		91.9	70 - 130	10.5	30	
1,1,1,2-Tetrachloroethane	48.1	1.0	50.000		96.2	70 - 130	12.9	30	
Ethylbenzene	46.3	1.0	50.000		92.6	70 - 130	12.2	30	
m+p Xylenes	91.3	1.0	100.000		91.3	70 - 130	9.98	30	
o-Xylene	46.5	1.0	50.000		92.9	70 - 130	6.70	30	
Styrene	45.0	1.0	50.000		90.0	70 - 130	8.99	30	
Bromoform	42.5	1.0	50.000		85.0	70 - 130	12.8	30	
Isopropylbenzene	47.0	1.0	50.000		94.0	70 - 130	8.28	30	
1,1,2,2-Tetrachloroethane	41.5	0.50	50.000		83.0	70 - 130	17.9	30	
Bromobenzene	48.1	1.0	50.000		96.1	70 - 130	10.4	30	
1,2,3-Trichloropropane	47.1	1.0	50.000		94.1	70 - 130	18.5	30	
n-Propylbenzene	47.0	1.0	50.000		94.0	70 - 130	8.78	30	
2-Chlorotoluene	44.3	1.0	50.000		88.7	70 - 130	11.2	30	
4-Chlorotoluene	48.2	1.0	50.000		96.4	70 - 130	7.89	30	
1,3,5-Trimethylbenzene	46.0	1.0	50.000		91.9	70 - 130	11.2	30	
tert-Butylbenzene	45.8	1.0	50.000		91.5	70 - 130	10.0	30	
1,2,4-Trimethylbenzene	46.6	1.0	50.000		93.1	70 - 130	11.9	30	
sec-Butylbenzene	47.7	1.0	50.000		95.4	70 - 130	8.03	30	
1,3-Dichlorobenzene	46.5	1.0	50.000		93.0	70 - 130	9.78	30	
4-Isopropyltoluene	45.8	1.0	50.000		91.7	70 - 130	8.22	30	
1,4-Dichlorobenzene	47.1	1.0	50.000		94.2	70 - 130	6.91	30	
1,2-Dichlorobenzene	47.0	1.0	50.000		93.9	70 - 130	7.93	30	

Analyte	Result (ug/L)	RL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
LCS Dup (BE41443-BSD1) - Continued					Prepared: 5/14/2024 Analyzed: 5/14/2024				
n-Butylbenzene	46.8	1.0	50.000		93.6	70 - 130	9.60	30	
1,2-Dibromo-3-Chloropropane	47.2	1.0	50.000		94.3	70 - 130	12.7	30	
1,2,4-Trichlorobenzene	47.8	1.0	50.000		95.5	70 - 130	9.08	30	
Hexachlorobutadiene	48.4	0.45	50.000		96.8	70 - 130	6.05	30	
Naphthalene	45.1	1.0	50.000		90.1	70 - 130	8.21	30	
1,2,3-Trichlorobenzene	46.7	1.0	50.000		93.4	70 - 130	9.35	30	
Surrogate: 1,2-Dichloroethane-d4					*100*	*70 - 130*			
Surrogate: Toluene-d8					*99.8*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene					*100*	*70 - 130*			

80 Lupes Drive
Stratford, CT 06615

COMPLETE ENVIRONMENTAL TESTING, INC.

Tel: (203) 377-9984
Fax: (203) 377-9952
email: cet1@cetlabs.com

Quality Control Definitions and Abbreviations

Internal Standard (IS)	An Analyte added to each sample or sample extract. An internal standard is used to monitor retention time, calculate relative response, and quantify analytes of interest.
Surrogate Recovery	The % recovery for non-target organic compounds that are spiked into all samples. Used to determine method performance.
Continuing Calibration	An analytical standard analyzed with each set of samples to verify initial calibration of the system.
Batch	Samples that are analyzed together with the same method, sequence and lot of reagents within the same time period.
ND	Not detected at or above the specified reporting limit.
RL	RL is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.
Dilution	Multiplier added to detection levels (MDL) and/or sample results due to interferences and/or high concentration of target compounds.
Duplicate	Result from the duplicate analysis of a sample.
Result	Amount of analyte found in a sample.
Spike Level	Amount of analyte added to a sample
Matrix Spike Result	Amount of analyte found including amount that was spiked.
Matrix Spike Dup	Amount of analyte found in duplicate spikes including amount that was spike.
Matrix Spike % Recovery	% Recovery of spiked amount in sample.
Matrix Spike Dup % Recovery	% Recovery of spiked duplicate amount in sample.
RPD	Relative percent difference between Matrix Spike and Matrix Spike Duplicate.
Blank	Method Blank that has been taken through all steps of the analysis.
LCS % Recovery	Laboratory Control Sample percent recovery. The amount of analyte recovered from a fortified sample.
Recovery Limits	A range within which specified measurements results must fall to be compliant.
CC	Calibration Verification

Flags:

- H- Recovery is above the control limits
- L- Recovery is below the control limits
- B- Compound detected in the Blank
- P- RPD of dual column results exceeds 40%
- #- Sample result too high for accurate spike recovery.

NELAP ACCREDITED TNI LABORATORY

Connecticut Laboratory Certification PH0116
Massachussets Laboratory Certification M-CT903
Pennsylvania NELAP Accreditation 68-02927

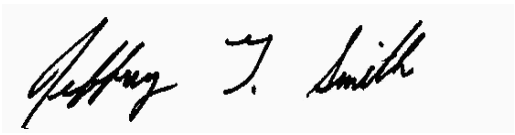
New York NELAP Accreditation 11982
Rhode Island Certification 199

All questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,

David Ditta
Laboratory Director

This technical report was reviewed by Jeffrey Smith



Project Manager

This report shall not be reproduced except in full, without the written approval of the laboratory

Report Comments:

Sample Result Flags:
E- The result is estimated, above the calibration range.
H- The surrogate recovery is above the control limits.
L- The surrogate recovery is below the control limits.
B- The compound was detected in the laboratory blank.
P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
+- The Surrogate was diluted out.
*C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
*C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
*F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
*F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
*I- Analyte exceeds method limits from second source standard in Initial Calibration Verification (ICV). No directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit
Reporting Limit (RL) is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.
All analyses were performed in house unless a Reference Laboratory is listed.
Samples will be disposed of 30 days after the report date.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 8260D in Water	
Dichlorodifluoromethane	CT
Chloromethane	CT
Vinyl Chloride	CT,NY
Bromomethane	CT,NY
Chloroethane	CT,NY
Trichlorofluoromethane	CT,NY
Acetone	CT,NY
Acrylonitrile	CT
Trichlorotrifluoroethane	CT,NY
1,1-Dichloroethene	CT,NY
Methylene Chloride	CT,NY
Carbon Disulfide	CT
Methyl-t-Butyl Ether (MTBE)	CT,NY
trans-1,2-Dichloroethene	CT,NY
1,1-Dichloroethane	CT,NY
2-Butanone (MEK)	CT,NY
2,2-Dichloropropane	CT,NY
cis-1,2-Dichloroethene	CT,NY
Bromochloromethane	CT,NY
Chloroform	CT,NY
Tetrahydrofuran	CT
1,1,1-Trichloroethane	CT,NY
Carbon Tetrachloride	CT,NY
1,1-Dichloropropene	CT,NY
Benzene	CT,NY
1,2-Dichloroethane	CT,NY
Trichloroethene	CT,NY
1,2-Dichloropropane	CT,NY
Dibromomethane	CT,NY
Bromodichloromethane	CT,NY
Methyl Isobutyl Ketone	CT,NY
cis-1,3-Dichloropropene	CT,NY
Toluene	CT,NY
trans-1,3-Dichloropropene	CT,NY
2-Hexanone	CT,NY
1,1,2-Trichloroethane	CT,NY
Tetrachloroethene	CT,NY
1,3-Dichloropropane	CT,NY
Dibromochloromethane	CT,NY
1,2-Dibromoethane	CT,NY
trans-1,4-Dichloro-2-Butene	CT,NY
Chlorobenzene	CT,NY
1,1,1,2-Tetrachloroethane	CT,NY
Ethylbenzene	CT,NY

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 8260D in Water	
m+p Xylenes	CT,NY
o-Xylene	CT,NY
Styrene	CT,NY
Bromoform	CT,NY
Isopropylbenzene	CT,NY
1,1,2,2-Tetrachloroethane	CT,NY
Bromobenzene	CT,NY
1,2,3-Trichloropropane	CT,NY
n-Propylbenzene	CT,NY
2-Chlorotoluene	CT,NY
4-Chlorotoluene	CT,NY
1,3,5-Trimethylbenzene	CT,NY
tert-Butylbenzene	CT,NY
1,2,4-Trimethylbenzene	CT,NY
sec-Butylbenzene	CT,NY
1,3-Dichlorobenzene	CT,NY
4-Isopropyltoluene	CT,NY
1,4-Dichlorobenzene	CT,NY
1,2-Dichlorobenzene	CT,NY
n-Butylbenzene	CT,NY
1,2-Dibromo-3-Chloropropane	CT,NY
1,2,4-Trichlorobenzene	CT,NY
Hexachlorobutadiene	CT,NY
Naphthalene	CT,NY
1,2,3-Trichlorobenzene	CT,NY
EPA 8270E in Water	
1,3-Dichlorobenzene	CT,NY
n-Nitroso-di-n-propylamine	CT,NY
n-Nitroso-dimethylamine	CT,NY
bis(2-Chloroethyl)ether	CT,NY
1,4-Dichlorobenzene	CT,NY
1,2-Dichlorobenzene	CT,NY
bis(2-Chloroisopropyl)ether	CT,NY
Hexachloroethane	CT,NY
Naphthalene	CT,NY
Hexachlorobutadiene	CT,NY
Nitrobenzene	CT,NY
Isophorone	CT,NY
bis(2-Chloroethoxy)methane	CT,NY
1,2,4-Trichlorobenzene	CT,NY
1,2,4,5-Tetrachlorobenzene	CT,NY
2-Methyl Naphthalene	CT,NY
Acenaphthene	CT,NY
Dibenzofuran	CT,NY

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 8270E in Water	
2,4-Dinitrophenol	CT,NY
2-Chloronaphthalene	CT,NY
2-Nitroaniline	CT,NY
2,6-Dinitrotoluene	CT,NY
2,4-Dinitrotoluene	CT,NY
2,3,4,6-Tetrachlorophenol	CT,NY
Anthracene	CT,NY
Carbazole	CT,NY
Fluoranthene	CT,NY
3-Nitroaniline	CT,NY
4,6-Dinitro-2-methylphenol	CT,NY
1,2-Diphenylhydrazine	CT
4-Bromophenyl-phenylether	CT,NY
Benzo[a]anthracene	CT,NY
Chrysene	CT,NY
3,3-Dichlorobenzidine	CT,NY
bis(2-Ethylhexyl)phthalate	CT,NY
Di-n-octylphthalate	CT,NY
Benzo[b]fluoranthene	CT,NY
Benzo[k]fluoranthene	CT,NY

Complete Environmental Testing operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Public Health	PH0116	09/30/2024
NY	New York Certification (NELAC)	11982	04/01/2024

24E0277

CHAIN OF CUSTODY

COMPLETE ENVIRONMENTAL TESTING, INC.

Volatile Soils Only:
Date and Time in Freezer
Client:
CET:

80 Lupes Drive
Stratford, CT 06615
Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cetservices@cetlabs.com
e-mail: bottleorders@cetlabs.com

Sample ID/Sample Depths (include Units for any sample depths provided)	Collection Date/Time	Matrix (A=Air, S=Soil, W=Water, DW=Drinking Water, C=Cassette, Solid, Wipe, Other (Specify))	Turnaround Time ** (check one): Same Day *	Next Day *	Two Day *	Three Day *	Standard ***	8260 CT List	8260 Aromatics	8260 Halogens	CT ETPH	8270 CT List	8270 PNAs/PAH	PCBs ☐ SOX ☐ ASE	Pesticides	Herbicides	Metals: 8 RCRA	13 Priority Poll.	15 CT DEEP	Total	SPLP	TCLP	Dissolved	Field Filter ☐ Lab Filter ☐	Additional Analysis: 8260 VOCs + TICs	8270 BNAs + TICs Acid, Neutrals	TOTAL # OF CONT.	NOTE #
MW-1	5/8/24 1325	GW					X																	X	X	3	
TB-050824	5/8/24 1200	W					X																	X		2	
PRESERVATIVE (Cl–HCl, N–HNO_3, S–H_2SO_4, Na–NaOH, C=Cool, O–Other)																								Cl C		5	
CONTAINER TYPE (P–Plastic, G–Glass, V–Vial, O–Other)																								V G			

Soil VOCs Only (M=MeOH S=Stir Bar W=Water E=Encore)

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
	5/8/24 16:06	5.8.24 16:06
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:

NOTES:

*** Standard TAT is 5-7 business days. Standard TAT for PFAS samples is 10-15 business days.

Client / Reporting Information

Company Name: GZA
Address: 35 Nutmeg Dr. Suite 325
City: Trumbull State: CT Zip: 06611
Report To: Joshua.Simpson@gza.com
E-mail:
Phone #
Tax Status: ☐ Exempt

Project Information

Project: IPEC PO #:
Location: Buchanan, NY Project #: 175222.53
CET Quote # Collector(s): SHS
QA/QC ☒ Std ☐ Site Specific (MS/MSD) * ☒ RCP Pkg ☐ DQAW
Data Report ☒ PDF ☐ EDD - Specify Format Other excel
Reporting Limits: Disposal Facility:
Laboratory Certification Needed (check one) ☐ CT ☒ NY ☐ RI ☐ MA ☐ PA
Temp Upon Receipt 5.9 °C Evidence of Cooling: (Y) N
PAGE 1 OF 1

* Additional charges apply. ** TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 1 p.m. wi start on the next business day. All samples picked up by courier service will be considered next business day receipt for TAT purposes.

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171

gel.com

May 14, 2025

Shannon Spezzano
GZA GeoEnvironmental, Inc.
35 Nutmeg Drive
Suite 325
Trumbull, Connecticut 06611

Re: Indian Point Energy Center Organics Analysis
Work Order: 722163

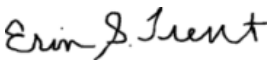
Dear Shannon Spezzano:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on May 01, 2025. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,



Erin Trent
Project Manager

Purchase Order: 65018-98000825
Enclosures

Table of Contents

Case Narrative.....1

Chain of Custody and Supporting Documentation.3

Laboratory Certifications.....6

Volatile Analysis.....8

Case Narrative.....9

Sample Data Summary.....12

Quality Control Summary.....25

Semi-Volatile Analysis.....49

Case Narrative.....50

Sample Data Summary.....54

Quality Control Summary.....61

Case Narrative

Case Narrative
for
Holtec Indian Point
SDG: 722163

May 14, 2025

Laboratory Identification:

The GEL Group, Inc.

Summary

Sample Receipt The samples arrived at The GEL Group, Inc., Charleston, South Carolina on May 01, 2025 for analysis. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

Sample Identification The laboratory received the following samples:

Laboratory ID	Client ID
722163001	MW-1
722163002	MW-57-11
722163003	MW-63-18
722163004	TB-042325

Case Narrative

Sample analyses were conducted using methodology as outlined in GEL Laboratories, LLC (GEL) Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

Data Package

The enclosed data package contains the following sections: General Narrative, Chain of Custody and Supporting Documentation, and data from the following fractions: GC/MS Semivolatile and GC/MS Volatile.

Erin J. Trent

Erin Trent
Project Manager

Chain of Custody and Supporting Documentation

Page: 1 of 1
Project #: ENTERGY GW MONITORING PROGRA
GEL Quote #: N/A
COC Number [1]: N/A
PO Number: 50013510

Chain of Custody and Analytical Request

GEL Work Order Number: 722163
GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Page 4 of 5

SDG: 722163

Client Name: HDI-IPEC Phone # 914.254.8405
Project/Site Name: INDIAN POINT ENERGY CENTER Fax # 914.254.6247
Address: 450 BROADWAY, BUCHANAN, NY 10511
Collected By: KML, JMD Send Results To: C.Garcia@holtec.com

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	HA	VOCS + MTBE	8270 Base/Neutrals								<-- Preservative Type (6)
MW-1	4/23/2025	8:40	N	N	GW	Y	N	5		X	X								3 VOAs; 2 Amber Liters
MW-57-11	4/23/2025	9:05	N	N	GW	Y	N	5		X	X								3 VOAs; 2 Amber Liters
MW-63-18	4/23/2025	11:45	N	N	GW	Y	N	5		X	X								3 VOAs; 2 Amber Liters
TB-042325	4/23/2025	6:00	N	N	GW	Y	N	3		X									3 VOAs

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Jordan Dowey	4/23/25	1410	1 Secured Storage	4/23/25	1410
2 Secured Storage	29 April 2025	0952	2	29 April 2025	0952
3	29 April 2025	0952	3	05.01.25	1030

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

TAT Requested: Normal: __X__ Rush: _____ Specify: _____

Fax Results: [ ] Yes [X] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* 4 °C

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* **- 3**, *6010B/7470A* **- 1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: JPEC	SDG/AR/COC/Work Order: 722163	GEL PM: Trent
Received By: Oreg Austin	Date Received at GEL: 5/1/25	

Carrier (Circle Applicable): FedEx Express FedEx Ground UPS Field Services Courier Client Other:

IR Temp gun # IR1-24 Daily Calibration Performed? Y N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).
880889637724	4°C				

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?	✓		Hazard Class Shipped: UN#: 2910 If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?	✓		COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?	✓		Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 20 (CPM) mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Are there any sample hazards to document?		✓	If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
E) Was a SDS received and reviewed by Lab Safety?		✓	Circle Applicable: See additional Comments below. No additional comments needed after review.

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?	✓	~~✓~~		Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures recorded next to tracking numbers are in Celcius
4	Sample containers intact and sealed?			✓	Circle Applicable: Seals broken Damaged container Leaking container Other (describe) one MW-1 bottle broken
5	Samples requiring chemical preservation at proper pH?		✓		Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added, Lot#:
6	Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)			✓	If Yes, are Encores or Soil Kits present? Yes___ No___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample IDs and containers affected:
7	Samples received within holding time?	✓			IDs and tests affected:
8	Sample IDs on COC match IDs on bottles?	✓			IDs and containers affected:
9	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?			✓	Circle Applicable: No container count on COC Missing Container (provide details) Other (describe) Missing a 1L for MW-1
11	Are sample containers identifiable as GEL provided by use of GEL labels?			✓	
12	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments:

PM (or PMA) review: Initials SH Date 5/2/25

☐ Continuation Form Required when selected

GL-CHL-SR-001 Rev 8

Laboratory Certifications

List of current GEL Certifications as of 14 May 2025

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	525-24-281-19660
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-45
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

Volatile Analysis

Case Narrative

GC/MS Volatile
Technical Case Narrative
Holtec Indian Point
SDG #: 722163

Product: **Volatile Organic Compounds (VOC) by Gas Chromatograph/Mass Spectrometer**
Analytical Method: SW846 8260D
Analytical Procedure: GL-OA-E-038 REV# 31
Analytical Batch: 2793081

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
722163001	MW-1
722163002	MW-57-11
722163003	MW-63-18
722163004	TB-042325
1206095873	Laboratory Control Sample (LCS)
1206095874	Laboratory Control Sample (LCS)
1206095875	Method Blank (MB)
1206095876	722163001(MW-1) Matrix Spike (MS)
1206095877	722163001(MW-1) Matrix Spike (MS)
1206095878	722163001(MW-1) Matrix Spike Duplicate (MSD)
1206095879	722163001(MW-1) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

Continuing Calibration Verification Requirements
All Calibration Verification Standards (CCV) did not meet the acceptance criteria as outlined in Method 8260D for samples 722163001 (MW-1), 722163002 (MW-57-11), 722163003 (MW-63-18) and 722163004 (TB-042325) and the associated QC. However, the method allows for a designated number of outliers dependent on the requested analyte list. This SDG satisfied the 8260D outlier acceptance criteria. The results are reported.

Quality Control (QC) Information

Blank (MB) Statement
Target analytes were detected in the blank 1206095875(MB) below the reporting limit. The data for samples 1206095873 (LCS), 1206095876 (MW-1MS), 1206095878 (MW-1MSD), 722163001 (MW-1), 722163002 (MW-57-11) and 722163003 (MW-63-18) were qualified and reported.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Qualifier Definition Report
for

IPEC001 Holtec Indian Point

Client SDG: 722163 GEL Work Order: 722163

The Qualifiers in this report are defined as follows:

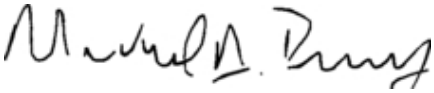
* A quality control analyte recovery is outside of specified acceptance criteria
** Analyte is a surrogate compound
B The target analyte was detected in the associated blank.
J Value is estimated
U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

DL Indicates that sample is diluted.
RA Indicates that sample is re-analyzed without re-extraction.
RE Indicates that sample is re-extracted.

Review/Validation

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this data report:

Signature:  **Name: Michael Penny**

Date: 07 MAY 2025 **Title: Analyst III**

Sample Data Summary

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 7, 2025

Company : GZA GeoEnvironmental, Inc.
Address : 35 Nutmeg Drive
Suite 325
Trumbull, Connecticut 06611
Contact: Shannon Spezzano
Project: Indian Point Energy Center Organics Analysis

Client Sample ID: MW-1
Sample ID: 722163001
Matrix: Ground Water
Collect Date: 23-APR-25 08:40
Receive Date: 01-MAY-25
Collector: Client

Project: IPEC00109
Client ID: IPEC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260 Volatiles "As Received"												
1,1,1,2-Tetrachloroethane	U	ND	0.333	1.00	ug/L		1	AXH5	05/06/25	1515	2793081	1
1,1,1-Trichloroethane	U	ND	0.333	1.00	ug/L		1					
1,1,2,2-Tetrachloroethane	U	ND	0.333	1.00	ug/L		1					
1,1,2-Trichloroethane	U	ND	0.333	1.00	ug/L		1					
1,1-Dichloroethane	U	ND	0.333	1.00	ug/L		1					
1,1-Dichloroethylene	U	ND	0.333	1.00	ug/L		1					
1,1-Dichloropropene	U	ND	0.333	1.00	ug/L		1					
1,2,3-Trichlorobenzene	U	ND	0.333	1.00	ug/L		1					
1,2,3-Trichloropropane	U	ND	0.333	1.00	ug/L		1					
1,2,4-Trichlorobenzene	U	ND	0.333	1.00	ug/L		1					
1,2,4-Trimethylbenzene	U	ND	0.333	1.00	ug/L		1					
1,2-Dibromo-3-chloropropane	U	ND	0.333	1.00	ug/L		1					
1,2-Dibromoethane	U	ND	0.333	1.00	ug/L		1					
1,2-Dichlorobenzene	U	ND	0.333	1.00	ug/L		1					
1,2-Dichloroethane	U	ND	0.333	1.00	ug/L		1					
1,2-Dichloropropane	U	ND	0.333	1.00	ug/L		1					
1,3,5-Trimethylbenzene	U	ND	0.500	2.00	ug/L		1					
1,3-Dichlorobenzene	U	ND	0.333	1.00	ug/L		1					
1,3-Dichloropropane	U	ND	0.333	1.00	ug/L		1					
1,4-Dichlorobenzene	U	ND	0.333	1.00	ug/L		1					
2,2-Dichloropropane	U	ND	0.333	1.00	ug/L		1					
2-Butanone	U	ND	1.67	5.00	ug/L		1					
2-Chlorotoluene	U	ND	0.333	1.00	ug/L		1					
2-Hexanone	U	ND	1.67	5.00	ug/L		1					
4-Chlorotoluene	U	ND	0.333	1.00	ug/L		1					
4-Isopropyltoluene	U	ND	0.333	1.00	ug/L		1					
4-Methyl-2-pentanone	U	ND	1.67	5.00	ug/L		1					
Acetone	BJ	3.34	1.74	5.00	ug/L		1					
Acrylonitrile	U	ND	1.67	5.00	ug/L		1					
Benzene	U	ND	0.333	1.00	ug/L		1					
Bromobenzene	U	ND	0.333	1.00	ug/L		1					
Bromochloromethane	U	ND	0.333	1.00	ug/L		1					
Bromodichloromethane	U	ND	0.333	1.00	ug/L		1					
Bromoform	U	ND	0.333	1.00	ug/L		1					
Bromomethane	U	ND	0.337	1.00	ug/L		1					
Carbon disulfide	U	ND	1.67	5.00	ug/L		1					

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 7, 2025

Company : GZA GeoEnvironmental, Inc.
Address : 35 Nutmeg Drive
Suite 325
Trumbull, Connecticut 06611
Contact: Shannon Spezzano
Project: Indian Point Energy Center Organics Analysis

Client Sample ID: MW-1 Project: IPEC00109
Sample ID: 722163001 Client ID: IPEC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260 Volatiles "As Received"												
Carbon tetrachloride	U	ND	0.333	1.00	ug/L		1					
Chlorobenzene	U	ND	0.333	1.00	ug/L		1					
Chloroethane	U	ND	0.333	1.00	ug/L		1					
Chloroform	U	ND	0.333	1.00	ug/L		1					
Chloromethane	U	ND	0.333	1.00	ug/L		1					
Dibromochloromethane	U	ND	0.333	1.00	ug/L		1					
Dibromomethane	U	ND	0.333	1.00	ug/L		1					
Dichlorodifluoromethane	U	ND	0.355	1.00	ug/L		1					
Ethylbenzene	U	ND	0.333	1.00	ug/L		1					
Hexachlorobutadiene	U	ND	0.333	1.00	ug/L		1					
Isopropylbenzene	U	ND	0.333	1.00	ug/L		1					
Methylene chloride	J	0.760	0.500	5.00	ug/L		1					
Naphthalene	U	ND	0.333	1.00	ug/L		1					
Styrene	U	ND	0.333	1.00	ug/L		1					
Tetrachloroethylene	U	ND	0.333	1.00	ug/L		1					
Tetrahydrofuran	U	ND	1.67	5.00	ug/L		1					
Toluene	U	ND	0.333	1.00	ug/L		1					
Trichloroethylene	U	ND	0.333	1.00	ug/L		1					
Trichlorofluoromethane	U	ND	0.333	1.00	ug/L		1					
Trichlorotrifluoroethane	U	ND	1.67	5.00	ug/L		1					
Vinyl chloride	U	ND	0.333	1.00	ug/L		1					
Xylenes (total)	U	ND	1.00	3.00	ug/L		1					
cis-1,2-Dichloroethylene	U	ND	0.333	1.00	ug/L		1					
cis-1,3-Dichloropropylene	U	ND	0.333	1.00	ug/L		1					
m,p-Xylenes	U	ND	0.500	2.00	ug/L		1					
n-Butylbenzene	U	ND	0.333	1.00	ug/L		1					
n-Propylbenzene	U	ND	0.333	1.00	ug/L		1					
o-Xylene	U	ND	0.333	1.00	ug/L		1					
sec-Butylbenzene	U	ND	0.333	1.00	ug/L		1					
tert-Butyl methyl ether	U	ND	0.333	1.00	ug/L		1					
tert-Butylbenzene	U	ND	0.333	1.00	ug/L		1					
trans-1,2-Dichloroethylene	U	ND	0.333	1.00	ug/L		1					
trans-1,3-Dichloropropylene	U	ND	0.333	1.00	ug/L		1					
trans-1,4-Dichloro-2-butene	U	ND	1.67	5.00	ug/L		1					

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 7, 2025

Company :	GZA GeoEnvironmental, Inc.
Address :	35 Nutmeg Drive Suite 325 Trumbull, Connecticut 06611
Contact:	Shannon Spezzano
Project:	Indian Point Energy Center Organics Analysis

Client Sample ID:	MW-1	Project:	IPEC00109
Sample ID:	722163001	Client ID:	IPEC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Bromofluorobenzene	SW846 8260 Volatiles "As Received"	43.9 ug/L	50.0	88	(74%-123%)
1,2-Dichloroethane-d4	SW846 8260 Volatiles "As Received"	48.8 ug/L	50.0	98	(76%-127%)
Toluene-d8	SW846 8260 Volatiles "As Received"	49.2 ug/L	50.0	98	(77%-121%)

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 7, 2025

Company :	GZA GeoEnvironmental, Inc.
Address :	35 Nutmeg Drive Suite 325 Trumbull, Connecticut 06611
Contact:	Shannon Spezzano
Project:	Indian Point Energy Center Organics Analysis

Client Sample ID:	MW-57-11	Project:	IPEC00109
Sample ID:	722163002	Client ID:	IPEC001
Matrix:	Ground Water		
Collect Date:	23-APR-25 09:05		
Receive Date:	01-MAY-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260 Volatiles "As Received"												
1,1,1,2-Tetrachloroethane	U	ND	0.333	1.00	ug/L		1	AXH5	05/06/25	1607	2793081	1
1,1,1-Trichloroethane	U	ND	0.333	1.00	ug/L		1					
1,1,2,2-Tetrachloroethane	U	ND	0.333	1.00	ug/L		1					
1,1,2-Trichloroethane	U	ND	0.333	1.00	ug/L		1					
1,1-Dichloroethane	U	ND	0.333	1.00	ug/L		1					
1,1-Dichloroethylene	U	ND	0.333	1.00	ug/L		1					
1,1-Dichloropropene	U	ND	0.333	1.00	ug/L		1					
1,2,3-Trichlorobenzene	U	ND	0.333	1.00	ug/L		1					
1,2,3-Trichloropropane	U	ND	0.333	1.00	ug/L		1					
1,2,4-Trichlorobenzene	U	ND	0.333	1.00	ug/L		1					
1,2,4-Trimethylbenzene	U	ND	0.333	1.00	ug/L		1					
1,2-Dibromo-3-chloropropane	U	ND	0.333	1.00	ug/L		1					
1,2-Dibromoethane	U	ND	0.333	1.00	ug/L		1					
1,2-Dichlorobenzene	U	ND	0.333	1.00	ug/L		1					
1,2-Dichloroethane	U	ND	0.333	1.00	ug/L		1					
1,2-Dichloropropane	U	ND	0.333	1.00	ug/L		1					
1,3,5-Trimethylbenzene	U	ND	0.500	2.00	ug/L		1					
1,3-Dichlorobenzene	U	ND	0.333	1.00	ug/L		1					
1,3-Dichloropropane	U	ND	0.333	1.00	ug/L		1					
1,4-Dichlorobenzene	U	ND	0.333	1.00	ug/L		1					
2,2-Dichloropropane	U	ND	0.333	1.00	ug/L		1					
2-Butanone	U	ND	1.67	5.00	ug/L		1					
2-Chlorotoluene	U	ND	0.333	1.00	ug/L		1					
2-Hexanone	U	ND	1.67	5.00	ug/L		1					
4-Chlorotoluene	U	ND	0.333	1.00	ug/L		1					
4-Isopropyltoluene	U	ND	0.333	1.00	ug/L		1					
4-Methyl-2-pentanone	U	ND	1.67	5.00	ug/L		1					
Acetone	BJ	2.20	1.74	5.00	ug/L		1					
Acrylonitrile	U	ND	1.67	5.00	ug/L		1					
Benzene	U	ND	0.333	1.00	ug/L		1					
Bromobenzene	U	ND	0.333	1.00	ug/L		1					
Bromochloromethane	U	ND	0.333	1.00	ug/L		1					
Bromodichloromethane	U	ND	0.333	1.00	ug/L		1					
Bromoform	U	ND	0.333	1.00	ug/L		1					
Bromomethane	U	ND	0.337	1.00	ug/L		1					
Carbon disulfide	U	ND	1.67	5.00	ug/L		1					

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 7, 2025

Company : GZA GeoEnvironmental, Inc.
Address : 35 Nutmeg Drive
Suite 325
Trumbull, Connecticut 06611
Contact: Shannon Spezzano
Project: Indian Point Energy Center Organics Analysis

Client Sample ID: MW-57-11 Project: IPEC00109
Sample ID: 722163002 Client ID: IPEC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260 Volatiles "As Received"												
Carbon tetrachloride	U	ND	0.333	1.00	ug/L		1					
Chlorobenzene	U	ND	0.333	1.00	ug/L		1					
Chloroethane	U	ND	0.333	1.00	ug/L		1					
Chloroform	J	0.910	0.333	1.00	ug/L		1					
Chloromethane	U	ND	0.333	1.00	ug/L		1					
Dibromochloromethane	U	ND	0.333	1.00	ug/L		1					
Dibromomethane	U	ND	0.333	1.00	ug/L		1					
Dichlorodifluoromethane	U	ND	0.355	1.00	ug/L		1					
Ethylbenzene	U	ND	0.333	1.00	ug/L		1					
Hexachlorobutadiene	U	ND	0.333	1.00	ug/L		1					
Isopropylbenzene	U	ND	0.333	1.00	ug/L		1					
Methylene chloride	J	1.23	0.500	5.00	ug/L		1					
Naphthalene	U	ND	0.333	1.00	ug/L		1					
Styrene	U	ND	0.333	1.00	ug/L		1					
Tetrachloroethylene	U	ND	0.333	1.00	ug/L		1					
Tetrahydrofuran	U	ND	1.67	5.00	ug/L		1					
Toluene	U	ND	0.333	1.00	ug/L		1					
Trichloroethylene	U	ND	0.333	1.00	ug/L		1					
Trichlorofluoromethane	U	ND	0.333	1.00	ug/L		1					
Trichlorotrifluoroethane	U	ND	1.67	5.00	ug/L		1					
Vinyl chloride	U	ND	0.333	1.00	ug/L		1					
Xylenes (total)	U	ND	1.00	3.00	ug/L		1					
cis-1,2-Dichloroethylene	U	ND	0.333	1.00	ug/L		1					
cis-1,3-Dichloropropylene	U	ND	0.333	1.00	ug/L		1					
m,p-Xylenes	U	ND	0.500	2.00	ug/L		1					
n-Butylbenzene	U	ND	0.333	1.00	ug/L		1					
n-Propylbenzene	U	ND	0.333	1.00	ug/L		1					
o-Xylene	U	ND	0.333	1.00	ug/L		1					
sec-Butylbenzene	U	ND	0.333	1.00	ug/L		1					
tert-Butyl methyl ether	U	ND	0.333	1.00	ug/L		1					
tert-Butylbenzene	U	ND	0.333	1.00	ug/L		1					
trans-1,2-Dichloroethylene	U	ND	0.333	1.00	ug/L		1					
trans-1,3-Dichloropropylene	U	ND	0.333	1.00	ug/L		1					
trans-1,4-Dichloro-2-butene	U	ND	1.67	5.00	ug/L		1					

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 7, 2025

Company :	GZA GeoEnvironmental, Inc.
Address :	35 Nutmeg Drive Suite 325 Trumbull, Connecticut 06611
Contact:	Shannon Spezzano
Project:	Indian Point Energy Center Organics Analysis

Client Sample ID:	MW-57-11	Project:	IPEC00109
Sample ID:	722163002	Client ID:	IPEC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Bromofluorobenzene	SW846 8260 Volatiles "As Received"	43.1 ug/L	50.0	86	(74%-123%)
1,2-Dichloroethane-d4	SW846 8260 Volatiles "As Received"	49.9 ug/L	50.0	100	(76%-127%)
Toluene-d8	SW846 8260 Volatiles "As Received"	48.8 ug/L	50.0	98	(77%-121%)

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 7, 2025

Company :	GZA GeoEnvironmental, Inc.
Address :	35 Nutmeg Drive Suite 325 Trumbull, Connecticut 06611
Contact:	Shannon Spezzano
Project:	Indian Point Energy Center Organics Analysis

Client Sample ID:	MW-63-18	Project:	IPEC00109
Sample ID:	722163003	Client ID:	IPEC001
Matrix:	Ground Water		
Collect Date:	23-APR-25 11:45		
Receive Date:	01-MAY-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260 Volatiles "As Received"												
1,1,1,2-Tetrachloroethane	U	ND	0.333	1.00	ug/L		1	AXH5	05/06/25	1633	2793081	1
1,1,1-Trichloroethane	U	ND	0.333	1.00	ug/L		1					
1,1,2,2-Tetrachloroethane	U	ND	0.333	1.00	ug/L		1					
1,1,2-Trichloroethane	U	ND	0.333	1.00	ug/L		1					
1,1-Dichloroethane	U	ND	0.333	1.00	ug/L		1					
1,1-Dichloroethylene	U	ND	0.333	1.00	ug/L		1					
1,1-Dichloropropene	U	ND	0.333	1.00	ug/L		1					
1,2,3-Trichlorobenzene	U	ND	0.333	1.00	ug/L		1					
1,2,3-Trichloropropane	U	ND	0.333	1.00	ug/L		1					
1,2,4-Trichlorobenzene	U	ND	0.333	1.00	ug/L		1					
1,2,4-Trimethylbenzene	U	ND	0.333	1.00	ug/L		1					
1,2-Dibromo-3-chloropropane	U	ND	0.333	1.00	ug/L		1					
1,2-Dibromoethane	U	ND	0.333	1.00	ug/L		1					
1,2-Dichlorobenzene	U	ND	0.333	1.00	ug/L		1					
1,2-Dichloroethane	U	ND	0.333	1.00	ug/L		1					
1,2-Dichloropropane	U	ND	0.333	1.00	ug/L		1					
1,3,5-Trimethylbenzene	U	ND	0.500	2.00	ug/L		1					
1,3-Dichlorobenzene	U	ND	0.333	1.00	ug/L		1					
1,3-Dichloropropane	U	ND	0.333	1.00	ug/L		1					
1,4-Dichlorobenzene	U	ND	0.333	1.00	ug/L		1					
2,2-Dichloropropane	U	ND	0.333	1.00	ug/L		1					
2-Butanone	U	ND	1.67	5.00	ug/L		1					
2-Chlorotoluene	U	ND	0.333	1.00	ug/L		1					
2-Hexanone	U	ND	1.67	5.00	ug/L		1					
4-Chlorotoluene	U	ND	0.333	1.00	ug/L		1					
4-Isopropyltoluene	U	ND	0.333	1.00	ug/L		1					
4-Methyl-2-pentanone	U	ND	1.67	5.00	ug/L		1					
Acetone	BJ	2.52	1.74	5.00	ug/L		1					
Acrylonitrile	U	ND	1.67	5.00	ug/L		1					
Benzene	U	ND	0.333	1.00	ug/L		1					
Bromobenzene	U	ND	0.333	1.00	ug/L		1					
Bromochloromethane	U	ND	0.333	1.00	ug/L		1					
Bromodichloromethane	U	ND	0.333	1.00	ug/L		1					
Bromoform	U	ND	0.333	1.00	ug/L		1					
Bromomethane	U	ND	0.337	1.00	ug/L		1					
Carbon disulfide	U	ND	1.67	5.00	ug/L		1					

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 7, 2025

Company : GZA GeoEnvironmental, Inc.
Address : 35 Nutmeg Drive
Suite 325
Trumbull, Connecticut 06611
Contact: Shannon Spezzano
Project: Indian Point Energy Center Organics Analysis

Client Sample ID: MW-63-18 Project: IPEC00109
Sample ID: 722163003 Client ID: IPEC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260 Volatiles "As Received"												
Carbon tetrachloride	U	ND	0.333	1.00	ug/L		1					
Chlorobenzene	U	ND	0.333	1.00	ug/L		1					
Chloroethane	U	ND	0.333	1.00	ug/L		1					
Chloroform	U	ND	0.333	1.00	ug/L		1					
Chloromethane	U	ND	0.333	1.00	ug/L		1					
Dibromochloromethane	U	ND	0.333	1.00	ug/L		1					
Dibromomethane	U	ND	0.333	1.00	ug/L		1					
Dichlorodifluoromethane	U	ND	0.355	1.00	ug/L		1					
Ethylbenzene	U	ND	0.333	1.00	ug/L		1					
Hexachlorobutadiene	U	ND	0.333	1.00	ug/L		1					
Isopropylbenzene	U	ND	0.333	1.00	ug/L		1					
Methylene chloride	J	1.21	0.500	5.00	ug/L		1					
Naphthalene	U	ND	0.333	1.00	ug/L		1					
Styrene	U	ND	0.333	1.00	ug/L		1					
Tetrachloroethylene	U	ND	0.333	1.00	ug/L		1					
Tetrahydrofuran	U	ND	1.67	5.00	ug/L		1					
Toluene	U	ND	0.333	1.00	ug/L		1					
Trichloroethylene	U	ND	0.333	1.00	ug/L		1					
Trichlorofluoromethane	U	ND	0.333	1.00	ug/L		1					
Trichlorotrifluoroethane	U	ND	1.67	5.00	ug/L		1					
Vinyl chloride	U	ND	0.333	1.00	ug/L		1					
Xylenes (total)	U	ND	1.00	3.00	ug/L		1					
cis-1,2-Dichloroethylene	U	ND	0.333	1.00	ug/L		1					
cis-1,3-Dichloropropylene	U	ND	0.333	1.00	ug/L		1					
m,p-Xylenes	U	ND	0.500	2.00	ug/L		1					
n-Butylbenzene	U	ND	0.333	1.00	ug/L		1					
n-Propylbenzene	U	ND	0.333	1.00	ug/L		1					
o-Xylene	U	ND	0.333	1.00	ug/L		1					
sec-Butylbenzene	U	ND	0.333	1.00	ug/L		1					
tert-Butyl methyl ether	U	ND	0.333	1.00	ug/L		1					
tert-Butylbenzene	U	ND	0.333	1.00	ug/L		1					
trans-1,2-Dichloroethylene	U	ND	0.333	1.00	ug/L		1					
trans-1,3-Dichloropropylene	U	ND	0.333	1.00	ug/L		1					
trans-1,4-Dichloro-2-butene	U	ND	1.67	5.00	ug/L		1					

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 7, 2025

Company :	GZA GeoEnvironmental, Inc.
Address :	35 Nutmeg Drive Suite 325 Trumbull, Connecticut 06611
Contact:	Shannon Spezzano
Project:	Indian Point Energy Center Organics Analysis

Client Sample ID:	MW-63-18	Project:	IPEC00109
Sample ID:	722163003	Client ID:	IPEC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Bromofluorobenzene	SW846 8260 Volatiles "As Received"	43.5 ug/L	50.0	87	(74%-123%)
1,2-Dichloroethane-d4	SW846 8260 Volatiles "As Received"	48.1 ug/L	50.0	96	(76%-127%)
Toluene-d8	SW846 8260 Volatiles "As Received"	49.2 ug/L	50.0	98	(77%-121%)

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 7, 2025

Company :	GZA GeoEnvironmental, Inc.
Address :	35 Nutmeg Drive Suite 325 Trumbull, Connecticut 06611
Contact:	Shannon Spezzano
Project:	Indian Point Energy Center Organics Analysis

Client Sample ID:	TB-042325	Project:	IPEC00109
Sample ID:	722163004	Client ID:	IPEC001
Matrix:	Water		
Collect Date:	23-APR-25 06:00		
Receive Date:	01-MAY-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260 Volatiles "As Received"												
1,1,1,2-Tetrachloroethane	U	ND	0.333	1.00	ug/L		1	AXH5	05/06/25	1659	2793081	1
1,1,1-Trichloroethane	U	ND	0.333	1.00	ug/L		1					
1,1,2,2-Tetrachloroethane	U	ND	0.333	1.00	ug/L		1					
1,1,2-Trichloroethane	U	ND	0.333	1.00	ug/L		1					
1,1-Dichloroethane	U	ND	0.333	1.00	ug/L		1					
1,1-Dichloroethylene	U	ND	0.333	1.00	ug/L		1					
1,1-Dichloropropene	U	ND	0.333	1.00	ug/L		1					
1,2,3-Trichlorobenzene	U	ND	0.333	1.00	ug/L		1					
1,2,3-Trichloropropane	U	ND	0.333	1.00	ug/L		1					
1,2,4-Trichlorobenzene	U	ND	0.333	1.00	ug/L		1					
1,2,4-Trimethylbenzene	U	ND	0.333	1.00	ug/L		1					
1,2-Dibromo-3-chloropropane	U	ND	0.333	1.00	ug/L		1					
1,2-Dibromoethane	U	ND	0.333	1.00	ug/L		1					
1,2-Dichlorobenzene	U	ND	0.333	1.00	ug/L		1					
1,2-Dichloroethane	U	ND	0.333	1.00	ug/L		1					
1,2-Dichloropropane	U	ND	0.333	1.00	ug/L		1					
1,3,5-Trimethylbenzene	U	ND	0.500	2.00	ug/L		1					
1,3-Dichlorobenzene	U	ND	0.333	1.00	ug/L		1					
1,3-Dichloropropane	U	ND	0.333	1.00	ug/L		1					
1,4-Dichlorobenzene	U	ND	0.333	1.00	ug/L		1					
2,2-Dichloropropane	U	ND	0.333	1.00	ug/L		1					
2-Butanone	U	ND	1.67	5.00	ug/L		1					
2-Chlorotoluene	U	ND	0.333	1.00	ug/L		1					
2-Hexanone	U	ND	1.67	5.00	ug/L		1					
4-Chlorotoluene	U	ND	0.333	1.00	ug/L		1					
4-Isopropyltoluene	U	ND	0.333	1.00	ug/L		1					
4-Methyl-2-pentanone	U	ND	1.67	5.00	ug/L		1					
Acetone	U	ND	1.74	5.00	ug/L		1					
Acrylonitrile	U	ND	1.67	5.00	ug/L		1					
Benzene	U	ND	0.333	1.00	ug/L		1					
Bromobenzene	U	ND	0.333	1.00	ug/L		1					
Bromochloromethane	U	ND	0.333	1.00	ug/L		1					
Bromodichloromethane	U	ND	0.333	1.00	ug/L		1					
Bromoform	U	ND	0.333	1.00	ug/L		1					
Bromomethane	U	ND	0.337	1.00	ug/L		1					
Carbon disulfide	U	ND	1.67	5.00	ug/L		1					

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 7, 2025

Company : GZA GeoEnvironmental, Inc.
Address : 35 Nutmeg Drive
Suite 325
Trumbull, Connecticut 06611
Contact: Shannon Spezzano
Project: Indian Point Energy Center Organics Analysis

Client Sample ID: TB-042325 Project: IPEC00109
Sample ID: 722163004 Client ID: IPEC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260 Volatiles "As Received"												
Carbon tetrachloride	U	ND	0.333	1.00	ug/L		1					
Chlorobenzene	U	ND	0.333	1.00	ug/L		1					
Chloroethane	U	ND	0.333	1.00	ug/L		1					
Chloroform	U	ND	0.333	1.00	ug/L		1					
Chloromethane	U	ND	0.333	1.00	ug/L		1					
Dibromochloromethane	U	ND	0.333	1.00	ug/L		1					
Dibromomethane	U	ND	0.333	1.00	ug/L		1					
Dichlorodifluoromethane	U	ND	0.355	1.00	ug/L		1					
Ethylbenzene	U	ND	0.333	1.00	ug/L		1					
Hexachlorobutadiene	U	ND	0.333	1.00	ug/L		1					
Isopropylbenzene	U	ND	0.333	1.00	ug/L		1					
Methylene chloride	J	1.31	0.500	5.00	ug/L		1					
Naphthalene	U	ND	0.333	1.00	ug/L		1					
Styrene	U	ND	0.333	1.00	ug/L		1					
Tetrachloroethylene	U	ND	0.333	1.00	ug/L		1					
Tetrahydrofuran	U	ND	1.67	5.00	ug/L		1					
Toluene	U	ND	0.333	1.00	ug/L		1					
Trichloroethylene	U	ND	0.333	1.00	ug/L		1					
Trichlorofluoromethane	U	ND	0.333	1.00	ug/L		1					
Trichlorotrifluoroethane	U	ND	1.67	5.00	ug/L		1					
Vinyl chloride	U	ND	0.333	1.00	ug/L		1					
Xylenes (total)	U	ND	1.00	3.00	ug/L		1					
cis-1,2-Dichloroethylene	U	ND	0.333	1.00	ug/L		1					
cis-1,3-Dichloropropylene	U	ND	0.333	1.00	ug/L		1					
m,p-Xylenes	U	ND	0.500	2.00	ug/L		1					
n-Butylbenzene	U	ND	0.333	1.00	ug/L		1					
n-Propylbenzene	U	ND	0.333	1.00	ug/L		1					
o-Xylene	U	ND	0.333	1.00	ug/L		1					
sec-Butylbenzene	U	ND	0.333	1.00	ug/L		1					
tert-Butyl methyl ether	U	ND	0.333	1.00	ug/L		1					
tert-Butylbenzene	U	ND	0.333	1.00	ug/L		1					
trans-1,2-Dichloroethylene	U	ND	0.333	1.00	ug/L		1					
trans-1,3-Dichloropropylene	U	ND	0.333	1.00	ug/L		1					
trans-1,4-Dichloro-2-butene	U	ND	1.67	5.00	ug/L		1					

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 7, 2025

Company :	GZA GeoEnvironmental, Inc.
Address :	35 Nutmeg Drive Suite 325 Trumbull, Connecticut 06611
Contact:	Shannon Spezzano
Project:	Indian Point Energy Center Organics Analysis

Client Sample ID:	TB-042325	Project:	IPEC00109
Sample ID:	722163004	Client ID:	IPEC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Bromofluorobenzene	SW846 8260 Volatiles "As Received"	43.3 ug/L	50.0	87	(74%-123%)
1,2-Dichloroethane-d4	SW846 8260 Volatiles "As Received"	48.0 ug/L	50.0	96	(76%-127%)
Toluene-d8	SW846 8260 Volatiles "As Received"	48.2 ug/L	50.0	96	(77%-121%)

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

Quality Control Summary

QC Summary

Report Date: May 7, 2025

GZA GeoEnvironmental, Inc.
35 Nutmeg Drive
Suite 325
Trumbull, Connecticut

Contact: **Shannon Spezzano**

Workorder: **722163**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch 2793081											
QC1206095873 LCS											
1,1,1,2-Tetrachloroethane	50.0			52.9	ug/L		106	(73%-122%)	AXH5	05/06/25	10:48
1,1,1-Trichloroethane	50.0			51.9	ug/L		104	(70%-130%)			
1,1,2,2-Tetrachloroethane	50.0			51.1	ug/L		102	(66%-123%)			
1,1,2-Trichloroethane	50.0			51.0	ug/L		102	(70%-120%)			
1,1-Dichloroethane	50.0			56.6	ug/L		113	(75%-126%)			
1,1-Dichloroethylene	50.0			56.6	ug/L		113	(72%-136%)			
1,1-Dichloropropene	50.0			51.9	ug/L		104	(68%-120%)			
1,2,3-Trichlorobenzene	50.0			52.8	ug/L		106	(69%-127%)			
1,2,3-Trichloropropane	50.0			49.6	ug/L		99	(69%-120%)			
1,2,4-Trichlorobenzene	50.0			52.1	ug/L		104	(68%-126%)			
1,2,4-Trimethylbenzene	50.0			50.5	ug/L		101	(70%-121%)			
1,2-Dibromo-3-chloropropane	50.0			51.2	ug/L		102	(58%-130%)			

QC Summary

Workorder: **722163**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch 2793081											
1,2-Dibromoethane	50.0			53.0	ug/L		106	(71%-120%)	AXH5	05/06/25	10:48
1,2-Dichlorobenzene	50.0			53.6	ug/L		107	(72%-120%)			
1,2-Dichloroethane	50.0			51.3	ug/L		103	(64%-129%)			
1,2-Dichloropropane	50.0			54.8	ug/L		110	(72%-121%)			
1,3,5-Trimethylbenzene	50.0			51.3	ug/L		103	(70%-127%)			
1,3-Dichlorobenzene	50.0			54.1	ug/L		108	(72%-120%)			
1,3-Dichloropropane	50.0			52.0	ug/L		104	(69%-121%)			
1,4-Dichlorobenzene	50.0			53.3	ug/L		107	(72%-120%)			
2,2-Dichloropropane	50.0			49.8	ug/L		100	(70%-135%)			
2-Butanone	250			260	ug/L		104	(63%-134%)			
2-Chlorotoluene	50.0			54.5	ug/L		109	(72%-123%)			
2-Hexanone	250			293	ug/L		117	(58%-143%)			
4-Chlorotoluene	50.0			53.4	ug/L		107	(71%-121%)			
4-Isopropyltoluene	50.0			52.7	ug/L		105	(71%-127%)			

QC Summary

Workorder: **722163**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2793081										
4-Methyl-2-pentanone	250			288	ug/L		115	(65%-125%)	AXH5	05/06/25 10:48
Acetone	250		B	249	ug/L		100	(56%-149%)		
Benzene	50.0			51.4	ug/L		103	(74%-128%)		
Bromobenzene	50.0			53.0	ug/L		106	(73%-120%)		
Bromochloromethane	50.0			59.9	ug/L		120	(68%-125%)		
Bromodichloromethane	50.0			50.5	ug/L		101	(72%-126%)		
Bromoform	50.0			51.6	ug/L		103	(70%-130%)		
Bromomethane	50.0			68.6	ug/L		137	(64%-142%)		
Carbon disulfide	250			289	ug/L		115	(63%-133%)		
Carbon tetrachloride	50.0			53.6	ug/L		107	(70%-135%)		
Chlorobenzene	50.0			53.3	ug/L		107	(74%-120%)		
Chloroethane	50.0			56.7	ug/L		113	(66%-140%)		
Chloroform	50.0			51.2	ug/L		102	(74%-122%)		
Chloromethane	50.0			66.6	ug/L		133	(56%-142%)		

QC Summary

Workorder: **722163**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch 2793081											
Dibromochloromethane	50.0			51.9	ug/L		104	(70%-130%)	AXH5	05/06/25	10:48
Dibromomethane	50.0			53.6	ug/L		107	(72%-120%)			
Dichlorodifluoromethane	50.0			57.6	ug/L		115	(58%-151%)			
Ethylbenzene	50.0			52.7	ug/L		105	(71%-121%)			
Hexachlorobutadiene	50.0			52.3	ug/L		105	(64%-134%)			
Isopropylbenzene	50.0			51.6	ug/L		103	(69%-122%)			
Methylene chloride	50.0			55.5	ug/L		111	(65%-121%)			
Naphthalene	50.0			49.5	ug/L		99	(68%-126%)			
Styrene	50.0			51.4	ug/L		103	(70%-125%)			
Tetrachloroethylene	50.0			54.6	ug/L		109	(70%-130%)			
Toluene	50.0			52.3	ug/L		105	(73%-121%)			
Trichloroethylene	50.0			52.7	ug/L		105	(76%-126%)			
Trichlorofluoromethane	50.0			54.1	ug/L		108	(63%-136%)			
Vinyl chloride	50.0			63.0	ug/L		126	(63%-144%)			

QC Summary

Workorder: **722163**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch 2793081											
Xylenes (total)	150			156	ug/L		104	(74%-124%)	AXH5	05/06/25	10:48
cis-1,2-Dichloroethylene	50.0			53.3	ug/L		107	(73%-122%)			
cis-1,3-Dichloropropylene	50.0			51.0	ug/L		102	(73%-125%)			
m,p-Xylenes	100			104	ug/L		104	(70%-123%)			
n-Butylbenzene	50.0			52.7	ug/L		105	(71%-129%)			
n-Propylbenzene	50.0			53.2	ug/L		106	(71%-127%)			
o-Xylene	50.0			51.2	ug/L		102	(73%-121%)			
sec-Butylbenzene	50.0			52.5	ug/L		105	(72%-128%)			
tert-Butyl methyl ether	50.0			47.7	ug/L		95	(63%-124%)			
tert-Butylbenzene	50.0			52.0	ug/L		104	(71%-126%)			
trans-1,2-Dichloroethylene	50.0			55.2	ug/L		110	(73%-129%)			
trans-1,3-Dichloropropylene	50.0			50.8	ug/L		102	(70%-126%)			
**1,2-Dichloroethane-d4	50.0			47.9	ug/L		96	(76%-127%)			
**Bromofluorobenzene	50.0			45.5	ug/L		91	(74%-123%)			

QC Summary

Workorder: **722163**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch 2793081											
**Toluene-d8	50.0			49.9	ug/L		100	(77%-121%)	AXH5	05/06/25	10:48
QC1206095874 LCS											
Acrylonitrile	250			251	ug/L		100	(68%-127%)		05/06/25	11:13
Tetrahydrofuran	250			206	ug/L		82	(61%-123%)			
Trichlorotrifluoroethane	250			281	ug/L		113	(65%-132%)			
trans-1,4-Dichloro-2-butene	250			284	ug/L		114	(63%-141%)			
**1,2-Dichloroethane-d4	50.0			47.7	ug/L		95	(76%-127%)			
**Bromofluorobenzene	50.0			47.6	ug/L		95	(74%-123%)			
**Toluene-d8	50.0			49.0	ug/L		98	(77%-121%)			
QC1206095875 MB											
1,1,1,2-Tetrachloroethane			U	ND	ug/L					05/06/25	12:04
1,1,1-Trichloroethane			U	ND	ug/L						
1,1,2,2-Tetrachloroethane			U	ND	ug/L						
1,1,2-Trichloroethane			U	ND	ug/L						
1,1-Dichloroethane			U	ND	ug/L						

QC Summary

Workorder: **722163**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch 2793081											
1,1-Dichloroethylene			U	ND	ug/L				AXH5	05/06/25	12:04
1,1-Dichloropropene			U	ND	ug/L						
1,2,3-Trichlorobenzene			U	ND	ug/L						
1,2,3-Trichloropropane			U	ND	ug/L						
1,2,4-Trichlorobenzene			U	ND	ug/L						
1,2,4-Trimethylbenzene			U	ND	ug/L						
1,2-Dibromo-3-chloropropane			U	ND	ug/L						
1,2-Dibromoethane			U	ND	ug/L						
1,2-Dichlorobenzene			U	ND	ug/L						
1,2-Dichloroethane			U	ND	ug/L						
1,2-Dichloropropane			U	ND	ug/L						
1,3,5-Trimethylbenzene			U	ND	ug/L						
1,3-Dichlorobenzene			U	ND	ug/L						
1,3-Dichloropropane			U	ND	ug/L						

QC Summary

Workorder: **722163**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch 2793081											
1,4-Dichlorobenzene			U	ND	ug/L				AXH5	05/06/25	12:04
2,2-Dichloropropane			U	ND	ug/L						
2-Butanone			U	ND	ug/L						
2-Chlorotoluene			U	ND	ug/L						
2-Hexanone			U	ND	ug/L						
4-Chlorotoluene			U	ND	ug/L						
4-Isopropyltoluene			U	ND	ug/L						
4-Methyl-2-pentanone			U	ND	ug/L						
Acetone			J	1.94	ug/L						
Acrylonitrile			U	ND	ug/L						
Benzene			U	ND	ug/L						
Bromobenzene			U	ND	ug/L						
Bromochloromethane			U	ND	ug/L						
Bromodichloromethane			U	ND	ug/L						

QC Summary

Workorder: **722163**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2793081										
Bromoform			U	ND	ug/L				AXH5	05/06/25 12:04
Bromomethane			U	ND	ug/L					
Carbon disulfide			U	ND	ug/L					
Carbon tetrachloride			U	ND	ug/L					
Chlorobenzene			U	ND	ug/L					
Chloroethane			U	ND	ug/L					
Chloroform			U	ND	ug/L					
Chloromethane			U	ND	ug/L					
Dibromochloromethane			U	ND	ug/L					
Dibromomethane			U	ND	ug/L					
Dichlorodifluoromethane			U	ND	ug/L					
Ethylbenzene			U	ND	ug/L					
Hexachlorobutadiene			U	ND	ug/L					
Isopropylbenzene			U	ND	ug/L					

QC Summary

Workorder: **722163**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS										
Batch 2793081										
Methylene chloride			U	ND	ug/L				AXH5	05/06/25 12:04
Naphthalene			U	ND	ug/L					
Styrene			U	ND	ug/L					
Tetrachloroethylene			U	ND	ug/L					
Tetrahydrofuran			U	ND	ug/L					
Toluene			U	ND	ug/L					
Trichloroethylene			U	ND	ug/L					
Trichlorofluoromethane			U	ND	ug/L					
Trichlorotrifluoroethane			U	ND	ug/L					
Vinyl chloride			U	ND	ug/L					
Xylenes (total)			U	ND	ug/L					
cis-1,2-Dichloroethylene			U	ND	ug/L					
cis-1,3-Dichloropropylene			U	ND	ug/L					
m,p-Xylenes			U	ND	ug/L					

QC Summary

Workorder: **722163**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2793081											
n-Butylbenzene				U	ND	ug/L				AXH5	05/06/25 12:04
n-Propylbenzene				U	ND	ug/L					
o-Xylene				U	ND	ug/L					
sec-Butylbenzene				U	ND	ug/L					
tert-Butyl methyl ether				U	ND	ug/L					
tert-Butylbenzene				U	ND	ug/L					
trans-1,2-Dichloroethylene				U	ND	ug/L					
trans-1,3-Dichloropropylene				U	ND	ug/L					
trans-1,4-Dichloro-2-butene				U	ND	ug/L					
**1,2-Dichloroethane-d4	50.0				48.1	ug/L		96	(76%-127%)		
**Bromofluorobenzene	50.0				43.6	ug/L		87	(74%-123%)		
**Toluene-d8	50.0				49.1	ug/L		98	(77%-121%)		
QC1206095876 722163001 MS											
1,1,1,2-Tetrachloroethane	50.0	U	ND		48.8	ug/L		98	(67%-130%)		05/06/25 17:25
1,1,1-Trichloroethane	50.0	U	ND		47.1	ug/L		94	(56%-133%)		

QC Summary

Workorder: **722163**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS												
Batch 2793081												
1,1,2,2-Tetrachloroethane	50.0	U	ND		48.9	ug/L		98	(59%-136%)	AXH5	05/06/25	17:25
1,1,2-Trichloroethane	50.0	U	ND		47.3	ug/L		95	(68%-123%)			
1,1-Dichloroethane	50.0	U	ND		52.5	ug/L		105	(67%-128%)			
1,1-Dichloroethylene	50.0	U	ND		53.0	ug/L		106	(57%-137%)			
1,1-Dichloropropene	50.0	U	ND		47.3	ug/L		95	(62%-128%)			
1,2,3-Trichlorobenzene	50.0	U	ND		46.9	ug/L		94	(54%-132%)			
1,2,3-Trichloropropane	50.0	U	ND		46.5	ug/L		93	(67%-126%)			
1,2,4-Trichlorobenzene	50.0	U	ND		44.9	ug/L		90	(51%-129%)			
1,2,4-Trimethylbenzene	50.0	U	ND		45.3	ug/L		91	(54%-123%)			
1,2-Dibromo-3-chloropropane	50.0	U	ND		46.5	ug/L		93	(49%-137%)			
1,2-Dibromoethane	50.0	U	ND		49.7	ug/L		99	(65%-124%)			
1,2-Dichlorobenzene	50.0	U	ND		49.3	ug/L		99	(59%-125%)			
1,2-Dichloroethane	50.0	U	ND		48.3	ug/L		97	(60%-134%)			
1,2-Dichloropropane	50.0	U	ND		51.8	ug/L		104	(67%-125%)			

QC Summary

Workorder: **722163**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS												
Batch 2793081												
1,3,5-Trimethylbenzene	50.0	U	ND		45.7	ug/L		91	(54%-129%)	AXH5	05/06/25	17:25
1,3-Dichlorobenzene	50.0	U	ND		49.1	ug/L		98	(57%-124%)			
1,3-Dichloropropane	50.0	U	ND		49.9	ug/L		100	(65%-125%)			
1,4-Dichlorobenzene	50.0	U	ND		48.7	ug/L		97	(54%-123%)			
2,2-Dichloropropane	50.0	U	ND		42.7	ug/L		85	(53%-132%)			
2-Butanone	250	U	ND		230	ug/L		92	(47%-134%)			
2-Chlorotoluene	50.0	U	ND		49.3	ug/L		99	(57%-126%)			
2-Hexanone	250	U	ND		295	ug/L		118	(55%-140%)			
4-Chlorotoluene	50.0	U	ND		48.7	ug/L		97	(56%-125%)			
4-Isopropyltoluene	50.0	U	ND		47.0	ug/L		94	(53%-129%)			
4-Methyl-2-pentanone	250	U	ND		286	ug/L		114	(60%-132%)			
Acetone	250	BJ	3.34	B	243	ug/L		96	(50%-139%)			
Benzene	50.0	U	ND		47.6	ug/L		95	(67%-128%)			
Bromobenzene	50.0	U	ND		48.3	ug/L		97	(61%-122%)			

QC Summary

Workorder: **722163**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS												
Batch 2793081												
Bromochloromethane	50.0	U	ND		57.5	ug/L		115	(63%-128%)	AXH5	05/06/25	17:25
Bromodichloromethane	50.0	U	ND		46.8	ug/L		94	(64%-130%)			
Bromoform	50.0	U	ND		45.4	ug/L		91	(58%-134%)			
Bromomethane	50.0	U	ND		60.5	ug/L		121	(55%-149%)			
Carbon disulfide	250	U	ND		274	ug/L		109	(55%-131%)			
Carbon tetrachloride	50.0	U	ND		49.0	ug/L		98	(58%-141%)			
Chlorobenzene	50.0	U	ND		49.0	ug/L		98	(63%-121%)			
Chloroethane	50.0	U	ND		52.2	ug/L		104	(56%-143%)			
Chloroform	50.0	U	ND		47.7	ug/L		95	(65%-128%)			
Chloromethane	50.0	U	ND		59.3	ug/L		119	(42%-152%)			
Dibromochloromethane	50.0	U	ND		47.6	ug/L		95	(63%-137%)			
Dibromomethane	50.0	U	ND		51.3	ug/L		103	(67%-126%)			
Dichlorodifluoromethane	50.0	U	ND		48.5	ug/L		97	(37%-162%)			
Ethylbenzene	50.0	U	ND		48.6	ug/L		97	(58%-123%)			

QC Summary

Workorder: **722163**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS												
Batch 2793081												
Hexachlorobutadiene	50.0	U	ND		44.3	ug/L		89	(44%-138%)	AXH5	05/06/25	17:25
Isopropylbenzene	50.0	U	ND		46.6	ug/L		93	(53%-128%)			
Methylene chloride	50.0	J	0.760		53.4	ug/L		105	(58%-123%)			
Naphthalene	50.0	U	ND		46.3	ug/L		93	(58%-131%)			
Styrene	50.0	U	ND		47.7	ug/L		95	(58%-129%)			
Tetrachloroethylene	50.0	U	ND		49.5	ug/L		99	(56%-126%)			
Toluene	50.0	U	ND		48.1	ug/L		96	(63%-121%)			
Trichloroethylene	50.0	U	ND		47.8	ug/L		96	(61%-130%)			
Trichlorofluoromethane	50.0	U	ND		48.6	ug/L		97	(48%-137%)			
Vinyl chloride	50.0	U	ND		52.9	ug/L		106	(49%-153%)			
Xylenes (total)	150	U	ND		144	ug/L		96	(55%-129%)			
cis-1,2-Dichloroethylene	50.0	U	ND		48.8	ug/L		98	(65%-128%)			
cis-1,3-Dichloropropylene	50.0	U	ND		45.4	ug/L		91	(63%-129%)			
m,p-Xylenes	100	U	ND		96.3	ug/L		96	(56%-125%)			

QC Summary

Workorder: **722163**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2793081											
n-Butylbenzene	50.0	U	ND		48.2	ug/L		96	(49%-136%)	AXH5	05/06/25 17:25
n-Propylbenzene	50.0	U	ND		48.0	ug/L		96	(54%-129%)		
o-Xylene	50.0	U	ND		47.5	ug/L		95	(60%-125%)		
sec-Butylbenzene	50.0	U	ND		47.8	ug/L		96	(54%-130%)		
tert-Butyl methyl ether	50.0	U	ND		42.7	ug/L		85	(58%-128%)		
tert-Butylbenzene	50.0	U	ND		46.9	ug/L		94	(53%-128%)		
trans-1,2-Dichloroethylene	50.0	U	ND		50.2	ug/L		100	(63%-129%)		
trans-1,3-Dichloropropylene	50.0	U	ND		45.4	ug/L		91	(65%-130%)		
**1,2-Dichloroethane-d4	50.0		48.8		47.1	ug/L		94	(76%-127%)		
**Bromofluorobenzene	50.0		43.9		43.1	ug/L		86	(74%-123%)		
**Toluene-d8	50.0		49.2		48.1	ug/L		96	(77%-121%)		
QC1206095877 722163001 MS											
Acrylonitrile	250	U	ND		251	ug/L		100	(62%-133%)		05/06/25 18:17
Tetrahydrofuran	250	U	ND		206	ug/L		82	(53%-129%)		
Trichlorotrifluoroethane	250	U	ND		257	ug/L		103	(51%-136%)		

QC Summary

Workorder: **722163**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS											
Batch 2793081											
trans-1,4-Dichloro-2-butene	250	U	ND		278	ug/L		111	(59%-149%)	AXH5	05/06/25 18:17
**1,2-Dichloroethane-d4	50.0		48.8		47.2	ug/L		94	(76%-127%)		
**Bromofluorobenzene	50.0		43.9		46.2	ug/L		92	(74%-123%)		
**Toluene-d8	50.0		49.2		47.7	ug/L		95	(77%-121%)		
QC1206095878 722163001 MSD											
1,1,1,2-Tetrachloroethane	50.0	U	ND		49.8	ug/L	2	100	(0%-20%)		05/06/25 17:51
1,1,1-Trichloroethane	50.0	U	ND		49.3	ug/L	5	99	(0%-20%)		
1,1,2,2-Tetrachloroethane	50.0	U	ND		51.6	ug/L	5	103	(0%-20%)		
1,1,2-Trichloroethane	50.0	U	ND		49.9	ug/L	5	100	(0%-20%)		
1,1-Dichloroethane	50.0	U	ND		53.8	ug/L	2	108	(0%-20%)		
1,1-Dichloroethylene	50.0	U	ND		53.6	ug/L	1	107	(0%-20%)		
1,1-Dichloropropene	50.0	U	ND		48.6	ug/L	3	97	(0%-20%)		
1,2,3-Trichlorobenzene	50.0	U	ND		50.7	ug/L	8	101	(0%-20%)		
1,2,3-Trichloropropane	50.0	U	ND		49.2	ug/L	6	98	(0%-20%)		
1,2,4-Trichlorobenzene	50.0	U	ND		49.2	ug/L	9	98	(0%-20%)		

QC Summary

Workorder: **722163**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS												
Batch 2793081												
1,2,4-Trimethylbenzene	50.0	U	ND		47.4	ug/L	5	95	(0%-20%)	AXH5	05/06/25	17:51
1,2-Dibromo-3-chloropropane	50.0	U	ND		49.8	ug/L	7	100	(0%-20%)			
1,2-Dibromoethane	50.0	U	ND		51.8	ug/L	4	104	(0%-20%)			
1,2-Dichlorobenzene	50.0	U	ND		51.7	ug/L	5	103	(0%-20%)			
1,2-Dichloroethane	50.0	U	ND		49.3	ug/L	2	99	(0%-20%)			
1,2-Dichloropropane	50.0	U	ND		52.9	ug/L	2	106	(0%-20%)			
1,3,5-Trimethylbenzene	50.0	U	ND		48.1	ug/L	5	96	(0%-20%)			
1,3-Dichlorobenzene	50.0	U	ND		51.3	ug/L	4	103	(0%-20%)			
1,3-Dichloropropane	50.0	U	ND		51.0	ug/L	2	102	(0%-20%)			
1,4-Dichlorobenzene	50.0	U	ND		50.8	ug/L	4	102	(0%-20%)			
2,2-Dichloropropane	50.0	U	ND		44.7	ug/L	5	89	(0%-20%)			
2-Butanone	250	U	ND		252	ug/L	9	101	(0%-20%)			
2-Chlorotoluene	50.0	U	ND		51.1	ug/L	3	102	(0%-20%)			
2-Hexanone	250	U	ND		310	ug/L	5	124	(0%-20%)			

QC Summary

Workorder: **722163**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS												
Batch 2793081												
4-Chlorotoluene	50.0	U	ND		51.4	ug/L	5	103	(0%-20%)	AXH5	05/06/25	17:51
4-Isopropyltoluene	50.0	U	ND		49.4	ug/L	5	99	(0%-20%)			
4-Methyl-2-pentanone	250	U	ND		299	ug/L	4	120	(0%-20%)			
Acetone	250	BJ	3.34	B	249	ug/L	2	98	(0%-20%)			
Benzene	50.0	U	ND		49.1	ug/L	3	98	(0%-20%)			
Bromobenzene	50.0	U	ND		50.3	ug/L	4	101	(0%-20%)			
Bromochloromethane	50.0	U	ND		58.9	ug/L	2	118	(0%-20%)			
Bromodichloromethane	50.0	U	ND		48.3	ug/L	3	97	(0%-20%)			
Bromoform	50.0	U	ND		48.9	ug/L	7	98	(0%-20%)			
Bromomethane	50.0	U	ND		61.1	ug/L	1	122	(0%-20%)			
Carbon disulfide	250	U	ND		278	ug/L	2	111	(0%-20%)			
Carbon tetrachloride	50.0	U	ND		50.6	ug/L	3	101	(0%-20%)			
Chlorobenzene	50.0	U	ND		50.7	ug/L	3	101	(0%-20%)			
Chloroethane	50.0	U	ND		53.8	ug/L	3	108	(0%-20%)			

QC Summary

Workorder: **722163**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS												
Batch 2793081												
Chloroform	50.0	U	ND		48.1	ug/L	1	96	(0%-20%)	AXH5	05/06/25	17:51
Chloromethane	50.0	U	ND		61.8	ug/L	4	124	(0%-20%)			
Dibromochloromethane	50.0	U	ND		49.6	ug/L	4	99	(0%-20%)			
Dibromomethane	50.0	U	ND		51.9	ug/L	1	104	(0%-20%)			
Dichlorodifluoromethane	50.0	U	ND		51.4	ug/L	6	103	(0%-20%)			
Ethylbenzene	50.0	U	ND		50.1	ug/L	3	100	(0%-20%)			
Hexachlorobutadiene	50.0	U	ND		47.8	ug/L	8	96	(0%-20%)			
Isopropylbenzene	50.0	U	ND		48.8	ug/L	5	98	(0%-20%)			
Methylene chloride	50.0	J	0.760		54.2	ug/L	1	107	(0%-20%)			
Naphthalene	50.0	U	ND		50.2	ug/L	8	100	(0%-20%)			
Styrene	50.0	U	ND		49.1	ug/L	3	98	(0%-20%)			
Tetrachloroethylene	50.0	U	ND		50.8	ug/L	3	102	(0%-20%)			
Toluene	50.0	U	ND		49.5	ug/L	3	99	(0%-20%)			
Trichloroethylene	50.0	U	ND		49.9	ug/L	4	100	(0%-20%)			

QC Summary

Workorder: **722163**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS												
Batch 2793081												
Trichlorofluoromethane	50.0	U	ND		49.7	ug/L	2	99	(0%-20%)	AXH5	05/06/25	17:51
Vinyl chloride	50.0	U	ND		55.4	ug/L	5	111	(0%-20%)			
Xylenes (total)	150	U	ND		148	ug/L	3	99	(0%-20%)			
cis-1,2-Dichloroethylene	50.0	U	ND		50.5	ug/L	3	101	(0%-20%)			
cis-1,3-Dichloropropylene	50.0	U	ND		47.6	ug/L	5	95	(0%-20%)			
m,p-Xylenes	100	U	ND		98.9	ug/L	3	99	(0%-20%)			
n-Butylbenzene	50.0	U	ND		50.5	ug/L	5	101	(0%-20%)			
n-Propylbenzene	50.0	U	ND		50.4	ug/L	5	101	(0%-20%)			
o-Xylene	50.0	U	ND		49.2	ug/L	4	98	(0%-20%)			
sec-Butylbenzene	50.0	U	ND		49.8	ug/L	4	100	(0%-20%)			
tert-Butyl methyl ether	50.0	U	ND		44.6	ug/L	4	89	(0%-20%)			
tert-Butylbenzene	50.0	U	ND		49.1	ug/L	5	98	(0%-20%)			
trans-1,2-Dichloroethylene	50.0	U	ND		51.4	ug/L	2	103	(0%-20%)			
trans-1,3-Dichloropropylene	50.0	U	ND		48.3	ug/L	6	97	(0%-20%)			

QC Summary

Workorder: **722163**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS												
Batch 2793081												
**1,2-Dichloroethane-d4	50.0		48.8		46.9	ug/L		94	(76%-127%)	AXH5	05/06/25	17:51
**Bromofluorobenzene	50.0		43.9		43.9	ug/L		88	(74%-123%)			
**Toluene-d8	50.0		49.2		47.8	ug/L		96	(77%-121%)			
QC1206095879 722163001 MSD												
Acrylonitrile	250	U	ND		241	ug/L	4	96	(0%-20%)		05/06/25	18:42
Tetrahydrofuran	250	U	ND		206	ug/L	0	82	(0%-20%)			
Trichlorotrifluoroethane	250	U	ND		249	ug/L	3	100	(0%-20%)			
trans-1,4-Dichloro-2-butene	250	U	ND		267	ug/L	4	107	(0%-20%)			
**1,2-Dichloroethane-d4	50.0		48.8		47.5	ug/L		95	(76%-127%)			
**Bromofluorobenzene	50.0		43.9		45.9	ug/L		92	(74%-123%)			
**Toluene-d8	50.0		49.2		48.1	ug/L		96	(77%-121%)			

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, the difference is >70%.
- C Analyte has been confirmed by GC/MS analysis
- B The target analyte was detected in the associated blank.
- E Concentration of the target analyte exceeds the instrument calibration range
- A The TIC is a suspected aldol-condensation product

QC Summary

Workorder: **722163**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
H	Analytical holding time was exceeded
**	Analyte is a surrogate compound
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
D	Results are reported from a diluted aliquot of the sample
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
JNX	Non Calibrated Compound
UJ	Compound cannot be extracted
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
N1	See case narrative
Y	QC Samples were not spiked with this compound
N	Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
I	Analyte does not meet the Ion Abundance Ratio and should be considered an estimated concentration.
FG	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
XG	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
G	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
x	Subaliquot was taken. See Case Narrative for details.

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Semi-Volatile Analysis

Case Narrative

GC/MS Semivolatile
Technical Case Narrative
Holtec Indian Point
SDG #: 722163

Product: **Analysis of Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry**
Analytical Method: SW846 3510C/8270E
Analytical Procedure: GL-OA-E-009 REV# 51
Analytical Batch: 2791073

Preparation Method: SW846 3510C
Preparation Procedure: GL-OA-E-013 REV# 36
Preparation Batch: 2791065

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
722163001	MW-1
722163002	MW-57-11
722163003	MW-63-18
1206091673	Method Blank (MB)
1206091674	Laboratory Control Sample (LCS)
1206091677	721936001(NonSDG) Matrix Spike (MS)
1206091678	721936001(NonSDG) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Holding Time Specifications
Samples (See Below) were received from the client out of holding. The samples were analyzed and the data have been reported and qualified accordingly.

Sample	Value
722163001 (MW-1)	Received 01-MAY-25, out of holding 30-APR-25
722163002 (MW-57-11)	Received 01-MAY-25, out of holding 30-APR-25
722163003 (MW-63-18)	Received 01-MAY-25, out of holding 30-APR-25

Miscellaneous Information

Additional Comments
Diphenylamine Statement
Diphenylamine has superseded the reporting of N-Nitroso-diphenylamine. As per the EPA, N-Nitroso-diphenylamine decomposes in the gas chromatographic inlet and cannot be separated from Diphenylamine. Studies of these two compounds at GEL, both independent of each other and together, showed that they not only co-elute, but also have

similar mass spectra. N-Nitroso-diphenylamine and Diphenylamine are therefore reported as Diphenylamine on all reports and forms.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Qualifier Definition Report
for

IPEC001 Holtec Indian Point

Client SDG: 722163 GEL Work Order: 722163

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria
** Analyte is a surrogate compound
J Value is estimated
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
h Preparation or preservation holding time was exceeded

DL Indicates that sample is diluted.
RA Indicates that sample is re-analyzed without re-extraction.
RE Indicates that sample is re-extracted.

Review/Validation

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this data report:

Signature: Barbara Bailey **Name:** **Barbara Bailey**

Date: **14 MAY 2025** **Title:** **Data Validator**

Sample Data Summary

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 7, 2025

Company :	GZA GeoEnvironmental, Inc.
Address :	35 Nutmeg Drive Suite 325 Trumbull, Connecticut 06611
Contact:	Shannon Spezzano
Project:	Indian Point Energy Center Organics Analysis

Client Sample ID:	MW-1	Project:	IPEC00109
Sample ID:	722163001	Client ID:	IPEC001
Matrix:	Ground Water		
Collect Date:	23-APR-25 08:40		
Receive Date:	01-MAY-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatile-GC/MS												
8270 BNA "As Received"												
1,2,4,5-Tetrachlorobenzene	hU	ND	2.84	9.47	ug/L	0.000947	1	BM1	05/05/25	2300	2791073	1
1,2,4-Trichlorobenzene	hU	ND	2.84	9.47	ug/L	0.000947	1					
1,2-Dichlorobenzene	hU	ND	2.84	9.47	ug/L	0.000947	1					
1,2-Diphenylhydrazine	hU	ND	2.84	9.47	ug/L	0.000947	1					
1,3-Dichlorobenzene	hU	ND	2.84	9.47	ug/L	0.000947	1					
1,4-Dichlorobenzene	hU	ND	2.84	9.47	ug/L	0.000947	1					
2,3,4,6-Tetrachlorophenol	hU	ND	2.84	9.47	ug/L	0.000947	1					
2,4-Dinitrophenol	hU	ND	4.74	18.9	ug/L	0.000947	1					
2,4-Dinitrotoluene	hU	ND	2.84	9.47	ug/L	0.000947	1					
2,6-Dinitrotoluene	hU	ND	2.84	9.47	ug/L	0.000947	1					
2-Chloronaphthalene	hU	ND	0.388	0.947	ug/L	0.000947	1					
2-Methyl-4,6-dinitrophenol	hU	ND	2.84	9.47	ug/L	0.000947	1					
2-Methylnaphthalene	hU	ND	0.284	0.947	ug/L	0.000947	1					
3,3'-Dichlorobenzidine	hU	ND	2.84	9.47	ug/L	0.000947	1					
4-Bromophenylphenylether	hU	ND	2.84	9.47	ug/L	0.000947	1					
Acenaphthene	hU	ND	0.284	0.947	ug/L	0.000947	1					
Anthracene	hU	ND	0.284	0.947	ug/L	0.000947	1					
Benzo(a)anthracene	hU	ND	0.284	0.947	ug/L	0.000947	1					
Benzo(b)fluoranthene	hU	ND	0.284	0.947	ug/L	0.000947	1					
Benzo(k)fluoranthene	hU	ND	0.284	0.947	ug/L	0.000947	1					
Carbazole	hU	ND	0.284	0.947	ug/L	0.000947	1					
Chrysene	hU	ND	0.284	0.947	ug/L	0.000947	1					
Di-n-octylphthalate	hU	ND	0.284	0.947	ug/L	0.000947	1					
Dibenzofuran	hU	ND	2.84	9.47	ug/L	0.000947	1					
Fluoranthene	hU	ND	0.284	0.947	ug/L	0.000947	1					
Hexachlorobutadiene	hU	ND	2.84	9.47	ug/L	0.000947	1					
Hexachloroethane	hU	ND	2.84	9.47	ug/L	0.000947	1					
Isophorone	hU	ND	3.32	9.47	ug/L	0.000947	1					
N-Methyl-N-nitrosomethylamine	hU	ND	2.84	9.47	ug/L	0.000947	1					
N-Nitrosodipropylamine	hU	ND	2.84	9.47	ug/L	0.000947	1					
Naphthalene	hU	ND	0.284	0.947	ug/L	0.000947	1					
Nitrobenzene	hU	ND	2.84	9.47	ug/L	0.000947	1					
bis(2-Chloro-1-methylethyl)ether	hU	ND	2.84	9.47	ug/L	0.000947	1					
bis(2-Chloroethoxy)methane	hU	ND	2.84	9.47	ug/L	0.000947	1					
bis(2-Chloroethyl) ether	hU	ND	2.84	9.47	ug/L	0.000947	1					
bis(2-Ethylhexyl)phthalate	hU	ND	0.284	0.947	ug/L	0.000947	1					

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 7, 2025

Company :	GZA GeoEnvironmental, Inc.
Address :	35 Nutmeg Drive Suite 325 Trumbull, Connecticut 06611
Contact:	Shannon Spezzano
Project:	Indian Point Energy Center Organics Analysis

Client Sample ID:	MW-1	Project:	IPEC00109
Sample ID:	722163001	Client ID:	IPEC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatile-GC/MS												
8270 BNA "As Received"												
m-Nitroaniline	hU	ND	2.84	9.47	ug/L	0.000947	1					
o-Nitroaniline	hU	ND	2.84	9.47	ug/L	0.000947	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	SW846 3510C Prep Semivolatiles 8270	DG3	05/02/25	1126	2791065

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3510C/8270E	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Nitrobenzene-d5	8270 BNA "As Received"	32.9 ug/L	47.4	69	(34%-107%)
2-Fluorobiphenyl	8270 BNA "As Received"	32.6 ug/L	47.4	69	(35%-107%)
p-Terphenyl-d14	8270 BNA "As Received"	17.5 ug/L	47.4	37	(20%-118%)
2,4,6-Tribromophenol	8270 BNA "As Received"	66.0 ug/L	94.7	70	(31%-126%)
Phenol-d5	8270 BNA "As Received"	21.3 ug/L	94.7	23	(15%-85%)
2-Fluorophenol	8270 BNA "As Received"	29.6 ug/L	94.7	31	(15%-72%)

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 7, 2025

Company :	GZA GeoEnvironmental, Inc.
Address :	35 Nutmeg Drive Suite 325 Trumbull, Connecticut 06611
Contact:	Shannon Spezzano
Project:	Indian Point Energy Center Organics Analysis

Client Sample ID:	MW-57-11	Project:	IPEC00109
Sample ID:	722163002	Client ID:	IPEC001
Matrix:	Ground Water		
Collect Date:	23-APR-25 09:05		
Receive Date:	01-MAY-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatile-GC/MS												
8270 BNA "As Received"												
1,2,4,5-Tetrachlorobenzene	hU	ND	2.84	9.46	ug/L	0.000946	1	BM1	05/05/25	2321	2791073	1
1,2,4-Trichlorobenzene	hU	ND	2.84	9.46	ug/L	0.000946	1					
1,2-Dichlorobenzene	hU	ND	2.84	9.46	ug/L	0.000946	1					
1,2-Diphenylhydrazine	hU	ND	2.84	9.46	ug/L	0.000946	1					
1,3-Dichlorobenzene	hU	ND	2.84	9.46	ug/L	0.000946	1					
1,4-Dichlorobenzene	hU	ND	2.84	9.46	ug/L	0.000946	1					
2,3,4,6-Tetrachlorophenol	hU	ND	2.84	9.46	ug/L	0.000946	1					
2,4-Dinitrophenol	hU	ND	4.73	18.9	ug/L	0.000946	1					
2,4-Dinitrotoluene	hU	ND	2.84	9.46	ug/L	0.000946	1					
2,6-Dinitrotoluene	hU	ND	2.84	9.46	ug/L	0.000946	1					
2-Chloronaphthalene	hU	ND	0.388	0.946	ug/L	0.000946	1					
2-Methyl-4,6-dinitrophenol	hU	ND	2.84	9.46	ug/L	0.000946	1					
2-Methylnaphthalene	hU	ND	0.284	0.946	ug/L	0.000946	1					
3,3'-Dichlorobenzidine	hU	ND	2.84	9.46	ug/L	0.000946	1					
4-Bromophenylphenylether	hU	ND	2.84	9.46	ug/L	0.000946	1					
Acenaphthene	hU	ND	0.284	0.946	ug/L	0.000946	1					
Anthracene	hU	ND	0.284	0.946	ug/L	0.000946	1					
Benzo(a)anthracene	hU	ND	0.284	0.946	ug/L	0.000946	1					
Benzo(b)fluoranthene	hU	ND	0.284	0.946	ug/L	0.000946	1					
Benzo(k)fluoranthene	hU	ND	0.284	0.946	ug/L	0.000946	1					
Carbazole	hU	ND	0.284	0.946	ug/L	0.000946	1					
Chrysene	hU	ND	0.284	0.946	ug/L	0.000946	1					
Di-n-octylphthalate	hU	ND	0.284	0.946	ug/L	0.000946	1					
Dibenzofuran	hU	ND	2.84	9.46	ug/L	0.000946	1					
Fluoranthene	hU	ND	0.284	0.946	ug/L	0.000946	1					
Hexachlorobutadiene	hU	ND	2.84	9.46	ug/L	0.000946	1					
Hexachloroethane	hU	ND	2.84	9.46	ug/L	0.000946	1					
Isophorone	hU	ND	3.31	9.46	ug/L	0.000946	1					
N-Methyl-N-nitrosomethylamine	hU	ND	2.84	9.46	ug/L	0.000946	1					
N-Nitrosodipropylamine	hU	ND	2.84	9.46	ug/L	0.000946	1					
Naphthalene	hU	ND	0.284	0.946	ug/L	0.000946	1					
Nitrobenzene	hU	ND	2.84	9.46	ug/L	0.000946	1					
bis(2-Chloro-1-methylethyl)ether	hU	ND	2.84	9.46	ug/L	0.000946	1					
bis(2-Chloroethoxy)methane	hU	ND	2.84	9.46	ug/L	0.000946	1					
bis(2-Chloroethyl) ether	hU	ND	2.84	9.46	ug/L	0.000946	1					
bis(2-Ethylhexyl)phthalate	hU	ND	0.284	0.946	ug/L	0.000946	1					

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 7, 2025

Company : GZA GeoEnvironmental, Inc.
Address : 35 Nutmeg Drive
Suite 325
Trumbull, Connecticut 06611
Contact: Shannon Spezzano
Project: Indian Point Energy Center Organics Analysis

Client Sample ID: MW-57-11 Project: IPEC00109
Sample ID: 722163002 Client ID: IPEC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatile-GC/MS												
8270 BNA "As Received"												
m-Nitroaniline	hU	ND	2.84	9.46	ug/L	0.000946	1					
o-Nitroaniline	hU	ND	2.84	9.46	ug/L	0.000946	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	SW846 3510C Prep Semivolatiles 8270	DG3	05/02/25	1126	2791065

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3510C/8270E	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Nitrobenzene-d5	8270 BNA "As Received"	37.7 ug/L	47.3	80	(34%-107%)
2-Fluorobiphenyl	8270 BNA "As Received"	35.3 ug/L	47.3	75	(35%-107%)
p-Terphenyl-d14	8270 BNA "As Received"	14.1 ug/L	47.3	30	(20%-118%)
2,4,6-Tribromophenol	8270 BNA "As Received"	62.4 ug/L	94.6	66	(31%-126%)
Phenol-d5	8270 BNA "As Received"	24.1 ug/L	94.6	25	(15%-85%)
2-Fluorophenol	8270 BNA "As Received"	32.3 ug/L	94.6	34	(15%-72%)

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

Certificate of Analysis

Report Date: May 7, 2025

Company :	GZA GeoEnvironmental, Inc.
Address :	35 Nutmeg Drive Suite 325 Trumbull, Connecticut 06611
Contact:	Shannon Spezzano
Project:	Indian Point Energy Center Organics Analysis

Client Sample ID:	MW-63-18	Project:	IPEC00109
Sample ID:	722163003	Client ID:	IPEC001
Matrix:	Ground Water		
Collect Date:	23-APR-25 11:45		
Receive Date:	01-MAY-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatile-GC/MS												
8270 BNA "As Received"												
1,2,4,5-Tetrachlorobenzene	hU	ND	2.83	9.43	ug/L	0.000943	1	BM1	05/05/25	2342	2791073	1
1,2,4-Trichlorobenzene	hU	ND	2.83	9.43	ug/L	0.000943	1					
1,2-Dichlorobenzene	hU	ND	2.83	9.43	ug/L	0.000943	1					
1,2-Diphenylhydrazine	hU	ND	2.83	9.43	ug/L	0.000943	1					
1,3-Dichlorobenzene	hU	ND	2.83	9.43	ug/L	0.000943	1					
1,4-Dichlorobenzene	hU	ND	2.83	9.43	ug/L	0.000943	1					
2,3,4,6-Tetrachlorophenol	hU	ND	2.83	9.43	ug/L	0.000943	1					
2,4-Dinitrophenol	hU	ND	4.72	18.9	ug/L	0.000943	1					
2,4-Dinitrotoluene	hU	ND	2.83	9.43	ug/L	0.000943	1					
2,6-Dinitrotoluene	hU	ND	2.83	9.43	ug/L	0.000943	1					
2-Chloronaphthalene	hU	ND	0.387	0.943	ug/L	0.000943	1					
2-Methyl-4,6-dinitrophenol	hU	ND	2.83	9.43	ug/L	0.000943	1					
2-Methylnaphthalene	hU	ND	0.283	0.943	ug/L	0.000943	1					
3,3'-Dichlorobenzidine	hU	ND	2.83	9.43	ug/L	0.000943	1					
4-Bromophenylphenylether	hU	ND	2.83	9.43	ug/L	0.000943	1					
Acenaphthene	hU	ND	0.283	0.943	ug/L	0.000943	1					
Anthracene	hU	ND	0.283	0.943	ug/L	0.000943	1					
Benzo(a)anthracene	hU	ND	0.283	0.943	ug/L	0.000943	1					
Benzo(b)fluoranthene	hU	ND	0.283	0.943	ug/L	0.000943	1					
Benzo(k)fluoranthene	hU	ND	0.283	0.943	ug/L	0.000943	1					
Carbazole	hU	ND	0.283	0.943	ug/L	0.000943	1					
Chrysene	hU	ND	0.283	0.943	ug/L	0.000943	1					
Di-n-octylphthalate	hU	ND	0.283	0.943	ug/L	0.000943	1					
Dibenzofuran	hU	ND	2.83	9.43	ug/L	0.000943	1					
Fluoranthene	hU	ND	0.283	0.943	ug/L	0.000943	1					
Hexachlorobutadiene	hU	ND	2.83	9.43	ug/L	0.000943	1					
Hexachloroethane	hU	ND	2.83	9.43	ug/L	0.000943	1					
Isophorone	hU	ND	3.30	9.43	ug/L	0.000943	1					
N-Methyl-N-nitrosomethylamine	hU	ND	2.83	9.43	ug/L	0.000943	1					
N-Nitrosodipropylamine	hU	ND	2.83	9.43	ug/L	0.000943	1					
Naphthalene	hU	ND	0.283	0.943	ug/L	0.000943	1					
Nitrobenzene	hU	ND	2.83	9.43	ug/L	0.000943	1					
bis(2-Chloro-1-methylethyl)ether	hU	ND	2.83	9.43	ug/L	0.000943	1					
bis(2-Chloroethoxy)methane	hU	ND	2.83	9.43	ug/L	0.000943	1					
bis(2-Chloroethyl) ether	hU	ND	2.83	9.43	ug/L	0.000943	1					
bis(2-Ethylhexyl)phthalate	hU	ND	0.283	0.943	ug/L	0.000943	1					

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 7, 2025

Company : GZA GeoEnvironmental, Inc.
Address : 35 Nutmeg Drive
Suite 325
Trumbull, Connecticut 06611
Contact: Shannon Spezzano
Project: Indian Point Energy Center Organics Analysis

Client Sample ID: MW-63-18 Project: IPEC00109
Sample ID: 722163003 Client ID: IPEC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatile-GC/MS												
8270 BNA "As Received"												
m-Nitroaniline	hU	ND	2.83	9.43	ug/L	0.000943	1					
o-Nitroaniline	hU	ND	2.83	9.43	ug/L	0.000943	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3510C	SW846 3510C Prep Semivolatiles 8270	DG3	05/02/25	1126	2791065

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3510C/8270E	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Nitrobenzene-d5	8270 BNA "As Received"	32.4 ug/L	47.2	69	(34%-107%)
2-Fluorobiphenyl	8270 BNA "As Received"	32.7 ug/L	47.2	69	(35%-107%)
p-Terphenyl-d14	8270 BNA "As Received"	20.0 ug/L	47.2	42	(20%-118%)
2,4,6-Tribromophenol	8270 BNA "As Received"	71.6 ug/L	94.3	76	(31%-126%)
Phenol-d5	8270 BNA "As Received"	22.5 ug/L	94.3	24	(15%-85%)
2-Fluorophenol	8270 BNA "As Received"	33.7 ug/L	94.3	36	(15%-72%)

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

Quality Control Summary

QC Summary

Report Date: May 7, 2025

GZA GeoEnvironmental, Inc.
35 Nutmeg Drive
Suite 325
Trumbull, Connecticut

Contact: **Shannon Spezzano**

Workorder: **722163**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS											
Batch 2791073											
QC1206091674 LCS											
1,2,4,5-Tetrachlorobenzene	50.0			33.7	ug/L		67	(37%-107%)	BM1	05/05/25	19:05
1,2,4-Trichlorobenzene	50.0			33.7	ug/L		67	(39%-101%)			
1,2-Dichlorobenzene	50.0			32.9	ug/L		66	(35%-96%)			
1,2-Diphenylhydrazine	50.0			39.1	ug/L		78	(47%-120%)			
1,3-Dichlorobenzene	50.0			32.1	ug/L		64	(37%-91%)			
1,4-Dichlorobenzene	50.0			32.6	ug/L		65	(39%-93%)			
2,3,4,6-Tetrachlorophenol	50.0			38.1	ug/L		76	(44%-126%)			
2,4-Dinitrophenol	50.0			37.7	ug/L		75	(24%-147%)			
2,4-Dinitrotoluene	50.0			38.6	ug/L		77	(44%-133%)			
2,6-Dinitrotoluene	50.0			37.8	ug/L		76	(52%-126%)			
2-Chloronaphthalene	50.0			36.7	ug/L		73	(44%-111%)			
2-Methyl-4,6-dinitrophenol	50.0			36.9	ug/L		74	(37%-146%)			

QC Summary

Workorder: **722163**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS											
Batch 2791073											
2-Methylnaphthalene	50.0			38.0	ug/L		76	(44%-108%)	BM1	05/05/25	19:05
3,3'-Dichlorobenzidine	50.0			36.3	ug/L		73	(45%-126%)			
4-Bromophenylphenylether	50.0			41.0	ug/L		82	(46%-122%)			
Acenaphthene	50.0			36.9	ug/L		74	(47%-112%)			
Anthracene	50.0			39.0	ug/L		78	(51%-116%)			
Benzo(a)anthracene	50.0			37.8	ug/L		76	(49%-117%)			
Benzo(b)fluoranthene	50.0			38.4	ug/L		77	(49%-119%)			
Benzo(k)fluoranthene	50.0			37.2	ug/L		74	(49%-120%)			
Carbazole	50.0			39.4	ug/L		79	(49%-124%)			
Chrysene	50.0			39.4	ug/L		79	(52%-122%)			
Di-n-octylphthalate	50.0			36.8	ug/L		74	(45%-128%)			
Dibenzofuran	50.0			40.8	ug/L		82	(49%-120%)			
Fluoranthene	50.0			38.1	ug/L		76	(52%-126%)			
Hexachlorobutadiene	50.0			30.8	ug/L		62	(39%-98%)			

QC Summary

Workorder: **722163**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Semi-Volatile-GC/MS										
Batch 2791073										
Hexachloroethane	50.0			30.3	ug/L		61	(34%-85%)	BM1	05/05/25 19:05
Isophorone	50.0			36.7	ug/L		73	(37%-114%)		
N-Methyl-N-nitrosomethylamine	50.0			23.6	ug/L		47	(33%-79%)		
N-Nitrosodipropylamine	50.0			39.1	ug/L		78	(44%-118%)		
Naphthalene	50.0			35.0	ug/L		70	(45%-106%)		
Nitrobenzene	50.0			36.1	ug/L		72	(47%-110%)		
bis(2-Chloro-1-methylethyl)ether	50.0			36.8	ug/L		74	(38%-112%)		
bis(2-Chloroethoxy)methane	50.0			37.9	ug/L		76	(49%-114%)		
bis(2-Chloroethyl) ether	50.0			37.2	ug/L		74	(42%-111%)		
bis(2-Ethylhexyl)phthalate	50.0			37.9	ug/L		76	(43%-124%)		
m-Nitroaniline	50.0			36.3	ug/L		73	(48%-130%)		
o-Nitroaniline	50.0			39.9	ug/L		80	(51%-127%)		
**2,4,6-Tribromophenol	100			82.4	ug/L		82	(31%-126%)		
**2-Fluorobiphenyl	50.0			38.6	ug/L		77	(35%-107%)		

QC Summary

Workorder: **722163**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Semi-Volatile-GC/MS										
Batch 2791073										
**2-Fluorophenol	100			42.0	ug/L		42	(15%-72%)	BM1	05/05/25 19:05
**Nitrobenzene-d5	50.0			37.0	ug/L		74	(34%-107%)		
**Phenol-d5	100			28.2	ug/L		28	(15%-85%)		
**p-Terphenyl-d14	50.0			35.7	ug/L		71	(20%-118%)		
QC1206091673 MB										
1,2,4,5-Tetrachlorobenzene			U	ND	ug/L					05/05/25 18:41
1,2,4-Trichlorobenzene			U	ND	ug/L					
1,2-Dichlorobenzene			U	ND	ug/L					
1,2-Diphenylhydrazine			U	ND	ug/L					
1,3-Dichlorobenzene			U	ND	ug/L					
1,4-Dichlorobenzene			U	ND	ug/L					
2,3,4,6-Tetrachlorophenol			U	ND	ug/L					
2,4-Dinitrophenol			U	ND	ug/L					
2,4-Dinitrotoluene			U	ND	ug/L					
2,6-Dinitrotoluene			U	ND	ug/L					

QC Summary

Workorder: **722163**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Semi-Volatile-GC/MS										
Batch 2791073										
2-Chloronaphthalene			U	ND	ug/L				BM1	05/05/25 18:41
2-Methyl-4,6-dinitrophenol			U	ND	ug/L					
2-Methylnaphthalene			U	ND	ug/L					
3,3'-Dichlorobenzidine			U	ND	ug/L					
4-Bromophenylphenylether			U	ND	ug/L					
Acenaphthene			U	ND	ug/L					
Anthracene			U	ND	ug/L					
Benzo(a)anthracene			U	ND	ug/L					
Benzo(b)fluoranthene			U	ND	ug/L					
Benzo(k)fluoranthene			U	ND	ug/L					
Carbazole			U	ND	ug/L					
Chrysene			U	ND	ug/L					
Di-n-octylphthalate			U	ND	ug/L					
Dibenzofuran			U	ND	ug/L					

QC Summary

Workorder: **722163**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS											
Batch 2791073											
Fluoranthene			U	ND	ug/L				BM1	05/05/25	18:41
Hexachlorobutadiene			U	ND	ug/L						
Hexachloroethane			U	ND	ug/L						
Isophorone			U	ND	ug/L						
N-Methyl-N-nitrosomethylamine			U	ND	ug/L						
N-Nitrosodipropylamine			U	ND	ug/L						
Naphthalene			U	ND	ug/L						
Nitrobenzene			U	ND	ug/L						
bis(2-Chloro-1-methylethyl)ether			U	ND	ug/L						
bis(2-Chloroethoxy)methane			U	ND	ug/L						
bis(2-Chloroethyl) ether			U	ND	ug/L						
bis(2-Ethylhexyl)phthalate			U	ND	ug/L						
m-Nitroaniline			U	ND	ug/L						
o-Nitroaniline			U	ND	ug/L						

QC Summary

Workorder: **722163**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Semi-Volatile-GC/MS											
Batch 2791073											
**2,4,6-Tribromophenol	100				78.0	ug/L		78	(31%-126%)	BM1	05/05/25 18:41
**2-Fluorobiphenyl	50.0				34.3	ug/L		69	(35%-107%)		
**2-Fluorophenol	100				52.5	ug/L		53	(15%-72%)		
**Nitrobenzene-d5	50.0				35.1	ug/L		70	(34%-107%)		
**Phenol-d5	100				37.8	ug/L		38	(15%-85%)		
**p-Terphenyl-d14	50.0				35.5	ug/L		71	(20%-118%)		
QC1206091677 721936001 MS											
1,2,4,5-Tetrachlorobenzene	115	U	ND		73.4	ug/L		64	(30%-112%)		05/05/25 20:50
1,2,4-Trichlorobenzene	115	U	ND		68.8	ug/L		60	(27%-108%)		
1,2-Dichlorobenzene	115	U	ND		66.8	ug/L		58	(28%-99%)		
1,2-Diphenylhydrazine	115	U	ND		95.7	ug/L		83	(35%-125%)		
1,3-Dichlorobenzene	115	U	ND		64.9	ug/L		56	(28%-94%)		
1,4-Dichlorobenzene	115	U	ND		65.6	ug/L		57	(32%-93%)		
2,3,4,6-Tetrachlorophenol	115	U	ND		96.8	ug/L		84	(39%-129%)		
2,4-Dinitrophenol	115	U	ND		91.0	ug/L		79	(20%-138%)		

QC Summary

Workorder: **722163**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS												
Batch 2791073												
2,4-Dinitrotoluene	115	U	ND		94.0	ug/L		82	(31%-145%)	BM1	05/05/25	20:50
2,6-Dinitrotoluene	115	U	ND		91.7	ug/L		80	(40%-129%)			
2-Chloronaphthalene	115	U	ND		80.9	ug/L		70	(32%-116%)			
2-Methyl-4,6-dinitrophenol	115	U	ND		94.0	ug/L		82	(28%-146%)			
2-Methylnaphthalene	115	J	0.570		82.8	ug/L		72	(34%-112%)			
3,3'-Dichlorobenzidine	115	U	ND		65.8	ug/L		57	(33%-124%)			
4-Bromophenylphenylether	115	U	ND		101	ug/L		88	(39%-128%)			
Acenaphthene	115	U	ND		84.5	ug/L		73	(33%-118%)			
Anthracene	115	U	ND		91.3	ug/L		79	(41%-121%)			
Benzo(a)anthracene	115	U	ND		90.1	ug/L		78	(41%-121%)			
Benzo(b)fluoranthene	115	U	ND		86.3	ug/L		75	(38%-122%)			
Benzo(k)fluoranthene	115	U	ND		82.2	ug/L		72	(41%-122%)			
Carbazole	115	U	ND		95.8	ug/L		83	(42%-127%)			
Chrysene	115	U	ND		92.2	ug/L		80	(40%-126%)			

QC Summary

Workorder: **722163**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS												
Batch 2791073												
Di-n-octylphthalate	115	U	ND		71.0	ug/L		62	(35%-132%)	BM1	05/05/25	20:50
Dibenzofuran	115	U	ND		94.2	ug/L		82	(40%-120%)			
Fluoranthene	115	U	ND		92.7	ug/L		81	(41%-126%)			
Hexachlorobutadiene	115	U	ND		61.8	ug/L		54	(23%-96%)			
Hexachloroethane	115	U	ND		61.8	ug/L		54	(24%-92%)			
Isophorone	115	U	ND		78.4	ug/L		68	(36%-115%)			
N-Methyl-N-nitrosomethylamine	115	U	ND		66.3	ug/L		58	(22%-98%)			
N-Nitrosodipropylamine	115	U	ND		80.5	ug/L		70	(34%-119%)			
Naphthalene	115	U	ND		72.6	ug/L		63	(31%-108%)			
Nitrobenzene	115	U	ND		75.3	ug/L		66	(38%-116%)			
bis(2-Chloro-1-methylethyl)ether	115	U	ND		73.9	ug/L		64	(29%-119%)			
bis(2-Chloroethoxy)methane	115	U	ND		78.4	ug/L		68	(36%-122%)			
bis(2-Chloroethyl) ether	115	U	ND		74.7	ug/L		65	(34%-115%)			
bis(2-Ethylhexyl)phthalate	115	U	ND		74.9	ug/L		65	(32%-128%)			

QC Summary

Workorder: **722163**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Semi-Volatile-GC/MS											
Batch 2791073											
m-Nitroaniline	115	U	ND		92.1	ug/L		80	(34%-135%)	BM1	05/05/25 20:50
o-Nitroaniline	115	U	ND		92.4	ug/L		80	(29%-131%)		
**2,4,6-Tribromophenol	230		75.5		186	ug/L		81	(31%-126%)		
**2-Fluorobiphenyl	115		34.6		82.0	ug/L		71	(35%-107%)		
**2-Fluorophenol	230		36.7		107	ug/L		47	(15%-72%)		
**Nitrobenzene-d5	115		35.1		74.6	ug/L		65	(34%-107%)		
**Phenol-d5	230		24.3		92.3	ug/L		40	(15%-85%)		
**p-Terphenyl-d14	115		21.6		59.7	ug/L		52	(20%-118%)		
QC1206091678 721936001 MSD											
1,2,4,5-Tetrachlorobenzene	115	U	ND		73.7	ug/L	0	64	(0%-30%)		05/05/25 21:11
1,2,4-Trichlorobenzene	115	U	ND		74.7	ug/L	8	65	(0%-30%)		
1,2-Dichlorobenzene	115	U	ND		72.9	ug/L	9	63	(0%-30%)		
1,2-Diphenylhydrazine	115	U	ND		87.4	ug/L	9	76	(0%-30%)		
1,3-Dichlorobenzene	115	U	ND		70.6	ug/L	8	61	(0%-30%)		
1,4-Dichlorobenzene	115	U	ND		70.7	ug/L	7	61	(0%-30%)		

QC Summary

Workorder: **722163**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Semi-Volatile-GC/MS											
Batch 2791073											
2,3,4,6-Tetrachlorophenol	115	U	ND		85.9	ug/L	12	75	(0%-30%)	BM1	05/05/25 21:11
2,4-Dinitrophenol	115	U	ND		86.3	ug/L	5	75	(0%-30%)		
2,4-Dinitrotoluene	115	U	ND		86.0	ug/L	9	75	(0%-30%)		
2,6-Dinitrotoluene	115	U	ND		85.2	ug/L	7	74	(0%-30%)		
2-Chloronaphthalene	115	U	ND		79.4	ug/L	2	69	(0%-30%)		
2-Methyl-4,6-dinitrophenol	115	U	ND		86.5	ug/L	8	75	(0%-30%)		
2-Methylnaphthalene	115	J	0.570		85.7	ug/L	3	74	(0%-30%)		
3,3'-Dichlorobenzidine	115	U	ND		65.0	ug/L	1	57	(0%-30%)		
4-Bromophenylphenylether	115	U	ND		91.6	ug/L	10	80	(0%-30%)		
Acenaphthene	115	U	ND		77.2	ug/L	9	67	(0%-30%)		
Anthracene	115	U	ND		83.1	ug/L	9	72	(0%-30%)		
Benzo(a)anthracene	115	U	ND		79.2	ug/L	13	69	(0%-30%)		
Benzo(b)fluoranthene	115	U	ND		77.8	ug/L	10	68	(0%-30%)		
Benzo(k)fluoranthene	115	U	ND		75.6	ug/L	8	66	(0%-30%)		

QC Summary

Workorder: **722163**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Semi-Volatile-GC/MS											
Batch 2791073											
Carbazole	115	U	ND		88.1	ug/L	8	77	(0%-30%)	BM1	05/05/25 21:11
Chrysene	115	U	ND		82.8	ug/L	11	72	(0%-30%)		
Di-n-octylphthalate	115	U	ND		64.5	ug/L	10	56	(0%-30%)		
Dibenzofuran	115	U	ND		90.4	ug/L	4	79	(0%-30%)		
Fluoranthene	115	U	ND		81.9	ug/L	12	71	(0%-30%)		
Hexachlorobutadiene	115	U	ND		69.1	ug/L	11	60	(0%-30%)		
Hexachloroethane	115	U	ND		66.3	ug/L	7	58	(0%-30%)		
Isophorone	115	U	ND		81.1	ug/L	3	71	(0%-30%)		
N-Methyl-N-nitrosomethylamine	115	U	ND		73.8	ug/L	11	64	(0%-30%)		
N-Nitrosodipropylamine	115	U	ND		87.0	ug/L	8	76	(0%-30%)		
Naphthalene	115	U	ND		77.1	ug/L	6	67	(0%-30%)		
Nitrobenzene	115	U	ND		81.0	ug/L	7	70	(0%-30%)		
bis(2-Chloro-1-methylethyl)ether	115	U	ND		82.0	ug/L	10	71	(0%-30%)		
bis(2-Chloroethoxy)methane	115	U	ND		84.2	ug/L	7	73	(0%-30%)		

QC Summary

Workorder: **722163**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Semi-Volatile-GC/MS											
Batch 2791073											
bis(2-Chloroethyl) ether	115	U	ND		83.2	ug/L	11	72	(0%-30%)	BM1	05/05/25 21:11
bis(2-Ethylhexyl)phthalate	115	U	ND		68.0	ug/L	10	59	(0%-30%)		
m-Nitroaniline	115	U	ND		85.7	ug/L	7	75	(0%-30%)		
o-Nitroaniline	115	U	ND		87.3	ug/L	6	76	(0%-30%)		
**2,4,6-Tribromophenol	230		75.5		183	ug/L		80	(31%-126%)		
**2-Fluorobiphenyl	115		34.6		86.3	ug/L		75	(35%-107%)		
**2-Fluorophenol	230		36.7		122	ug/L		53	(15%-72%)		
**Nitrobenzene-d5	115		35.1		84.5	ug/L		74	(34%-107%)		
**Phenol-d5	230		24.3		101	ug/L		44	(15%-85%)		
**p-Terphenyl-d14	115		21.6		58.9	ug/L		51	(20%-118%)		

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, the difference is >70%.
- C Analyte has been confirmed by GC/MS analysis
- B The target analyte was detected in the associated blank.
- E Concentration of the target analyte exceeds the instrument calibration range
- A The TIC is a suspected aldol-condensation product
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

QC Summary

Workorder: **722163**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

N	Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
H	Analytical holding time was exceeded
**	Analyte is a surrogate compound
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
D	Results are reported from a diluted aliquot of the sample
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
JNX	Non Calibrated Compound
UJ	Compound cannot be extracted
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
N1	See case narrative
Y	QC Samples were not spiked with this compound
N	Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
I	Analyte does not meet the Ion Abundance Ratio and should be considered an estimated concentration.
FG	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
XG	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
G	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
x	Subaliquot was taken. See Case Narrative for details.

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.