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MONTHLY REPORT OF THE OPERATIONS & MAINTENANCE ACTIVITIES (MARCH 2023)

CLAREMONT POLYCHEMICAL OPERABLE UNIT 5 GROUND WATER TREATMENT SYSTEM, OLD BETHPAGE, NY

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MONTHLY REPORT OF THE OPERATIONS & MAINTENANCE ACTIVITIES (MARCH 2023)
CLAREMONT POLYCHEMICAL OPERABLE UNIT 5 GROUND WATER TREATMENT SYSTEM, OLD BETHPAGE, NY

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LIST OF ACRONYMS AND ABBRIEVIATIONS

AS	Air Stripper
A/V	Air and Vacuum
ASF	Air Stripper feed
BNA	Base Neutral & Acid Extractables
CPC	Claremont Polychemical
CSE	Confined Space Entry
DOSR	Daily Operations Summary Report
EE	Electrical Engineer
GES	Groundwater & Environmental Services, Inc.
GPM	Gallons Per Minute
GWTS	Groundwater extraction, treatment, and reinjection system
HDR	Henningson, Durham & Richardson Architecture and Engineering, P.C.
HMI	Human Machine Interface
HVAC	Heating, Ventilation, and Air Conditioning
MTBA	Tert-Butyl-Methyl ether
MW	Monitoring Well
NYSDEC	New York State Department of Environmental Conservation
O&M	Operation and Maintenance
OU4	Operable Unit 4
OU5	Operable Unit 5
PD	Plant Discharge
PDB	Passive Diffusion Bag
PFAS	Per- and polyfluoroalkyl substances
PFOS	Perfluorooctanesulfonic acid
PFOA	Perfluorooctanoic acid
PID	Photoionization Detector
PFF	Pressure Filter Feed
PLC	Programmable Logic Controller
ppm	parts per million
PW	Process Water
Ramboll	Ramboll Americas Engineering Solutions, Inc.
RW	Recovery Well, Process Well
SPEDES	State Pollutant Discharge Elimination System
SSHP	Site Safety and Health Plan
SU	Standard pH Units
SVOCs	Semi-Volatile Organic Compounds
TBA	Tert-butyl alcohol
TDS	Total Dissolved Solids
TKN	Total Kjeldahl Nitrogen
TOC	Total Organic Carbon
TSS	Total Suspended Solids
US Water	US Water Services Corporation
VOCs	Volatile Organic Compounds,

1. OPERATION AND MAINTENANCE ACTIVITIES

On behalf of Ramboll Americas Engineering Solutions, Inc. (Ramboll), Groundwater & Environmental Services, Inc. (GES) continued the daily operation and maintenance (O&M) of the Claremont Polychemical (CPC) Superfund Site Groundwater Treatment System (GWTS) Operable Unit 5 (OU5) during the month of March 2023. In addition, former Operable Unit (OU4) was inspected once per month to ensure security and building code compliance. For this report every time plant is mentioned it refers to OU5. OU4 will be referred to as such whenever discussed. This report covers the O&M activities for the system during the period defined as beginning at approximately 0830 hours, March 1, 2023, through approximately 0830 hours, March 31, 2023. O&M conducted during this reporting period was guided by the site O&M Manual.

The GWTS – treatment plant, grounds, and well systems - were maintained for the 30 days in this reporting period during which the treatment system experienced 263 minutes of downtime.

Readings of the key plant process parameters are normally recorded each workday. These readings and the Human Machine Interface (HMI) flow trend lines are used to monitor the system's performance and condition. Selected readings are recorded in the daily database which is an electronic file maintained in the monthly operating documents folder. If the plant is not occupied,the system is monitored remotely.

The treatment process control and alarm systems are functional. The recovery well pumps, process pumps, and air stripper blower are operated in the automatic mode and are normally remotely controlled and monitored. RW4 recovery pump shut down on August 17th, 2022, and could not be restarted due to a possible pump motor failure. RW5 recovery pump was replaced on October 10, 2022, but was started on January 5, 2023, following the replacement of high pressure switch on top of the wellhead. RW5 shut down on January 26, 2023 due to pump motor short circuiting.

1.1 Daily Operations Summary Reports

The GWTS's daily operations and maintenance activities, project tasks, and observations during this period are briefly described in the Daily Operations Summary Report (DOSR). The DOSR is based in part on the treatment system's daily operating worksheets and logs which include:

- Daily Operating Log – flow readings and calculations (Form-01)
- Daily Site and Safety Inspection – plant condition checklist (Form-02)
- Daily Plant Activity Notes – plant manager's daily summary (Form-03)
- Sign-In Sheet – GES/Ramboll employee on-site hours (Form-15)
- Daily Process Data Sheet – point process readings (Form-30)
- Logbook CPC 5-8– plant operator's daily logbook
- Daily Database – daily process readings (March 23 Database.xlsx)
- NYSDEC Log-in Sheet – Entry/Exit Log with COVID-19 Acknowledgement

1.2 Summary of Maintenance Activities

The operation and maintenance of the treatment system, facility, and associated equipment is performed in accordance with the site O&M Manual. These tasks and inspections incorporate the

equipment manufacturers' recommendations, operations experience, and good engineering and maintenance practices. A detailed accounting of the February activities is further provided in the plant operator's daily logbook.

Maintenance and project activities undertaken during the February period included:

- Routine and general maintenance tasks were conducted at the plant, on the grounds,and in the well fields.
- Single Air Stripper Feed (ASF) pumps were placed into hand mode and frequently switched to cycle their activity.
- The monthly process equipment tests were conducted.
- The Operable Unit 4 (OU4) comprehensive inspections were completed.
- The monthly Process/Recovery Well (RW) system inspection was completed.
- Basin 33 was inspected.
- The ASF pumps were lubricated, and the seals tightened.
- The OU5 comprehensive inspections were completed.
- The Pressure Filter Feed (PFF) pumps were lubricated, and the seals tightened.
- The fire alarm system components were inspected.
- The monthly electrical device survey was completed.
- The SUNY wellfield was inspected.

1.3 Maintenance Logs

The following operating logbooks are currently in use and maintained at OU5:

- CL-18 OU-4 Log (at OU4)
- CL-43 General Field Support Log (truck)
- CL-47 Misc. Projects Field Notebook (Pawel Mecinski)
- CPC 5-4 Project Support Logbook (site)
- CPC 5-8 Site Supervisor's Daily Logbook (Pawel Mecinski).

Except for log CPC 5-7, the completed logbooks associated with the project have been scanned, all are in storage at OU5, and are available for review.

2. TECHNICAL SUPPORT ACTIVITIES

2.1 GES/Ramboll Personnel

- GES maintained the system throughout the period.
- On March 29, 2023 - Ramboll PLC Technical group assisted with system PLC troubleshooting and maintenance of the electronic controls.

2.2 NYSDEC Personnel, Sub - contractors, and Other Visitors

- On March 2, 2023, Maccarone Plumbing technician on site to conduct backflow preventer annual pressure test.
- On March 13, 2023, US Water crew and Bay Crane operator on site to conduct RW-5 pump extraction and pump test.
- On March 31, 2023, BK Fire Suppression and Security Systems technician on site at OU-4 to conduct annual fire suppression system inspection.

2.3 Deliveries

- On March 3, 2023, FedEx delivered sampling coolers for the upcoming remedial system sampling events scheduled for March 2023.

3. HEALTH AND SAFETY

Work at the Claremont GWTS OU5 was conducted in accordance with the approved and Ramboll adopted Site Safety and Health Plan (SSHP). Safety related activities during this period included:

- The water remained off at OU4. Both potable and non-potable lines were drained. (No sanitary water)
- Daily site safety inspections were completed as part of the routine O&M activities.

4. PLANNED ACTIVITIES AND SCHEDULES

The evaluation of the plant operating system and equipment is ongoing by GES/Ramboll. A list in the form of corrective actions or maintenance tasks has been generated as a monthly system status report. These reports are updated as needed and reviewed at least monthly. Both are electronically filed. The corrective action list is included at the end of this report as **Table 1** – Claremont Corrective Action Summary.

Upcoming tasks include:

- OU4 remains without water to the fire sprinkler system due to no heat in the building.
- OU4 potable water line was shut off due to pipe ruptures from frozen pipes.
- RW5 requires a new motor to be installed at the pump.
- RW4 pump motor inspection and replacement due to recent failure.
- Air valve at MW-6 cluster in Bethpage State Park reinsertion.
- Investigate plant electric driven back-up heater failures.
- Close and exercise all globe valves at the non-operational recovery wells.
- OU5 Annual fire extinguisher inspection to be scheduled.
- OU5 Annual fire alarm inspection to be scheduled.

5. MONITORING WELL WATER ELEVATIONS

The monitoring well system's groundwater elevation data table was updated after the March 2023 quarterly GW elevation recording task. This database is available for review. The next set of synoptic water level measurements will be scheduled for May 2023 and will be conducted by Ramboll.

6. TREATMENT SYSTEM FLOWS

During the March period, the plant continued to operate in the auto control mode. The volume of treated water discharged by the treatment system to the selected recharge basin was calculated

from the plant influent and effluent flow meter readings. These readings are taken at the HMI and recorded in the daily database.

RW5 pressure switch was replaced on January 5, 2023 and the well was successfully restarted on automatic run mode. RW-5 experienced electrical short across the motor windings on January 26, 2023 and has been confirmed to be inoperable. The motor short circuiting has been confirmed on March 13, 2023, during pump extraction and inspection activities. RW3 continues to function normally. RW4 has been offline since August 17, 2022 with pump replacement pending.

During the month of March, the plant discharge was directed to Recharge Basin 1 until March 3, 2023 when the effluent flow was redirected back to Recharge Basin 33.

The total volume of treated water discharged from ~0830 hours March 1 to ~0830 hours March 31 was approximately 10,282,000 gallons. The data in **Table 2** is a summary of plant discharge flows.

A graphic representation of the system's daily plant discharge output is provided in **Figure 1** and the daily plant totalizer readings for March are provided in **Table 3**, both following the text of this report.

Under current conditions, the PLC and the control system are functioning as designed. Flows from the individual recovery wells are remotely read, transmitted, and totalized.

The flow summary for the individual components of the system can be found in **Table 4** at the end of this report.

7. CHEMICAL CONSUMPTION

The hydrochloric acid feed system is currently off-line, and the system is void of acid. There are four drums of virgin acid on site. No acid was used for water treatment purposes in March of 2023.

The sodium hydroxide storage system is currently not in use and the system is empty of caustic. There is no bulk sodium hydroxide on site and no caustic was used in March of 2023.

The sodium hypochlorite storage system is currently not in use and the system is empty of bleach. No bulk sodium hypochlorite is stored on site. No sodium hypochlorite was used in March of 2023.

8. WASTE DISPOSALS

Routine accumulation of waste materials continued from plant clean-up and organizational tasks. Waste removal is being handled by National Waste Services, LLC. Waste container was emptied on December 30, 2022.

9. MONTHLY DISCHARGE MONITORING REPORT

The GWTS is operated under an equivalency permit from the NYSDEC. **Table 5** presents the Claremont OU5 O&M Sampling and Measurement requirements and their frequency. The analytical results for the plant discharge sampling conducted on March 3, 2023 indicate that the analyzed parameters were compliant with permit limits (**Table 6**). Monthly system sampling analytical results are provided in **Attachment 1**.

The OU5 GWTS plant's water discharge permit is in the process of being renewed by the NYSDEC.

10. PENDING ISSUES AND CONSIDERATIONS

Mechanical repairs have been made to the plant HVAC system at OU4. Upon testing, the gas supply appeared to be shut off. Ramboll is currently planning demolition of the OU4 building.

The sprinkler system at OU4 remains drained of water. The potable and non-potable water lines at OU4 have been drained.

The discrepancies/inaccuracies in the plant flow meter readings at OU5 may be due to the inappropriate configuration of the local piping. Future calibration or adjustment of pulse reading may be required.

Following PLC troubleshooting at RW5, a new replacement pressure switch has been ordered for the pump wellhead. A temporary used pressure switch was taken from RW2 and installed at RW5, which enabled successful operation of the pump in auto mode. RW5 experienced a line over-amperage and possible motor windings short on January 26, 2023 and could not be restarted. The pump requires inspection for motor winding and motor down-well conduit damage. A new pressure switch was installed on March 23, 2023 and the used one was re-installed at the RW2 vault.

RW4 needs a motor replacement following failure on August 17, 2022.

The 2.5-inch drain valve on system effluent pipe was replaced on January 26, 2023.

All three electric plant back-up heaters do not operate. These units should be repaired as soon as possible. The plant HVAC heat is currently operational, however during the recent cold weather, the system struggled to produce heat in the plant area.

The OU4 plant is offline and its disposition including that of the injection well system, and vapor carbon beds is pending.

The status of key aspects of OU4 are as follows:

- The plant heat is currently off, and the system is out of service.
- The fire alarm panels are off-line.

- The fire sprinkler system is currently off-line. The water has been drained from the system. An alarm system for the sprinkler has been installed with central monitoring.
- The facility is secure, and its physical monitoring continues.
- The facility and grounds are not maintained except for the facility entrance and plant egress points.
- NYSDEC plans on decommissioning and demolishing OU4. A team from Ramboll is in the process of developing bid documents for this work.

11. PLANT DOCUMENTS

Procedures and standard forms are written, reviewed, and revised as needed. As-built drawings are generated and updated as necessary.

12. MONITORING RESULTS

The CPC GWTS is monitored through the analysis of off-site laboratory analytical data and on-site field data.

12.1 Off-site Analytical Data Results

Monthly Plant Discharge (PD) samples are taken for organic analysis in compliance with the NYSDEC discharge permit. Quarterly groundwater samples are taken for organic analysis, and quarterly process water (PW) samples are taken for organic, inorganic, and generic analysis. At the direction of the NYSDEC in an August 17, 2022 email, analysis of Per- and polyfluoroalkyl substances (PFAS) and 1,4-dioxane were added to monthly sampling for both influent and effluent for the foreseeable future. The March 2023 PFAS and 1,4-dioxane influent and effluent results can be found in **Table 7** following the text of this report. Quarterly system sampling analytical results are provided in **Attachment 1**.

The March sampling activities included:

- The March PD data was processed and submitted.
- Quarterly system sampling was completed on March 3, 2023.
- Quarterly groundwater elevation monitoring and groundwater sampling via low flow and passive diffusive bags.

12.2 Field Data

12.2.1 Plant Discharge pH and Temperature

The treatment plant effluent is monitored for pH and temperature on a weekly basis to obtain a monthly average in compliance with the NYSDEC discharge permit requirements. These measurements are taken from the plant effluent at a controlled point with a calibrated portable meter. The plant discharge readings for March 2023 can be found in **Table 8** following the text of this report.

The March 2023 average pH measurement was 7.56 standard units (su). The NYSDEC discharge permit requires the plant discharge to have an average monthly pH between 6.5 and 8.5 su. The results for this month meet this requirement. Data showing the plant discharge's monthly average pH trend over several months is provided in **Table 9** following the text of this report.

12.2.2 Air Stripper (AS) Tower Air Monitoring

Using a calibrated photoionization detector (PID), the vapor discharge from the air stripper tower was monitored weekly for volatile organic compounds (VOCs). The measurements were taken from the tower's effluent air stream through Port B when the treatment system is online. The March 2023 readings from the AS tower are provided in **Table 10**.

Other routine data collected in March included:

- The electric and water meter readings at OU5 were recorded weekly.
- The plant vaults and selected areas were monitored for VOCs weekly.
- The plant sound levels were recorded bi-weekly.
- The monthly electric and gas meter readings for OU4 were recorded.
- The recharge basins were inspected weekly.
- The differential pressure readings across the AS Tower were recorded bi-weekly.

13. PROCESS ANALYSIS AND SYSTEM STATUS

The treatment system is currently operated 24/7 in the automatic mode. It is remotely monitored as necessary.

13.1 Extraction (RW) Processes

- The monthly system inspection was completed.
- The vault space heating units were deactivated on March 23, 2023.
- The recovery well pump system is remotely controlled and monitored, it operates in the auto mode. The pump at RW3 is online and fully functional. RW4 was fully functional until August 17, 2022 when it experienced a possible motor failure. RW5 experienced problems beginning on March 12, 2022, that left it inoperable through the end of October 2022. Pump replacement was conducted on October 10, 2022, however, due to signal issues, the pump could not be operated in automatic mode. A pressure switch was taken from RW2 and installed in RW5 on January 5, 2023. A new replacement pressure switch has been ordered and will be installed upon delivery. The pump was activated on January 5, 2023 and shut down on January 26, 2023 due to electrical short issues at the pump motor. A new pressure switch was installed on March 23, 2023.
- Pump flow readouts are transmitted to the plant and the totalizers for pumps RW3, and RW4 are fully functional. The flow meter for RW5 occasionally stops transmitting.
- Air/Vacuum (A/V) valve at station 33+96 encountered a leak in May that required the vault to be pumped out and have its air/vacuum valve removed. Currently a stopper has been fitted to the pit that allows water to flow through the system.
- The Air/Vacuum (A/V) valve at station 16+57 and 17+10 remain isolated from the transmission line.
- RW1 and RW2 are offline and periodically run for preventative maintenance purposes. Their flow meters are not transmitting through the PLC. When repairs were made at RW1 in

November 2021, stones were removed from the flow meterhousing. There was a thick coating of iron salt deposits on the housing and impeller.

13.2 AS Process

- The three OU5 ASF pumps in the AS Process are fully functional.
- Motors and seals were lubricated on a bi-weekly schedule. Seals were tightened and the drains were cleared as necessary.
- The AS tower main drain valve's manual actuator is not functional (fail open).
- The tower media appears clean as the pressure differential between the top and bottom ports remains relatively constant. The lower section of media has been visuallyinspected.
- The discharge valves for ASF P1 and P2 appear to be frozen in the open position.

13.3 PD Process

- The plant discharge flow is currently directed to Recharge Basin 33. The flow was switched to Recharge Basin 1 on January 26, 2023 due to RB#33 being close to overflow. The flow was reverted back to RB#33 on March 3, 2023.
- The valve influent to Recharge Basin 1 remains closed as of March 3, 2023.
- Pump 1 has been taken out of service due to excessive noise and vibration. A full evaluation is required. Pumps 2 and 3 are fully functional.
- The motors and seals were lubricated as necessary.
- The discharge valve for PFF P3 has failed open.

13.4 Other

- The plant's first bank of lights is wired to the emergency-light recharging system. The circuit is kept on 24/7. The lamps appear burnt out. The second bank of lights provides sufficient lighting for general tasks. Additional work lights were installed around the plant area to further illuminate work areas.
- The potential for leaks in the water supply line running through the plant will continue to be monitored.
- The fire alarm and central monitoring systems are fully functional.

14. GROUNDS

14.1 Plant Perimeter

- General outdoor clean-up tasks are on-going.
- The fencing is clear and secure.

14.2 Well Field

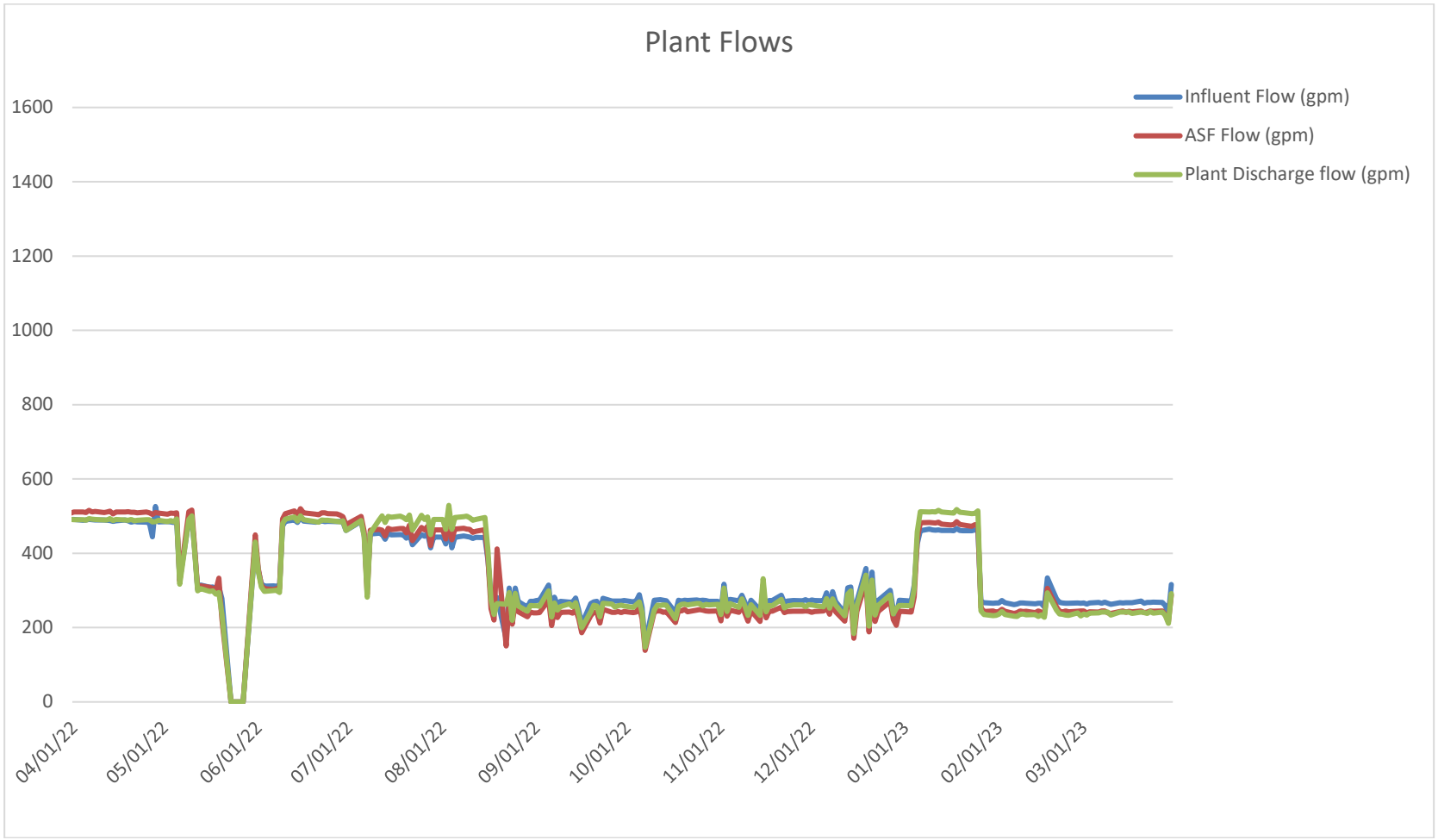
- Well field, and recharge basin inspections continue.

14.3 Other

- The CPC GWTF OU4 is secure.
- The property at and around the OU4 site continues to be inspected. While the grounds are not maintained, the treatment plant's entrance and egress points are kept clear and functional.

FIGURE

Figure 1
Plant Discharge Daily Flow



TABLES

Table 1
Claremont Corrective Actions Summary

Condition to be Corrected	Status and Actions	Resources	Plant Ops Impact	Health & Safety Impacts
The RW Discharge Manifold integrity is suspect	The condition of the various devices on the RW discharge manifold are suspect. The Air Vent valve in the vault on the N-side of the 6th fairway is leaking from the influent nipple. **The shut-off valve was closed and the device isolated.** The air-vent valve in the vault to the east of the 6th green is leaking. **The shut-off valve was closed and the device isolated.** **The manifold employs isolation, venting, and drain valves as well as other devices. Along the path of the manifold are vaults which house some of these devices. These vaults need to be accessed, pumped out, and the devices tested.** **Two isolation valves were closed between RW1 and RW3. These valves seemed to hold.**	Plant staff and outside contractors	Possible shutdown	May require a Confined Space Entry (CSE)
AS Tower main drain valve is not controlled	The valve does not respond to manipulation of its actuator. ***This valve should be replaced*.** ***No further action is planned at this time.***	Operator	Plant will need to be shut down to change out the valve	None

Condition to be Corrected	Status and Actions	Resources	Plant Ops Impact	Health & Safety Impacts
OU4 fire alarm system is not functioning Central monitoring of the fire alarm system or fire suppression system does not exist OU4 electrical system has been unstable	The Nassau County Fire Code indicates that the sprinkler system must have central monitoring for flow and valve tampering. The fire alarm system needs to be replaced and centrally monitored. Several contractors have been at the site to propose options for the system. BK Fire installed central monitoring on the sprinkler system. Both are offline as the sprinkler system will remain drained until the HVAC system is repaired. Certain OU4 lights currently create a large amount of noise in the fan box within the control room. The southern lights flicker and then die including the emergency system. OU4 is currently being planned for demolition.	Plant operator, Electrical Engineer (EE) and outside vender	None at this time	Fire code violations. High altitude tasks, safety code violations
Several leaks were observed in the plant overhead water supply line	Adjacent to the north door a clam-shell type clamp was applied. The second leak observed above the AS Blower is not readily accessible. It is not problematic. ***Repair work may require evaluation and outside resources. Currently the situation is controlled.***	Outside plumbing contractor	None	Sanitary water may be shut off during repairs

Condition to be Corrected	Status and Actions	Resources	Plant Ops Impact	Health & Safety Impacts
The float controls for the PFF pump system have intermittently shorted out causing the system to not properly control the pumping operation	The wiring of the pump control system is connected below grade. The junction box in the wet well is thought to be filled with water creating a problem with the float switches to control relay wiring. The box cannot be opened without damage to it and the conduit. This appears to have been a longstanding problem, as when switches have been replaced in the past, they were spliced outside the box. The float switches have been replaced and spliced above the sump but there remains a problem with the L2 circuit. The output from the W-2 relay was moved to the output for the W-1 relay. This has stopped the short cycling. ***The control wiring should be changed and moved above grade. Currently the second splices to the floats are above ground outside the vault.***	Plant operator and GES resources	Plant shut down is required	Possible Confined Space Entry work
PFF P1 has failed	The pump when activated immediately makes a lot of noise, and the pump drop pipe shakes. Smoke/ fumes emanated at the Motor-shaft connection. The motor appears to be good. The pump was removed from service, February 24, 2020. ***It is recommended that the motor be disconnected, lifted, and the mechanical connection checked.***	Outside contractors	None anticipated	To be determined

Condition to be Corrected	Status and Actions	Resources	Plant Ops Impact	Health & Safety Impacts
As the ASF pumps cycle off/on, the check valves have started to slam closed. When reactivating, the motor starter contact is rather violent. Both actions tend to rattle the piping and fixtures	There is no available literature regarding the check valves, so the exact description of their functioning parts is to be determined. A softer start/stop control may fix this issue. ***This will need further investigation. Soft-start equipment and variable frequency controls were discussed.***	Plant operator and EE support	If replacement or repairs are necessary, a plant shutdown will be required as the units can- not be isolated	To be determined
The flowmeters for system flow, ASF flow and plant discharge are out of sync with the flow meters on the recovery wells	While the ASF flow meter is the most out of line, it is plumbed correctly. The influent system flow meter and the plant discharge flow meters are piped incorrectly. The same style of relay is used to count pulses, but the meters have not been calibrated. **The system needs further investigation to determine if any changes are warranted.**	EE support	To be determined	none
EF-4 is not operatable	The fan is controlled through the mezzanine thermostat, but it does not appear to be operating. The fan requires electrical testing. **The system was checked, it appears that the fan is not functioning. The fan should be replaced.**	EE support	Only in an emergency	Only in an emergency
Wiring nests in main control console	**The wiring in the main control console needs to be cleaned up and labeled, to facilitate problem troubleshooting and process improvements.**	EE support	A shut down may be necessary	Electrical work

Condition to be Corrected	Status and Actions	Resources	Plant Ops Impact	Health & Safety Impacts
Pressure Filter Feed pump controls	With P1 out of service, the sequencing of pumps allows for the PFF vault to reach HHL conditions in certain circumstances. **Reprogram the sequencing to eliminate the position of P1.**	EE support	To be determined	To be determined
RW5 has failed	RW5 pump was replaced on October 10, 2022, however due to PLC signal loss, it cannot be operated in automatic mode. GES conducted troubleshooting and parts replacement without success. System controls were examined by a PLC certified technician mid-December and determined pressure switch failure. Used device has been installed while a new one has been ordered. The pump ran on auto mode from January 5, 2023 to January 26, 2023 until an electrical short at the motor disabled the safe operation of the pump. New pressure switch was installed on March 23, 2023.	Plant Operator and Ramboll.	Less water is treated	To be determined
RW4 has failed	RW4 started to experience possible motor thermal overload shutdowns on multiple occasions during August monitoring period. The pump motor fully shut down on August 17, 2022 and all troubleshooting/restarting attempts were unsuccessful. The motor will need to be removed and replaced to restore functions.	Plant Operator and US Water	Less water is treated	To be determined
Air vacuum valve removal	On May 22, 2022 RW4 was shut down due to a leak detected in the field near an air/vacuum valve pit. On May 24 2022 through May 25, 2022 water was pumped out of the vault and on May 31, 2022 a confined space entry was made to attempt to tighten the valve in an effort to stop the leak. This tightening was unsuccessful, and the valve was removed entirely and replaced with a blank flange until further	GES Mechanical Support	Less water is treated	Confined space entry required to do work in vault

Condition to be Corrected	Status and Actions	Resources	Plant Ops Impact	Health & Safety Impacts
	notice.			
Plant Electric Heater UH-3 failure and HVAC system performance	During sub-20 deg.F weather, the emergency electric heater failed. The HVAC system struggled to produce heat and the plant temperatures dipped to around mid-30's during that time.	Outside contractor	Water lines freezing	Equipment damage

Other Plant Conditions of Note (no action required at this time)

- The methane detection system is offline. **To function, it will need a technical inspection and maintenance**. However, methane does not currently appear to be a hazard.
- It has been determined that intrinsically safe components are no longer required in the plant.
- There has been no need for acid washing of the AS Tower media, the hydrochloric acid feed and storage system have not been operated. The tanks have not been filled and the level monitoring system has not been operated.

As previously noted, there are pieces of equipment that are out of service and require repairs. Currently there are no plans for addressing these conditions as the operation of this equipment is not necessary or needed for the operation of the treatment system.

Equipment	Fault	Status
Plant electric heater UH-1	Needs transformer	Heater is not needed
Plant electric heater UH-2	Needs relay timer and wiring repairs	Heater is not needed
Recovery well pump pressure switch assembly	Units are unwieldy and subject to vibration, corrosion, and leaks	Each unit requires assessment and disposition
NaOH sump pump	Pump is not operating	No water or chemicals stored in vault. Portable submersible pump in sump should suffice
Plant lights are wired to the emergency light charging system	Un-segregated light cannot be shut off. Several of the lamps may have burnt out	The bank of lights appear to have failed/burnt out. The second bank of lights are sufficient
Plant exhaust fans are part of methane system	Fans cannot be manually operated	Once the methane monitoring system is online, the fans can be operated
Plant discharge drain	Leak in Victaulic fitting	Drain line on plant discharge intermittently leaks. Parts are in-house. Not pressing
ASF pump isolation valve	Valve P1 has failed open	Not needed at this time

Equipment	Fault	Status
PFF pump isolation valve	Valve P3 has vailed open	Not needed at this time
RW1 flow meter	The meter is not operating	Pump is offline. Rocks were pulled from the housing and iron sediment was encrusting the flow meter impeller and housing
RW2 flow meter	The meter is not transmitting	Pump is offline
Air stripper flow meter	Non-functional and removed	
AH-1 condenser	Air conditioner is non-functional	Two window AC units in place
Plant outdoor lights	9 of 12 lights not functioning	Not a security issue

Table 2
Plant Discharge Average Flow & Volume

Period	Average Flow (gpm)	Average Daily volume (gal)	Total Period Flow (gal)	Min off	Min on
Q4 2016	517	745,000	68,540,000	7,309	125,171
Q1 2017	520	748,244	67,342,000	655	128,945
Q2 2017	576	829,130	76,280,000	6,165	126,315
Q3 2017	634	913,576	84,049,000	1,110	131,370
Q4 2017	256	368,762	33,926,110	69,165	63,315
Q1 2018	53	75,989	6,839,000	118,180	11,420
Q2 2018	179	258,284	23,762,103	102,929	29,551
Q3 2018	504	725,280	66,725,717	57,416	75,064
Q4 2018	726	1,045,065	96,145,984	23,734	108,746
Q1 2019	527	758,467	68,262,000	735	128,865
Q2 2019	662	953,877	87,756,724	405	132,075
Q3 2019	685	985,802	90,693,740	108	132,372
Q4 2019	655	943,871	82,116,780	5,039	129,326
Q1 2020	480	682,527	62,110,000	1,824	129,326
Q2 2020	698	996,998	88,732,846	3,838	127,185
Q3 2020	669	955,928	87,945,333	1,099	131,401
Q4 2020	695	1,001,365	92,125,539	52	132,497
Q1 2021	708	1,019,733	91,776,000	0	129,603
Q2 2021	709	1,021,317	92,939,850	0	131,040
Q3 2021	615	884,934	81,413,897	0	132,475
Q4 2021	677	928,370	85,410,047	6,317	126,185
Q1 2022	633	1,291,661	80,082,987	5,280	124,320
Q2 2022	434	624,605	53,716,000	12,200	123,840
Q3 2022	365	514,501	46,283,000	3,004	124,994

Period	Average Flow (gpm)	Average Daily volume (gal)	Total Period Flow (gal)	Min off	Min on
Q4 2022	257	369,307	34,007,000	491	132,154
Q1 2023	305	434,900	37,841,000	323	123,817

Acronyms: gal - gallons gpm – gallons per minute

Table 3
Plant Daily Totalizer Readings

March 2023 Flows						
	Plant Influent		Plant Discharge		RW Discharge	
Date	Volume	Avg. Flow	Volume	Avg. Flow	Volume	Avg. Flow
03/01/23	-	244	-	231	-	265
03/02/23	352,000	244	341,000	237	384,000	267
03/03/23	345,000	240	336,000	233	379,000	263
03/06/23	1,047,000	242	1,032,000	239	1,152,000	267
03/07/23	348,000	242	345,000	240	386,000	268
03/08/23	352,000	244	348,000	242	382,000	265
03/09/23	352,000	244	348,000	242	387,000	269
03/10/23	345,000	240	348,000	242	382,000	265
03/13/23	1,028,000	238	1,010,000	234	1,136,000	263
03/14/23	350,000	243	348,000	242	385,000	267
03/15/23	352,000	244	348,000	242	383,000	266
03/16/23	347,000	241	348,000	242	385,000	267
03/17/23	351,000	244	348,000	242	385,000	267
03/20/23	1,049,000	243	1,030,000	238	1,155,000	267
03/21/23	353,000	245	348,000	242	391,000	272
03/22/23	346,000	240	346,000	240	382,000	265
03/23/23	348,000	242	343,000	238	386,000	268
03/24/23	352,000	244	350,000	243	386,000	268
03/27/23	1,053,000	244	1,032,000	239	1,159,000	268
03/28/23	353,000	245	348,000	242	386,000	268
03/29/23	337,000	242	334,000	239	373,000	267
03/30/23	301,000	246	295,000	241	326,000	267
03/31/23	352,000	244	356,000	247	386,000	268
	March Total Plant **Influent** (Gal)			10,413,000		
	March Total Plant **Effluent** (Gal)			10,282,000		
	March Total **RW Discharge** (Gal)			11,456,000		

Acronyms: gal - gallons gpm – gallons per minute

Table 4
Pump System Flow Readings

March	On-Time Minutes (actual)	Avg. Flow (gpm)	Avg. Flow (gpd)	Total Flow (gal)
RW1*	5	149	0	745
RW2*	5	209	0	1,045
RW3	42,937	253	361,467	10,844,000
RW4	0	0	0	0
RW5	0	0	0	0
RW Totals	42,937	267	381,867	11,456,000
Plant Influent	42,937	243	347,100	10,413,000
Plant Effluent	42,937	239	342,733	10,282,000

Acronyms: gal - gallons gpm – gallons per minute gpd – gallons per day

The treatment process was online 30 days during this period with 263 minutes of downtime. Flows are taken from the HMI meter readings.

* Offline aside from monthly process equipment test to check their functionality. There are no average gallons per day.

Table 5
Claremont OU5 O&M Sampling/Measurement Program and Frequency

Measurement / Analyte	Sampling Location			
	System Influent	Plant Discharge	Recovery Wells	Monitoring Wells
Flow	Daily	Daily	Daily	NA
pH	Quarterly	Weekly	Quarterly	Quarterly
VOCs (+Tert-Butyl-Methyl ether (MTBA) & Tert-butyl alcohol (TBA))	Quarterly	Monthly	Quarterly	Quarterly
Semi-Volatile Organic Compound (SVOC) Base Neutral & Acid Extractables (BNA)	Quarterly	Monthly	NS	NS
Per- and polyfluoroalkyl substances (PFAS)	Monthly	Monthly	NS	Quarterly[(1)]
1,4-Dioxane	Monthly	Monthly	NS	Quarterly[(1)]
Total Kjeldahl Nitrogen↦ (TKN)	NS	Quarterly	NS	NS
Total Suspended Solids (TSS)	Quarterly	NS	Quarterly	NS
Total Organic Carbon (TOC)	Quarterly	NS	NS	NS
Total Dissolved Solids (TDS)	NS	Quarterly	NS	NS
Cyanide	NS	Quarterly	NS	NS
Hexavalent Chromium	NS	Quarterly	NS	NS
Mercury	NS	Quarterly	NS	NS
Metals	Quarterly	Quarterly	Quarterly	NS
Anions	NS	Quarterly	NS	NS

Notes: NA – Not applicable; NS – Not sampled. [(1)] – CPC wells only

Table 6
Plant Discharge Analytical Results
March 3, 2023

Parameters	Discharge Limitations (SPDES)	Units	Results
pH (range)	*6.5 – 8.5*	*su*	*7.56*
1,1,1-Trichloroethane	5	ug/l	U
1,1-Dichloroethane	5	ug/l	U
1,1-Dichloroethylene	5	ug/l	U
1,2- Dichloroethane	0.6	ug/l	U
Benzene	0.7	ug/l	U
Chlorobenzene	5	ug/l	U
Chloroform	7	ug/l	U
CIS 1,2-Dichloroethylene	5	ug/l	U
Ethylbenzene	5	ug/l	U
Methylene Chloride	5	ug/l	U
Tert-butyl alcohol (TBA)	Not indicated	ug/l	U
Tert-Butyl-Methyl ether (MTBA)	5	ug/l	U
Tetrachloroethylene (PCE)	5	ug/l	U
Toluene	5	ug/l	U
Trans 1,2-Dichloroethylene	5	ug/l	U
Trichloroethylene (TCE)	5	ug/l	U
Bis(2-ethylhexyl) phthalate	5	ug/l	U
Di-n-butyl phthalate	50	ug/l	U
Nitro Benzene	0.4	ug/l	U
Antimony, Total recoverable	3	ug/l	U
Arsenic, Total recoverable	50	ug/l	U
Barium, Total recoverable	2000	ug/l	55
Chromium, Hexavalent	100	ug/l	U
Lead, Total recoverable	50	ug/l	U
Iron, Total recoverable	600	ug/l	U
Manganese, Total recoverable	600	ug/l	190
Mercury	Not indicated	ug/l	0.24
Zinc	Not indicated	ug/l	23
Nitrogen, Total (as N)	10	mg/l	8.4
Selenium, Total recoverable	40	ug/l	U
Solids, Total Dissolved	1000	mg/l	260
Chloride Ion	NL	mg/l	130
Cyanide	Not indicated	ug/l	U
Fluoride Ion	NL	mg/l	U

Parameters	Discharge Limitations (SPDES)	Units	Results
Sulfate Ion	NL	mg/l	24

J – Estimated value **U** – Analyzed but not detected **NL** – Monitor only **NS**– Not sampled
SPDES – State Pollutant Discharge Elimination System
ug/l – micrograms per liter **ng/l** – nanograms per liter **mg/l** – milligrams per liter
Discharge limitations updates as per the water discharge permit.
Note: Parameters shaded in gray are analyzed quarterly with results generally being provided March, June, October, and December.

Table 7
Emerging Contaminant Influent & Effluent Analytical Results
March 3, 2023

Parameters	Guidance Values	Units	Influent Results	Effluent Results
Perfluorooctanoic acid (PFOA)	10[1]	ng/l	47 / 47	47 / 47
Perfluorooctanesulfonic acid (PFOS)	10[1]	ng/l	16 / 16	17 / 16
1,4-Dioxane	1[2]	ug/l	38 / 39	41 / 39

J – Estimated value **U** – Analyzed but not detected **ug/l** – micrograms per liter
ng/l – nanograms per liter **x / x** – indicates primary/duplicate results

[1] New York State Department of Environmental Conservation, Sampling, Analysis and Assessment of Per- and Polyfluoroalkyl Substances (PFAS), November 2022.
[2] New York State, Department of Health, Subpart 5, Table 3, May 2018.

Table 8
Effluent pH and Temperature Readings

Date	pH (su)	Temp (°C)
03/06/2023	7.61	14.1
03/13/2023	7.46	16.2
03/21/2023	7.72	8.8
03/28/2023	7.43	13.2
March Average	**7.56 su**	**13.1 °C**

Table 9
Plant Discharge Monthly Average pH

Month	pH(su)
Aug '19	6.56
Sept '19	7.45
Oct '19	6.86
Nov '19	6.88
Dec '19	6.84
Jan '20	6.63
Feb '20	6.75
Mar '20	6.74
Apr '20	6.65
May '20	6.8
June '20	6.8
July '20	6.9
Aug '20	6.8
Sept '20	6.8
Oct. '20	6.95
Nov '20	6.8
Dec '20	6.64
Jan '21	6.8
Feb '21	6.75
Mar '21	6.76
Apr '21	7.28
May '21	7.53
June '21	7.44
July '21	7.41
Aug '21	7.42
Sept '21	7.13
Oct '21	7.10
Nov '21	7.09
Dec '21	7.01
Jan '22	6.90
Feb '22	6.90
Mar '22	6.80
Apr '22	6.78
May '22	6.79
June '22	6.79
July '22	7.01
Aug '22	6.99
Sept '22	7.19
Oct '22	7.62
Nov '22	7.68
Dec '22	7.52

Month	pH(su)
Jan ‘23	7.24
Feb ‘23	7.36
Mar ‘23	7.56

Plant Discharge Monthly Average pH Readings

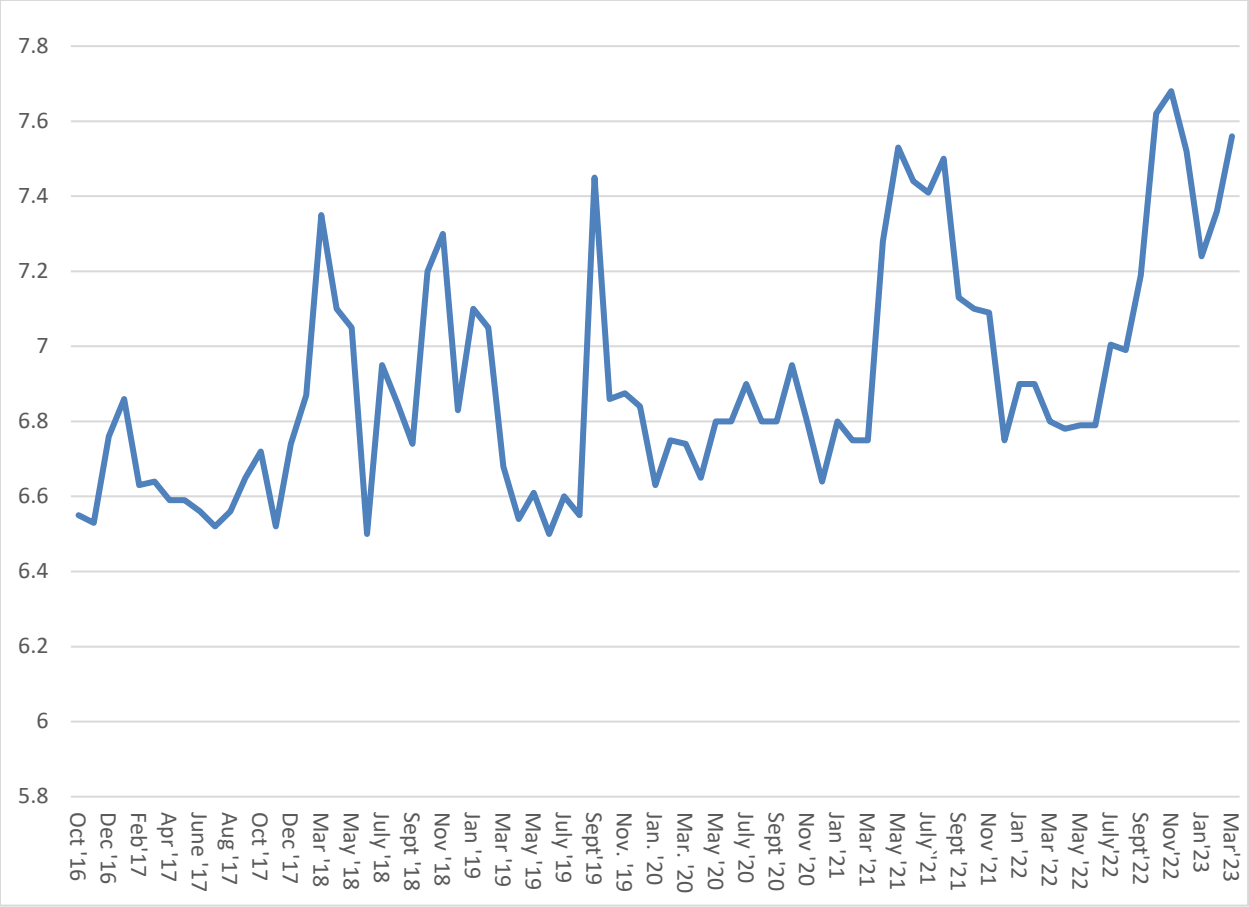


Table 10
AS Tower Air Monitoring Readings

Recorded Date	Port B (ppm)
03/06/2023	0.1
03/13/2023	0.0
02/21/2023	0.0
02/28/2023	0.0

ATTACHMENT 1
QUARTERLY O&M SAMPLING ANALYTICAL RESULTS –MARCH 3, 2023

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

March 28, 2023

Payson Long
NYDEC_Ramboll US Consulting, Inc. - Syracuse
333 West Washington Street, PO Box 4873
Syracuse, NY 13221

Project Location: Old Bethpage, NY
Client Job Number:
Project Number: 130015
Laboratory Work Order Number: 23C0650

Enclosed are results of analyses for samples as received by the laboratory on March 6, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kyle A. Murray
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

NYDEC_Ramboll US Consulting, Inc. - Syracuse
333 West Washington Street, PO Box 4873
Syracuse, NY 13221
ATTN: Payson Long

REPORT DATE: 3/28/2023

PURCHASE ORDER NUMBER: 144165

PROJECT NUMBER: 130015

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23C0650

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Old Bethpage, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
ASF-CP-00-030323	23C0650-01	Ground Water		SM 21-23 5310B	
				SM21-23 2540D	
				SW-846 6010D	
				SW-846 7470A	
				SW-846 8260D	
				SW-846 8270E	
ASF-CP-01-030323	23C0650-02	Ground Water		SM 21-23 5310B	
				SW-846 6010D	
				SW-846 7470A	
				SW-846 8270E	
PD-CP-00-030323	23C0650-03	Ground Water		-	New York Certification# NY10478
				EPA 300.0	
				EPA 300.0	New York Certification# NY10478
				SM19-23 4500-N Org B,C-NH3 C	
				SM21-23 2540C	
				SW-846 6010D	
				SW-846 7196A	
				SW-846 7470A	
				SW-846 8260D	
				SW-846 8270E	
PD-CP-01-030323	23C0650-04	Ground Water		-	New York Certification# NY10478
				EPA 300.0	New York Certification# NY10478
				EPA 300.0	
				SM19-23 4500-N Org B,C-NH3 C	
				SM21-23 2540C	
				SW-846 7196A	
				SW-846 8260D	
				SW-846 8270E	
RW3-CP-00-030323	23C0650-05	Ground Water		SM21-23 2540D	
				SW-846 6010D	
				SW-846 7470A	
				SW-846 8260D	
RW3-CP-01-030323	23C0650-06	Ground Water		SM21-23 2540D	
TB-030323	23C0650-07	Trip Blank Water		SW-846 8260D	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

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EPA 300.0

Qualifications:

MS-07

Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery.Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Sulfate

23C0650-03[PD-CP-00-030323], B334222-MS1, B334222-MSD1

MS-11

Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

Chloride

23C0650-03[PD-CP-00-030323], B334213-MS1, B334213-MSD1

SM21-23 2540C

Qualifications:

R-02

Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.

Analyte & Samples(s) Qualified:

Total Dissolved Solids

23C0650-03[PD-CP-00-030323], B333568-DUP1

SW-846 6010D

Qualifications:

MS-19

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Sodium

23C0650-03[PD-CP-00-030323], B333657-MS2, B333657-MSD2

SW-846 7196A

Qualifications:

H-03

Sample received after recommended holding time was exceeded.

Analyte & Samples(s) Qualified:

Hexavalent Chromium

23C0650-03[PD-CP-00-030323], 23C0650-04[PD-CP-01-030323], B333387-MS1, B333387-MSD1

SW-846 8260D

Qualifications:

MS-15

Matrix spike and matrix spike duplicate recoveries are outside of control limits. Data validation is not affected since results for this compound in this sample are "not detected", and recovery bias is on the high side.

Analyte & Samples(s) Qualified:

Vinyl Chloride

B333567-MS1, B333567-MSD1

MS-24

Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene

B333567-MS1

Naphthalene

B333567-MS1

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V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Vinyl Chloride

B333567-BS1, B333567-BSD1, B333567-MS1, B333567-MSD1, S084339-CCV1

SW-846 8270E

Qualifications:

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

1,2,4-Trichlorobenzene

23C0650-01[ASF-CP-00-030323], 23C0650-03[PD-CP-00-030323], 23C0650-04[PD-CP-01-030323], B333561-BLK1, B333561-BS1, B333561-BSD1

1,2-Dichlorobenzene

23C0650-01[ASF-CP-00-030323], 23C0650-03[PD-CP-00-030323], 23C0650-04[PD-CP-01-030323], B333561-BLK1, B333561-BS1, B333561-BSD1

1,3-Dichlorobenzene

23C0650-01[ASF-CP-00-030323], 23C0650-03[PD-CP-00-030323], 23C0650-04[PD-CP-01-030323], B333561-BLK1, B333561-BS1, B333561-BSD1

1,4-Dichlorobenzene

23C0650-01[ASF-CP-00-030323], 23C0650-03[PD-CP-00-030323], 23C0650-04[PD-CP-01-030323], B333561-BLK1, B333561-BS1, B333561-BSD1

Aniline

23C0650-01[ASF-CP-00-030323], 23C0650-03[PD-CP-00-030323], 23C0650-04[PD-CP-01-030323], B333561-BLK1, B333561-BS1, B333561-BSD1

Benzidine

23C0650-01[ASF-CP-00-030323], 23C0650-03[PD-CP-00-030323], 23C0650-04[PD-CP-01-030323], B333561-BLK1, B333561-BS1, B333561-BSD1

Hexachlorobutadiene

23C0650-01[ASF-CP-00-030323], 23C0650-03[PD-CP-00-030323], 23C0650-04[PD-CP-01-030323], B333561-BLK1, B333561-BS1, B333561-BSD1

Hexachloroethane

23C0650-01[ASF-CP-00-030323], 23C0650-03[PD-CP-00-030323], 23C0650-04[PD-CP-01-030323], B333561-BLK1, B333561-BS1, B333561-BSD1

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

1,4-Dioxane

B333766-BSD1

Hexachlorocyclopentadiene

B333561-BS1

MS-07A

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Benzoic Acid

B333561-MS1, B333561-MS2, B333561-MSD1, B333561-MSD2

Pyridine

B333561-MS1, B333561-MS2, B333561-MSD1, B333561-MSD2

MS-09

Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

Benzidine

23C0650-01[ASF-CP-00-030323], 23C0650-03[PD-CP-00-030323], B333561-MS1, B333561-MS2, B333561-MSD1, B333561-MSD2

Hexachlorobutadiene

23C0650-01[ASF-CP-00-030323], B333561-MS1, B333561-MSD1

Hexachloroethane

23C0650-01[ASF-CP-00-030323], B333561-MS1, B333561-MSD1

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MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

1,3-Dichlorobenzene
B333561-MS1

Aniline
B333561-MSD1

V-04

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.

Analyte & Samples(s) Qualified:

Benzidine
23C0650-01[ASF-CP-00-030323], 23C0650-03[PD-CP-00-030323], 23C0650-04[PD-CP-01-030323], B333561-BLK1, B333561-BS1, B333561-BSD1, B333561-MS1, B333561-MS2, B333561-MSD1, B333561-MSD2, S084401-CCV1, S084425-CCV1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

4-Chloroaniline
23C0650-01[ASF-CP-00-030323], 23C0650-03[PD-CP-00-030323], 23C0650-04[PD-CP-01-030323], B333561-MS1, B333561-MS2, B333561-MSD1, B333561-MSD2, S084425-CCV1

Aniline
23C0650-01[ASF-CP-00-030323], 23C0650-03[PD-CP-00-030323], 23C0650-04[PD-CP-01-030323], B333561-BLK1, B333561-BS1, B333561-BSD1, B333561-MS1, B333561-MS2, B333561-MSD1, B333561-MSD2, S084401-CCV1, S084425-CCV1

Benzidine
23C0650-01[ASF-CP-00-030323], 23C0650-03[PD-CP-00-030323], 23C0650-04[PD-CP-01-030323], B333561-BLK1, B333561-BS1, B333561-BSD1, B333561-MS1, B333561-MS2, B333561-MSD1, B333561-MSD2, S084401-CCV1, S084425-CCV1

Di-n-octylphthalate
23C0650-01[ASF-CP-00-030323], 23C0650-03[PD-CP-00-030323], 23C0650-04[PD-CP-01-030323], B333561-BLK1, B333561-BS1, B333561-BSD1, B333561-MS1, B333561-MS2, B333561-MSD1, B333561-MSD2, S084401-CCV1, S084425-CCV1

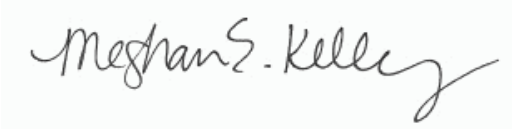
V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:

Benzo(g,h,i)perylene
B333561-BLK1, B333561-BS1, B333561-BSD1, S084401-CCV1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Reporting Specialist

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0650

Date Received: 3/6/2023

Field Sample #: ASF-CP-00-030323 | Sampled: 3/2/2023 10:00

Sample ID: 23C0650-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
cis-1,2-Dichloroethylene	1.6	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0650

Date Received: 3/6/2023

Field Sample #: ASF-CP-00-030323 | Sampled: 3/2/2023 10:00

Sample ID: 23C0650-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
Tetrachloroethylene	4.6	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
Trichloroethylene	36	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 17:52	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	94.0	70-130		3/8/23 17:52
Toluene-d8	100	70-130		3/8/23 17:52
4-Bromofluorobenzene	101	70-130		3/8/23 17:52

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0650

Date Received: 3/6/2023

Field Sample #: ASF-CP-00-030323 | Sampled: 3/2/2023 10:00

Sample ID: 23C0650-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	4.9	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
Acenaphthylene	ND	4.9	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
Acetophenone	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
Aniline	ND	4.9	µg/L	1	L-04, V-05	SW-846 8270E	3/8/23	3/10/23 19:47	AR2
Anthracene	ND	4.9	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
Benzidine	ND	19	µg/L	1	L-04, MS-09, V-04, V-05	SW-846 8270E	3/8/23	3/10/23 19:47	AR2
Benzo(a)anthracene	ND	4.9	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
Benzo(a)pyrene	ND	4.9	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
Benzo(b)fluoranthene	ND	4.9	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
Benzo(g,h,i)perylene	ND	4.9	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
Benzo(k)fluoranthene	ND	4.9	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
Benzoic Acid	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
Bis(2-chloroethoxy)methane	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
Bis(2-chloroethyl)ether	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
Bis(2-chloroisopropyl)ether	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
Bis(2-Ethylhexyl)phthalate	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
4-Bromophenylphenylether	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
Butylbenzylphthalate	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
Carbazole	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
4-Chloroaniline	ND	9.7	µg/L	1	V-05	SW-846 8270E	3/8/23	3/10/23 19:47	AR2
4-Chloro-3-methylphenol	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
2-Chloronaphthalene	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
2-Chlorophenol	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
4-Chlorophenylphenylether	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
Chrysene	ND	4.9	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
Dibenz(a,h)anthracene	ND	4.9	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
Dibenzofuran	ND	4.9	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
Di-n-butylphthalate	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
1,2-Dichlorobenzene	ND	4.9	µg/L	1	L-04	SW-846 8270E	3/8/23	3/10/23 19:47	AR2
1,3-Dichlorobenzene	ND	4.9	µg/L	1	L-04	SW-846 8270E	3/8/23	3/10/23 19:47	AR2
1,4-Dichlorobenzene	ND	4.9	µg/L	1	L-04	SW-846 8270E	3/8/23	3/10/23 19:47	AR2
3,3-Dichlorobenzidine	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
2,4-Dichlorophenol	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
Diethylphthalate	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
2,4-Dimethylphenol	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
Dimethylphthalate	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
4,6-Dinitro-2-methylphenol	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
2,4-Dinitrophenol	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
2,4-Dinitrotoluene	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
2,6-Dinitrotoluene	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
Di-n-octylphthalate	ND	9.7	µg/L	1	V-05	SW-846 8270E	3/8/23	3/10/23 19:47	AR2
1,2-Diphenylhydrazine/Azobenzene	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
Fluoranthene	ND	4.9	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0650

Date Received: 3/6/2023

Field Sample #: ASF-CP-00-030323 | Sampled: 3/2/2023 10:00

Sample ID: 23C0650-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Fluorene	ND	4.9	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
Hexachlorobenzene	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
Hexachlorobutadiene	ND	9.7	µg/L	1	L-04, MS-09	SW-846 8270E	3/8/23	3/10/23 19:47	AR2
Hexachlorocyclopentadiene	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
Hexachloroethane	ND	9.7	µg/L	1	L-04, MS-09	SW-846 8270E	3/8/23	3/10/23 19:47	AR2
Indeno(1,2,3-cd)pyrene	ND	4.9	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
Isophorone	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
1-Methylnaphthalene	ND	4.9	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
2-Methylnaphthalene	ND	4.9	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
2-Methylphenol	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
3/4-Methylphenol	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
Naphthalene	ND	4.9	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
2-Nitroaniline	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
3-Nitroaniline	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
4-Nitroaniline	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
Nitrobenzene	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
2-Nitrophenol	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
4-Nitrophenol	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
N-Nitrosodimethylamine	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
N-Nitrosodiphenylamine/Diphenylamine	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
N-Nitrosodi-n-propylamine	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
Pentachloronitrobenzene	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
Pentachlorophenol	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
Phenanthrene	ND	4.9	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
Phenol	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
Pyrene	ND	4.9	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
Pyridine	ND	4.9	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
1,2,4,5-Tetrachlorobenzene	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
1,2,4-Trichlorobenzene	ND	4.9	µg/L	1	L-04	SW-846 8270E	3/8/23	3/10/23 19:47	AR2
2,4,5-Trichlorophenol	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2
2,4,6-Trichlorophenol	ND	9.7	µg/L	1		SW-846 8270E	3/8/23	3/10/23 19:47	AR2

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	39.0	15-110		3/10/23 19:47
Phenol-d6	29.7	15-110		3/10/23 19:47
Nitrobenzene-d5	85.3	30-130		3/10/23 19:47
2-Fluorobiphenyl	70.3	30-130		3/10/23 19:47
2,4,6-Tribromophenol	70.5	15-110		3/10/23 19:47
p-Terphenyl-d14	87.6	30-130		3/10/23 19:47

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0650

Date Received: 3/6/2023

Field Sample #: ASF-CP-00-030323 | Sampled: 3/2/2023 10:00

Sample ID: 23C0650-01

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	38	0.20	µg/L	1		SW-846 8270E	3/9/23	3/15/23 10:23	SPF

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
1,4-Dioxane-d8	21.2	15-110					3/15/23 10:23

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0650

Date Received: 3/6/2023

Field Sample #: ASF-CP-00-030323 | Sampled: 3/2/2023 10:00

Sample ID: 23C0650-01

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	mg/L	1		SW-846 6010D	3/8/23	3/12/23 13:20	HNN
Antimony	ND	0.050	mg/L	1		SW-846 6010D	3/8/23	3/12/23 13:20	HNN
Arsenic	ND	0.010	mg/L	1		SW-846 6010D	3/8/23	3/12/23 13:20	HNN
Barium	0.055	0.050	mg/L	1		SW-846 6010D	3/8/23	3/12/23 13:20	HNN
Beryllium	ND	0.0040	mg/L	1		SW-846 6010D	3/8/23	3/12/23 13:20	HNN
Cadmium	ND	0.0040	mg/L	1		SW-846 6010D	3/8/23	3/12/23 13:20	HNN
Calcium	8.2	0.50	mg/L	1		SW-846 6010D	3/8/23	3/12/23 13:20	HNN
Chromium	ND	0.010	mg/L	1		SW-846 6010D	3/8/23	3/12/23 13:20	HNN
Cobalt	ND	0.010	mg/L	1		SW-846 6010D	3/8/23	3/12/23 13:20	HNN
Copper	0.034	0.010	mg/L	1		SW-846 6010D	3/8/23	3/12/23 13:20	HNN
Iron	0.062	0.050	mg/L	1		SW-846 6010D	3/8/23	3/12/23 13:20	HNN
Lead	ND	0.010	mg/L	1		SW-846 6010D	3/8/23	3/12/23 13:20	HNN
Magnesium	5.6	0.050	mg/L	1		SW-846 6010D	3/8/23	3/12/23 13:20	HNN
Manganese	0.20	0.010	mg/L	1		SW-846 6010D	3/8/23	3/13/23 20:02	ATP
Mercury	0.00027	0.00010	mg/L	1		SW-846 7470A	3/8/23	3/9/23 12:41	AAJ
Nickel	ND	0.010	mg/L	1		SW-846 6010D	3/8/23	3/12/23 13:20	HNN
Potassium	13	2.0	mg/L	1		SW-846 6010D	3/8/23	3/12/23 13:20	HNN
Selenium	ND	0.050	mg/L	1		SW-846 6010D	3/8/23	3/12/23 13:20	HNN
Silver	ND	0.010	mg/L	1		SW-846 6010D	3/15/23	3/15/23 18:45	ATP
Sodium	86	2.0	mg/L	1		SW-846 6010D	3/8/23	3/12/23 13:20	HNN
Thallium	ND	0.050	mg/L	1		SW-846 6010D	3/8/23	3/12/23 13:20	HNN
Vanadium	ND	0.010	mg/L	1		SW-846 6010D	3/8/23	3/12/23 13:20	HNN
Zinc	0.015	0.010	mg/L	1		SW-846 6010D	3/8/23	3/12/23 13:20	HNN

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0650

Date Received: 3/6/2023

Field Sample #: ASF-CP-00-030323 | Sampled: 3/2/2023 10:00

Sample ID: 23C0650-01

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Organic Carbon	3.7	1.0	mg/L	1		SM 21-23 5310B	3/9/23	3/9/23 11:37	QH
Total Suspended Solids	ND	1.0	mg/L	1		SM21-23 2540D	3/7/23	3/7/23 13:59	LL

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0650

Date Received: 3/6/2023

Field Sample #: ASF-CP-01-030323 | Sampled: 3/2/2023 10:00

Sample ID: 23C0650-02

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	39	0.19	µg/L	1		SW-846 8270E	3/9/23	3/15/23 10:44	SPF

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
1,4-Dioxane-d8	25.1	15-110					3/15/23 10:44

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0650

Date Received: 3/6/2023

Field Sample #: ASF-CP-01-030323 | Sampled: 3/2/2023 10:00

Sample ID: 23C0650-02

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:18	HNN
Antimony	ND	0.050	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:18	HNN
Arsenic	ND	0.010	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:18	HNN
Barium	0.056	0.050	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:18	HNN
Beryllium	ND	0.0040	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:18	HNN
Cadmium	ND	0.0040	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:18	HNN
Calcium	8.1	0.50	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:18	HNN
Chromium	ND	0.010	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:18	HNN
Cobalt	ND	0.010	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:18	HNN
Copper	0.034	0.010	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:18	HNN
Iron	ND	0.050	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:18	HNN
Lead	ND	0.010	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:18	HNN
Magnesium	5.6	0.050	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:18	HNN
Manganese	0.20	0.010	mg/L	1		SW-846 6010D	3/8/23	3/13/23 20:34	ATP
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	3/7/23	3/8/23 12:41	AAJ
Nickel	ND	0.010	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:18	HNN
Potassium	13	2.0	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:18	HNN
Selenium	ND	0.050	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:18	HNN
Silver	ND	0.010	mg/L	1		SW-846 6010D	3/8/23	3/13/23 20:34	ATP
Sodium	88	2.0	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:18	HNN
Thallium	ND	0.050	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:18	HNN
Vanadium	ND	0.010	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:18	HNN
Zinc	0.014	0.010	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:18	HNN

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0650

Date Received: 3/6/2023

Field Sample #: ASF-CP-01-030323 | Sampled: 3/2/2023 10:00

Sample ID: 23C0650-02

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Organic Carbon	3.2	1.0	mg/L	1		SM 21-23 5310B	3/9/23	3/9/23 12:23	QH

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0650

Date Received: 3/6/2023

Field Sample #: PD-CP-00-030323 | Sampled: 3/2/2023 11:30

Sample ID: 23C0650-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0650

Date Received: 3/6/2023

Field Sample #: PD-CP-00-030323 | Sampled: 3/2/2023 11:30

Sample ID: 23C0650-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:20	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	94.2	70-130		3/8/23 18:20
Toluene-d8	99.9	70-130		3/8/23 18:20
4-Bromofluorobenzene	102	70-130		3/8/23 18:20

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0650

Date Received: 3/6/2023

Field Sample #: PD-CP-00-030323 | Sampled: 3/2/2023 11:30

Sample ID: 23C0650-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	4.8	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
Acenaphthylene	ND	4.8	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
Acetophenone	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
Aniline	ND	4.8	µg/L	1	L-04, V-05	SW-846 8270E	3/8/23	3/10/23 20:08	AR2
Anthracene	ND	4.8	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
Benzidine	ND	19	µg/L	1	L-04, MS-09, V-04, V-05	SW-846 8270E	3/8/23	3/10/23 20:08	AR2
Benzo(a)anthracene	ND	4.8	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
Benzo(a)pyrene	ND	4.8	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
Benzo(b)fluoranthene	ND	4.8	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
Benzo(g,h,i)perylene	ND	4.8	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
Benzo(k)fluoranthene	ND	4.8	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
Benzoic Acid	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
Bis(2-chloroethoxy)methane	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
Bis(2-chloroethyl)ether	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
Bis(2-chloroisopropyl)ether	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
Bis(2-Ethylhexyl)phthalate	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
4-Bromophenylphenylether	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
Butylbenzylphthalate	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
Carbazole	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
4-Chloroaniline	ND	9.6	µg/L	1	V-05	SW-846 8270E	3/8/23	3/10/23 20:08	AR2
4-Chloro-3-methylphenol	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
2-Chloronaphthalene	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
2-Chlorophenol	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
4-Chlorophenylphenylether	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
Chrysene	ND	4.8	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
Dibenz(a,h)anthracene	ND	4.8	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
Dibenzofuran	ND	4.8	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
Di-n-butylphthalate	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
1,2-Dichlorobenzene	ND	4.8	µg/L	1	L-04	SW-846 8270E	3/8/23	3/10/23 20:08	AR2
1,3-Dichlorobenzene	ND	4.8	µg/L	1	L-04	SW-846 8270E	3/8/23	3/10/23 20:08	AR2
1,4-Dichlorobenzene	ND	4.8	µg/L	1	L-04	SW-846 8270E	3/8/23	3/10/23 20:08	AR2
3,3-Dichlorobenzidine	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
2,4-Dichlorophenol	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
Diethylphthalate	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
2,4-Dimethylphenol	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
Dimethylphthalate	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
4,6-Dinitro-2-methylphenol	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
2,4-Dinitrophenol	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
2,4-Dinitrotoluene	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
2,6-Dinitrotoluene	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
Di-n-octylphthalate	ND	9.6	µg/L	1	V-05	SW-846 8270E	3/8/23	3/10/23 20:08	AR2
1,2-Diphenylhydrazine/Azobenzene	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
Fluoranthene	ND	4.8	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0650

Date Received: 3/6/2023

Field Sample #: PD-CP-00-030323 | Sampled: 3/2/2023 11:30

Sample ID: 23C0650-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Fluorene	ND	4.8	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
Hexachlorobenzene	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
Hexachlorobutadiene	ND	9.6	µg/L	1	L-04	SW-846 8270E	3/8/23	3/10/23 20:08	AR2
Hexachlorocyclopentadiene	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
Hexachloroethane	ND	9.6	µg/L	1	L-04	SW-846 8270E	3/8/23	3/10/23 20:08	AR2
Indeno(1,2,3-cd)pyrene	ND	4.8	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
Isophorone	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
1-Methylnaphthalene	ND	4.8	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
2-Methylnaphthalene	ND	4.8	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
2-Methylphenol	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
3/4-Methylphenol	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
Naphthalene	ND	4.8	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
2-Nitroaniline	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
3-Nitroaniline	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
4-Nitroaniline	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
Nitrobenzene	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
2-Nitrophenol	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
4-Nitrophenol	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
N-Nitrosodimethylamine	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
N-Nitrosodiphenylamine/Diphenylamine	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
N-Nitrosodi-n-propylamine	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
Pentachloronitrobenzene	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
Pentachlorophenol	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
Phenanthrene	ND	4.8	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
Phenol	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
Pyrene	ND	4.8	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
Pyridine	ND	4.8	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
1,2,4,5-Tetrachlorobenzene	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
1,2,4-Trichlorobenzene	ND	4.8	µg/L	1	L-04	SW-846 8270E	3/8/23	3/10/23 20:08	AR2
2,4,5-Trichlorophenol	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2
2,4,6-Trichlorophenol	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:08	AR2

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	40.0	15-110		3/10/23 20:08
Phenol-d6	29.4	15-110		3/10/23 20:08
Nitrobenzene-d5	79.9	30-130		3/10/23 20:08
2-Fluorobiphenyl	69.3	30-130		3/10/23 20:08
2,4,6-Tribromophenol	60.2	15-110		3/10/23 20:08
p-Terphenyl-d14	77.5	30-130		3/10/23 20:08

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0650

Date Received: 3/6/2023

Field Sample #: PD-CP-00-030323 | Sampled: 3/2/2023 11:30

Sample ID: 23C0650-03

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	41	0.20	µg/L	1		SW-846 8270E	3/9/23	3/15/23 11:04	SPF

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
1,4-Dioxane-d8	26.8	15-110					3/15/23 11:04

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0650

Date Received: 3/6/2023

Field Sample #: PD-CP-00-030323 | Sampled: 3/2/2023 11:30

Sample ID: 23C0650-03

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:10	HNN
Antimony	ND	0.050	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:10	HNN
Arsenic	ND	0.010	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:10	HNN
Barium	0.055	0.050	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:10	HNN
Beryllium	ND	0.0040	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:10	HNN
Cadmium	ND	0.0040	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:10	HNN
Calcium	7.7	0.50	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:10	HNN
Chromium	ND	0.010	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:10	HNN
Cobalt	ND	0.010	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:10	HNN
Copper	0.013	0.010	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:10	HNN
Iron	ND	0.050	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:10	HNN
Lead	ND	0.010	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:10	HNN
Magnesium	5.3	0.050	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:10	HNN
Manganese	0.19	0.010	mg/L	1		SW-846 6010D	3/8/23	3/13/23 20:26	ATP
Mercury	0.00024	0.00010	mg/L	1		SW-846 7470A	3/8/23	3/9/23 12:43	AAJ
Nickel	ND	0.010	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:10	HNN
Potassium	12	2.0	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:10	HNN
Selenium	ND	0.050	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:10	HNN
Silver	ND	0.010	mg/L	1		SW-846 6010D	3/8/23	3/13/23 20:26	ATP
Sodium	86	2.0	mg/L	1	MS-19	SW-846 6010D	3/8/23	3/12/23 14:10	HNN
Thallium	ND	0.050	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:10	HNN
Vanadium	ND	0.010	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:10	HNN
Zinc	0.023	0.010	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:10	HNN

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0650

Date Received: 3/6/2023

Field Sample #: PD-CP-00-030323 | Sampled: 3/2/2023 11:30

Sample ID: 23C0650-03

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chloride	130	5.0	mg/L	5	MS-11	EPA 300.0	3/15/23	3/15/23 13:22	EC
Hexavalent Chromium	ND	0.0040	mg/L	1	H-03	SW-846 7196A	3/6/23	3/6/23 17:05	jec
Sulfate	23	1.0	mg/L	1	MS-07	EPA 300.0	3/15/23	3/15/23 12:15	EC
Total Kjeldahl Nitrogen	7.8	1.0	mg/L	1		SM19-23 4500-N Org B,C-NH3 C	3/23/23	3/24/23 10:00	EC

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0650

Date Received: 3/6/2023

Field Sample #: PD-CP-00-030323 | Sampled: 3/2/2023 11:30

Sample ID: 23C0650-03

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Dissolved Solids	260	10	mg/L	1	R-02	SM21-23 2540C	3/8/23	3/8/23 13:43	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0650

Date Received: 3/6/2023

Field Sample #: PD-CP-00-030323 | Sampled: 3/2/2023 11:30

Sample ID: 23C0650-03

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached subcontract report	-	-	mg/L	1		-			PALI
See Attached subcontract report	-	-	mg/L	1		EPA 300.0			PALI

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0650

Date Received: 3/6/2023

Field Sample #: PD-CP-01-030323 | Sampled: 3/2/2023 11:30

Sample ID: 23C0650-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0650

Date Received: 3/6/2023

Field Sample #: PD-CP-01-030323 | Sampled: 3/2/2023 11:30

Sample ID: 23C0650-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 18:47	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	93.7	70-130		3/8/23 18:47
Toluene-d8	99.1	70-130		3/8/23 18:47
4-Bromofluorobenzene	101	70-130		3/8/23 18:47

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0650

Date Received: 3/6/2023

Field Sample #: PD-CP-01-030323 | Sampled: 3/2/2023 11:30

Sample ID: 23C0650-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	4.8	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
Acenaphthylene	ND	4.8	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
Acetophenone	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
Aniline	ND	4.8	µg/L	1	L-04, V-05	SW-846 8270E	3/8/23	3/10/23 20:29	AR2
Anthracene	ND	4.8	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
Benzidine	ND	19	µg/L	1	L-04, V-04, V-05	SW-846 8270E	3/8/23	3/10/23 20:29	AR2
Benzo(a)anthracene	ND	4.8	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
Benzo(a)pyrene	ND	4.8	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
Benzo(b)fluoranthene	ND	4.8	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
Benzo(g,h,i)perylene	ND	4.8	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
Benzo(k)fluoranthene	ND	4.8	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
Benzoic Acid	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
Bis(2-chloroethoxy)methane	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
Bis(2-chloroethyl)ether	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
Bis(2-chloroisopropyl)ether	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
Bis(2-Ethylhexyl)phthalate	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
4-Bromophenylphenylether	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
Butylbenzylphthalate	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
Carbazole	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
4-Chloroaniline	ND	9.6	µg/L	1	V-05	SW-846 8270E	3/8/23	3/10/23 20:29	AR2
4-Chloro-3-methylphenol	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
2-Chloronaphthalene	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
2-Chlorophenol	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
4-Chlorophenylphenylether	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
Chrysene	ND	4.8	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
Dibenz(a,h)anthracene	ND	4.8	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
Dibenzofuran	ND	4.8	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
Di-n-butylphthalate	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
1,2-Dichlorobenzene	ND	4.8	µg/L	1	L-04	SW-846 8270E	3/8/23	3/10/23 20:29	AR2
1,3-Dichlorobenzene	ND	4.8	µg/L	1	L-04	SW-846 8270E	3/8/23	3/10/23 20:29	AR2
1,4-Dichlorobenzene	ND	4.8	µg/L	1	L-04	SW-846 8270E	3/8/23	3/10/23 20:29	AR2
3,3-Dichlorobenzidine	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
2,4-Dichlorophenol	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
Diethylphthalate	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
2,4-Dimethylphenol	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
Dimethylphthalate	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
4,6-Dinitro-2-methylphenol	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
2,4-Dinitrophenol	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
2,4-Dinitrotoluene	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
2,6-Dinitrotoluene	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
Di-n-octylphthalate	ND	9.6	µg/L	1	V-05	SW-846 8270E	3/8/23	3/10/23 20:29	AR2
1,2-Diphenylhydrazine/Azobenzene	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
Fluoranthene	ND	4.8	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
Fluorene	ND	4.8	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0650

Date Received: 3/6/2023

Field Sample #: PD-CP-01-030323 | Sampled: 3/2/2023 11:30

Sample ID: 23C0650-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
Hexachlorobutadiene	ND	9.6	µg/L	1	L-04	SW-846 8270E	3/8/23	3/10/23 20:29	AR2
Hexachlorocyclopentadiene	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
Hexachloroethane	ND	9.6	µg/L	1	L-04	SW-846 8270E	3/8/23	3/10/23 20:29	AR2
Indeno(1,2,3-cd)pyrene	ND	4.8	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
Isophorone	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
1-Methylnaphthalene	ND	4.8	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
2-Methylnaphthalene	ND	4.8	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
2-Methylphenol	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
3/4-Methylphenol	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
Naphthalene	ND	4.8	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
2-Nitroaniline	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
3-Nitroaniline	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
4-Nitroaniline	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
Nitrobenzene	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
2-Nitrophenol	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
4-Nitrophenol	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
N-Nitrosodimethylamine	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
N-Nitrosodiphenylamine/Diphenylamine	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
N-Nitrosodi-n-propylamine	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
Pentachloronitrobenzene	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
Pentachlorophenol	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
Phenanthrene	ND	4.8	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
Phenol	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
Pyrene	ND	4.8	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
Pyridine	ND	4.8	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
1,2,4,5-Tetrachlorobenzene	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
1,2,4-Trichlorobenzene	ND	4.8	µg/L	1	L-04	SW-846 8270E	3/8/23	3/10/23 20:29	AR2
2,4,5-Trichlorophenol	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2
2,4,6-Trichlorophenol	ND	9.6	µg/L	1		SW-846 8270E	3/8/23	3/10/23 20:29	AR2

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	43.6	15-110		3/10/23 20:29
Phenol-d6	32.1	15-110		3/10/23 20:29
Nitrobenzene-d5	87.0	30-130		3/10/23 20:29
2-Fluorobiphenyl	77.1	30-130		3/10/23 20:29
2,4,6-Tribromophenol	69.3	15-110		3/10/23 20:29
p-Terphenyl-d14	89.6	30-130		3/10/23 20:29

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0650

Date Received: 3/6/2023

Field Sample #: PD-CP-01-030323 | Sampled: 3/2/2023 11:30

Sample ID: 23C0650-04

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	39	0.19	µg/L	1		SW-846 8270E	3/9/23	3/15/23 11:25	SPF

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
1,4-Dioxane-d8	27.2	15-110				3/15/23 11:25	

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0650

Date Received: 3/6/2023

Field Sample #: PD-CP-01-030323 | Sampled: 3/2/2023 11:30

Sample ID: 23C0650-04

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chloride	130	5.0	mg/L	5		EPA 300.0	3/15/23	3/15/23 15:35	EC
Hexavalent Chromium	ND	0.0040	mg/L	1	H-03	SW-846 7196A	3/6/23	3/6/23 17:05	jec
Sulfate	24	1.0	mg/L	1		EPA 300.0	3/15/23	3/15/23 14:29	EC
Total Kjeldahl Nitrogen	8.4	1.0	mg/L	1		SM19-23 4500-N Org B,C-NH3 C	3/22/23	3/23/23 12:00	DET

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0650

Date Received: 3/6/2023

Field Sample #: PD-CP-01-030323 | Sampled: 3/2/2023 11:30

Sample ID: 23C0650-04

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Dissolved Solids	250	10	mg/L	1		SM21-23 2540C	3/8/23	3/8/23 13:43	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0650

Date Received: 3/6/2023

Field Sample #: PD-CP-01-030323 | Sampled: 3/2/2023 11:30

Sample ID: 23C0650-04

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached subcontract report	-	-	mg/L	1		-			PALI
See Attached subcontract report	-	-	mg/L	1		EPA 300.0			PALI

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0650

Date Received: 3/6/2023

Field Sample #: RW3-CP-00-030323 | Sampled: 3/2/2023 09:00

Sample ID: 23C0650-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
cis-1,2-Dichloroethylene	1.7	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0650

Date Received: 3/6/2023

Field Sample #: RW3-CP-00-030323 | Sampled: 3/2/2023 09:00

Sample ID: 23C0650-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
Tetrachloroethylene	5.0	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
Trichloroethylene	37	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 19:14	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	93.8	70-130		3/8/23 19:14
Toluene-d8	99.3	70-130		3/8/23 19:14
4-Bromofluorobenzene	100	70-130		3/8/23 19:14

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0650

Date Received: 3/6/2023

Field Sample #: RW3-CP-00-030323 | Sampled: 3/2/2023 09:00

Sample ID: 23C0650-05

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:26	HNN
Antimony	ND	0.050	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:26	HNN
Arsenic	ND	0.010	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:26	HNN
Barium	0.054	0.050	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:26	HNN
Beryllium	ND	0.0040	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:26	HNN
Cadmium	ND	0.0040	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:26	HNN
Calcium	7.7	0.50	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:26	HNN
Chromium	ND	0.010	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:26	HNN
Cobalt	ND	0.010	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:26	HNN
Copper	0.014	0.010	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:26	HNN
Iron	0.59	0.050	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:26	HNN
Lead	ND	0.010	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:26	HNN
Magnesium	5.3	0.050	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:26	HNN
Manganese	0.20	0.010	mg/L	1		SW-846 6010D	3/8/23	3/13/23 20:42	ATP
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	3/7/23	3/8/23 12:45	AAJ
Nickel	ND	0.010	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:26	HNN
Potassium	12	2.0	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:26	HNN
Selenium	ND	0.050	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:26	HNN
Silver	ND	0.010	mg/L	1		SW-846 6010D	3/8/23	3/13/23 20:42	ATP
Sodium	85	2.0	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:26	HNN
Thallium	ND	0.050	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:26	HNN
Vanadium	ND	0.010	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:26	HNN
Zinc	0.015	0.010	mg/L	1		SW-846 6010D	3/8/23	3/12/23 14:26	HNN

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0650

Date Received: 3/6/2023

Field Sample #: RW3-CP-00-030323 | Sampled: 3/2/2023 09:00

Sample ID: 23C0650-05

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	1.0	1.0	mg/L	1		SM21-23 2540D	3/7/23	3/7/23 13:59	LL

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0650

Date Received: 3/6/2023

Field Sample #: RW3-CP-01-030323 | Sampled: 3/2/2023 09:00

Sample ID: 23C0650-06

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	1.0	mg/L	1		SM21-23 2540D	3/7/23	3/7/23 13:59	LL

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0650

Date Received: 3/6/2023

Field Sample #: TB-030323 | Sampled: 3/2/2023 08:45

Sample ID: 23C0650-07

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0650

Date Received: 3/6/2023

Field Sample #: TB-030323 | Sampled: 3/2/2023 08:45

Sample ID: 23C0650-07

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	3/8/23	3/8/23 12:51	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	92.4	70-130		3/8/23 12:51
Toluene-d8	101	70-130		3/8/23 12:51
4-Bromofluorobenzene	101	70-130		3/8/23 12:51

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Sample Extraction Data

Prep Method: EPA 300.0 **Analytical Method: EPA 300.0**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23C0650-03 [PD-CP-00-030323]	B334213	10.0	10.0	03/15/23
23C0650-04 [PD-CP-01-030323]	B334213	10.0	10.0	03/15/23

Prep Method: EPA 300.0 **Analytical Method: EPA 300.0**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23C0650-03 [PD-CP-00-030323]	B334222	10.0	10.0	03/15/23
23C0650-04 [PD-CP-01-030323]	B334222	10.0	10.0	03/15/23

SM 21-23 5310B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23C0650-01 [ASF-CP-00-030323]	B333724	50.0	50.0	03/09/23
23C0650-02 [ASF-CP-01-030323]	B333724	50.0	50.0	03/09/23

Prep Method: SM4500 N Org B C **Analytical Method: SM19-23 4500-N Org B,C-NH3 C**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23C0650-04 [PD-CP-01-030323]	B334843	25.0	25.0	03/22/23

Prep Method: SM4500 N Org B C **Analytical Method: SM19-23 4500-N Org B,C-NH3 C**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23C0650-03 [PD-CP-00-030323]	B335038	25.0	25.0	03/23/23

SM21-23 2540C

Lab Number [Field ID]	Batch	Initial [mL]	Date
23C0650-03 [PD-CP-00-030323]	B333568	50.0	03/08/23
23C0650-04 [PD-CP-01-030323]	B333568	50.0	03/08/23

SM21-23 2540D

Lab Number [Field ID]	Batch	Initial [mL]	Date
23C0650-01 [ASF-CP-00-030323]	B333408	500	03/07/23
23C0650-05 [RW3-CP-00-030323]	B333408	500	03/07/23
23C0650-06 [RW3-CP-01-030323]	B333408	500	03/07/23

Prep Method: SW-846 3005A **Analytical Method: SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23C0650-01 [ASF-CP-00-030323]	B333657	50.0	50.0	03/08/23
23C0650-02 [ASF-CP-01-030323]	B333657	50.0	50.0	03/08/23
23C0650-03 [PD-CP-00-030323]	B333657	50.0	50.0	03/08/23
23C0650-05 [RW3-CP-00-030323]	B333657	50.0	50.0	03/08/23

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Sample Extraction Data

Prep Method: SW-846 3005A **Analytical Method: SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23C0650-01RE1 [ASF-CP-00-030323]	B334265	25.0	25.0	03/15/23

SW-846 7196A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23C0650-03 [PD-CP-00-030323]	B333387	50.0	50.0	03/06/23
23C0650-04 [PD-CP-01-030323]	B333387	50.0	50.0	03/06/23

Prep Method: SW-846 7470A Prep **Analytical Method: SW-846 7470A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23C0650-02 [ASF-CP-01-030323]	B333466	10.0	10.0	03/07/23
23C0650-05 [RW3-CP-00-030323]	B333466	10.0	10.0	03/07/23

Prep Method: SW-846 7470A Prep **Analytical Method: SW-846 7470A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23C0650-01 [ASF-CP-00-030323]	B333673	10.0	10.0	03/08/23
23C0650-03 [PD-CP-00-030323]	B333673	10.0	10.0	03/08/23

Prep Method: SW-846 5030B **Analytical Method: SW-846 8260D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23C0650-01 [ASF-CP-00-030323]	B333567	5	5.00	03/08/23
23C0650-03 [PD-CP-00-030323]	B333567	5	5.00	03/08/23
23C0650-04 [PD-CP-01-030323]	B333567	5	5.00	03/08/23
23C0650-05 [RW3-CP-00-030323]	B333567	5	5.00	03/08/23
23C0650-07 [TB-030323]	B333567	5	5.00	03/08/23

Prep Method: SW-846 3510C **Analytical Method: SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23C0650-01 [ASF-CP-00-030323]	B333561	1030	1.00	03/08/23
23C0650-03 [PD-CP-00-030323]	B333561	1040	1.00	03/08/23
23C0650-04 [PD-CP-01-030323]	B333561	1040	1.00	03/08/23

Prep Method: SW-846 3510C **Analytical Method: SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23C0650-01 [ASF-CP-00-030323]	B333766	1020	1.00	03/09/23
23C0650-02 [ASF-CP-01-030323]	B333766	1030	1.00	03/09/23
23C0650-03 [PD-CP-00-030323]	B333766	1020	1.00	03/09/23
23C0650-04 [PD-CP-01-030323]	B333766	1040	1.00	03/09/23

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B333567 - SW-846 5030B										
Blank (B333567-BLK1)				Prepared & Analyzed: 03/08/23						
Acetone	ND	50	µg/L							
Acrylonitrile	ND	5.0	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.60	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B333567 - SW-846 5030B										
Blank (B333567-BLK1)				Prepared & Analyzed: 03/08/23						
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,3,5-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*23.2*		µg/L	25.0		92.6	70-130			
Surrogate: Toluene-d8	*24.8*		µg/L	25.0		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	*24.8*		µg/L	25.0		99.2	70-130			
LCS (B333567-BS1)				Prepared & Analyzed: 03/08/23						
Acetone	99.8	50	µg/L	100		99.8	70-160			†
Acrylonitrile	9.91	5.0	µg/L	10.0		99.1	70-130			
tert-Amyl Methyl Ether (TAME)	9.43	0.50	µg/L	10.0		94.3	70-130			
Benzene	9.74	1.0	µg/L	10.0		97.4	70-130			
Bromobenzene	10.0	1.0	µg/L	10.0		100	70-130			
Bromochloromethane	10.4	1.0	µg/L	10.0		104	70-130			
Bromodichloromethane	9.88	0.50	µg/L	10.0		98.8	70-130			
Bromoform	10.7	1.0	µg/L	10.0		107	70-130			
Bromomethane	8.92	2.0	µg/L	10.0		89.2	40-160			†
2-Butanone (MEK)	109	20	µg/L	100		109	40-160			†
tert-Butyl Alcohol (TBA)	107	20	µg/L	100		107	40-160			†
n-Butylbenzene	10.3	1.0	µg/L	10.0		103	70-130			
sec-Butylbenzene	10.4	1.0	µg/L	10.0		104	70-130			
tert-Butylbenzene	10.2	1.0	µg/L	10.0		102	70-130			
tert-Butyl Ethyl Ether (TBEE)	9.67	0.50	µg/L	10.0		96.7	70-130			
Carbon Disulfide	102	5.0	µg/L	100		102	70-130			
Carbon Tetrachloride	9.79	5.0	µg/L	10.0		97.9	70-130			
Chlorobenzene	10.3	1.0	µg/L	10.0		103	70-130			
Chlorodibromomethane	10.4	0.50	µg/L	10.0		104	70-130			
Chloroethane	10.5	2.0	µg/L	10.0		105	70-130			
Chloroform	9.39	2.0	µg/L	10.0		93.9	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B333567 - SW-846 5030B										
LCS (B333567-BS1)				Prepared & Analyzed: 03/08/23						
Chloromethane	8.66	2.0	µg/L	10.0		86.6	40-160			†
2-Chlorotoluene	9.30	1.0	µg/L	10.0		93.0	70-130			
4-Chlorotoluene	10.0	1.0	µg/L	10.0		100	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.17	5.0	µg/L	10.0		91.7	70-130			
1,2-Dibromoethane (EDB)	10.0	0.50	µg/L	10.0		100	70-130			
Dibromomethane	9.72	1.0	µg/L	10.0		97.2	70-130			
1,2-Dichlorobenzene	10.0	1.0	µg/L	10.0		100	70-130			
1,3-Dichlorobenzene	9.91	1.0	µg/L	10.0		99.1	70-130			
1,4-Dichlorobenzene	9.70	1.0	µg/L	10.0		97.0	70-130			
trans-1,4-Dichloro-2-butene	10.4	2.0	µg/L	10.0		104	70-130			
Dichlorodifluoromethane (Freon 12)	9.47	2.0	µg/L	10.0		94.7	40-160			†
1,1-Dichloroethane	9.85	1.0	µg/L	10.0		98.5	70-130			
1,2-Dichloroethane	8.81	1.0	µg/L	10.0		88.1	70-130			
1,1-Dichloroethylene	10.4	1.0	µg/L	10.0		104	70-130			
cis-1,2-Dichloroethylene	9.72	1.0	µg/L	10.0		97.2	70-130			
trans-1,2-Dichloroethylene	9.57	1.0	µg/L	10.0		95.7	70-130			
1,2-Dichloropropane	9.51	1.0	µg/L	10.0		95.1	70-130			
1,3-Dichloropropane	9.56	0.50	µg/L	10.0		95.6	70-130			
2,2-Dichloropropane	9.72	1.0	µg/L	10.0		97.2	40-130			†
1,1-Dichloropropene	9.69	2.0	µg/L	10.0		96.9	70-130			
cis-1,3-Dichloropropene	9.97	0.50	µg/L	10.0		99.7	70-130			
trans-1,3-Dichloropropene	9.73	0.50	µg/L	10.0		97.3	70-130			
Diethyl Ether	10.2	2.0	µg/L	10.0		102	70-130			
Diisopropyl Ether (DIPE)	10.8	0.50	µg/L	10.0		108	70-130			
1,4-Dioxane	105	50	µg/L	100		105	40-130			†
Ethylbenzene	10.8	1.0	µg/L	10.0		108	70-130			
Hexachlorobutadiene	10.1	0.60	µg/L	10.0		101	70-130			
2-Hexanone (MBK)	107	10	µg/L	100		107	70-160			†
Isopropylbenzene (Cumene)	10.4	1.0	µg/L	10.0		104	70-130			
p-Isopropyltoluene (p-Cymene)	10.1	1.0	µg/L	10.0		101	70-130			
Methyl Acetate	10.8	1.0	µg/L	10.0		108	70-130			
Methyl tert-Butyl Ether (MTBE)	9.40	1.0	µg/L	10.0		94.0	70-130			
Methyl Cyclohexane	9.71	1.0	µg/L	10.0		97.1	70-130			
Methylene Chloride	10.0	5.0	µg/L	10.0		100	70-130			
4-Methyl-2-pentanone (MIBK)	107	10	µg/L	100		107	70-160			†
Naphthalene	9.24	2.0	µg/L	10.0		92.4	40-130			†
n-Propylbenzene	10.4	1.0	µg/L	10.0		104	70-130			
Styrene	10.6	1.0	µg/L	10.0		106	70-130			
1,1,1,2-Tetrachloroethane	10.7	1.0	µg/L	10.0		107	70-130			
1,1,2,2-Tetrachloroethane	10.5	0.50	µg/L	10.0		105	70-130			
Tetrachloroethylene	10.2	1.0	µg/L	10.0		102	70-130			
Tetrahydrofuran	11.0	10	µg/L	10.0		110	70-130			
Toluene	9.96	1.0	µg/L	10.0		99.6	70-130			
1,2,3-Trichlorobenzene	9.21	5.0	µg/L	10.0		92.1	70-130			
1,2,4-Trichlorobenzene	9.64	1.0	µg/L	10.0		96.4	70-130			
1,3,5-Trichlorobenzene	9.98	1.0	µg/L	10.0		99.8	70-130			
1,1,1-Trichloroethane	9.74	1.0	µg/L	10.0		97.4	70-130			
1,1,2-Trichloroethane	9.70	1.0	µg/L	10.0		97.0	70-130			
Trichloroethylene	9.90	1.0	µg/L	10.0		99.0	70-130			
Trichlorofluoromethane (Freon 11)	10.8	2.0	µg/L	10.0		108	70-130			
1,2,3-Trichloropropane	9.99	2.0	µg/L	10.0		99.9	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B333567 - SW-846 5030B											
LCS (B333567-BS1)				Prepared & Analyzed: 03/08/23							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.0	1.0	µg/L	10.0		110	70-130				
1,2,4-Trimethylbenzene	10.3	1.0	µg/L	10.0		103	70-130				
1,3,5-Trimethylbenzene	10.4	1.0	µg/L	10.0		104	70-130				
Vinyl Chloride	13.6	2.0	µg/L	10.0		136	40-160			V-20	†
m+p Xylene	21.5	2.0	µg/L	20.0		108	70-130				
o-Xylene	10.7	1.0	µg/L	10.0		107	70-130				
Surrogate: 1,2-Dichloroethane-d4	*23.9*		µg/L	25.0		95.5	70-130				
Surrogate: Toluene-d8	*25.2*		µg/L	25.0		101	70-130				
Surrogate: 4-Bromofluorobenzene	*25.4*		µg/L	25.0		102	70-130				
LCS Dup (B333567-BSD1)				Prepared & Analyzed: 03/08/23							
Acetone	97.9	50	µg/L	100		97.9	70-160	1.89	25		†
Acrylonitrile	10.2	5.0	µg/L	10.0		102	70-130	2.49	25		
tert-Amyl Methyl Ether (TAME)	9.46	0.50	µg/L	10.0		94.6	70-130	0.318	25		
Benzene	9.09	1.0	µg/L	10.0		90.9	70-130	6.90	25		
Bromobenzene	10.0	1.0	µg/L	10.0		100	70-130	0.199	25		
Bromochloromethane	10.3	1.0	µg/L	10.0		103	70-130	0.869	25		
Bromodichloromethane	9.79	0.50	µg/L	10.0		97.9	70-130	0.915	25		
Bromoform	10.8	1.0	µg/L	10.0		108	70-130	0.372	25		
Bromomethane	9.79	2.0	µg/L	10.0		97.9	40-160	9.30	25		†
2-Butanone (MEK)	103	20	µg/L	100		103	40-160	5.16	25		†
tert-Butyl Alcohol (TBA)	104	20	µg/L	100		104	40-160	3.03	25		†
n-Butylbenzene	10.4	1.0	µg/L	10.0		104	70-130	1.74	25		
sec-Butylbenzene	10.3	1.0	µg/L	10.0		103	70-130	0.677	25		
tert-Butylbenzene	10.3	1.0	µg/L	10.0		103	70-130	0.585	25		
tert-Butyl Ethyl Ether (TBEE)	9.73	0.50	µg/L	10.0		97.3	70-130	0.619	25		
Carbon Disulfide	102	5.0	µg/L	100		102	70-130	0.314	25		
Carbon Tetrachloride	10.1	5.0	µg/L	10.0		101	70-130	3.41	25		
Chlorobenzene	10.3	1.0	µg/L	10.0		103	70-130	0.0970	25		
Chlorodibromomethane	10.8	0.50	µg/L	10.0		108	70-130	4.15	25		
Chloroethane	10.6	2.0	µg/L	10.0		106	70-130	0.758	25		
Chloroform	9.01	2.0	µg/L	10.0		90.1	70-130	4.13	25		
Chloromethane	9.17	2.0	µg/L	10.0		91.7	40-160	5.72	25		†
2-Chlorotoluene	9.20	1.0	µg/L	10.0		92.0	70-130	1.08	25		
4-Chlorotoluene	10.2	1.0	µg/L	10.0		102	70-130	1.48	25		
1,2-Dibromo-3-chloropropane (DBCP)	9.06	5.0	µg/L	10.0		90.6	70-130	1.21	25		
1,2-Dibromoethane (EDB)	10.4	0.50	µg/L	10.0		104	70-130	3.53	25		
Dibromomethane	9.99	1.0	µg/L	10.0		99.9	70-130	2.74	25		
1,2-Dichlorobenzene	9.95	1.0	µg/L	10.0		99.5	70-130	1.00	25		
1,3-Dichlorobenzene	10.1	1.0	µg/L	10.0		101	70-130	1.90	25		
1,4-Dichlorobenzene	9.94	1.0	µg/L	10.0		99.4	70-130	2.44	25		
trans-1,4-Dichloro-2-butene	9.67	2.0	µg/L	10.0		96.7	70-130	7.18	25		
Dichlorodifluoromethane (Freon 12)	9.16	2.0	µg/L	10.0		91.6	40-160	3.33	25		†
1,1-Dichloroethane	9.62	1.0	µg/L	10.0		96.2	70-130	2.36	25		
1,2-Dichloroethane	9.00	1.0	µg/L	10.0		90.0	70-130	2.13	25		
1,1-Dichloroethylene	10.6	1.0	µg/L	10.0		106	70-130	1.24	25		
cis-1,2-Dichloroethylene	9.55	1.0	µg/L	10.0		95.5	70-130	1.76	25		
trans-1,2-Dichloroethylene	9.28	1.0	µg/L	10.0		92.8	70-130	3.08	25		
1,2-Dichloropropane	9.78	1.0	µg/L	10.0		97.8	70-130	2.80	25		
1,3-Dichloropropane	9.97	0.50	µg/L	10.0		99.7	70-130	4.20	25		
2,2-Dichloropropane	9.65	1.0	µg/L	10.0		96.5	40-130	0.723	25		†
1,1-Dichloropropene	9.66	2.0	µg/L	10.0		96.6	70-130	0.310	25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B333567 - SW-846 5030B											
LCS Dup (B333567-BSD1)				Prepared & Analyzed: 03/08/23							
cis-1,3-Dichloropropene	10.4	0.50	µg/L	10.0		104	70-130	4.41	25		
trans-1,3-Dichloropropene	9.98	0.50	µg/L	10.0		99.8	70-130	2.54	25		
Diethyl Ether	10.3	2.0	µg/L	10.0		103	70-130	1.07	25		
Diisopropyl Ether (DIPE)	10.5	0.50	µg/L	10.0		105	70-130	2.35	25		
1,4-Dioxane	105	50	µg/L	100		105	40-130	0.0952	50		† ‡
Ethylbenzene	10.4	1.0	µg/L	10.0		104	70-130	3.68	25		
Hexachlorobutadiene	10.3	0.60	µg/L	10.0		103	70-130	1.28	25		
2-Hexanone (MBK)	106	10	µg/L	100		106	70-160	0.968	25		†
Isopropylbenzene (Cumene)	10.4	1.0	µg/L	10.0		104	70-130	0.0961	25		
p-Isopropyltoluene (p-Cymene)	10.3	1.0	µg/L	10.0		103	70-130	1.37	25		
Methyl Acetate	10.5	1.0	µg/L	10.0		105	70-130	3.10	25		
Methyl tert-Butyl Ether (MTBE)	9.36	1.0	µg/L	10.0		93.6	70-130	0.426	25		
Methyl Cyclohexane	10.2	1.0	µg/L	10.0		102	70-130	5.22	25		
Methylene Chloride	10.1	5.0	µg/L	10.0		101	70-130	0.595	25		
4-Methyl-2-pentanone (MIBK)	108	10	µg/L	100		108	70-160	0.662	25		†
Naphthalene	9.07	2.0	µg/L	10.0		90.7	40-130	1.86	25		†
n-Propylbenzene	10.5	1.0	µg/L	10.0		105	70-130	0.477	25		
Styrene	10.7	1.0	µg/L	10.0		107	70-130	1.22	25		
1,1,1,2-Tetrachloroethane	10.6	1.0	µg/L	10.0		106	70-130	1.50	25		
1,1,2,2-Tetrachloroethane	10.4	0.50	µg/L	10.0		104	70-130	1.06	25		
Tetrachloroethylene	10.4	1.0	µg/L	10.0		104	70-130	1.75	25		
Tetrahydrofuran	10.4	10	µg/L	10.0		104	70-130	5.05	25		
Toluene	10.0	1.0	µg/L	10.0		100	70-130	0.601	25		
1,2,3-Trichlorobenzene	9.20	5.0	µg/L	10.0		92.0	70-130	0.109	25		
1,2,4-Trichlorobenzene	9.43	1.0	µg/L	10.0		94.3	70-130	2.20	25		
1,3,5-Trichlorobenzene	9.85	1.0	µg/L	10.0		98.5	70-130	1.31	25		
1,1,1-Trichloroethane	9.71	1.0	µg/L	10.0		97.1	70-130	0.308	25		
1,1,2-Trichloroethane	10.4	1.0	µg/L	10.0		104	70-130	7.25	25		
Trichloroethylene	9.71	1.0	µg/L	10.0		97.1	70-130	1.94	25		
Trichlorofluoromethane (Freon 11)	10.5	2.0	µg/L	10.0		105	70-130	2.26	25		
1,2,3-Trichloropropane	10.0	2.0	µg/L	10.0		100	70-130	0.100	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.0	1.0	µg/L	10.0		110	70-130	0.454	25		
1,2,4-Trimethylbenzene	9.92	1.0	µg/L	10.0		99.2	70-130	3.47	25		
1,3,5-Trimethylbenzene	10.5	1.0	µg/L	10.0		105	70-130	1.15	25		
Vinyl Chloride	13.5	2.0	µg/L	10.0		135	40-160	0.589	25	V-20	†
m+p Xylene	20.8	2.0	µg/L	20.0		104	70-130	3.12	25		
o-Xylene	10.4	1.0	µg/L	10.0		104	70-130	3.32	25		
Surrogate: 1,2-Dichloroethane-d4	*23.5*		µg/L	25.0		94.0	70-130				
Surrogate: Toluene-d8	*25.3*		µg/L	25.0		101	70-130				
Surrogate: 4-Bromofluorobenzene	*25.1*		µg/L	25.0		100	70-130				
Matrix Spike (B333567-MS1)		**Source: 23C0650-03**		Prepared & Analyzed: 03/08/23							
Acetone	88.6	50	µg/L	100	2.56	86.0	70-130				
Acrylonitrile	9.22	5.0	µg/L	10.0	ND	92.2	70-130				
tert-Amyl Methyl Ether (TAME)	8.47	0.50	µg/L	10.0	ND	84.7	70-130				
Benzene	9.11	1.0	µg/L	10.0	ND	91.1	70-130				
Bromobenzene	9.64	1.0	µg/L	10.0	ND	96.4	70-130				
Bromochloromethane	10.7	1.0	µg/L	10.0	ND	107	70-130				
Bromodichloromethane	9.34	0.50	µg/L	10.0	ND	93.4	70-130				
Bromoform	9.81	1.0	µg/L	10.0	ND	98.1	70-130				
Bromomethane	7.95	2.0	µg/L	10.0	ND	79.5	70-130				
2-Butanone (MEK)	96.5	20	µg/L	100	ND	96.5	70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B333567 - SW-846 5030B											
Matrix Spike (B333567-MS1)		**Source: 23C0650-03**		Prepared & Analyzed: 03/08/23							
tert-Butyl Alcohol (TBA)	90.2	20	µg/L	100	ND	90.2		70-130			
n-Butylbenzene	9.26	1.0	µg/L	10.0	ND	92.6		70-130			
sec-Butylbenzene	9.60	1.0	µg/L	10.0	ND	96.0		70-130			
tert-Butylbenzene	9.70	1.0	µg/L	10.0	ND	97.0		70-130			
tert-Butyl Ethyl Ether (TBEE)	8.85	0.50	µg/L	10.0	ND	88.5		70-130			
Carbon Disulfide	114	5.0	µg/L	100	ND	114		70-130			
Carbon Tetrachloride	9.99	5.0	µg/L	10.0	ND	99.9		70-130			
Chlorobenzene	9.99	1.0	µg/L	10.0	ND	99.9		70-130			
Chlorodibromomethane	9.71	0.50	µg/L	10.0	ND	97.1		70-130			
Chloroethane	10.6	2.0	µg/L	10.0	ND	106		70-130			
Chloroform	8.84	2.0	µg/L	10.0	ND	88.4		70-130			
Chloromethane	10.2	2.0	µg/L	10.0	ND	102		70-130			
2-Chlorotoluene	9.02	1.0	µg/L	10.0	ND	90.2		70-130			
4-Chlorotoluene	9.63	1.0	µg/L	10.0	ND	96.3		70-130			
1,2-Dibromo-3-chloropropane (DBCP)	7.30	5.0	µg/L	10.0	ND	73.0		70-130			
1,2-Dibromoethane (EDB)	9.72	0.50	µg/L	10.0	ND	97.2		70-130			
Dibromomethane	9.61	1.0	µg/L	10.0	ND	96.1		70-130			
1,2-Dichlorobenzene	9.15	1.0	µg/L	10.0	ND	91.5		70-130			
1,3-Dichlorobenzene	9.32	1.0	µg/L	10.0	ND	93.2		70-130			
1,4-Dichlorobenzene	9.24	1.0	µg/L	10.0	ND	92.4		70-130			
trans-1,4-Dichloro-2-butene	8.43	2.0	µg/L	10.0	ND	84.3		70-130			
Dichlorodifluoromethane (Freon 12)	10.5	2.0	µg/L	10.0	ND	105		70-130			
1,1-Dichloroethane	9.12	1.0	µg/L	10.0	ND	91.2		70-130			
1,2-Dichloroethane	8.77	1.0	µg/L	10.0	ND	87.7		70-130			
1,1-Dichloroethylene	10.7	1.0	µg/L	10.0	ND	107		70-130			
cis-1,2-Dichloroethylene	9.47	1.0	µg/L	10.0	ND	94.7		70-130			
trans-1,2-Dichloroethylene	9.39	1.0	µg/L	10.0	ND	93.9		70-130			
1,2-Dichloropropane	9.45	1.0	µg/L	10.0	ND	94.5		70-130			
1,3-Dichloropropane	9.44	0.50	µg/L	10.0	ND	94.4		70-130			
2,2-Dichloropropane	7.70	1.0	µg/L	10.0	ND	77.0		70-130			
1,1-Dichloropropene	9.63	2.0	µg/L	10.0	ND	96.3		70-130			
cis-1,3-Dichloropropene	9.42	0.50	µg/L	10.0	ND	94.2		70-130			
trans-1,3-Dichloropropene	9.06	0.50	µg/L	10.0	ND	90.6		70-130			
Diethyl Ether	9.93	2.0	µg/L	10.0	ND	99.3		70-130			
Diisopropyl Ether (DIPE)	9.83	0.50	µg/L	10.0	ND	98.3		70-130			
1,4-Dioxane	117	50	µg/L	100	ND	117		70-130			
Ethylbenzene	9.96	1.0	µg/L	10.0	ND	99.6		70-130			
Hexachlorobutadiene	8.86	0.60	µg/L	10.0	ND	88.6		70-130			
2-Hexanone (MBK)	97.0	10	µg/L	100	ND	97.0		70-130			
Isopropylbenzene (Cumene)	9.94	1.0	µg/L	10.0	ND	99.4		70-130			
p-Isopropyltoluene (p-Cymene)	9.40	1.0	µg/L	10.0	ND	94.0		70-130			
Methyl Acetate	8.39	1.0	µg/L	10.0	ND	83.9		70-130			
Methyl tert-Butyl Ether (MTBE)	8.75	1.0	µg/L	10.0	ND	87.5		70-130			
Methyl Cyclohexane	10.1	1.0	µg/L	10.0	ND	101		70-130			
Methylene Chloride	9.87	5.0	µg/L	10.0	ND	98.7		70-130			
4-Methyl-2-pentanone (MIBK)	98.7	10	µg/L	100	ND	98.7		70-130			
Naphthalene	6.53	2.0	µg/L	10.0	ND	**65.3**	*	70-130			MS-24
n-Propylbenzene	9.94	1.0	µg/L	10.0	ND	99.4		70-130			
Styrene	9.92	1.0	µg/L	10.0	ND	99.2		70-130			
1,1,1,2-Tetrachloroethane	10.4	1.0	µg/L	10.0	ND	104		70-130			
1,1,2,2-Tetrachloroethane	9.48	0.50	µg/L	10.0	ND	94.8		70-130			
Tetrachloroethylene	9.91	1.0	µg/L	10.0	ND	99.1		70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B333567 - SW-846 5030B											
Matrix Spike (B333567-MS1)	**Source: 23C0650-03**			Prepared & Analyzed: 03/08/23							
Tetrahydrofuran	11.1	10	µg/L	10.0	1.90	92.3		70-130			
Toluene	9.49	1.0	µg/L	10.0	ND	94.9		70-130			
1,2,3-Trichlorobenzene	6.78	5.0	µg/L	10.0	ND	**67.8**	*	70-130			MS-24
1,2,4-Trichlorobenzene	7.75	1.0	µg/L	10.0	ND	77.5		70-130			
1,3,5-Trichlorobenzene	8.53	1.0	µg/L	10.0	ND	85.3		70-130			
1,1,1-Trichloroethane	9.46	1.0	µg/L	10.0	ND	94.6		70-130			
1,1,2-Trichloroethane	9.35	1.0	µg/L	10.0	ND	93.5		70-130			
Trichloroethylene	10.0	1.0	µg/L	10.0	ND	100		70-130			
Trichlorofluoromethane (Freon 11)	10.8	2.0	µg/L	10.0	ND	108		70-130			
1,2,3-Trichloropropane	9.08	2.0	µg/L	10.0	ND	90.8		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.1	1.0	µg/L	10.0	ND	111		70-130			
1,2,4-Trimethylbenzene	9.11	1.0	µg/L	10.0	ND	91.1		70-130			
1,3,5-Trimethylbenzene	9.83	1.0	µg/L	10.0	ND	98.3		70-130			
Vinyl Chloride	14.8	2.0	µg/L	10.0	ND	**148**	*	70-130			MS-15, V-20
m+p Xylene	19.6	2.0	µg/L	20.0	ND	98.2		70-130			
o-Xylene	9.83	1.0	µg/L	10.0	ND	98.3		70-130			
Surrogate: 1,2-Dichloroethane-d4	*23.6*		µg/L	25.0		94.6		70-130			
Surrogate: Toluene-d8	*25.3*		µg/L	25.0		101		70-130			
Surrogate: 4-Bromofluorobenzene	*25.5*		µg/L	25.0		102		70-130			
Matrix Spike Dup (B333567-MSD1)	**Source: 23C0650-03**			Prepared & Analyzed: 03/08/23							
Acetone	93.9	50	µg/L	100	2.56	91.3		70-130	5.85	30	
Acrylonitrile	9.47	5.0	µg/L	10.0	ND	94.7		70-130	2.68	30	
tert-Amyl Methyl Ether (TAME)	8.76	0.50	µg/L	10.0	ND	87.6		70-130	3.37	30	
Benzene	9.04	1.0	µg/L	10.0	ND	90.4		70-130	0.771	30	
Bromobenzene	9.62	1.0	µg/L	10.0	ND	96.2		70-130	0.208	30	
Bromochloromethane	10.2	1.0	µg/L	10.0	ND	102		70-130	4.79	30	
Bromodichloromethane	9.51	0.50	µg/L	10.0	ND	95.1		70-130	1.80	30	
Bromoform	10.0	1.0	µg/L	10.0	ND	100		70-130	2.32	30	
Bromomethane	8.77	2.0	µg/L	10.0	ND	87.7		70-130	9.81	30	
2-Butanone (MEK)	98.8	20	µg/L	100	ND	98.8		70-130	2.43	30	
tert-Butyl Alcohol (TBA)	101	20	µg/L	100	ND	101		70-130	11.0	30	
n-Butylbenzene	9.59	1.0	µg/L	10.0	ND	95.9		70-130	3.50	30	
sec-Butylbenzene	9.65	1.0	µg/L	10.0	ND	96.5		70-130	0.519	30	
tert-Butylbenzene	9.87	1.0	µg/L	10.0	ND	98.7		70-130	1.74	30	
tert-Butyl Ethyl Ether (TBEE)	9.07	0.50	µg/L	10.0	ND	90.7		70-130	2.46	30	
Carbon Disulfide	116	5.0	µg/L	100	ND	116		70-130	2.49	30	
Carbon Tetrachloride	9.99	5.0	µg/L	10.0	ND	99.9		70-130	0.00	30	
Chlorobenzene	10.0	1.0	µg/L	10.0	ND	100		70-130	0.599	30	
Chlorodibromomethane	9.58	0.50	µg/L	10.0	ND	95.8		70-130	1.35	30	
Chloroethane	11.0	2.0	µg/L	10.0	ND	110		70-130	2.96	30	
Chloroform	9.13	2.0	µg/L	10.0	ND	91.3		70-130	3.23	30	
Chloromethane	10.3	2.0	µg/L	10.0	ND	103		70-130	1.27	30	
2-Chlorotoluene	9.20	1.0	µg/L	10.0	ND	92.0		70-130	1.98	30	
4-Chlorotoluene	9.64	1.0	µg/L	10.0	ND	96.4		70-130	0.104	30	
1,2-Dibromo-3-chloropropane (DBCP)	8.61	5.0	µg/L	10.0	ND	86.1		70-130	16.5	30	
1,2-Dibromoethane (EDB)	9.76	0.50	µg/L	10.0	ND	97.6		70-130	0.411	30	
Dibromomethane	9.30	1.0	µg/L	10.0	ND	93.0		70-130	3.28	30	
1,2-Dichlorobenzene	9.48	1.0	µg/L	10.0	ND	94.8		70-130	3.54	30	
1,3-Dichlorobenzene	9.47	1.0	µg/L	10.0	ND	94.7		70-130	1.60	30	
1,4-Dichlorobenzene	9.26	1.0	µg/L	10.0	ND	92.6		70-130	0.216	30	
trans-1,4-Dichloro-2-butene	9.30	2.0	µg/L	10.0	ND	93.0		70-130	9.81	30	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B333567 - SW-846 5030B											
Matrix Spike Dup (B333567-MSD1)	**Source: 23C0650-03**			Prepared & Analyzed: 03/08/23							
Dichlorodifluoromethane (Freon 12)	10.5	2.0	µg/L	10.0	ND	105		70-130	0.00	30	
1,1-Dichloroethane	9.49	1.0	µg/L	10.0	ND	94.9		70-130	3.98	30	
1,2-Dichloroethane	8.40	1.0	µg/L	10.0	ND	84.0		70-130	4.31	30	
1,1-Dichloroethylene	10.8	1.0	µg/L	10.0	ND	108		70-130	0.839	30	
cis-1,2-Dichloroethylene	9.46	1.0	µg/L	10.0	ND	94.6		70-130	0.106	30	
trans-1,2-Dichloroethylene	9.48	1.0	µg/L	10.0	ND	94.8		70-130	0.954	30	
1,2-Dichloropropane	9.16	1.0	µg/L	10.0	ND	91.6		70-130	3.12	30	
1,3-Dichloropropane	9.13	0.50	µg/L	10.0	ND	91.3		70-130	3.34	30	
2,2-Dichloropropane	7.88	1.0	µg/L	10.0	ND	78.8		70-130	2.31	30	
1,1-Dichloropropene	9.80	2.0	µg/L	10.0	ND	98.0		70-130	1.75	30	
cis-1,3-Dichloropropene	9.17	0.50	µg/L	10.0	ND	91.7		70-130	2.69	30	
trans-1,3-Dichloropropene	8.79	0.50	µg/L	10.0	ND	87.9		70-130	3.03	30	
Diethyl Ether	10.2	2.0	µg/L	10.0	ND	102		70-130	2.68	30	
Diisopropyl Ether (DIPE)	10.0	0.50	µg/L	10.0	ND	100		70-130	2.21	30	
1,4-Dioxane	124	50	µg/L	100	ND	124		70-130	6.04	30	
Ethylbenzene	10.1	1.0	µg/L	10.0	ND	101		70-130	1.20	30	
Hexachlorobutadiene	9.81	0.60	µg/L	10.0	ND	98.1		70-130	10.2	30	
2-Hexanone (MBK)	104	10	µg/L	100	ND	104		70-130	6.73	30	
Isopropylbenzene (Cumene)	10.2	1.0	µg/L	10.0	ND	102		70-130	2.19	30	
p-Isopropyltoluene (p-Cymene)	9.65	1.0	µg/L	10.0	ND	96.5		70-130	2.62	30	
Methyl Acetate	8.88	1.0	µg/L	10.0	ND	88.8		70-130	5.67	30	
Methyl tert-Butyl Ether (MTBE)	9.00	1.0	µg/L	10.0	ND	90.0		70-130	2.82	30	
Methyl Cyclohexane	9.83	1.0	µg/L	10.0	ND	98.3		70-130	2.51	30	
Methylene Chloride	9.79	5.0	µg/L	10.0	ND	97.9		70-130	0.814	30	
4-Methyl-2-pentanone (MIBK)	104	10	µg/L	100	ND	104		70-130	4.86	30	
Naphthalene	8.39	2.0	µg/L	10.0	ND	83.9		70-130	24.9	30	
n-Propylbenzene	10.1	1.0	µg/L	10.0	ND	101		70-130	1.89	30	
Styrene	10.1	1.0	µg/L	10.0	ND	101		70-130	2.19	30	
1,1,1,2-Tetrachloroethane	10.2	1.0	µg/L	10.0	ND	102		70-130	2.14	30	
1,1,2,2-Tetrachloroethane	9.74	0.50	µg/L	10.0	ND	97.4		70-130	2.71	30	
Tetrachloroethylene	10.5	1.0	µg/L	10.0	ND	105		70-130	5.59	30	
Tetrahydrofuran	12.3	10	µg/L	10.0	1.90	104		70-130	10.1	30	
Toluene	9.62	1.0	µg/L	10.0	ND	96.2		70-130	1.36	30	
1,2,3-Trichlorobenzene	8.73	5.0	µg/L	10.0	ND	87.3		70-130	25.1	30	
1,2,4-Trichlorobenzene	8.66	1.0	µg/L	10.0	ND	86.6		70-130	11.1	30	
1,3,5-Trichlorobenzene	9.34	1.0	µg/L	10.0	ND	93.4		70-130	9.07	30	
1,1,1-Trichloroethane	9.80	1.0	µg/L	10.0	ND	98.0		70-130	3.53	30	
1,1,2-Trichloroethane	9.42	1.0	µg/L	10.0	ND	94.2		70-130	0.746	30	
Trichloroethylene	10.0	1.0	µg/L	10.0	ND	100		70-130	0.299	30	
Trichlorofluoromethane (Freon 11)	11.1	2.0	µg/L	10.0	ND	111		70-130	2.73	30	
1,2,3-Trichloropropane	9.61	2.0	µg/L	10.0	ND	96.1		70-130	5.67	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.2	1.0	µg/L	10.0	ND	112		70-130	0.629	30	
1,2,4-Trimethylbenzene	9.25	1.0	µg/L	10.0	ND	92.5		70-130	1.53	30	
1,3,5-Trimethylbenzene	9.95	1.0	µg/L	10.0	ND	99.5		70-130	1.21	30	
Vinyl Chloride	14.4	2.0	µg/L	10.0	ND	**144**	*	70-130	2.33	30	MS-15, V-20
m+p Xylene	20.1	2.0	µg/L	20.0	ND	101		70-130	2.36	20	
o-Xylene	10.0	1.0	µg/L	10.0	ND	100		70-130	2.11	30	
Surrogate: 1,2-Dichloroethane-d4	*23.9*		µg/L	25.0		95.6		70-130			
Surrogate: Toluene-d8	*25.1*		µg/L	25.0		100		70-130			
Surrogate: 4-Bromofluorobenzene	*25.5*		µg/L	25.0		102		70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B333561 - SW-846 3510C										
Blank (B333561-BLK1)				Prepared: 03/07/23 Analyzed: 03/13/23						
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Acetophenone	ND	10	µg/L							
Aniline	ND	5.0	µg/L							L-04, V-05
Anthracene	ND	5.0	µg/L							
Benzidine	ND	20	µg/L							L-04, V-04, V-05
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							V-06
Benzo(k)fluoranthene	ND	5.0	µg/L							
Benzoic Acid	ND	10	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							
4-Chloro-3-methylphenol	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
1,2-Dichlorobenzene	ND	5.0	µg/L							L-04
1,3-Dichlorobenzene	ND	5.0	µg/L							L-04
1,4-Dichlorobenzene	ND	5.0	µg/L							L-04
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	10	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							V-05
1,2-Diphenylhydrazine/Azobenzene	ND	10	µg/L							
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							L-04
Hexachlorocyclopentadiene	ND	10	µg/L							
Hexachloroethane	ND	10	µg/L							L-04
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
Isophorone	ND	10	µg/L							
1-Methylnaphthalene	ND	5.0	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B333561 - SW-846 3510C											
Blank (B333561-BLK1)				Prepared: 03/07/23 Analyzed: 03/13/23							
2-Methylphenol	ND	10	µg/L								
3/4-Methylphenol	ND	10	µg/L								
Naphthalene	ND	5.0	µg/L								
2-Nitroaniline	ND	10	µg/L								
3-Nitroaniline	ND	10	µg/L								
4-Nitroaniline	ND	10	µg/L								
Nitrobenzene	ND	10	µg/L								
2-Nitrophenol	ND	10	µg/L								
4-Nitrophenol	ND	10	µg/L								
N-Nitrosodimethylamine	ND	10	µg/L								
N-Nitrosodiphenylamine/Diphenylamine	ND	10	µg/L								
N-Nitrosodi-n-propylamine	ND	10	µg/L								
Pentachloronitrobenzene	ND	10	µg/L								
Pentachlorophenol	ND	10	µg/L								
Phenanthrene	ND	5.0	µg/L								
Phenol	ND	10	µg/L								
Pyrene	ND	5.0	µg/L								
Pyridine	ND	5.0	µg/L								
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L								
1,2,4-Trichlorobenzene	ND	5.0	µg/L								L-04
2,4,5-Trichlorophenol	ND	10	µg/L								
2,4,6-Trichlorophenol	ND	10	µg/L								
Surrogate: 2-Fluorophenol	*95.4*		µg/L	200		47.7		15-110			
Surrogate: Phenol-d6	*67.8*		µg/L	200		33.9		15-110			
Surrogate: Nitrobenzene-d5	*91.1*		µg/L	100		91.1		30-130			
Surrogate: 2-Fluorobiphenyl	*73.1*		µg/L	100		73.1		30-130			
Surrogate: 2,4,6-Tribromophenol	*178*		µg/L	200		88.9		15-110			
Surrogate: p-Terphenyl-d14	*107*		µg/L	100		107		30-130			
LCS (B333561-BS1)				Prepared: 03/07/23 Analyzed: 03/09/23							
Acenaphthene	31.5	5.0	µg/L	50.0		63.1		40-140			
Acenaphthylene	30.5	5.0	µg/L	50.0		61.0		40-140			
Acetophenone	35.0	10	µg/L	50.0		70.0		40-140			
Aniline	17.4	5.0	µg/L	50.0		**34.7**	*	40-140			L-04, V-05
Anthracene	39.1	5.0	µg/L	50.0		78.2		40-140			
Benzidine	2.90	20	µg/L	50.0		**5.80**	*	40-140			L-04, V-04, V-05
Benzo(a)anthracene	38.9	5.0	µg/L	50.0		77.9		40-140			
Benzo(a)pyrene	36.8	5.0	µg/L	50.0		73.6		40-140			
Benzo(b)fluoranthene	39.2	5.0	µg/L	50.0		78.5		40-140			
Benzo(g,h,i)perylene	50.2	5.0	µg/L	50.0		100		40-140			V-06
Benzo(k)fluoranthene	41.7	5.0	µg/L	50.0		83.3		40-140			
Benzoic Acid	14.4	10	µg/L	50.0		28.9		10-130			†
Bis(2-chloroethoxy)methane	33.0	10	µg/L	50.0		66.1		40-140			
Bis(2-chloroethyl)ether	30.9	10	µg/L	50.0		61.8		40-140			
Bis(2-chloroisopropyl)ether	34.2	10	µg/L	50.0		68.4		40-140			
Bis(2-Ethylhexyl)phthalate	33.0	10	µg/L	50.0		66.0		40-140			
4-Bromophenylphenylether	33.6	10	µg/L	50.0		67.3		40-140			
Butylbenzylphthalate	34.4	10	µg/L	50.0		68.8		40-140			
Carbazole	40.2	10	µg/L	50.0		80.5		40-140			
4-Chloroaniline	27.9	10	µg/L	50.0		55.9		40-140			
4-Chloro-3-methylphenol	37.0	10	µg/L	50.0		73.9		30-130			
2-Chloronaphthalene	21.2	10	µg/L	50.0		42.4		40-140			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B333561 - SW-846 3510C												
LCS (B333561-BS1)				Prepared: 03/07/23 Analyzed: 03/09/23								
2-Chlorophenol	30.9	10	µg/L	50.0		61.8		30-130				
4-Chlorophenylphenylether	32.9	10	µg/L	50.0		65.8		40-140				
Chrysene	38.4	5.0	µg/L	50.0		76.8		40-140				
Dibenz(a,h)anthracene	45.2	5.0	µg/L	50.0		90.4		40-140				
Dibenzofuran	32.5	5.0	µg/L	50.0		65.0		40-140				
Di-n-butylphthalate	34.9	10	µg/L	50.0		69.9		40-140				
1,2-Dichlorobenzene	17.0	5.0	µg/L	50.0		**34.1**	*	40-140			L-04	
1,3-Dichlorobenzene	14.6	5.0	µg/L	50.0		**29.1**	*	40-140			L-04	
1,4-Dichlorobenzene	15.4	5.0	µg/L	50.0		**30.8**	*	40-140			L-04	
3,3-Dichlorobenzidine	39.4	10	µg/L	50.0		78.9		40-140				
2,4-Dichlorophenol	34.9	10	µg/L	50.0		69.8		30-130				
Diethylphthalate	37.8	10	µg/L	50.0		75.5		40-140				
2,4-Dimethylphenol	35.3	10	µg/L	50.0		70.6		30-130				
Dimethylphthalate	37.0	10	µg/L	50.0		74.1		40-140				
4,6-Dinitro-2-methylphenol	45.2	10	µg/L	50.0		90.3		30-130				
2,4-Dinitrophenol	42.3	10	µg/L	50.0		84.7		30-130				
2,4-Dinitrotoluene	46.6	10	µg/L	50.0		93.3		40-140				
2,6-Dinitrotoluene	43.3	10	µg/L	50.0		86.6		40-140				
Di-n-octylphthalate	30.1	10	µg/L	50.0		60.3		40-140			V-05	
1,2-Diphenylhydrazine/Azobenzene	34.0	10	µg/L	50.0		68.1		40-140				
Fluoranthene	41.3	5.0	µg/L	50.0		82.5		40-140				
Fluorene	36.1	5.0	µg/L	50.0		72.1		40-140				
Hexachlorobenzene	39.3	10	µg/L	50.0		78.6		40-140				
Hexachlorobutadiene	12.0	10	µg/L	50.0		**24.0**	*	40-140			L-04	
Hexachlorocyclopentadiene	13.0	10	µg/L	50.0		**26.0**	*	30-140			L-07	†
Hexachloroethane	11.1	10	µg/L	50.0		**22.3**	*	40-140			L-04	
Indeno(1,2,3-cd)pyrene	45.9	5.0	µg/L	50.0		91.8		40-140				
Isophorone	38.9	10	µg/L	50.0		77.7		40-140				
1-Methylnaphthalene	24.4	5.0	µg/L	50.0		48.8		40-140				
2-Methylnaphthalene	22.2	5.0	µg/L	50.0		44.3		40-140				
2-Methylphenol	28.3	10	µg/L	50.0		56.5		30-130				
3/4-Methylphenol	30.6	10	µg/L	50.0		61.3		30-130				
Naphthalene	25.2	5.0	µg/L	50.0		50.4		40-140				
2-Nitroaniline	39.5	10	µg/L	50.0		79.0		40-140				
3-Nitroaniline	39.9	10	µg/L	50.0		79.7		40-140				
4-Nitroaniline	41.4	10	µg/L	50.0		82.7		40-140				
Nitrobenzene	34.8	10	µg/L	50.0		69.6		40-140				
2-Nitrophenol	33.5	10	µg/L	50.0		67.0		30-130				
4-Nitrophenol	24.9	10	µg/L	50.0		49.8		10-130				†
N-Nitrosodimethylamine	20.8	10	µg/L	50.0		41.5		40-140				
N-Nitrosodiphenylamine/Diphenylamine	37.0	10	µg/L	50.0		74.1		40-140				
N-Nitrosodi-n-propylamine	34.6	10	µg/L	50.0		69.1		40-140				
Pentachloronitrobenzene	41.4	10	µg/L	50.0		82.7		40-140				
Pentachlorophenol	35.8	10	µg/L	50.0		71.6		30-130				
Phenanthrene	38.7	5.0	µg/L	50.0		77.5		40-140				
Phenol	15.2	10	µg/L	50.0		30.3		20-130				†
Pyrene	39.4	5.0	µg/L	50.0		78.7		40-140				
Pyridine	11.6	5.0	µg/L	50.0		23.2		10-140				†
1,2,4,5-Tetrachlorobenzene	20.4	10	µg/L	50.0		40.7		40-140				
1,2,4-Trichlorobenzene	17.5	5.0	µg/L	50.0		**34.9**	*	40-140			L-04	
2,4,5-Trichlorophenol	39.8	10	µg/L	50.0		79.5		30-130				
2,4,6-Trichlorophenol	36.8	10	µg/L	50.0		73.5		30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B333561 - SW-846 3510C												
LCS (B333561-BS1)				Prepared: 03/07/23 Analyzed: 03/09/23								
Surrogate: 2-Fluorophenol	*81.5*		µg/L	200		40.7		15-110				
Surrogate: Phenol-d6	*59.2*		µg/L	200		29.6		15-110				
Surrogate: Nitrobenzene-d5	*77.8*		µg/L	100		77.8		30-130				
Surrogate: 2-Fluorobiphenyl	*74.8*		µg/L	100		74.8		30-130				
Surrogate: 2,4,6-Tribromophenol	*184*		µg/L	200		92.0		15-110				
Surrogate: p-Terphenyl-d14	*89.4*		µg/L	100		89.4		30-130				
LCS Dup (B333561-BSD1)				Prepared: 03/07/23 Analyzed: 03/09/23								
Acenaphthene	35.1	5.0	µg/L	50.0		70.3		40-140	10.8	20		
Acenaphthylene	33.2	5.0	µg/L	50.0		66.5		40-140	8.60	20		
Acetophenone	37.8	10	µg/L	50.0		75.6		40-140	7.75	20		
Aniline	19.2	5.0	µg/L	50.0		**38.4**	*	40-140	9.96	50	L-04, V-05	‡
Anthracene	39.8	5.0	µg/L	50.0		79.6		40-140	1.75	20		
Benzidine	2.97	20	µg/L	50.0		**5.94**	*	40-140	2.39	20	L-04, V-04, V-05	
Benzo(a)anthracene	39.4	5.0	µg/L	50.0		78.9		40-140	1.28	20		
Benzo(a)pyrene	36.9	5.0	µg/L	50.0		73.8		40-140	0.299	20		
Benzo(b)fluoranthene	39.1	5.0	µg/L	50.0		78.2		40-140	0.409	20		
Benzo(g,h,i)perylene	50.7	5.0	µg/L	50.0		101		40-140	0.932	20	V-06	
Benzo(k)fluoranthene	41.4	5.0	µg/L	50.0		82.9		40-140	0.529	20		
Benzoic Acid	14.8	10	µg/L	50.0		29.6		10-130	2.53	50		† ‡
Bis(2-chloroethoxy)methane	34.4	10	µg/L	50.0		68.9		40-140	4.15	20		
Bis(2-chloroethyl)ether	33.8	10	µg/L	50.0		67.6		40-140	9.00	20		
Bis(2-chloroisopropyl)ether	37.4	10	µg/L	50.0		74.8		40-140	9.02	20		
Bis(2-Ethylhexyl)phthalate	32.7	10	µg/L	50.0		65.4		40-140	0.974	20		
4-Bromophenylphenylether	34.5	10	µg/L	50.0		69.0		40-140	2.50	20		
Butylbenzylphthalate	34.4	10	µg/L	50.0		68.8		40-140	0.00	20		
Carbazole	41.0	10	µg/L	50.0		82.0		40-140	1.92	20		
4-Chloroaniline	29.4	10	µg/L	50.0		58.8		40-140	5.06	20		
4-Chloro-3-methylphenol	38.8	10	µg/L	50.0		77.6		30-130	4.80	20		
2-Chloronaphthalene	25.4	10	µg/L	50.0		50.8		40-140	18.0	20		
2-Chlorophenol	33.4	10	µg/L	50.0		66.9		30-130	7.89	20		
4-Chlorophenylphenylether	35.2	10	µg/L	50.0		70.5		40-140	6.96	20		
Chrysene	39.0	5.0	µg/L	50.0		78.1		40-140	1.60	20		
Dibenz(a,h)anthracene	45.4	5.0	µg/L	50.0		90.8		40-140	0.420	20		
Dibenzofuran	35.0	5.0	µg/L	50.0		69.9		40-140	7.26	20		
Di-n-butylphthalate	35.0	10	µg/L	50.0		70.1		40-140	0.314	20		
1,2-Dichlorobenzene	19.6	5.0	µg/L	50.0		**39.2**	*	40-140	13.9	20	L-04	
1,3-Dichlorobenzene	16.7	5.0	µg/L	50.0		**33.4**	*	40-140	13.6	20	L-04	
1,4-Dichlorobenzene	17.3	5.0	µg/L	50.0		**34.6**	*	40-140	11.7	20	L-04	
3,3-Dichlorobenzidine	40.8	10	µg/L	50.0		81.6		40-140	3.44	20		
2,4-Dichlorophenol	36.2	10	µg/L	50.0		72.3		30-130	3.55	20		
Diethylphthalate	38.7	10	µg/L	50.0		77.5		40-140	2.56	20		
2,4-Dimethylphenol	36.2	10	µg/L	50.0		72.4		30-130	2.52	20		
Dimethylphthalate	37.9	10	µg/L	50.0		75.8		40-140	2.30	50		‡
4,6-Dinitro-2-methylphenol	46.3	10	µg/L	50.0		92.7		30-130	2.58	50		‡
2,4-Dinitrophenol	44.0	10	µg/L	50.0		88.0		30-130	3.87	50		‡
2,4-Dinitrotoluene	47.3	10	µg/L	50.0		94.6		40-140	1.41	20		
2,6-Dinitrotoluene	45.9	10	µg/L	50.0		91.7		40-140	5.72	20		
Di-n-octylphthalate	29.8	10	µg/L	50.0		59.5		40-140	1.30	20	V-05	
1,2-Diphenylhydrazine/Azobenzene	35.0	10	µg/L	50.0		69.9		40-140	2.70	20		
Fluoranthene	41.9	5.0	µg/L	50.0		83.9		40-140	1.63	20		
Fluorene	38.0	5.0	µg/L	50.0		76.1		40-140	5.32	20		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B333561 - SW-846 3510C												
LCS Dup (B333561-BSD1)				Prepared: 03/07/23 Analyzed: 03/09/23								
Hexachlorobenzene	39.8	10	µg/L	50.0		79.6		40-140	1.24	20		
Hexachlorobutadiene	13.4	10	µg/L	50.0		**26.8**	*	40-140	11.3	20	L-04	
Hexachlorocyclopentadiene	15.4	10	µg/L	50.0		30.9		30-140	17.1	50		† ‡
Hexachloroethane	12.9	10	µg/L	50.0		**25.8**	*	40-140	14.8	50	L-04	‡
Indeno(1,2,3-cd)pyrene	45.2	5.0	µg/L	50.0		90.3		40-140	1.63	50		‡
Isophorone	40.7	10	µg/L	50.0		81.4		40-140	4.58	20		
1-Methylnaphthalene	28.2	5.0	µg/L	50.0		56.4		40-140	14.5	20		
2-Methylnaphthalene	25.6	5.0	µg/L	50.0		51.2		40-140	14.5	20		
2-Methylphenol	30.4	10	µg/L	50.0		60.9		30-130	7.36	20		
3/4-Methylphenol	33.2	10	µg/L	50.0		66.4		30-130	7.99	20		
Naphthalene	27.8	5.0	µg/L	50.0		55.5		40-140	9.78	20		
2-Nitroaniline	40.3	10	µg/L	50.0		80.5		40-140	1.91	20		
3-Nitroaniline	41.9	10	µg/L	50.0		83.9		40-140	5.04	20		
4-Nitroaniline	43.3	10	µg/L	50.0		86.6		40-140	4.56	20		
Nitrobenzene	37.8	10	µg/L	50.0		75.6		40-140	8.23	20		
2-Nitrophenol	35.0	10	µg/L	50.0		70.0		30-130	4.38	20		
4-Nitrophenol	25.0	10	µg/L	50.0		50.0		10-130	0.401	50		† ‡
N-Nitrosodimethylamine	22.9	10	µg/L	50.0		45.8		40-140	9.89	20		
N-Nitrosodiphenylamine/Diphenylamine	37.4	10	µg/L	50.0		74.8		40-140	0.994	20		
N-Nitrosodi-n-propylamine	38.0	10	µg/L	50.0		75.9		40-140	9.35	20		
Pentachloronitrobenzene	42.8	10	µg/L	50.0		85.6		40-140	3.40	20		
Pentachlorophenol	36.3	10	µg/L	50.0		72.5		30-130	1.25	50		‡
Phenanthrene	39.5	5.0	µg/L	50.0		79.0		40-140	1.94	20		
Phenol	16.3	10	µg/L	50.0		32.6		20-130	7.25	20		†
Pyrene	40.0	5.0	µg/L	50.0		79.9		40-140	1.51	20		
Pyridine	12.8	5.0	µg/L	50.0		25.6		10-140	9.77	50		† ‡
1,2,4,5-Tetrachlorobenzene	24.5	10	µg/L	50.0		49.0		40-140	18.4	20		
1,2,4-Trichlorobenzene	19.8	5.0	µg/L	50.0		**39.7**	*	40-140	12.7	20	L-04	
2,4,5-Trichlorophenol	40.8	10	µg/L	50.0		81.7		30-130	2.70	20		
2,4,6-Trichlorophenol	37.2	10	µg/L	50.0		74.5		30-130	1.30	50		‡
Surrogate: 2-Fluorophenol	*86.9*		µg/L	200		43.4		15-110				
Surrogate: Phenol-d6	*63.9*		µg/L	200		31.9		15-110				
Surrogate: Nitrobenzene-d5	*81.7*		µg/L	100		81.7		30-130				
Surrogate: 2-Fluorobiphenyl	*76.8*		µg/L	100		76.8		30-130				
Surrogate: 2,4,6-Tribromophenol	*185*		µg/L	200		92.4		15-110				
Surrogate: p-Terphenyl-d14	*87.8*		µg/L	100		87.8		30-130				
Matrix Spike (B333561-MS1)		**Source: 23C0650-01**		Prepared: 03/07/23 Analyzed: 03/10/23								
Acenaphthene	33.8	4.9	µg/L	48.5	ND	69.6		40-140				
Acenaphthylene	32.0	4.9	µg/L	48.5	ND	65.9		40-140				
Acetophenone	35.7	9.7	µg/L	48.5	ND	73.5		40-140				
Aniline	20.8	4.9	µg/L	48.5	ND	42.9		40-140			V-05	
Anthracene	36.4	4.9	µg/L	48.5	ND	75.1		40-140				
Benzidine	1.05	19	µg/L	48.5	ND	**2.16**	*	40-140			MS-09, V-04, V-05	
Benzo(a)anthracene	35.3	4.9	µg/L	48.5	ND	72.7		40-140				
Benzo(a)pyrene	34.5	4.9	µg/L	48.5	ND	71.1		40-140				
Benzo(b)fluoranthene	37.3	4.9	µg/L	48.5	ND	76.9		40-140				
Benzo(g,h,i)perylene	31.7	4.9	µg/L	48.5	ND	65.4		40-140				
Benzo(k)fluoranthene	40.2	4.9	µg/L	48.5	ND	82.9		40-140				
Benzoic Acid	17.9	9.7	µg/L	48.5	ND	**36.8**	*	40-140			MS-07A	
Bis(2-chloroethoxy)methane	33.0	9.7	µg/L	48.5	ND	67.9		40-140				
Bis(2-chloroethyl)ether	36.5	9.7	µg/L	48.5	ND	75.2		40-140				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B333561 - SW-846 3510C											
Matrix Spike (B333561-MS1)	**Source: 23C0650-01**			Prepared: 03/07/23 Analyzed: 03/10/23							
Bis(2-chloroisopropyl)ether	43.7	9.7	µg/L	48.5	ND	90.1		40-140			
Bis(2-Ethylhexyl)phthalate	35.1	9.7	µg/L	48.5	ND	72.2		40-140			
4-Bromophenylphenylether	31.7	9.7	µg/L	48.5	ND	65.3		40-140			
Butylbenzylphthalate	36.4	9.7	µg/L	48.5	ND	75.0		40-140			
Carbazole	37.5	9.7	µg/L	48.5	ND	77.2		40-140			
4-Chloroaniline	23.8	9.7	µg/L	48.5	ND	49.0		40-140			V-05
4-Chloro-3-methylphenol	36.6	9.7	µg/L	48.5	ND	75.4		30-130			
2-Chloronaphthalene	26.3	9.7	µg/L	48.5	ND	54.2		40-140			
2-Chlorophenol	31.7	9.7	µg/L	48.5	ND	65.3		30-130			
4-Chlorophenylphenylether	31.5	9.7	µg/L	48.5	ND	65.0		40-140			
Chrysene	34.9	4.9	µg/L	48.5	ND	72.0		40-140			
Dibenz(a,h)anthracene	28.9	4.9	µg/L	48.5	ND	59.5		40-140			
Dibenzofuran	32.5	4.9	µg/L	48.5	ND	67.0		40-140			
Di-n-butylphthalate	34.6	9.7	µg/L	48.5	ND	71.3		40-140			
1,2-Dichlorobenzene	21.0	4.9	µg/L	48.5	ND	43.2		40-140			
1,3-Dichlorobenzene	18.1	4.9	µg/L	48.5	ND	**37.3**	*	40-140			MS-22
1,4-Dichlorobenzene	19.6	4.9	µg/L	48.5	ND	40.4		40-140			
3,3-Dichlorobenzidine	27.1	9.7	µg/L	48.5	ND	55.9		40-140			
2,4-Dichlorophenol	32.2	9.7	µg/L	48.5	ND	66.3		30-130			
Diethylphthalate	35.2	9.7	µg/L	48.5	ND	72.6		40-140			
2,4-Dimethylphenol	33.4	9.7	µg/L	48.5	ND	68.8		30-130			
Dimethylphthalate	33.9	9.7	µg/L	48.5	ND	69.9		40-140			
4,6-Dinitro-2-methylphenol	43.3	9.7	µg/L	48.5	ND	89.2		30-130			
2,4-Dinitrophenol	40.7	9.7	µg/L	48.5	ND	83.9		30-130			
2,4-Dinitrotoluene	42.3	9.7	µg/L	48.5	ND	87.0		40-140			
2,6-Dinitrotoluene	41.1	9.7	µg/L	48.5	ND	84.6		40-140			
Di-n-octylphthalate	36.9	9.7	µg/L	48.5	ND	76.1		40-140			V-05
1,2-Diphenylhydrazine/Azobenzene	39.5	9.7	µg/L	48.5	ND	81.4		40-140			
Fluoranthene	35.4	4.9	µg/L	48.5	ND	72.9		40-140			
Fluorene	34.1	4.9	µg/L	48.5	ND	70.2		40-140			
Hexachlorobenzene	34.7	9.7	µg/L	48.5	ND	71.5		40-140			
Hexachlorobutadiene	15.9	9.7	µg/L	48.5	ND	**32.8**	*	40-140			MS-09
Hexachlorocyclopentadiene	17.3	9.7	µg/L	48.5	ND	35.6		30-130			
Hexachloroethane	16.0	9.7	µg/L	48.5	ND	**33.1**	*	40-140			MS-09
Indeno(1,2,3-cd)pyrene	29.2	4.9	µg/L	48.5	ND	60.1		40-140			
Isophorone	39.5	9.7	µg/L	48.5	ND	81.4		40-140			
1-Methylnaphthalene	29.1	4.9	µg/L	48.5	ND	59.9		40-140			
2-Methylnaphthalene	26.7	4.9	µg/L	48.5	ND	54.9		40-140			
2-Methylphenol	29.1	9.7	µg/L	48.5	ND	59.9		30-130			
3/4-Methylphenol	31.0	9.7	µg/L	48.5	ND	63.9		30-130			
Naphthalene	28.7	4.9	µg/L	48.5	ND	59.1		40-140			
2-Nitroaniline	41.4	9.7	µg/L	48.5	ND	85.2		40-140			
3-Nitroaniline	34.6	9.7	µg/L	48.5	ND	71.3		40-140			
4-Nitroaniline	37.0	9.7	µg/L	48.5	ND	76.2		40-140			
Nitrobenzene	37.1	9.7	µg/L	48.5	ND	76.5		40-140			
2-Nitrophenol	33.1	9.7	µg/L	48.5	ND	68.3		30-130			
4-Nitrophenol	23.2	9.7	µg/L	48.5	ND	47.9		30-130			
N-Nitrosodimethylamine	24.9	9.7	µg/L	48.5	ND	51.4		40-140			
N-Nitrosodiphenylamine/Diphenylamine	36.3	9.7	µg/L	48.5	ND	74.7		40-140			
N-Nitrosodi-n-propylamine	37.5	9.7	µg/L	48.5	ND	77.3		40-140			
Pentachloronitrobenzene	37.1	9.7	µg/L	48.5	ND	76.5		40-140			
Pentachlorophenol	34.1	9.7	µg/L	48.5	ND	70.2		30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B333561 - SW-846 3510C											
Matrix Spike (B333561-MS1)	**Source: 23C0650-01**			Prepared: 03/07/23 Analyzed: 03/10/23							
Phenanthrene	36.2	4.9	µg/L	48.5	ND	74.6		40-140			
Phenol	16.2	9.7	µg/L	48.5	ND	33.3		30-130			
Pyrene	37.5	4.9	µg/L	48.5	ND	77.3		40-140			
Pyridine	12.7	4.9	µg/L	48.5	ND	**26.2**	*	40-140			MS-07A
1,2,4,5-Tetrachlorobenzene	25.8	9.7	µg/L	48.5	ND	53.1		40-140			
1,2,4-Trichlorobenzene	21.5	4.9	µg/L	48.5	ND	44.2		40-140			
2,4,5-Trichlorophenol	36.4	9.7	µg/L	48.5	ND	75.0		30-130			
2,4,6-Trichlorophenol	34.2	9.7	µg/L	48.5	ND	70.4		30-130			
Surrogate: 2-Fluorophenol	*83.8*		µg/L	194		43.2		15-110			
Surrogate: Phenol-d6	*61.6*		µg/L	194		31.7		15-110			
Surrogate: Nitrobenzene-d5	*81.8*		µg/L	97.1		84.3		30-130			
Surrogate: 2-Fluorobiphenyl	*72.0*		µg/L	97.1		74.2		30-130			
Surrogate: 2,4,6-Tribromophenol	*147*		µg/L	194		75.5		15-110			
Surrogate: p-Terphenyl-d14	*83.1*		µg/L	97.1		85.6		30-130			
Matrix Spike (B333561-MS2)	**Source: 23C0650-03**			Prepared: 03/07/23 Analyzed: 03/10/23							
Acenaphthene	34.5	4.8	µg/L	48.1	ND	71.8		40-140			
Acenaphthylene	32.8	4.8	µg/L	48.1	ND	68.3		40-140			
Acetophenone	34.9	9.6	µg/L	48.1	ND	72.7		40-140			
Aniline	26.1	4.8	µg/L	48.1	ND	54.4		40-140			V-05
Anthracene	34.6	4.8	µg/L	48.1	ND	71.9		40-140			
Benzidine	7.17	19	µg/L	48.1	ND	**14.9**	*	40-140			MS-09, V-04, V-05
Benzo(a)anthracene	34.0	4.8	µg/L	48.1	ND	70.7		40-140			
Benzo(a)pyrene	32.1	4.8	µg/L	48.1	ND	66.8		40-140			
Benzo(b)fluoranthene	35.1	4.8	µg/L	48.1	ND	73.1		40-140			
Benzo(g,h,i)perylene	30.7	4.8	µg/L	48.1	ND	63.8		40-140			
Benzo(k)fluoranthene	37.5	4.8	µg/L	48.1	ND	78.1		40-140			
Benzoic Acid	17.9	9.6	µg/L	48.1	ND	**37.2**	*	40-140			MS-07A
Bis(2-chloroethoxy)methane	32.4	9.6	µg/L	48.1	ND	67.5		40-140			
Bis(2-chloroethyl)ether	31.5	9.6	µg/L	48.1	ND	65.5		40-140			
Bis(2-chloroisopropyl)ether	38.9	9.6	µg/L	48.1	ND	80.9		40-140			
Bis(2-Ethylhexyl)phthalate	34.0	9.6	µg/L	48.1	ND	70.7		40-140			
4-Bromophenylphenylether	31.4	9.6	µg/L	48.1	ND	65.3		40-140			
Butylbenzylphthalate	33.8	9.6	µg/L	48.1	ND	70.3		40-140			
Carbazole	35.0	9.6	µg/L	48.1	ND	72.8		40-140			
4-Chloroaniline	27.2	9.6	µg/L	48.1	ND	56.5		40-140			V-05
4-Chloro-3-methylphenol	34.3	9.6	µg/L	48.1	ND	71.3		30-130			
2-Chloronaphthalene	30.7	9.6	µg/L	48.1	ND	63.8		40-140			
2-Chlorophenol	29.5	9.6	µg/L	48.1	ND	61.4		30-130			
4-Chlorophenylphenylether	31.5	9.6	µg/L	48.1	ND	65.6		40-140			
Chrysene	33.5	4.8	µg/L	48.1	ND	69.6		40-140			
Dibenz(a,h)anthracene	28.1	4.8	µg/L	48.1	ND	58.4		40-140			
Dibenzofuran	33.1	4.8	µg/L	48.1	ND	68.8		40-140			
Di-n-butylphthalate	32.4	9.6	µg/L	48.1	ND	67.4		40-140			
1,2-Dichlorobenzene	24.4	4.8	µg/L	48.1	ND	50.8		40-140			
1,3-Dichlorobenzene	22.3	4.8	µg/L	48.1	ND	46.4		40-140			
1,4-Dichlorobenzene	23.6	4.8	µg/L	48.1	ND	49.1		40-140			
3,3-Dichlorobenzidine	32.6	9.6	µg/L	48.1	ND	67.9		40-140			
2,4-Dichlorophenol	31.5	9.6	µg/L	48.1	ND	65.5		30-130			
Diethylphthalate	35.9	9.6	µg/L	48.1	ND	74.6		40-140			
2,4-Dimethylphenol	32.3	9.6	µg/L	48.1	ND	67.1		30-130			
Dimethylphthalate	32.5	9.6	µg/L	48.1	ND	67.5		40-140			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B333561 - SW-846 3510C											
Matrix Spike (B333561-MS2)	**Source: 23C0650-03**			Prepared: 03/07/23 Analyzed: 03/10/23							
4,6-Dinitro-2-methylphenol	41.2	9.6	µg/L	48.1	ND	85.6		30-130			
2,4-Dinitrophenol	40.3	9.6	µg/L	48.1	ND	83.8		30-130			
2,4-Dinitrotoluene	41.3	9.6	µg/L	48.1	ND	85.9		40-140			
2,6-Dinitrotoluene	38.5	9.6	µg/L	48.1	ND	80.0		40-140			
Di-n-octylphthalate	33.7	9.6	µg/L	48.1	ND	70.1		40-140			V-05
1,2-Diphenylhydrazine/Azobenzene	36.7	9.6	µg/L	48.1	ND	76.3		40-140			
Fluoranthene	36.2	4.8	µg/L	48.1	ND	75.3		40-140			
Fluorene	33.9	4.8	µg/L	48.1	ND	70.4		40-140			
Hexachlorobenzene	33.9	9.6	µg/L	48.1	ND	70.5		40-140			
Hexachlorobutadiene	25.5	9.6	µg/L	48.1	ND	53.0		40-140			
Hexachlorocyclopentadiene	28.0	9.6	µg/L	48.1	ND	58.2		30-130			
Hexachloroethane	25.2	9.6	µg/L	48.1	ND	52.4		40-140			
Indeno(1,2,3-cd)pyrene	28.5	4.8	µg/L	48.1	ND	59.2		40-140			
Isophorone	39.2	9.6	µg/L	48.1	ND	81.5		40-140			
1-Methylnaphthalene	33.1	4.8	µg/L	48.1	ND	68.9		40-140			
2-Methylnaphthalene	29.9	4.8	µg/L	48.1	ND	62.3		40-140			
2-Methylphenol	26.7	9.6	µg/L	48.1	ND	55.5		30-130			
3/4-Methylphenol	31.0	9.6	µg/L	48.1	ND	64.5		30-130			
Naphthalene	31.7	4.8	µg/L	48.1	ND	65.8		40-140			
2-Nitroaniline	36.8	9.6	µg/L	48.1	ND	76.6		40-140			
3-Nitroaniline	34.3	9.6	µg/L	48.1	ND	71.3		40-140			
4-Nitroaniline	35.1	9.6	µg/L	48.1	ND	73.1		40-140			
Nitrobenzene	37.1	9.6	µg/L	48.1	ND	77.1		40-140			
2-Nitrophenol	33.1	9.6	µg/L	48.1	ND	68.8		30-130			
4-Nitrophenol	22.4	9.6	µg/L	48.1	ND	46.6		30-130			
N-Nitrosodimethylamine	25.6	9.6	µg/L	48.1	ND	53.3		40-140			
N-Nitrosodiphenylamine/Diphenylamine	34.5	9.6	µg/L	48.1	ND	71.7		40-140			
N-Nitrosodi-n-propylamine	37.6	9.6	µg/L	48.1	ND	78.2		40-140			
Pentachloronitrobenzene	35.2	9.6	µg/L	48.1	ND	73.2		40-140			
Pentachlorophenol	31.8	9.6	µg/L	48.1	ND	66.1		30-130			
Phenanthrene	34.2	4.8	µg/L	48.1	ND	71.2		40-140			
Phenol	15.3	9.6	µg/L	48.1	ND	31.9		30-130			
Pyrene	39.1	4.8	µg/L	48.1	ND	81.4		40-140			
Pyridine	15.5	4.8	µg/L	48.1	ND	**32.2**	*	40-140			MS-07A
1,2,4,5-Tetrachlorobenzene	30.4	9.6	µg/L	48.1	ND	63.2		40-140			
1,2,4-Trichlorobenzene	27.8	4.8	µg/L	48.1	ND	57.9		40-140			
2,4,5-Trichlorophenol	35.0	9.6	µg/L	48.1	ND	72.8		30-130			
2,4,6-Trichlorophenol	32.7	9.6	µg/L	48.1	ND	67.9		30-130			
Surrogate: 2-Fluorophenol	*79.6*		µg/L	192		41.4		15-110			
Surrogate: Phenol-d6	*58.9*		µg/L	192		30.6		15-110			
Surrogate: Nitrobenzene-d5	*81.3*		µg/L	96.2		84.5		30-130			
Surrogate: 2-Fluorobiphenyl	*71.5*		µg/L	96.2		74.4		30-130			
Surrogate: 2,4,6-Tribromophenol	*142*		µg/L	192		73.9		15-110			
Surrogate: p-Terphenyl-d14	*85.6*		µg/L	96.2		89.0		30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B333561 - SW-846 3510C											
Matrix Spike Dup (B333561-MSD1)	**Source: 23C0650-01**			Prepared: 03/07/23 Analyzed: 03/10/23							
Acenaphthene	36.7	4.9	µg/L	48.5	ND	75.7		40-140	8.37	30	
Acenaphthylene	35.7	4.9	µg/L	48.5	ND	73.6		40-140	10.9	30	
Acetophenone	39.3	9.7	µg/L	48.5	ND	81.0		40-140	9.73	30	
Aniline	18.4	4.9	µg/L	48.5	ND	**37.8**	*	40-140	12.4	30	MS-22, V-05
Anthracene	38.9	4.9	µg/L	48.5	ND	80.2		40-140	6.59	30	
Benzidine	0.262	19	µg/L	48.5	ND	**0.540**	*	40-140		30	MS-09, V-04, V-05
Benzo(a)anthracene	38.1	4.9	µg/L	48.5	ND	78.4		40-140	7.60	30	
Benzo(a)pyrene	36.5	4.9	µg/L	48.5	ND	75.1		40-140	5.47	30	
Benzo(b)fluoranthene	40.6	4.9	µg/L	48.5	ND	83.6		40-140	8.32	30	
Benzo(g,h,i)perylene	34.5	4.9	µg/L	48.5	ND	71.1		40-140	8.41	30	
Benzo(k)fluoranthene	42.3	4.9	µg/L	48.5	ND	87.1		40-140	4.92	30	
Benzoic Acid	18.9	9.7	µg/L	48.5	ND	**38.9**	*	40-140	5.55	30	MS-07A
Bis(2-chloroethoxy)methane	35.2	9.7	µg/L	48.5	ND	72.6		40-140	6.64	30	
Bis(2-chloroethyl)ether	41.1	9.7	µg/L	48.5	ND	84.8		40-140	11.9	30	
Bis(2-chloroisopropyl)ether	49.6	9.7	µg/L	48.5	ND	102		40-140	12.6	30	
Bis(2-Ethylhexyl)phthalate	38.9	9.7	µg/L	48.5	ND	80.1		40-140	10.3	30	
4-Bromophenylphenylether	30.8	9.7	µg/L	48.5	ND	63.5		40-140	2.86	30	
Butylbenzylphthalate	39.6	9.7	µg/L	48.5	ND	81.7		40-140	8.45	30	
Carbazole	39.6	9.7	µg/L	48.5	ND	81.5		40-140	5.42	30	
4-Chloroaniline	24.1	9.7	µg/L	48.5	ND	49.7		40-140	1.42	30	V-05
4-Chloro-3-methylphenol	35.6	9.7	µg/L	48.5	ND	73.2		30-130	2.85	30	
2-Chloronaphthalene	32.5	9.7	µg/L	48.5	ND	67.0		40-140	21.1	30	
2-Chlorophenol	34.7	9.7	µg/L	48.5	ND	71.4		30-130	8.84	30	
4-Chlorophenylphenylether	35.0	9.7	µg/L	48.5	ND	72.0		40-140	10.3	30	
Chrysene	37.6	4.9	µg/L	48.5	ND	77.4		40-140	7.31	30	
Dibenz(a,h)anthracene	31.3	4.9	µg/L	48.5	ND	64.4		40-140	7.85	30	
Dibenzofuran	37.3	4.9	µg/L	48.5	ND	76.8		40-140	13.6	30	
Di-n-butylphthalate	37.6	9.7	µg/L	48.5	ND	77.4		40-140	8.17	30	
1,2-Dichlorobenzene	24.8	4.9	µg/L	48.5	ND	51.2		40-140	16.9	30	
1,3-Dichlorobenzene	21.1	4.9	µg/L	48.5	ND	43.5		40-140	15.4	30	
1,4-Dichlorobenzene	22.7	4.9	µg/L	48.5	ND	46.8		40-140	14.8	30	
3,3-Dichlorobenzidine	28.8	9.7	µg/L	48.5	ND	59.3		40-140	5.87	30	
2,4-Dichlorophenol	34.0	9.7	µg/L	48.5	ND	70.1		30-130	5.69	30	
Diethylphthalate	40.0	9.7	µg/L	48.5	ND	82.4		40-140	12.7	30	
2,4-Dimethylphenol	34.7	9.7	µg/L	48.5	ND	71.4		30-130	3.65	30	
Dimethylphthalate	37.6	9.7	µg/L	48.5	ND	77.5		40-140	10.4	30	
4,6-Dinitro-2-methylphenol	44.8	9.7	µg/L	48.5	ND	92.2		30-130	3.28	30	
2,4-Dinitrophenol	44.0	9.7	µg/L	48.5	ND	90.6		30-130	7.59	30	
2,4-Dinitrotoluene	45.8	9.7	µg/L	48.5	ND	94.3		40-140	8.03	30	
2,6-Dinitrotoluene	44.4	9.7	µg/L	48.5	ND	91.5		40-140	7.86	30	
Di-n-octylphthalate	40.2	9.7	µg/L	48.5	ND	82.9		40-140	8.55	30	V-05
1,2-Diphenylhydrazine/Azobenzene	36.4	9.7	µg/L	48.5	ND	75.0		40-140	8.19	30	
Fluoranthene	38.5	4.9	µg/L	48.5	ND	79.3		40-140	8.38	30	
Fluorene	38.3	4.9	µg/L	48.5	ND	78.8		40-140	11.6	30	
Hexachlorobenzene	34.4	9.7	µg/L	48.5	ND	70.9		40-140	0.842	30	
Hexachlorobutadiene	17.7	9.7	µg/L	48.5	ND	**36.4**	*	40-140	10.6	30	MS-09
Hexachlorocyclopentadiene	21.2	9.7	µg/L	48.5	ND	43.7		30-130	20.4	30	
Hexachloroethane	18.3	9.7	µg/L	48.5	ND	**37.6**	*	40-140	12.9	30	MS-09
Indeno(1,2,3-cd)pyrene	32.3	4.9	µg/L	48.5	ND	66.5		40-140	10.2	30	
Isophorone	41.0	9.7	µg/L	48.5	ND	84.6		40-140	3.81	30	
1-Methylnaphthalene	31.0	4.9	µg/L	48.5	ND	63.9		40-140	6.46	30	
2-Methylnaphthalene	30.2	4.9	µg/L	48.5	ND	62.1		40-140	12.3	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B333561 - SW-846 3510C											
Matrix Spike Dup (B333561-MSD1)	**Source: 23C0650-01**			Prepared: 03/07/23 Analyzed: 03/10/23							
2-Methylphenol	31.6	9.7	µg/L	48.5	ND	65.1		30-130	8.29	30	
3/4-Methylphenol	34.3	9.7	µg/L	48.5	ND	70.7		30-130	10.1	30	
Naphthalene	31.7	4.9	µg/L	48.5	ND	65.3		40-140	10.0	30	
2-Nitroaniline	47.2	9.7	µg/L	48.5	ND	97.3		40-140	13.3	30	
3-Nitroaniline	38.3	9.7	µg/L	48.5	ND	78.9		40-140	10.2	30	
4-Nitroaniline	41.9	9.7	µg/L	48.5	ND	86.4		40-140	12.5	30	
Nitrobenzene	41.4	9.7	µg/L	48.5	ND	85.3		40-140	10.9	30	
2-Nitrophenol	35.9	9.7	µg/L	48.5	ND	74.0		30-130	8.10	30	
4-Nitrophenol	25.1	9.7	µg/L	48.5	ND	51.6		30-130	7.52	30	
N-Nitrosodimethylamine	27.7	9.7	µg/L	48.5	ND	57.0		40-140	10.4	30	
N-Nitrosodiphenylamine/Diphenylamine	35.5	9.7	µg/L	48.5	ND	73.2		40-140	2.05	30	
N-Nitrosodi-n-propylamine	41.9	9.7	µg/L	48.5	ND	86.3		40-140	11.1	30	
Pentachloronitrobenzene	36.5	9.7	µg/L	48.5	ND	75.2		40-140	1.71	30	
Pentachlorophenol	33.2	9.7	µg/L	48.5	ND	68.4		30-130	2.66	30	
Phenanthrene	39.0	4.9	µg/L	48.5	ND	80.3		40-140	7.28	30	
Phenol	17.3	9.7	µg/L	48.5	ND	35.7		30-130	6.90	30	
Pyrene	40.3	4.9	µg/L	48.5	ND	83.0		40-140	7.09	30	
Pyridine	11.5	4.9	µg/L	48.5	ND	**23.7**	*	40-140	10.2	30	MS-07A
1,2,4,5-Tetrachlorobenzene	29.8	9.7	µg/L	48.5	ND	61.4		40-140	14.5	30	
1,2,4-Trichlorobenzene	24.3	4.9	µg/L	48.5	ND	50.1		40-140	12.5	30	
2,4,5-Trichlorophenol	39.4	9.7	µg/L	48.5	ND	81.2		30-130	8.02	30	
2,4,6-Trichlorophenol	37.1	9.7	µg/L	48.5	ND	76.4		30-130	8.26	30	
Surrogate: 2-Fluorophenol	*87.3*		µg/L	194		45.0		15-110			
Surrogate: Phenol-d6	*66.3*		µg/L	194		34.2		15-110			
Surrogate: Nitrobenzene-d5	*90.9*		µg/L	97.1		93.6		30-130			
Surrogate: 2-Fluorobiphenyl	*78.9*		µg/L	97.1		81.3		30-130			
Surrogate: 2,4,6-Tribromophenol	*160*		µg/L	194		82.3		15-110			
Surrogate: p-Terphenyl-d14	*87.4*		µg/L	97.1		90.0		30-130			
Matrix Spike Dup (B333561-MSD2)	**Source: 23C0650-03**			Prepared: 03/07/23 Analyzed: 03/10/23							
Acenaphthene	33.2	4.8	µg/L	48.1	ND	69.0		40-140	4.03	30	
Acenaphthylene	31.2	4.8	µg/L	48.1	ND	64.9		40-140	5.08	30	
Acetophenone	33.6	9.6	µg/L	48.1	ND	69.9		40-140	3.96	30	
Aniline	28.9	4.8	µg/L	48.1	ND	60.2		40-140	10.2	30	V-05
Anthracene	33.7	4.8	µg/L	48.1	ND	70.0		40-140	2.71	30	
Benzidine	9.31	19	µg/L	48.1	ND	**19.4**	*	40-140		30	MS-09, V-04, V-05
Benzo(a)anthracene	33.4	4.8	µg/L	48.1	ND	69.4		40-140	1.86	30	
Benzo(a)pyrene	31.8	4.8	µg/L	48.1	ND	66.2		40-140	0.962	30	
Benzo(b)fluoranthene	35.1	4.8	µg/L	48.1	ND	73.0		40-140	0.0822	30	
Benzo(g,h,i)perylene	30.2	4.8	µg/L	48.1	ND	62.9		40-140	1.45	30	
Benzo(k)fluoranthene	37.1	4.8	µg/L	48.1	ND	77.1		40-140	1.24	30	
Benzoic Acid	17.3	9.6	µg/L	48.1	ND	**35.9**	*	40-140	3.50	30	MS-07A
Bis(2-chloroethoxy)methane	32.4	9.6	µg/L	48.1	ND	67.4		40-140	0.119	30	
Bis(2-chloroethyl)ether	33.8	9.6	µg/L	48.1	ND	70.2		40-140	6.87	30	
Bis(2-chloroisopropyl)ether	41.2	9.6	µg/L	48.1	ND	85.7		40-140	5.74	30	
Bis(2-Ethylhexyl)phthalate	32.4	9.6	µg/L	48.1	ND	67.5		40-140	4.75	30	
4-Bromophenylphenylether	29.4	9.6	µg/L	48.1	ND	61.1		40-140	6.58	30	
Butylbenzylphthalate	33.5	9.6	µg/L	48.1	ND	69.7		40-140	0.886	30	
Carbazole	34.6	9.6	µg/L	48.1	ND	71.9		40-140	1.27	30	
4-Chloroaniline	28.0	9.6	µg/L	48.1	ND	58.3		40-140	3.00	30	V-05
4-Chloro-3-methylphenol	33.1	9.6	µg/L	48.1	ND	68.8		30-130	3.60	30	
2-Chloronaphthalene	28.1	9.6	µg/L	48.1	ND	58.5		40-140	8.70	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B333561 - SW-846 3510C											
Matrix Spike Dup (B333561-MSD2)	**Source: 23C0650-03**			Prepared: 03/07/23 Analyzed: 03/10/23							
2-Chlorophenol	29.8	9.6	µg/L	48.1	ND	62.1		30-130	1.10	30	
4-Chlorophenylphenylether	30.0	9.6	µg/L	48.1	ND	62.5		40-140	4.87	30	
Chrysene	32.6	4.8	µg/L	48.1	ND	67.8		40-140	2.59	30	
Dibenz(a,h)anthracene	28.0	4.8	µg/L	48.1	ND	58.3		40-140	0.206	30	
Dibenzofuran	31.2	4.8	µg/L	48.1	ND	64.8		40-140	5.93	30	
Di-n-butylphthalate	31.4	9.6	µg/L	48.1	ND	65.3		40-140	3.20	30	
1,2-Dichlorobenzene	27.9	4.8	µg/L	48.1	ND	58.1		40-140	13.4	30	
1,3-Dichlorobenzene	25.1	4.8	µg/L	48.1	ND	52.2		40-140	11.9	30	
1,4-Dichlorobenzene	25.3	4.8	µg/L	48.1	ND	52.7		40-140	7.11	30	
3,3-Dichlorobenzidine	31.0	9.6	µg/L	48.1	ND	64.5		40-140	5.04	30	
2,4-Dichlorophenol	31.0	9.6	µg/L	48.1	ND	64.4		30-130	1.63	30	
Diethylphthalate	33.9	9.6	µg/L	48.1	ND	70.4		40-140	5.76	30	
2,4-Dimethylphenol	32.3	9.6	µg/L	48.1	ND	67.2		30-130	0.0596	30	
Dimethylphthalate	31.2	9.6	µg/L	48.1	ND	65.0		40-140	3.80	30	
4,6-Dinitro-2-methylphenol	39.5	9.6	µg/L	48.1	ND	82.1		30-130	4.20	30	
2,4-Dinitrophenol	37.9	9.6	µg/L	48.1	ND	78.9		30-130	6.07	30	
2,4-Dinitrotoluene	38.8	9.6	µg/L	48.1	ND	80.7		40-140	6.15	30	
2,6-Dinitrotoluene	37.7	9.6	µg/L	48.1	ND	78.3		40-140	2.17	30	
Di-n-octylphthalate	33.0	9.6	µg/L	48.1	ND	68.7		40-140	2.02	30	V-05
1,2-Diphenylhydrazine/Azobenzene	34.4	9.6	µg/L	48.1	ND	71.5		40-140	6.41	30	
Fluoranthene	33.8	4.8	µg/L	48.1	ND	70.2		40-140	6.90	30	
Fluorene	32.5	4.8	µg/L	48.1	ND	67.5		40-140	4.20	30	
Hexachlorobenzene	31.6	9.6	µg/L	48.1	ND	65.8		40-140	6.90	30	
Hexachlorobutadiene	27.4	9.6	µg/L	48.1	ND	56.9		40-140	7.02	30	
Hexachlorocyclopentadiene	25.0	9.6	µg/L	48.1	ND	52.1		30-130	11.1	30	
Hexachloroethane	26.7	9.6	µg/L	48.1	ND	55.6		40-140	5.97	30	
Indeno(1,2,3-cd)pyrene	28.4	4.8	µg/L	48.1	ND	59.2		40-140	0.101	30	
Isophorone	38.3	9.6	µg/L	48.1	ND	79.6		40-140	2.28	30	
1-Methylnaphthalene	31.1	4.8	µg/L	48.1	ND	64.7		40-140	6.29	30	
2-Methylnaphthalene	29.7	4.8	µg/L	48.1	ND	61.7		40-140	0.903	30	
2-Methylphenol	27.4	9.6	µg/L	48.1	ND	57.0		30-130	2.67	30	
3/4-Methylphenol	29.5	9.6	µg/L	48.1	ND	61.4		30-130	4.89	30	
Naphthalene	30.4	4.8	µg/L	48.1	ND	63.2		40-140	4.16	30	
2-Nitroaniline	37.6	9.6	µg/L	48.1	ND	78.2		40-140	2.12	30	
3-Nitroaniline	35.0	9.6	µg/L	48.1	ND	72.8		40-140	2.11	30	
4-Nitroaniline	34.5	9.6	µg/L	48.1	ND	71.8		40-140	1.74	30	
Nitrobenzene	34.3	9.6	µg/L	48.1	ND	71.4		40-140	7.67	30	
2-Nitrophenol	32.7	9.6	µg/L	48.1	ND	68.0		30-130	1.08	30	
4-Nitrophenol	22.3	9.6	µg/L	48.1	ND	46.4		30-130	0.387	30	
N-Nitrosodimethylamine	28.7	9.6	µg/L	48.1	ND	59.7		40-140	11.4	30	
N-Nitrosodiphenylamine/Diphenylamine	32.6	9.6	µg/L	48.1	ND	67.9		40-140	5.42	30	
N-Nitrosodi-n-propylamine	35.5	9.6	µg/L	48.1	ND	73.8		40-140	5.87	30	
Pentachloronitrobenzene	34.3	9.6	µg/L	48.1	ND	71.3		40-140	2.52	30	
Pentachlorophenol	30.3	9.6	µg/L	48.1	ND	63.0		30-130	4.74	30	
Phenanthrene	33.3	4.8	µg/L	48.1	ND	69.2		40-140	2.79	30	
Phenol	15.4	9.6	µg/L	48.1	ND	31.9		30-130	0.0627	30	
Pyrene	34.7	4.8	µg/L	48.1	ND	72.2		40-140	12.0	30	
Pyridine	17.9	4.8	µg/L	48.1	ND	**37.3**	*	40-140	14.9	30	MS-07A
1,2,4,5-Tetrachlorobenzene	29.0	9.6	µg/L	48.1	ND	60.4		40-140	4.59	30	
1,2,4-Trichlorobenzene	27.6	4.8	µg/L	48.1	ND	57.4		40-140	0.798	30	
2,4,5-Trichlorophenol	33.5	9.6	µg/L	48.1	ND	69.8		30-130	4.29	30	
2,4,6-Trichlorophenol	31.9	9.6	µg/L	48.1	ND	66.3		30-130	2.41	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B333561 - SW-846 3510C										
Matrix Spike Dup (B333561-MSD2)		**Source: 23C0650-03**		Prepared: 03/07/23 Analyzed: 03/10/23						
Surrogate: 2-Fluorophenol	*81.1*		µg/L	192		42.2	15-110			
Surrogate: Phenol-d6	*57.9*		µg/L	192		30.1	15-110			
Surrogate: Nitrobenzene-d5	*74.4*		µg/L	96.2		77.4	30-130			
Surrogate: 2-Fluorobiphenyl	*69.8*		µg/L	96.2		72.6	30-130			
Surrogate: 2,4,6-Tribromophenol	*135*		µg/L	192		70.0	15-110			
Surrogate: p-Terphenyl-d14	*77.1*		µg/L	96.2		80.2	30-130			

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QUALITY CONTROL

1,4-Dioxane by isotope dilution GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B333766 - SW-846 3510C											
Blank (B333766-BLK1)				Prepared: 03/09/23 Analyzed: 03/14/23							
1,4-Dioxane	ND	0.20	µg/L								
Surrogate: 1,4-Dioxane-d8	*2.81*		µg/L	10.0		28.1		15-110			
LCS (B333766-BS1)				Prepared: 03/09/23 Analyzed: 03/14/23							
1,4-Dioxane	12.6	0.20	µg/L	10.0		126		40-140			
Surrogate: 1,4-Dioxane-d8	*3.04*		µg/L	10.0		30.4		15-110			
LCS Dup (B333766-BSD1)				Prepared: 03/09/23 Analyzed: 03/14/23							
1,4-Dioxane	14.1	0.20	µg/L	10.0		**141**	*	40-140	11.7	30	L-07
Surrogate: 1,4-Dioxane-d8	*2.79*		µg/L	10.0		27.9		15-110			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B333466 - SW-846 7470A Prep										
Blank (B333466-BLK1)				Prepared: 03/07/23 Analyzed: 03/08/23						
Mercury	ND	0.00010	mg/L							
LCS (B333466-BS1)				Prepared: 03/07/23 Analyzed: 03/08/23						
Mercury	0.00348	0.00010	mg/L	0.00402		86.7	80-120			
LCS Dup (B333466-BSD1)				Prepared: 03/07/23 Analyzed: 03/08/23						
Mercury	0.00347	0.00010	mg/L	0.00402		86.3	80-120	0.479	20	
Matrix Spike (B333466-MS1)		**Source: 23C0650-02**		Prepared: 03/07/23 Analyzed: 03/08/23						
Mercury	0.00420	0.00010	mg/L	0.00402	0.0000645	103	75-125			
Matrix Spike (B333466-MS2)		**Source: 23C0650-04**		Prepared: 03/07/23 Analyzed: 03/08/23						
Mercury	0.00421	0.00010	mg/L	0.00402		105	75-125			
Matrix Spike Dup (B333466-MSD1)		**Source: 23C0650-02**		Prepared: 03/07/23 Analyzed: 03/08/23						
Mercury	0.00435	0.00010	mg/L	0.00402	0.0000645	107	75-125	3.53	20	
Matrix Spike Dup (B333466-MSD2)		**Source: 23C0650-04**		Prepared: 03/07/23 Analyzed: 03/08/23						
Mercury	0.00421	0.00010	mg/L	0.00402		105	75-125	0.0343	20	
Batch B333657 - SW-846 3005A										
Blank (B333657-BLK1)				Prepared: 03/08/23 Analyzed: 03/12/23						
Aluminum	ND	0.050	mg/L							
Antimony	ND	0.050	mg/L							
Arsenic	ND	0.010	mg/L							
Barium	ND	0.050	mg/L							
Beryllium	ND	0.0040	mg/L							
Cadmium	ND	0.0040	mg/L							
Calcium	ND	0.50	mg/L							
Chromium	ND	0.010	mg/L							
Cobalt	ND	0.010	mg/L							
Copper	ND	0.010	mg/L							
Iron	ND	0.050	mg/L							
Lead	ND	0.010	mg/L							
Magnesium	ND	0.050	mg/L							
Nickel	ND	0.010	mg/L							
Potassium	ND	2.0	mg/L							
Selenium	ND	0.050	mg/L							
Sodium	ND	2.0	mg/L							
Thallium	ND	0.050	mg/L							
Vanadium	ND	0.010	mg/L							
Zinc	ND	0.010	mg/L							

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B333657 - SW-846 3005A										
Blank (B333657-BLK2)				Prepared: 03/08/23 Analyzed: 03/13/23						
Manganese	ND	0.010	mg/L							
Silver	ND	0.010	mg/L							
LCS (B333657-BS1)				Prepared: 03/08/23 Analyzed: 03/12/23						
Aluminum	0.476	0.050	mg/L	0.500		95.3	45.3-154.7			
Antimony	0.508	0.050	mg/L	0.500		102	80-120			
Arsenic	0.494	0.010	mg/L	0.500		98.8	80-120			
Barium	0.526	0.050	mg/L	0.500		105	80-120			
Beryllium	0.533	0.0040	mg/L	0.500		107	80-120			
Cadmium	0.519	0.0040	mg/L	0.500		104	80-120			
Calcium	4.01	0.50	mg/L	4.00		100	80-120			
Chromium	0.518	0.010	mg/L	0.500		104	80-120			
Cobalt	0.521	0.010	mg/L	0.500		104	80-120			
Copper	1.02	0.010	mg/L	1.00		102	80-120			
Iron	4.21	0.050	mg/L	4.00		105	80-120			
Lead	0.533	0.010	mg/L	0.500		107	80-120			
Magnesium	3.89	0.050	mg/L	4.00		97.4	80-120			
Nickel	0.527	0.010	mg/L	0.500		105	80-120			
Potassium	3.79	2.0	mg/L	4.00		94.6	80-120			
Selenium	0.529	0.050	mg/L	0.500		106	80-120			
Sodium	3.93	2.0	mg/L	4.00		98.4	80-120			
Thallium	0.545	0.050	mg/L	0.500		109	80-120			
Vanadium	0.515	0.010	mg/L	0.500		103	80-120			
Zinc	1.05	0.010	mg/L	1.00		105	80-120			
LCS (B333657-BS2)				Prepared: 03/08/23 Analyzed: 03/13/23						
Manganese	0.500	0.010	mg/L	0.500		100	80-120			
Silver	0.553	0.010	mg/L	0.500		111	80-120			
LCS Dup (B333657-BSD1)				Prepared: 03/08/23 Analyzed: 03/12/23						
Aluminum	0.481	0.050	mg/L	0.500		96.1	45.3-154.7	0.887	30	
Antimony	0.494	0.050	mg/L	0.500		98.9	80-120	2.69	20	
Arsenic	0.480	0.010	mg/L	0.500		96.0	80-120	2.96	20	
Barium	0.512	0.050	mg/L	0.500		102	80-120	2.74	20	
Beryllium	0.529	0.0040	mg/L	0.500		106	80-120	0.891	20	
Cadmium	0.505	0.0040	mg/L	0.500		101	80-120	2.75	20	
Calcium	3.96	0.50	mg/L	4.00		99.0	80-120	1.28	20	
Chromium	0.505	0.010	mg/L	0.500		101	80-120	2.43	20	
Cobalt	0.505	0.010	mg/L	0.500		101	80-120	3.17	20	
Copper	0.997	0.010	mg/L	1.00		99.7	80-120	2.64	20	
Iron	4.16	0.050	mg/L	4.00		104	80-120	1.33	20	
Lead	0.516	0.010	mg/L	0.500		103	80-120	3.31	20	
Magnesium	3.85	0.050	mg/L	4.00		96.4	80-120	1.06	20	
Nickel	0.513	0.010	mg/L	0.500		103	80-120	2.76	30	
Potassium	3.76	2.0	mg/L	4.00		94.1	80-120	0.576	20	
Selenium	0.520	0.050	mg/L	0.500		104	80-120	1.72	20	
Sodium	3.90	2.0	mg/L	4.00		97.5	80-120	0.899	20	
Thallium	0.530	0.050	mg/L	0.500		106	80-120	2.92	20	
Vanadium	0.502	0.010	mg/L	0.500		100	80-120	2.62	20	
Zinc	1.02	0.010	mg/L	1.00		102	80-120	3.01	20	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B333657 - SW-846 3005A											
LCS Dup (B333657-BSD2)				Prepared: 03/08/23 Analyzed: 03/13/23							
Manganese	0.493	0.010	mg/L	0.500		98.6		80-120	1.44	20	
Silver	0.544	0.010	mg/L	0.500		109		80-120	1.65	20	
Matrix Spike (B333657-MS1)		**Source: 23C0650-01**		Prepared: 03/08/23 Analyzed: 03/12/23							
Aluminum	0.475	0.050	mg/L	0.500	ND	95.0		75-125			
Antimony	0.508	0.050	mg/L	0.500	ND	102		75-125			
Arsenic	0.499	0.010	mg/L	0.500	ND	99.8		75-125			
Barium	0.559	0.050	mg/L	0.500	0.0551	101		75-125			
Beryllium	0.526	0.0040	mg/L	0.500	ND	105		75-125			
Cadmium	0.509	0.0040	mg/L	0.500	ND	102		75-125			
Calcium	11.8	0.50	mg/L	4.00	8.16	92.1		75-125			
Chromium	0.500	0.010	mg/L	0.500	ND	99.9		75-125			
Cobalt	0.505	0.010	mg/L	0.500	0.00549	99.9		75-125			
Copper	1.05	0.010	mg/L	1.00	0.0345	101		75-125			
Iron	4.21	0.050	mg/L	4.00	0.0619	104		75-125			
Lead	0.505	0.010	mg/L	0.500	ND	101		75-125			
Magnesium	9.28	0.050	mg/L	4.00	5.60	92.0		75-125			
Nickel	0.512	0.010	mg/L	0.500	ND	102		75-125			
Potassium	16.7	2.0	mg/L	4.00	12.9	94.5		75-125			
Selenium	0.527	0.050	mg/L	0.500	ND	105		75-125			
Sodium	89.7	2.0	mg/L	4.00	86.3	84.8		75-125			
Thallium	0.529	0.050	mg/L	0.500	ND	106		75-125			
Vanadium	0.506	0.010	mg/L	0.500	ND	101		75-125			
Zinc	1.04	0.010	mg/L	1.00	0.0152	102		75-125			
Matrix Spike (B333657-MS2)		**Source: 23C0650-03**		Prepared: 03/08/23 Analyzed: 03/12/23							
Aluminum	0.480	0.050	mg/L	0.500	ND	96.0		75-125			
Antimony	0.528	0.050	mg/L	0.500	ND	106		75-125			
Arsenic	0.517	0.010	mg/L	0.500	ND	103		75-125			
Barium	0.588	0.050	mg/L	0.500	0.0551	107		75-125			
Beryllium	0.536	0.0040	mg/L	0.500	ND	107		75-125			
Cadmium	0.529	0.0040	mg/L	0.500	ND	106		75-125			
Calcium	12.2	0.50	mg/L	4.00	7.69	112		75-125			
Chromium	0.525	0.010	mg/L	0.500	ND	105		75-125			
Cobalt	0.530	0.010	mg/L	0.500	0.00489	105		75-125			
Copper	1.08	0.010	mg/L	1.00	0.0128	106		75-125			
Iron	4.29	0.050	mg/L	4.00	ND	107		75-125			
Lead	0.525	0.010	mg/L	0.500	ND	105		75-125			
Magnesium	9.50	0.050	mg/L	4.00	5.31	105		75-125			
Nickel	0.539	0.010	mg/L	0.500	0.00988	106		75-125			
Potassium	17.2	2.0	mg/L	4.00	12.4	120		75-125			
Selenium	0.547	0.050	mg/L	0.500	ND	109		75-125			
Sodium	91.5	2.0	mg/L	4.00	85.8	**142**	*	75-125			MS-19
Thallium	0.549	0.050	mg/L	0.500	ND	110		75-125			
Vanadium	0.531	0.010	mg/L	0.500	ND	106		75-125			
Zinc	1.10	0.010	mg/L	1.00	0.0231	108		75-125			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B333657 - SW-846 3005A											
Matrix Spike (B333657-MS3)		**Source: 23C0650-01**		Prepared: 03/08/23 Analyzed: 03/13/23							
Manganese	0.691	0.010	mg/L	0.500	0.204	97.4		75-125			
Matrix Spike (B333657-MS4)		**Source: 23C0650-03**		Prepared: 03/08/23 Analyzed: 03/13/23							
Manganese	0.679	0.010	mg/L	0.500	0.195	97.0		75-125			
Silver	0.547	0.010	mg/L	0.500	ND	109		75-125			
Matrix Spike Dup (B333657-MSD1)		**Source: 23C0650-01**		Prepared: 03/08/23 Analyzed: 03/12/23							
Aluminum	0.477	0.050	mg/L	0.500	ND	95.4		75-125	0.408	20	
Antimony	0.520	0.050	mg/L	0.500	ND	104		75-125	2.33	20	
Arsenic	0.510	0.010	mg/L	0.500	ND	102		75-125	2.29	20	
Barium	0.580	0.050	mg/L	0.500	0.0551	105		75-125	3.69	20	
Beryllium	0.533	0.0040	mg/L	0.500	ND	107		75-125	1.36	20	
Cadmium	0.521	0.0040	mg/L	0.500	ND	104		75-125	2.30	20	
Calcium	12.0	0.50	mg/L	4.00	8.16	95.8		75-125	1.26	20	
Chromium	0.519	0.010	mg/L	0.500	ND	104		75-125	3.73	20	
Cobalt	0.524	0.010	mg/L	0.500	0.00549	104		75-125	3.65	20	
Copper	1.08	0.010	mg/L	1.00	0.0345	105		75-125	3.49	20	
Iron	4.23	0.050	mg/L	4.00	0.0619	104		75-125	0.487	20	
Lead	0.517	0.010	mg/L	0.500	ND	103		75-125	2.39	20	
Magnesium	9.37	0.050	mg/L	4.00	5.60	94.1		75-125	0.926	20	
Nickel	0.532	0.010	mg/L	0.500	ND	106		75-125	3.83	20	
Potassium	16.9	2.0	mg/L	4.00	12.9	97.9		75-125	0.813	20	
Selenium	0.546	0.050	mg/L	0.500	ND	109		75-125	3.63	20	
Sodium	91.1	2.0	mg/L	4.00	86.3	119		75-125	1.51	20	
Thallium	0.537	0.050	mg/L	0.500	ND	107		75-125	1.46	20	
Vanadium	0.524	0.010	mg/L	0.500	ND	105		75-125	3.54	20	
Zinc	1.08	0.010	mg/L	1.00	0.0152	106		75-125	3.78	20	
Matrix Spike Dup (B333657-MSD2)		**Source: 23C0650-03**		Prepared: 03/08/23 Analyzed: 03/12/23							
Aluminum	0.475	0.050	mg/L	0.500	ND	95.0		75-125	1.05	20	
Antimony	0.525	0.050	mg/L	0.500	ND	105		75-125	0.688	20	
Arsenic	0.517	0.010	mg/L	0.500	ND	103		75-125	0.0302	20	
Barium	0.585	0.050	mg/L	0.500	0.0551	106		75-125	0.566	20	
Beryllium	0.535	0.0040	mg/L	0.500	ND	107		75-125	0.199	20	
Cadmium	0.527	0.0040	mg/L	0.500	ND	105		75-125	0.487	20	
Calcium	12.1	0.50	mg/L	4.00	7.69	111		75-125	0.247	20	
Chromium	0.522	0.010	mg/L	0.500	ND	104		75-125	0.733	20	
Cobalt	0.525	0.010	mg/L	0.500	0.00489	104		75-125	0.881	20	
Copper	1.07	0.010	mg/L	1.00	0.0128	106		75-125	0.306	20	
Iron	4.30	0.050	mg/L	4.00	ND	107		75-125	0.322	20	
Lead	0.522	0.010	mg/L	0.500	ND	104		75-125	0.663	20	
Magnesium	9.47	0.050	mg/L	4.00	5.31	104		75-125	0.315	20	
Nickel	0.535	0.010	mg/L	0.500	0.00988	105		75-125	0.768	20	
Potassium	17.1	2.0	mg/L	4.00	12.4	118		75-125	0.462	20	
Selenium	0.540	0.050	mg/L	0.500	ND	108		75-125	1.20	20	
Sodium	91.8	2.0	mg/L	4.00	85.8	**151**	*	75-125	0.366	20	MS-19
Thallium	0.544	0.050	mg/L	0.500	ND	109		75-125	0.950	20	
Vanadium	0.528	0.010	mg/L	0.500	ND	106		75-125	0.546	20	
Zinc	1.10	0.010	mg/L	1.00	0.0231	107		75-125	0.358	20	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B333657 - SW-846 3005A										
Matrix Spike Dup (B333657-MSD3)		**Source: 23C0650-01**		Prepared: 03/08/23 Analyzed: 03/13/23						
Manganese	0.681	0.010	mg/L	0.500	0.204	95.2	75-125	1.57	20	
Matrix Spike Dup (B333657-MSD4)		**Source: 23C0650-03**		Prepared: 03/08/23 Analyzed: 03/13/23						
Manganese	0.689	0.010	mg/L	0.500	0.195	98.9	75-125	1.45	20	
Silver	0.555	0.010	mg/L	0.500	ND	111	75-125	1.32	20	
Batch B333673 - SW-846 7470A Prep										
Blank (B333673-BLK1)				Prepared: 03/08/23 Analyzed: 03/09/23						
Mercury	ND	0.00010	mg/L							
LCS (B333673-BS1)				Prepared: 03/08/23 Analyzed: 03/09/23						
Mercury	0.00439	0.00010	mg/L	0.00402		109	80-120			
LCS Dup (B333673-BSD1)				Prepared: 03/08/23 Analyzed: 03/09/23						
Mercury	0.00430	0.00010	mg/L	0.00402		107	80-120	2.13	20	
Matrix Spike (B333673-MS1)		**Source: 23C0650-01**		Prepared: 03/08/23 Analyzed: 03/09/23						
Mercury	0.00453	0.00010	mg/L	0.00402	0.000273	106	75-125			
Matrix Spike (B333673-MS2)		**Source: 23C0650-03**		Prepared: 03/08/23 Analyzed: 03/09/23						
Mercury	0.00448	0.00010	mg/L	0.00402	0.000238	106	75-125			
Matrix Spike Dup (B333673-MSD1)		**Source: 23C0650-01**		Prepared: 03/08/23 Analyzed: 03/09/23						
Mercury	0.00433	0.00010	mg/L	0.00402	0.000273	101	75-125	4.38	20	
Matrix Spike Dup (B333673-MSD2)		**Source: 23C0650-03**		Prepared: 03/08/23 Analyzed: 03/09/23						
Mercury	0.00428	0.00010	mg/L	0.00402	0.000238	101	75-125	4.49	20	
Batch B334265 - SW-846 3005A										
Blank (B334265-BLK1)				Prepared & Analyzed: 03/15/23						
Silver	ND	0.010	mg/L							
LCS (B334265-BS1)				Prepared & Analyzed: 03/15/23						
Silver	0.533	0.010	mg/L	0.500		107	80-120			
LCS Dup (B334265-BSD1)				Prepared & Analyzed: 03/15/23						
Silver	0.534	0.010	mg/L	0.500		107	80-120	0.192	20	
Matrix Spike (B334265-MS1)		**Source: 23C0650-01RE1**		Prepared & Analyzed: 03/15/23						
Silver	0.529	0.010	mg/L	0.500	ND	106	75-125			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B334265 - SW-846 3005A										
Matrix Spike Dup (B334265-MSD1)		**Source: 23C0650-01RE1**		Prepared & Analyzed: 03/15/23						
Silver	0.542	0.010	mg/L	0.500	ND	108	75-125	2.39	20	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B333387 - SW-846 7196A										
Blank (B333387-BLK1)				Prepared & Analyzed: 03/06/23						
Hexavalent Chromium	ND	0.0040	mg/L							
LCS (B333387-BS1)				Prepared & Analyzed: 03/06/23						
Hexavalent Chromium	0.11	0.0040	mg/L	0.100		109	80-120			
LCS Dup (B333387-BSD1)				Prepared & Analyzed: 03/06/23						
Hexavalent Chromium	0.11	0.0040	mg/L	0.100		106	80-120	2.41	20	
Matrix Spike (B333387-MS1)		**Source: 23C0650-04**		Prepared & Analyzed: 03/06/23						
Hexavalent Chromium	0.094	0.0040	mg/L	0.100	ND	94.3	85-115			H-03
Matrix Spike Dup (B333387-MSD1)		**Source: 23C0650-04**		Prepared & Analyzed: 03/06/23						
Hexavalent Chromium	0.094	0.0040	mg/L	0.100	ND	94.3	85-115	0.00	20	H-03
Batch B333408 - SM21-23 2540D										
Blank (B333408-BLK1)				Prepared & Analyzed: 03/07/23						
Total Suspended Solids	ND	5.0	mg/L							
LCS (B333408-BS1)				Prepared & Analyzed: 03/07/23						
Total Suspended Solids	148	5.0	mg/L	200		74.0	64.1-125			
Batch B333724 - SM 21-23 5310B										
Blank (B333724-BLK1)				Prepared & Analyzed: 03/09/23						
Total Organic Carbon	ND	1.0	mg/L							
LCS (B333724-BS1)				Prepared & Analyzed: 03/09/23						
Total Organic Carbon	9.96	1.0	mg/L	10.0		99.6	90-110			
LCS Dup (B333724-BSD1)				Prepared & Analyzed: 03/09/23						
Total Organic Carbon	10.2	1.0	mg/L	10.0		102	90-110	2.20	15	
Matrix Spike (B333724-MS1)		**Source: 23C0650-01**		Prepared & Analyzed: 03/09/23						
Total Organic Carbon	8.05	1.0	mg/L	5.00	3.70	87.0	85-115			
Matrix Spike Dup (B333724-MSD1)		**Source: 23C0650-01**		Prepared & Analyzed: 03/09/23						
Total Organic Carbon	8.06	1.0	mg/L	5.00	3.70	87.2	85-115	0.112	15	
Batch B334213 - EPA 300.0										
Blank (B334213-BLK1)				Prepared & Analyzed: 03/15/23						
Chloride	ND	1.0	mg/L							

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B334213 - EPA 300.0											
LCS (B334213-BS1)				Prepared & Analyzed: 03/15/23							
Chloride	9.3	1.0	mg/L	10.0		93.3		90-110			
LCS Dup (B334213-BSD1)				Prepared & Analyzed: 03/15/23							
Chloride	9.3	1.0	mg/L	10.0		92.8		90-110	0.492	20	
Matrix Spike (B334213-MS1)	**Source: 23C0650-03**			Prepared & Analyzed: 03/15/23							
Chloride	220	5.0	mg/L	50.0	130	**188**	*	80-120			MS-11
Matrix Spike Dup (B334213-MSD1)	**Source: 23C0650-03**			Prepared & Analyzed: 03/15/23							
Chloride	220	5.0	mg/L	50.0	130	**187**	*	80-120	0.161	20	MS-11
Batch B334222 - EPA 300.0											
Blank (B334222-BLK1)				Prepared & Analyzed: 03/15/23							
Sulfate	ND	1.0	mg/L								
LCS (B334222-BS1)				Prepared & Analyzed: 03/15/23							
Sulfate	9.4	1.0	mg/L	10.0		93.9		90-110			
LCS Dup (B334222-BSD1)				Prepared & Analyzed: 03/15/23							
Sulfate	9.4	1.0	mg/L	10.0		93.5		90-110	0.396	20	
Matrix Spike (B334222-MS1)	**Source: 23C0650-03**			Prepared & Analyzed: 03/15/23							
Sulfate	31	1.0	mg/L	10.0	23	**76.1**	*	80-120			MS-07
Matrix Spike Dup (B334222-MSD1)	**Source: 23C0650-03**			Prepared & Analyzed: 03/15/23							
Sulfate	31	1.0	mg/L	10.0	23	**77.4**	*	80-120	0.420	20	MS-07
Batch B334843 - SM4500 N Org B C											
Blank (B334843-BLK1)				Prepared: 03/22/23 Analyzed: 03/23/23							
Total Kjeldahl Nitrogen	ND	1.0	mg/L								
LCS (B334843-BS1)				Prepared: 03/22/23 Analyzed: 03/23/23							
Total Kjeldahl Nitrogen	20	1.0	mg/L	20.0		98.0		84.1-113			
Duplicate (B334843-DUP1)	**Source: 23C0650-04**			Prepared: 03/22/23 Analyzed: 03/23/23							
Total Kjeldahl Nitrogen	7.8	1.0	mg/L		8.4				6.90	23	
Matrix Spike (B334843-MS1)	**Source: 23C0650-04**			Prepared: 03/22/23 Analyzed: 03/23/23							
Total Kjeldahl Nitrogen	28	1.0	mg/L	20.0	8.4	98.0		82-122			

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B335038 - SM4500 N Org B C										
Blank (B335038-BLK1)				Prepared: 03/23/23 Analyzed: 03/24/23						
Total Kjeldahl Nitrogen	ND	1.0	mg/L							
LCS (B335038-BS1)				Prepared: 03/23/23 Analyzed: 03/24/23						
Total Kjeldahl Nitrogen	20	1.0	mg/L	20.0		101	84.1-113			
Matrix Spike (B335038-MS1)	**Source: 23C0650-03**			Prepared: 03/23/23 Analyzed: 03/24/23						
Total Kjeldahl Nitrogen	26	1.0	mg/L	20.0	7.8	89.6	82-122			
Matrix Spike Dup (B335038-MSD1)	**Source: 23C0650-03**			Prepared: 03/23/23 Analyzed: 03/24/23						
Total Kjeldahl Nitrogen	27	1.0	mg/L	20.0	7.8	95.2	82-122	4.26	20	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes
Batch B333568 - SM21-23 2540C											
Blank (B333568-BLK1)				Prepared & Analyzed: 03/08/23							
Total Dissolved Solids	ND	10	mg/L								
LCS (B333568-BS1)				Prepared & Analyzed: 03/08/23							
Total Dissolved Solids	250	10	mg/L	293		84.0	64.9-119				
Duplicate (B333568-DUP1)	**Source: 23C0650-03**			Prepared & Analyzed: 03/08/23							
Total Dissolved Solids	230	10	mg/L		260			**14.8**	*	10	R-02

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
H-03	Sample received after recommended holding time was exceeded.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
MS-07	Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery.Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.
MS-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
MS-09	Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-11	Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-15	Matrix spike and matrix spike duplicate recoveries are outside of control limits. Data validation is not affected since results for this compound in this sample are "not detected", and recovery bias is on the high side.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
MS-24	Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.
R-02	Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.
V-04	Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 300.0 in Water	
Chloride	NC,NY,MA,VA,ME,NH,CT,RI
Sulfate	NC,NY,MA,VA,ME,NH,CT,RI
SM 21-23 5310B in Water	
Total Organic Carbon	CT,NH,NY,RI,NC,MA,VA
SM19-23 4500-N Org B,C-NH3 C in Water	
Total Kjeldahl Nitrogen	CT,MA,NH,NY,RI,NC,ME,VA
SM21-23 2540C in Water	
Total Dissolved Solids	CT,MA,NH,NY,RI,NC,ME,VA
SM21-23 2540D in Water	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA
SW-846 6010D in Water	
Aluminum	CT,NH,NY,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,RI,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Iron	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Magnesium	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Potassium	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7196A in Water	
Hexavalent Chromium	CT,NH,NY,NC,ME,VA
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8260D in Water	
Acetone	CT,ME,NH,VA,NY
Acrylonitrile	CT,ME,NH,VA,NY
tert-Amyl Methyl Ether (TAME)	ME,NH,VA,NY
Benzene	CT,ME,NH,VA,NY
Bromobenzene	ME,NY
Bromochloromethane	ME,NH,VA,NY

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Water	
Bromodichloromethane	CT,ME,NH,VA,NY
Bromoform	CT,ME,NH,VA,NY
Bromomethane	CT,ME,NH,VA,NY
2-Butanone (MEK)	CT,ME,NH,VA,NY
tert-Butyl Alcohol (TBA)	ME,NH,VA,NY
n-Butylbenzene	ME,VA,NY
sec-Butylbenzene	ME,VA,NY
tert-Butylbenzene	ME,VA,NY
tert-Butyl Ethyl Ether (TBEE)	ME,NH,VA,NY
Carbon Disulfide	CT,ME,NH,VA,NY
Carbon Tetrachloride	CT,ME,NH,VA,NY
Chlorobenzene	CT,ME,NH,VA,NY
Chlorodibromomethane	CT,ME,NH,VA,NY
Chloroethane	CT,ME,NH,VA,NY
Chloroform	CT,ME,NH,VA,NY
Chloromethane	CT,ME,NH,VA,NY
2-Chlorotoluene	ME,NH,VA,NY
4-Chlorotoluene	ME,NH,VA,NY
1,2-Dibromo-3-chloropropane (DBCP)	ME,NY
1,2-Dibromoethane (EDB)	ME,NY
Dibromomethane	ME,NH,VA,NY
1,2-Dichlorobenzene	CT,ME,NH,VA,NY
1,3-Dichlorobenzene	CT,ME,NH,VA,NY
1,4-Dichlorobenzene	CT,ME,NH,VA,NY
trans-1,4-Dichloro-2-butene	ME,NH,VA,NY
Dichlorodifluoromethane (Freon 12)	ME,NH,VA,NY
1,1-Dichloroethane	CT,ME,NH,VA,NY
1,2-Dichloroethane	CT,ME,NH,VA,NY
1,1-Dichloroethylene	CT,ME,NH,VA,NY
cis-1,2-Dichloroethylene	ME,NY
trans-1,2-Dichloroethylene	CT,ME,NH,VA,NY
1,2-Dichloropropane	CT,ME,NH,VA,NY
1,3-Dichloropropane	ME,VA,NY
2,2-Dichloropropane	ME,NH,VA,NY
1,1-Dichloropropene	ME,NH,VA,NY
cis-1,3-Dichloropropene	CT,ME,NH,VA,NY
trans-1,3-Dichloropropene	CT,ME,NH,VA,NY
Diethyl Ether	ME,NY
Diisopropyl Ether (DIPE)	ME,NH,VA,NY
1,4-Dioxane	ME,NY
Ethylbenzene	CT,ME,NH,VA,NY
Hexachlorobutadiene	CT,ME,NH,VA,NY
2-Hexanone (MBK)	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
p-Isopropyltoluene (p-Cymene)	CT,ME,NH,VA,NY
Methyl Acetate	ME,NY
Methyl tert-Butyl Ether (MTBE)	CT,ME,NH,VA,NY

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Water	
Methyl Cyclohexane	NY
Methylene Chloride	CT,ME,NH,VA,NY
4-Methyl-2-pentanone (MIBK)	CT,ME,NH,VA,NY
Naphthalene	ME,NH,VA,NY
n-Propylbenzene	CT,ME,NH,VA,NY
Styrene	CT,ME,NH,VA,NY
1,1,1,2-Tetrachloroethane	CT,ME,NH,VA,NY
1,1,2,2-Tetrachloroethane	CT,ME,NH,VA,NY
Tetrachloroethylene	CT,ME,NH,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,3-Trichlorobenzene	ME,NH,VA,NY
1,2,4-Trichlorobenzene	CT,ME,NH,VA,NY
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,ME,NH,VA,NY
1,1,2-Trichloroethane	CT,ME,NH,VA,NY
Trichloroethylene	CT,ME,NH,VA,NY
Trichlorofluoromethane (Freon 11)	CT,ME,NH,VA,NY
1,2,3-Trichloropropane	ME,NH,VA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
1,3,5-Trimethylbenzene	ME,VA,NY
Vinyl Chloride	CT,ME,NH,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY
SW-846 8270E in Water	
1,4-Dioxane	NY,NH
Acenaphthene	CT,NY,NC,ME,NH,VA
Acenaphthylene	CT,NY,NC,ME,NH,VA
Acetophenone	NY,NC
Aniline	CT,NY,NC,ME,VA
Anthracene	CT,NY,NC,ME,NH,VA
Benzidine	CT,NY,NC,ME,NH,VA
Benzo(a)anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)pyrene	CT,NY,NC,ME,NH,VA
Benzo(b)fluoranthene	CT,NY,NC,ME,NH,VA
Benzo(g,h,i)perylene	CT,NY,NC,ME,NH,VA
Benzo(k)fluoranthene	CT,NY,NC,ME,NH,VA
Benzoic Acid	NY,NC,ME,NH,VA
Bis(2-chloroethoxy)methane	CT,NY,NC,ME,NH,VA
Bis(2-chloroethyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-chloroisopropyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NC,ME,NH,VA

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Water	
4-Chloro-3-methylphenol	CT,NY,NC,ME,NH,VA
2-Chloronaphthalene	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,3-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
4,6-Dinitro-2-methylphenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrophenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,6-Dinitrotoluene	CT,NY,NC,ME,NH,VA
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
1,2-Diphenylhydrazine/Azobenzene	NY,NC
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluorene	NY,NC,ME,NH,VA
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachloroethane	CT,NY,NC,ME,NH,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA
Isophorone	CT,NY,NC,ME,NH,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA
2-Methylphenol	CT,NY,NC,NH,VA
3/4-Methylphenol	CT,NY,NC,NH,VA
Naphthalene	CT,NY,NC,ME,NH,VA
2-Nitroaniline	CT,NY,NC,ME,NH,VA
3-Nitroaniline	CT,NY,NC,ME,NH,VA
4-Nitroaniline	CT,NY,NC,ME,NH,VA
Nitrobenzene	CT,NY,NC,ME,NH,VA
2-Nitrophenol	CT,NY,NC,ME,NH,VA
4-Nitrophenol	CT,NY,NC,ME,NH,VA
N-Nitrosodimethylamine	CT,NY,NC,ME,NH,VA
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
Pentachloronitrobenzene	NC
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenol	CT,NY,NC,ME,NH,VA

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Water	
Pyrene	CT,NY,NC,ME,NH,VA
Pyridine	CT,NY,NC,ME,NH,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA
2,4,5-Trichlorophenol	CT,NY,NC,ME,NH,VA
2,4,6-Trichlorophenol	CT,NY,NC,ME,NH,VA
2-Fluorophenol	NC

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
MA	Massachusetts DEP	M-MA100	06/30/2023
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
RI	Rhode Island Department of Health	LAO00373	12/30/2023
NC	North Carolina Div. of Water Quality	652	12/31/2023
FL	Florida Department of Health	E871027 NELAP	06/30/2023
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2023

Chain of Custody / Analysis Report

RAMBOLL

Sampler(s): Pawel Mecinski (Signature)

23C0650

Laboratory Use Only

Project Number:

Job Number:

Laboratory ID:

Contact:	Michael Grifasi
Address:	333 West Washington Street Syracuse, New York 13221-4873
Phone:	(315) 956-6100
E-mail:	michael.grifasi@ramboll.com
Project:	NYSDEC Claremont Polychemical Site Q1 Sys Samples
Location:	Old Bethpage, New York

Laboratory:
Pace Analytical Services
39 Spruce St., East
Longmeadow, MA 01028

Attn: RJ McCarthy
Phone: 413-525-2332

Holding Time: 24-hr hold for Cr^{+6}

Package Requirement: Level 2 and Level 3

EDD Format: EQuIS 4-file

Analysis Required

Preservatives: (see key at bottom)

	Sample Identification									Analysis Required																		
	Unique Field Sample ID (sys_sample_code)	Sample Location	Date	Time	Sample Type (See Key)	Sample Matrix (See Key)	Number of Containers	Grab [G] or Composite [C]	Field Filtered? (Y / N)																			
	Preservatives:									1	0	2		0	0	0	3	10	0	4		0	0					
										8620C: VOCs + TBA	8270D: SVOCs	TAL Metals +Mercury (6010D and 7470A)		2570D: TDS	2540D: TSS	7196A: hexavalent chromium	351.2: TKN	9060A: TOC	300.0: Anions Cl,F,SO4,CN	9014: Cyanide via 9014		1633: PFAS	8270 SIM: 1,4-dioxane					
1	ASF-CP-00-030323	ASF	3/3/23	1000	N	WG	12	G	N	X	X	X			X			X				X	X					1
2	ASF-CP-01-030323	ASF		1000	FD	WG	7	G	N			X						X				X	X					2
3	ASF-CP-MS-030323	ASF		1000	MS	WG	2	G	N			X						X										1
4	ASF-CP-MSD-030323	ASF		1000	MSD	WG	2	G	N			X						X										1
5	PD-CP-00-030323	PD		1130	N	WG	20	G	N	X	X	X		X		X	X		X	X		X	X					3
6	PD-CP-01-030323	PD		1130	FD	WG	19	G	N	X	X			X		X	X		X	X		X	X					4
7	PD-CP-MS-030323	PD		1130	MS	WG	10	G	N	X						X	X		X	X								1
8	PD-CP-MSD-030323	PD		1130	MSD	WG	10	G	N	X						X	X		X	X								1
9	RW3-CP-00-030323	RW3		0900	N	WG	4	G	N	X		X			X													5
10	RW3-CP-01-030323	RW3		0900	FD	WG	1	G	N						X													6
12																												
13	TB-030323			0845	TB	WQ	2		N	X																		7
14																												

Special Instructions: 1,4 DIOXANE SEPARATED IN ONE COOLER / SHORT HOLD TIME FOR HEX CHROMIUM

Use the top boxes if the samples are to be shipped via courier (e.g., Fed Ex)

Relinquished by:	Date: 3/3/23	Courier Name: FedEx	Date: 3/3/23	Condition: 4 - TOTAL COOLERS
If: GES, Inc.	Time: 1230	Tracking #:	Time: 1630	
Relinquished by:	Date:	Courier Name:	Date:	Custody Seals Intact? (if so, indicate the #, date, and time of the seal)
If:	Time:	Tracking #:	Time:	
Courier Name: FedEx	Date:	Received By: [illegible]	Date: 3/4/23 1103	Cooler Temperature: 3.5/3.2/3.9/3.8
Tracking #:	Time:	Of: PCL P	Time: 1103	

Other comments or notes regarding condition of samples as received:

Sample Type: N = Normal env. sample, FD = field duplicate, EB = Equipment Blank, TB = Trip Blank, MS = Lab Matrix Spike, Other (Specify): FRB = Field Reagent Blank

Sample Matrix: SE = Sediment, SO = Soil, WG = Groundwater, WQ = Water Quality, WS = Surface Water, WW = Waste Water, WP = Potable Water, AA = Ambient Air, Other (Specify):

Preservative Code: 0 = none, 1 = HCL, 2 = H_2NO_3, 3 = H_2SO_4, 4 = NaOH, 5 = Zn Acetate, 6 = MeOH, 7 = $NaHSO_4$, 8 = Na_3PO_4, 9 = BenzalkoniumCl, 10 = other (H2PO4)

KAN

Table of Contents

FedEx® Tracking

DELIVERED

Saturday

3/4/2023 at 11:03 am

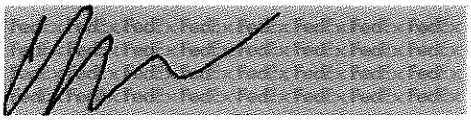
Signed for by: L.AROYO

Obtain Proof of delivery

How was your delivery?

DELIVERY STATUS

Delivered



TRACKING ID

791339832889

FROM
NYDEC_GES
Pawel Mecinski
150 Winding Road
OLD BETHPAGE, NY US 11804
8002203069

Label Created
3/2/2023 10:33 AM

PACKAGE RECEIVED BY FEDEX
MELVILLE, NY
3/3/2023 12:34 PM

IN TRANSIT
WINDSOR LOCKS, CT
3/4/2023 8:41 AM

OUT FOR DELIVERY
WINDSOR LOCKS, CT
3/4/2023 8:46 AM

DELIVERED
Sample Receiving Building 1
Con-Test Analytical Laboratory
39 Spruce St

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F:413-525-6405
www.pacelabs.com

Log In Back-Sheet

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

Pace PEOPLE ADVANCING SCIENCE

Client NYSDEC Old Bethpage

Project NYSDEC Claremont Polychemical Site Q1 SVS Samples

MCP/RCP Required N/A

Deliverable Package Req. N/A

Location Old Bethpage, NY

PWSID# (When Applicable) N/A

Arrival Method:

Courier ☐ Fed Ex ☑ Walk In ☐ Other ☐

Received By / Date / Time LA | 3-4-23 | 1103

Back-Sheet By / Date / Time AAM | 3-6-23 | 1115

Temperature Method Temp Gun # _____

Temp ☑ < 6° C Actual Temperature 3.8 | 3.2 | 3.4 | 3.8C

Rush Samples: Yes / (No) Notify _____

Short Hold: (Yes) / No Notify Dennis

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☐	☑
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☑	☐
MS/MSD	☑	☐
~~Trip Blanks~~	☐	☑
~~Lab to Filters~~	☐	☑
~~COC Legible~~	☑	☐

Notes regarding Samples/COC outside of SOP:

2 additional PD-CP-HS-030323 recieved

COC Included: (Check all included)

Client ☑ Analysis ☑ Sampler Name ☑

Project ☑ IDs ☑ Collection Date/Time ☑

All Samples Proper pH: N/A ☑ ☐

Container (Circle when applicable)	UnP	HCl	HNO3	H2SO4	NaOH	Trizma	NaS2O3	Other Preservative
1L (Amber) (Plastic)	1A-3P							
500 mL Amber (Plastic)	2	-	-					
250 mL (Amber) (Plastic)	4A-2P		6	4	8			
Other Amber Clear Plastic								
16oz Amber Clear								
8oz Amber Clear								
4oz Amber Clear								
2oz Amber Clear								
Col/Bacteria								
Flashpoint								
Plastic Bag								
SOC Kit								
Perchlorate								
Encore								
Frozen								

	Proper Headspace	UnP	HCl	MeOH	Bisulfate	DI	Thiosulfate	Sulfuric	Other
Vials	N/A		14						

575 Broad Hollow Road
Melville, NY 11747
516-370-6000

March 27, 2023

Kyle Murray

39 Spruce St
East Longmeadow, MA 01028

RE: Project: 23C0650
Pace Project No.: 70250010

Dear Kyle Murray:

Enclosed are the analytical results for sample(s) received by the laboratory on March 21, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

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

Sincerely,

Matthew T. Nemeth
matthew.nemeth@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Jessica Hoffman, Con-Test
Raymond McCarthy, Pace Analytical Services - New England

575 Broad Hollow Road
Melville, NY 11747
516-370-6000

CERTIFICATIONS

Project: 23C0650
Pace Project No.: 70250010

Pace Analytical Services Long Island
575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302

REPORT OF LABORATORY ANALYSIS

575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: 23C0650
Pace Project No.: 70250010

Sample: 23C0650-03-CP-00-030323 **Lab ID: 70250010001** Collected: 03/02/23 11:30 Received: 03/21/23 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Fluoride	**<0.10**	mg/L	0.10	1		03/24/23 19:23	16984-48-8	

REPORT OF LABORATORY ANALYSIS

575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: 23C0650
Pace Project No.: 70250010

Sample: 23C0650-04 PD-CP-01-030323 **Lab ID: 70250010002** Collected: 03/02/23 11:30 Received: 03/21/23 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Fluoride	**<0.10**	mg/L	0.10	1		03/24/23 20:03	16984-48-8	

REPORT OF LABORATORY ANALYSIS

575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: 23C0650
Pace Project No.: 70250010

QC Batch: 298539
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70250010001, 70250010002

METHOD BLANK: 1510815 Matrix: Water
Associated Lab Samples: 70250010001, 70250010002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fluoride	mg/L	<0.10	0.10	03/24/23 17:20	

LABORATORY CONTROL SAMPLE: 1510816

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	1	0.99	99	90-110	

MATRIX SPIKE SAMPLE: 1510817

Parameter	Units	70250067001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	<0.10	1	1.0	102	90-110	

MATRIX SPIKE SAMPLE: 1510819

Parameter	Units	70250018001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	<0.10	1	0.84	84	90-110	M1

SAMPLE DUPLICATE: 1510818

Parameter	Units	70250067001 Result	Dup Result	RPD	Qualifiers
Fluoride	mg/L	<0.10	<0.10		

SAMPLE DUPLICATE: 1510820

Parameter	Units	70250018001 Result	Dup Result	RPD	Qualifiers
Fluoride	mg/L	<0.10	<0.10		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALIFIERS

Project: 23C0650
Pace Project No.: 70250010

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 23C0650
Pace Project No.: 70250010

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70250010001	**23C0650-03-CP-00-030323**	EPA 300.0	298539		
70250010002	**23C0650-04 PD-CP-01-030323**	EPA 300.0	298539		

WO# : 70250010

70250010

CONTRACT CHAIN OF CUSTODY

Pace New England

23C0650

SENDING LABORATORY:

Pace New England
39 Spruce Street
East Longmeadow, MA 01028
Phone: 413.525.2332
Fax: 413.525.6405
Project Manager: Kyle A. Murray

RECEIVING LABORATORY:

Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747
Phone :(516) 370-6000
Fax: -

Analysis	Due		Expires	Comments
Sample ID: 23C0650-03 PD-CP-00-030323	**Water**	**Sampled:**	**03/02/23 11:30**	**CAT A, MS/MSD**
Fluoride EPA 300.0	03/27/23 15:30		03/30/23 11:30	
~~S-Cyanide, Total~~	03/20/23 15:30		03/16/23 11:30	via 9014, report in mg/L
Containers Supplied:				
250 mL plastic Unpreserv AB ~~250 mL plastic + NaOH (1~~				
Sample ID: 23C0650-04 PD-CP-01-030323	**Water**	**Sampled:**	**03/02/23 11:30**	**CAT A**
Fluoride EPA 300.0	03/27/23 15:30		03/30/23 11:30	
~~S-Cyanide, Total~~	03/20/23 15:30		03/16/23 11:30	via 9014, report in mg/L
Containers Supplied:				
250 mL plastic Unpreserv AA ~~250 mL plastic + NaOH (1 250 mL plastic + NaOH (1 250 mL plastic + NaOH (1~~				

Released By	Date	Received By	Date
[signature]	3-20-23 17:00	Ash (pace)	3/21/23 1045
Released By	Date	Received By	Date

COC PAGE ___ of ___

Sample Container Count

WO# : 70250010

PM: MN2 **Due Date: 04/04/23**

CLIENT: Pace-CON

Client: Pace-Con Profile # 10061 ☐ Use Point Number Spreadshe

WORK ORDER: 23C0650 Notes

COC Line Item	Matrix	VG9U	VG9C	VG9H	VG9S	DG9T	DG9Y	DG9P	DG9A	DG6T	DG9S	AG4U	AG3U	AG2U	AG1U	AG34	AG3S	AG4E	AG3T	AG2R	AG1T	AG1H	AG1A	CG1U	BP4U	BP3U	BP2U	BP1U	BP3S	BP2S	BP4N	BP3N	BP2N	BP3C	BP3T	BP35	BP3R	BP1Z	BP1N	BP1B	SP5T	IR	WG2U	WGFU	WGKU	WGDU	ZPLC	GN	WP	IOC	SOC	BP2H
1																										1																														
2																										1																														
3																																																							
4																																																							
5																																																							
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9																																																							
10																																																							
11																																																							
12																																																							

Container Codes

Glass				Plastic		Misc.	
VG9U	40mL unpres clear vial	AG4U	125mL unpres amber	BP4U	125mL unpreserved	SP5T	120mL Coliform Na Thio
VG9C	40mL Ascorbic-HCl	AG3U	250mL unpres amber	BP3U	250mL unpreserved	R	Terracore Kit
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber	BP2U	500mL unpreserved	WG2U	2oz Unpreserved Jar
VG9S	40mL Sulfuirc clear vial	AG1U	1liter unpres amber	BP1U	1L unpreserved plastic	WGFU	4oz Unpreserved Jar
DG9T	40mL Na Thiosulfate vial	AG34	Ammonium Cl 250mL	BP4N	125mL HNO3 plastic	WGKU	8oz Unpreserved Jar
DG9Y	40mL Citrate-Na	AG3S	250mL H2SO4 amber	BP3N	250mL HNO3 plastic	WGDU	16oz Unpreserved Jar
DG9P	40mL amber vial - TSP	AG4E	125mL EDA amber	BP2N	500mL HNO3 plastic	ZPLC	Ziplock Bag
DG9A	Ascorbic/Maleic Acid	AG3T	250mL Na Thio amber	BP3S	250mL H2SO4 plastic	TEDL	Tedlar Bag
DG6T	Na Thio 60mL Vial	AG2R	Na Sulfite 500mL (blue	BP2S	500mL H2SO4 plastic	BG1H	1L HCL Clear Glass
DG9S	Ammonium Cl/CuSO4	AG1T	Na Thiosulfate 1L bottle	BP3C	NaOH 250mL bottle	GN	General
CG1U	1L Unpres Jar (Con Ed)	AG1H	1L HCl amber glass	BP3T	250mL Trizma	WP	Wipe
		AG1A	1L Ammonium Chloride	BP35	250mL Ammonium		
WG9O	8oz clear soil jar			BP3R	250mL NH4SO4-		
WG4O	4oz clear soil jar			BP1Z	1L NaOH, Zn Acetate		
				BP1N	1L HNO3 plastic		
				BP1B	Na Thiosulfate Amber		

IOC	
BP1U	1L unpreserved plastic
BP3N*	250mL HNO3 plastic
BP3C	250mL Sodium
AG2U	500mL unpres amber

* Can also be a BP4N

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

SOC		
DG9T	40mL Na Thio amber	2
DG9A	40mL Ascorbic acid	2
DG9Y	Citrate/Na Thiosulfate	2
DG6T	Na Thiosulfate 60mL vial	1
AG3U	250mL unpres amber	
AG3T	Na Thiosulfate 250mL	
BP1B	Na Thiosulfate Amber	
AG1T	Na Thiosultate 1L	2
AG1A	(NH4CL)	2

Additional Comments

Table of Contents

Chain of Custody / Analysis Report

RAMBOLL

Sampler(s): Pawel Mecinski (Signature)

23C0650

Laboratory Use Only — Project Number:

Contact:	Michael Grifasi
Address:	333 West Washington Street, Syracuse, New York 13221-4873
Phone:	(315) 956-6100
E-mail:	michael.grifasi@ramboll.com
Project:	NYSDEC Claremont Polychemical Site Q1 Sys Samples
Location:	Old Bethpage, New York

Laboratory: Pace Analytical Services, 39 Spruce St., East Longmeadow, MA 01028
Attn: RJ McCarthy
Phone: 413-525-2332

Holding Time: 24-hr hold for Cr^{+6}
Package Requirement: Level 2 and Level 3
EDD Format: EQuIS 4-file

Job Number:

Laboratory ID:

Analysis Required

Preservatives: (see key at bottom)

	Sample Identification: Unique Field Sample ID (sys_sample_code)	Sample Location	Date	Time	Sample Type (See Key)	Sample Matrix (See Key)	Number of Containers	Grab [G] or Composite [C]	Field Filtered? (Y / N)	1 / 0 / 2	0	0	0	3	10	0	4	0	0	Lab Sample ID:
										8260C: VOCs + TBA	8270D: SVOCs	TAL Metals +Mercury (6010D and 7470A)	2570D: TDS	5400: TSS	7196A: hexavalent chromium	351.2: TKN	9060A: TOC	300.0: Anions Cl,F,SO4,CN	9014 Cyanide VIA 9014	1633: PFAS	8270 SIM: 1,4-dioxane	
1	ASF-CP-00-030323	ASF	3/3/23	1000	N	WG	12	G	N	X	X	X			X			X		X	X	1
2	ASF-CP-01-030323	ASF		1000	FD	WG	7	G	N			X						X		X	X	2
3	ASF-CP-MS-030323	ASF		1000	MS	WG	2	G	N			X						X				1
4	ASF-CP-MSD-030323	ASF		1000	MSD	WG	2	G	N			X						X				1
5	PD-CP-00-030323	PD		1130	N	WG	20	G	N	X	X	X		X		X	X		X	X	X	X	3
6	PD-CP-01-030323	PD		1130	FD	WG	19	G	N	X	X			X		X	X		X	X	X	X	4
7	PD-CP-MS-030323	PD		1130	MS	WG	10	G	N	X						X	X		X	X			1
8	PD-CP-MSD-030323	PD		1130	MSD	WG	10	G	N	X						X	X		X	X			1
9	RW3-CP-00-030323	RW3		0900	N	WG	4	G	N	X		X			X								5
10	RW3-CP-01-030323	RW3		0900	FD	WG	1	G	N						X								6
12																							
13	TB-030323			0845	TB	WQ	2		N	X													7
14																							

Special Instructions: 1,4 DIOXANE SEPARATED IN ONE COOLER / SHORT HOLD TIME FOR HEX CHROMIUM *

Use the top boxes if the samples are to be shipped via courier (e.g., Fed Ex)

Relinquished by:	Date: 3/3/23	Courier Name: FedEx	Date: 3/3/23
If: GES, Inc.	Time: 1230	Tracking #:	Time: 1630
Relinquished by:	Date:	Courier Name:	Date:
If:	Time:	Tracking #:	Time:
Courier Name: FedEx	Date:	Received By: Cinamyd	Date: 3/4/23 1103
Tracking #:	Time:	Of: PCL	Time: 1103

Condition: 4 - TOTAL COOLERS

Custody Seals Intact? (if so, indicate the #, date, and time of the seal)

Cooler Temperature: 3.8/3.2/3.9/3.8

Other comments or notes regarding condition of samples as received:

Sample Type: N = Normal env. sample, FD = field duplicate, EB = Equipment Blank, TB = Trip Blank, MS = Lab Matrix Spike, Other (Specify): FRB = Field Reagent Blank
Sample Matrix: SE = Sediment, SO = Soil, WG = Groundwater, WQ = Water Quality, WS = Surface Water, WW = Waste Water, WP = Potable Water, AA = Ambient Air, Other (Specify):
Preservative Code: 0 = none, 1 = HCl, 2 = HNO_3, 3 = H_2SO_4, 4 = NaOH, 5 = Zn Acetate, 6 = MeOH, 7 = $NaHSO_4$, 8 = Na_3PO_4, 9 = BenzalkoniumCl, 10 = other (H2PO4)

KAM

Sample Condition Upon R

Pace Analytical®

Client Name:

WO#: 70250010

PM: MN2 Due Date: 04/04/23

CLIENT: Pace-CON

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #: 771604667283

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☐ No ☒ N/A

Temperature Blank Present: ☐ Yes ☒ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☒ None ☐ Other

Type of Ice: (Wet) Blue None

Thermometer Used: TH091 #149 Correction Factor:

☐ Samples on ice, cooling process has begun

Cooler Temperature(°C): 3.4 Cooler Temperature Corrected(°C): 3.5

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☒ N/A, water sample)

Date and Initials of person examining contents: AS 3/21/23

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ No

Did samples originate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present:	☑ Yes	☐ No		1.
Chain of Custody Filled Out:	☑ Yes	☐ No		2.
Chain of Custody Relinquished:	☑ Yes	☐ No		3.
Sampler Name & Signature on COC:	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☐ Yes	☑ No		6.
Rush Turn Around Time Requested:	☐ Yes	☑ No		7.
Sufficient Volume: (Triple volume provided for L	☑ Yes	☐ No		8.
Correct Containers Used:	☑ Yes	☐ No		9.
-Pace Containers Used:	☑ Yes	☐ No		
Containers Intact:	☑ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☑ Yes	☐ No		12.
-Includes date/time/ID/Matrix: SL WT OIL				
All containers needing preservation have been checked?	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot #				Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☐ Yes	☐ No	☑ N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐ Yes	☐ No	☑ N/A	14.
KI starch test strips Lot #.				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulfide?	☐ Yes	☐ No	☑ N/A	15.
Lead Acetate Strips Lot #				Positive for Sulfide? Y N
Headspace in VOA Vials (>6mm):	☐ Yes	☐ No	☑ N/A	16.
Trip Blank Present:	☐ Yes	☐ No	☑ N/A	17.
Trip Blank Custody Seals Present	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

ENV-FRM-MELV-0024 01

575 Broad Hollow Road
Melville, NY 11747
516-370-6000

March 15, 2023

Kyle Murray

39 Spruce St
East Longmeadow, MA 01028

RE: Project: 23C0650
Pace Project No.: 70248628

Dear Kyle Murray:

Enclosed are the analytical results for sample(s) received by the laboratory on March 08, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

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

Sincerely,

Matthew T. Nemeth
matthew.nemeth@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Jessica Hoffman, Con-Test
Raymond McCarthy, Pace Analytical Services - New England

575 Broad Hollow Road
Melville, NY 11747
516-370-6000

CERTIFICATIONS

Project: 23C0650
Pace Project No.: 70248628

Pace Analytical Services Long Island
575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302

REPORT OF LABORATORY ANALYSIS

575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: 23C0650
Pace Project No.: 70248628

Sample: 23C0650-03 **Lab ID: 70248628001** Collected: 03/02/23 11:30 Received: 03/08/23 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9014 Cyanide, Total	Analytical Method: EPA 9014 Total Cyanide Preparation Method: EPA 9010C Pace Analytical Services - Melville							
Cyanide	**<0.010**	mg/L	0.010	1	03/14/23 13:50	03/14/23 17:07	57-12-5	

REPORT OF LABORATORY ANALYSIS

575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: 23C0650
Pace Project No.: 70248628

Sample: 23C0650-04 **Lab ID: 70248628002** Collected: 03/02/23 11:30 Received: 03/08/23 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9014 Cyanide, Total	Analytical Method: EPA 9014 Total Cyanide Preparation Method: EPA 9010C Pace Analytical Services - Melville							
Cyanide	**<0.010**	mg/L	0.010	1	03/14/23 13:50	03/14/23 17:08	57-12-5	

REPORT OF LABORATORY ANALYSIS

575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: 23C0650
Pace Project No.: 70248628

QC Batch: 297141
QC Batch Method: EPA 9010C
Analysis Method: EPA 9014 Total Cyanide
Analysis Description: 9014 Cyanide, Total
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70248628001, 70248628002

METHOD BLANK: 1503518 Matrix: Water
Associated Lab Samples: 70248628001, 70248628002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	<0.010	0.010	03/14/23 17:06	

LABORATORY CONTROL SAMPLE: 1503519

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	0.075	0.076	101	85-115	

MATRIX SPIKE SAMPLE: 1503520

Parameter	Units	70248628002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	<0.010	0.1	0.10	104	75-125	

SAMPLE DUPLICATE: 1503521

Parameter	Units	70248628002 Result	Dup Result	RPD	Qualifiers
Cyanide	mg/L	<0.010	<0.010		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALIFIERS

Project: 23C0650
Pace Project No.: 70248628

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 23C0650
Pace Project No.: 70248628

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70248628001	**23C0650-03**	EPA 9010C	297141	EPA 9014 Total Cyanide	297192
70248628002	**23C0650-04**	EPA 9010C	297141	EPA 9014 Total Cyanide	297192

SUBCONTRACT CHAIN OF CUSTODY

Pace New England

23C0650

SENDING LABORATORY:

Pace New England
39 Spruce Street
East Longmeadow, MA 01028
Phone: 413.525.2332
Fax: 413.525.6405
Project Manager: Kyle A. Murray

RECEIVING LABORATORY:

Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747
Phone :(516) 370-6000
Fax: -

Analysis	Due		Expires	Comments
Sample ID: 23C0650-03 ~~ASF-CP-MS~~ CH PD-CP-00-030323	**Water**	**Sampled:**	**03/02/23 11:30**	**CAT A**
S-Cyanide, Total	03/20/23 15:30		03/16/23 11:30	via 9014, report in mg/L
Containers Supplied:				
250 mL plastic + NaOH (J				
Sample ID: 23C0650-04 PD-CP-01-030323	**Water**	**Sampled:**	**03/02/23 11:30**	**CAT A, MS/MSD**
S-Cyanide, Total	03/20/23 15:30		03/16/23 11:30	via 9014, report in mg/L
Containers Supplied:				
250 mL plastic + NaOH (I 250 mL plastic + NaOH (\ 250 mL plastic + NaOH (\				

WO# : 70248628

70248628

Released By	Date	Received By	Date
[signature]	3-7-23 17:00	[signature]	3/8/23 10:40
Released By	Date	Received By	Date

Chain of Custody / Analysis Report

RAMBOLL

Sampler(s): Pawel Mecinski (Signature)

23C0650

Laboratory Use Only — Project Number:

Contact:	Michael Grifasi
Address:	333 West Washington Street, Syracuse, New York 13221-4873
Phone:	(315) 956-6100
E-mail:	michael.grifasi@ramboll.com
Project:	NYSDEC Claremont Polychemical Site Q1 Sys Samples
Location:	Old Bethpage, New York

Laboratory: Pace Analytical Services, 39 Spruce St., East Longmeadow, MA 01028
Attn: RJ McCarthy
Phone: 413-525-2332

Holding Time: 24-hr hold for Cr^{+6}

Package Requirement: Level 2 and Level 3

EDD Format: EQuIS 4-file

Job Number:

Laboratory ID:

Analysis Required

Preservatives: (see key at bottom)

	Sample Identification: Unique Field Sample ID (sys_sample_code)	Sample Location	Date	Time	Sample Type (See Key)	Sample Matrix (See Key)	Number of Containers	Grab [G] or Composite [C]	Field Filtered? (Y / N)	8620C: VOCs + TBA	8270D: SVOCs	TAL Metals +Mercury (6010D and 7470A)	2570D: TDS	2540D: TSS	7196A: hexavalent chromium	351.2: TKN	9060A: TOC	300.0: Anions Cl,F,SO4,CN	~~9014~~: Cyanide via 9014	1633: PFAS	8270 SIM: 1,4-dioxane	Lab Sample ID:
	Preservatives:									1	0	2	0	0	0	3	10	0	4	0	0	
1	ASF-CP-00-030323	ASF	3/3/23	1000	N	WG	12	G	N	X	X	X			X			X			X	X	1
2	ASF-CP-01-030323	ASF		1000	FD	WG	7	G	N			X						X			X	X	2
3	ASF-CP-MS-030323	ASF		1000	MS	WG	2	G	N			X						X					3
4	ASF-CP-MSD-030323	ASF		1000	MSD	WG	2	G	N			X						X					4
5	PD-CP-00-030323	PD		1130	N	WG	20	G	N	X	X	X		X		X	X		X	X		X	X	5
6	PD-CP-01-030323	PD		1130	FD	WG	19	G	N	X	X			X		X	X		X	X		X	X	6
7	PD-CP-MS-030323	PD		1130	MS	WG	10	G	N	X						X	X		X	X				7
8	PD-CP-MSD-030323	PD		1130	MSD	WG	10	G	N	X						X	X		X	X				8
9	RW3-CP-00-030323	RW3		0900	N	WG	4	G	N	X		X			X									9
10	RW3-CP-01-030323	RW3		0900	FD	WG	1	G	N						X									10
12																								12
13	TB-030323			0845	TB	WQ	2		N	X														13
14																								14

Special Instructions: 1,4 DIOXANE SEPARATED IN ONE COOLER / SHORT HOLD TIME FOR HEX CHROMIUM *

Use the top boxes if the samples are to be shipped via courier (e.g. FedEx)

Relinquished by:	Date: 3/3/23	Courier Name: FedEx	Date: 3/3/23
If: GES, Inc.	Time: 1230	Tracking #:	Time: 1630
Relinquished by:	Date:	Courier Name:	Date:
If:	Time:	Tracking #:	Time:
Courier Name: FedEx	Date:	Received By: [illegible]	Date: 3/4/23 1103
Tracking #:	Time:	Of: PCL	Time: 1103

Condition: 4 - TOTAL COOLERS

Custody Seals Intact? (if so, indicate the #, date, and time of the seal)

Cooler Temperature: 3.8/3.2/3.9/3.8

Other comments or notes regarding condition of samples as received:

Sample Type: N = Normal env. sample, FD = field duplicate, EB = Equipment Blank, TB = Trip Blank, MS = Lab Matrix Spike, Other (Specify): FRB = Field Reagent Blank

Sample Matrix: SE = Sediment, SO = Soil, WG = Groundwater, WQ = Water Quality, WS = Surface Water, WW = Waste Water, WP = Potable Water, AA = Ambient Air, Other (Specify):

Preservative Code: 0 = none, 1 = HCL, 2 = HNO_3, 3 = H_2SO_4, 4 = NaOH, 5 = Zn Acetate, 6 = MeOH, 7 = $NaHSO_4$, 8 = Na_3PO_4, 9 = BenzalkoniumCl, 10 = other (H2PO4)

KAM

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Sample Condition Upon Receipt

Pace Analytical®

WO#: 70248[illegible]

PM: MN2 Due Date: 03/22/23

CLIENT: Pace-CON

Client Name: Pr[illegible]

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #: 7714 9718 8967

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☐ No ☑ N/A

Temperature Blank Present: ☐ Yes ☑ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☒ None ☐ Other

Type of Ice: Wet Blue None

Thermometer Used: TH091 #6149 Correction Factor: +1.1

☐ Samples on ice, cooling process has begun

Cooler Temperature(°C): 2.2 Cooler Temperature Corrected(°C): 2.3

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☒ N/A, water sample) Date and Initials of person examining contents: V.W 3/9/23

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ No

Did samples originate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☑ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present:	☑ Yes	☐ No		1.
Chain of Custody Filled Out:	☑ Yes	☐ No		2.
Chain of Custody Relinquished:	☑ Yes	☐ No		3.
Sampler Name & Signature on COC:	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☐ Yes	☑ No		6.
Rush Turn Around Time Requested:	☐ Yes	☑ No		7.
Sufficient Volume: (Triple volume provided for I	☑ Yes	☐ No		8.
Correct Containers Used:	☑ Yes	☐ No		9.
-Pace Containers Used:	☑ Yes	☐ No		
Containers Intact:	☑ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☑ Yes	☐ No		12.
-Includes date/time/ID/Matrix: SL WT OIL				
All containers needing preservation have been checked?	☑ Yes	☐ No	☐ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot # HC743085				Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☑ Yes	☐ No	☐ N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☑ Yes	☐ No	☐ N/A	14.
KI starch test strips Lot #. 14-860				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulfide?	☑ Yes	☐ No	☐ N/A	15.
Lead Acetate Strips Lot # 14-862				Positive for Sulfide? Y (N)
Headspace in VOA Vials (>6mm):	☐ Yes	☐ No	☐ N/A	16.
Trip Blank Present:	☐ Yes	☐ No	☐ N/A	17.
Trip Blank Custody Seals Present	☐ Yes	☐ No	☐ N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

ENV-FRM-MELV-0024 01

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

April 3, 2023

Payson Long
NYDEC_Ramboll US Consulting, Inc. - Syracuse
333 West Washington Street, PO Box 4873
Syracuse, NY 13221

Project Location: Old Bethpage, NY
Client Job Number:
Project Number: 130015
Laboratory Work Order Number: 23C0653

Enclosed are results of analyses for samples as received by the laboratory on March 6, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kyle A. Murray
Project Manager

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B334871 22

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B333569 27

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

NYDEC_Ramboll US Consulting, Inc. - Syracuse
333 West Washington Street, PO Box 4873
Syracuse, NY 13221
ATTN: Payson Long

REPORT DATE: 4/3/2023

PURCHASE ORDER NUMBER: 144165

PROJECT NUMBER: 130015

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23C0653

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Old Bethpage, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
ASF-CP-00-030323	23C0653-01	Ground Water		Draft Method 1633	
ASF-CP-01-030323	23C0653-02	Ground Water		Draft Method 1633	
PD-CP-00-030323	23C0653-03	Ground Water		Draft Method 1633	
PD-CP-01-030323	23C0653-04	Ground Water		Draft Method 1633	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Draft Method 1633

Qualifications:

B-07

Data is not affected by elevated level in laboratory blank since sample result is >10x level found in the blank.

Analyte & Samples(s) Qualified:

Perfluorobutanoic acid (PFBA)
23C0653-01[ASF-CP-00-030323], 23C0653-02[ASF-CP-01-030323], 23C0653-03[PD-CP-00-030323], 23C0653-04[PD-CP-01-030323]

PF-18

Duplicate analysis confirmed Extracted Internal Standard failure due to matrix effects.

Analyte & Samples(s) Qualified:

13C2-4:2FTS
23C0653-04[PD-CP-01-030323]

1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FT
23C0653-04[PD-CP-01-030323]

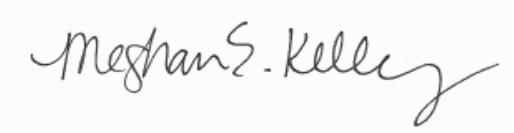
Z-01

Detection in method blank >1/3 MRL

Analyte & Samples(s) Qualified:

Perfluorobutanoic acid (PFBA)
B333636-BLK1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Reporting Specialist

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0653

Date Received: 3/6/2023

Field Sample #: ASF-CP-00-030323 | Sampled: 3/2/2023 10:00

Sample ID: 23C0653-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	39	3.9	ng/L	1	B-07	Draft Method 1633	3/10/23	3/24/23 23:44	BLM
Perfluoropentanoic acid (PFPeA)	22	2.0	ng/L	1		Draft Method 1633	3/10/23	3/24/23 23:44	BLM
Perfluorohexanoic acid (PFHxA)	33	0.98	ng/L	1		Draft Method 1633	3/10/23	3/24/23 23:44	BLM
Perfluoroheptanoic acid (PFHpA)	14	0.98	ng/L	1		Draft Method 1633	3/10/23	3/24/23 23:44	BLM
Perfluorooctanoic acid (PFOA)	47	0.98	ng/L	1		Draft Method 1633	3/10/23	3/24/23 23:44	BLM
Perfluorononanoic acid (PFNA)	10	0.98	ng/L	1		Draft Method 1633	3/10/23	3/24/23 23:44	BLM
Perfluorodecanoic acid (PFDA)	ND	0.98	ng/L	1		Draft Method 1633	3/10/23	3/24/23 23:44	BLM
Perfluoroundecanoic acid (PFUnA)	ND	0.98	ng/L	1		Draft Method 1633	3/10/23	3/24/23 23:44	BLM
Perfluorododecanoic acid (PFDoA)	ND	0.98	ng/L	1		Draft Method 1633	3/10/23	3/24/23 23:44	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	0.98	ng/L	1		Draft Method 1633	3/10/23	3/24/23 23:44	BLM
Perfluorotetradecanoic acid (PFTeDA)	ND	0.98	ng/L	1		Draft Method 1633	3/10/23	3/24/23 23:44	BLM
Perfluorobutanesulfonic acid (PFBS)	6.2	0.98	ng/L	1		Draft Method 1633	3/10/23	3/24/23 23:44	BLM
Perfluoropetanesulfonic acid (PFPeS)	4.0	0.98	ng/L	1		Draft Method 1633	3/10/23	3/24/23 23:44	BLM
Perfluorohexanesulfonic acid (PFHxS)	9.8	0.98	ng/L	1		Draft Method 1633	3/10/23	3/24/23 23:44	BLM
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.98	ng/L	1		Draft Method 1633	3/10/23	3/24/23 23:44	BLM
Perfluorooctanesulfonic acid (PFOS)	16	0.98	ng/L	1		Draft Method 1633	3/10/23	3/24/23 23:44	BLM
Perfluorononanesulfonic acid (PFNS)	ND	0.98	ng/L	1		Draft Method 1633	3/10/23	3/24/23 23:44	BLM
Perfluorodecanesulfonic acid (PFDS)	ND	0.98	ng/L	1		Draft Method 1633	3/10/23	3/24/23 23:44	BLM
Perfluorododecanesulfonic acid (PFDoS)	ND	0.98	ng/L	1		Draft Method 1633	3/10/23	3/24/23 23:44	BLM
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.9	ng/L	1		Draft Method 1633	3/10/23	3/24/23 23:44	BLM
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.9	ng/L	1		Draft Method 1633	3/10/23	3/24/23 23:44	BLM
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.9	ng/L	1		Draft Method 1633	3/10/23	3/24/23 23:44	BLM
Perfluorooctanesulfonamide (PFOSA)	ND	0.98	ng/L	1		Draft Method 1633	3/10/23	3/24/23 23:44	BLM
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.98	ng/L	1		Draft Method 1633	3/10/23	3/24/23 23:44	BLM
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.98	ng/L	1		Draft Method 1633	3/10/23	3/24/23 23:44	BLM
N-MeFOSAA (NMeFOSAA)	ND	0.98	ng/L	1		Draft Method 1633	3/10/23	3/24/23 23:44	BLM
N-EtFOSAA (NEtFOSAA)	4.2	0.98	ng/L	1		Draft Method 1633	3/10/23	3/24/23 23:44	BLM
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	9.8	ng/L	1		Draft Method 1633	3/10/23	3/24/23 23:44	BLM
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.8	ng/L	1		Draft Method 1633	3/10/23	3/24/23 23:44	BLM
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.9	ng/L	1		Draft Method 1633	3/10/23	3/24/23 23:44	BLM
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.9	ng/L	1		Draft Method 1633	3/10/23	3/24/23 23:44	BLM
9Cl-PF3ONS (F53B Minor)	ND	3.9	ng/L	1		Draft Method 1633	3/10/23	3/24/23 23:44	BLM
11Cl-PF3OUdS (F53B Major)	ND	3.9	ng/L	1		Draft Method 1633	3/10/23	3/24/23 23:44	BLM
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.8	ng/L	1		Draft Method 1633	3/10/23	3/24/23 23:44	BLM
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	49	ng/L	1		Draft Method 1633	3/10/23	3/24/23 23:44	BLM
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	49	ng/L	1		Draft Method 1633	3/10/23	3/24/23 23:44	BLM
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0	ng/L	1		Draft Method 1633	3/10/23	3/24/23 23:44	BLM
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.0	ng/L	1		Draft Method 1633	3/10/23	3/24/23 23:44	BLM

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0653

Date Received: 3/6/2023

Field Sample #: ASF-CP-00-030323 | Sampled: 3/2/2023 10:00

Sample ID: 23C0653-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.0	ng/L	1		Draft Method 1633	3/10/23	3/24/23 23:44	BLM
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	ng/L	1		Draft Method 1633	3/10/23	3/24/23 23:44	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	71.5	20-150		3/24/23 23:44
13C5-PFPeA	66.9	20-150		3/24/23 23:44
13C5-PFHxA	69.3	20-150		3/24/23 23:44
13C4-PFHpA	69.9	20-150		3/24/23 23:44
13C8-PFOA	67.3	20-150		3/24/23 23:44
13C9-PFNA	65.7	20-150		3/24/23 23:44
13C6-PFDA	64.4	20-150		3/24/23 23:44
13C7-PFUnA	59.8	20-150		3/24/23 23:44
13C2-PFDoA	50.6	20-150		3/24/23 23:44
13C2-PFTeDA	43.1	20-150		3/24/23 23:44
13C3-PFBS	64.3	20-150		3/24/23 23:44
13C3-PFHxS	66.9	20-150		3/24/23 23:44
13C8-PFOS	62.0	20-150		3/24/23 23:44
13C2-4:2FTS	124	20-150		3/24/23 23:44
13C2-6:2FTS	79.4	20-150		3/24/23 23:44
13C2-8:2FTS	58.2	20-150		3/24/23 23:44
13C8-PFOSA	57.6	20-150		3/24/23 23:44
D3-NMeFOSA	42.8	20-150		3/24/23 23:44
D5-NEtFOSA	39.8	20-150		3/24/23 23:44
D3-NMeFOSAA	51.3	20-150		3/24/23 23:44
D5-NEtFOSAA	48.3	20-150		3/24/23 23:44
D7-NMeFOSE	35.3	20-150		3/24/23 23:44
D9-NEtFOSE	27.9	20-150		3/24/23 23:44
13C3-HFPO-DA	72.8	20-150		3/24/23 23:44

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0653

Date Received: 3/6/2023

Field Sample #: ASF-CP-00-030323 | Sampled: 3/2/2023 10:00

Sample ID: 23C0653-01

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1		Draft Method 1633	3/8/23	3/8/23 13:02	LL

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0653

Date Received: 3/6/2023

Field Sample #: ASF-CP-01-030323 | Sampled: 3/2/2023 10:00

Sample ID: 23C0653-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	40	3.9	ng/L	1	B-07	Draft Method 1633	3/10/23	3/25/23 0:31	BLM
Perfluoropentanoic acid (PFPeA)	23	2.0	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:31	BLM
Perfluorohexanoic acid (PFHxA)	34	0.98	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:31	BLM
Perfluoroheptanoic acid (PFHpA)	15	0.98	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:31	BLM
Perfluorooctanoic acid (PFOA)	47	0.98	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:31	BLM
Perfluorononanoic acid (PFNA)	10	0.98	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:31	BLM
Perfluorodecanoic acid (PFDA)	ND	0.98	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:31	BLM
Perfluoroundecanoic acid (PFUnA)	ND	0.98	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:31	BLM
Perfluorododecanoic acid (PFDoA)	ND	0.98	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:31	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	0.98	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:31	BLM
Perfluorotetradecanoic acid (PFTeDA)	ND	0.98	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:31	BLM
Perfluorobutanesulfonic acid (PFBS)	5.8	0.98	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:31	BLM
Perfluoropetanesulfonic acid (PFPeS)	4.5	0.98	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:31	BLM
Perfluorohexanesulfonic acid (PFHxS)	10	0.98	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:31	BLM
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.98	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:31	BLM
Perfluorooctanesulfonic acid (PFOS)	16	0.98	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:31	BLM
Perfluorononanesulfonic acid (PFNS)	ND	0.98	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:31	BLM
Perfluorodecanesulfonic acid (PFDS)	ND	0.98	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:31	BLM
Perfluorododecanesulfonic acid (PFDoS)	ND	0.98	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:31	BLM
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.9	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:31	BLM
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.9	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:31	BLM
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.9	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:31	BLM
Perfluorooctanesulfonamide (PFOSA)	ND	0.98	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:31	BLM
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.98	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:31	BLM
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.98	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:31	BLM
N-MeFOSAA (NMeFOSAA)	ND	0.98	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:31	BLM
N-EtFOSAA (NEtFOSAA)	3.9	0.98	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:31	BLM
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	9.8	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:31	BLM
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.8	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:31	BLM
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.9	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:31	BLM
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.9	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:31	BLM
9Cl-PF3ONS (F53B Minor)	ND	3.9	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:31	BLM
11Cl-PF3OUdS (F53B Major)	ND	3.9	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:31	BLM
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.8	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:31	BLM
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	49	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:31	BLM
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	49	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:31	BLM
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:31	BLM
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.0	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:31	BLM

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0653

Date Received: 3/6/2023

Field Sample #: ASF-CP-01-030323 | Sampled: 3/2/2023 10:00

Sample ID: 23C0653-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.0	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:31	BLM
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:31	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	79.5	20-150		3/25/23 0:31
13C5-PFPeA	74.1	20-150		3/25/23 0:31
13C5-PFHxA	79.5	20-150		3/25/23 0:31
13C4-PFHpA	80.0	20-150		3/25/23 0:31
13C8-PFOA	79.5	20-150		3/25/23 0:31
13C9-PFNA	78.5	20-150		3/25/23 0:31
13C6-PFDA	77.5	20-150		3/25/23 0:31
13C7-PFUnA	73.9	20-150		3/25/23 0:31
13C2-PFDoA	66.7	20-150		3/25/23 0:31
13C2-PFTeDA	63.8	20-150		3/25/23 0:31
13C3-PFBS	79.1	20-150		3/25/23 0:31
13C3-PFHxS	80.3	20-150		3/25/23 0:31
13C8-PFOS	77.5	20-150		3/25/23 0:31
13C2-4:2FTS	145	20-150		3/25/23 0:31
13C2-6:2FTS	103	20-150		3/25/23 0:31
13C2-8:2FTS	77.8	20-150		3/25/23 0:31
13C8-PFOSA	69.5	20-150		3/25/23 0:31
D3-NMeFOSA	58.0	20-150		3/25/23 0:31
D5-NEtFOSA	57.3	20-150		3/25/23 0:31
D3-NMeFOSAA	65.1	20-150		3/25/23 0:31
D5-NEtFOSAA	68.0	20-150		3/25/23 0:31
D7-NMeFOSE	62.8	20-150		3/25/23 0:31
D9-NEtFOSE	58.4	20-150		3/25/23 0:31
13C3-HFPO-DA	76.2	20-150		3/25/23 0:31

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0653

Date Received: 3/6/2023

Field Sample #: ASF-CP-01-030323 | Sampled: 3/2/2023 10:00

Sample ID: 23C0653-02

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1		Draft Method 1633	3/8/23	3/8/23 13:02	LL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0653

Date Received: 3/6/2023

Field Sample #: PD-CP-00-030323 | Sampled: 3/2/2023 11:30

Sample ID: 23C0653-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	41	3.8	ng/L	1	B-07	Draft Method 1633	3/10/23	3/25/23 0:46	BLM
Perfluoropentanoic acid (PFPeA)	23	1.9	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:46	BLM
Perfluorohexanoic acid (PFHxA)	36	0.96	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:46	BLM
Perfluoroheptanoic acid (PFHpA)	15	0.96	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:46	BLM
Perfluorooctanoic acid (PFOA)	47	0.96	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:46	BLM
Perfluorononanoic acid (PFNA)	10	0.96	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:46	BLM
Perfluorodecanoic acid (PFDA)	ND	0.96	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:46	BLM
Perfluoroundecanoic acid (PFUnA)	ND	0.96	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:46	BLM
Perfluorododecanoic acid (PFDoA)	ND	0.96	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:46	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	0.96	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:46	BLM
Perfluorotetradecanoic acid (PFTeDA)	ND	0.96	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:46	BLM
Perfluorobutanesulfonic acid (PFBS)	6.1	0.96	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:46	BLM
Perfluoropetanesulfonic acid (PFPeS)	4.4	0.96	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:46	BLM
Perfluorohexanesulfonic acid (PFHxS)	10	0.96	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:46	BLM
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.96	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:46	BLM
Perfluorooctanesulfonic acid (PFOS)	17	0.96	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:46	BLM
Perfluorononanesulfonic acid (PFNS)	ND	0.96	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:46	BLM
Perfluorodecanesulfonic acid (PFDS)	ND	0.96	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:46	BLM
Perfluorododecanesulfonic acid (PFDoS)	ND	0.96	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:46	BLM
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.8	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:46	BLM
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.8	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:46	BLM
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.8	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:46	BLM
Perfluorooctanesulfonamide (PFOSA)	ND	0.96	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:46	BLM
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.96	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:46	BLM
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.96	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:46	BLM
N-MeFOSAA (NMeFOSAA)	ND	0.96	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:46	BLM
N-EtFOSAA (NEtFOSAA)	4.5	0.96	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:46	BLM
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	9.6	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:46	BLM
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.6	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:46	BLM
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.8	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:46	BLM
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.8	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:46	BLM
9Cl-PF3ONS (F53B Minor)	ND	3.8	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:46	BLM
11Cl-PF3OUdS (F53B Major)	ND	3.8	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:46	BLM
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.6	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:46	BLM
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	48	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:46	BLM
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	48	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:46	BLM
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:46	BLM
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.9	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:46	BLM

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0653

Date Received: 3/6/2023

Field Sample #: PD-CP-00-030323 | Sampled: 3/2/2023 11:30

Sample ID: 23C0653-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.9	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:46	BLM
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	ng/L	1		Draft Method 1633	3/10/23	3/25/23 0:46	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	70.5	20-150		3/25/23 0:46
13C5-PFPeA	66.3	20-150		3/25/23 0:46
13C5-PFHxA	71.4	20-150		3/25/23 0:46
13C4-PFHpA	71.1	20-150		3/25/23 0:46
13C8-PFOA	68.7	20-150		3/25/23 0:46
13C9-PFNA	71.1	20-150		3/25/23 0:46
13C6-PFDA	69.6	20-150		3/25/23 0:46
13C7-PFUnA	68.3	20-150		3/25/23 0:46
13C2-PFDoA	62.1	20-150		3/25/23 0:46
13C2-PFTeDA	59.3	20-150		3/25/23 0:46
13C3-PFBS	68.1	20-150		3/25/23 0:46
13C3-PFHxS	68.2	20-150		3/25/23 0:46
13C8-PFOS	66.3	20-150		3/25/23 0:46
13C2-4:2FTS	129	20-150		3/25/23 0:46
13C2-6:2FTS	91.1	20-150		3/25/23 0:46
13C2-8:2FTS	67.7	20-150		3/25/23 0:46
13C8-PFOSA	70.5	20-150		3/25/23 0:46
D3-NMeFOSA	49.9	20-150		3/25/23 0:46
D5-NEtFOSA	51.1	20-150		3/25/23 0:46
D3-NMeFOSAA	59.2	20-150		3/25/23 0:46
D5-NEtFOSAA	61.3	20-150		3/25/23 0:46
D7-NMeFOSE	55.4	20-150		3/25/23 0:46
D9-NEtFOSE	52.7	20-150		3/25/23 0:46
13C3-HFPO-DA	67.3	20-150		3/25/23 0:46

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0653

Date Received: 3/6/2023

Field Sample #: PD-CP-00-030323 | Sampled: 3/2/2023 11:30

Sample ID: 23C0653-03

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1		Draft Method 1633	3/8/23	3/8/23 13:02	LL

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0653

Date Received: 3/6/2023

Field Sample #: PD-CP-01-030323 | Sampled: 3/2/2023 11:30

Sample ID: 23C0653-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	41	3.6	ng/L	1	B-07	Draft Method 1633	3/10/23	3/25/23 1:02	BLM
Perfluoropentanoic acid (PFPeA)	23	1.8	ng/L	1		Draft Method 1633	3/10/23	3/25/23 1:02	BLM
Perfluorohexanoic acid (PFHxA)	35	0.90	ng/L	1		Draft Method 1633	3/10/23	3/25/23 1:02	BLM
Perfluoroheptanoic acid (PFHpA)	15	0.90	ng/L	1		Draft Method 1633	3/10/23	3/25/23 1:02	BLM
Perfluorooctanoic acid (PFOA)	47	0.90	ng/L	1		Draft Method 1633	3/10/23	3/25/23 1:02	BLM
Perfluorononanoic acid (PFNA)	10	0.90	ng/L	1		Draft Method 1633	3/10/23	3/25/23 1:02	BLM
Perfluorodecanoic acid (PFDA)	ND	0.90	ng/L	1		Draft Method 1633	3/10/23	3/25/23 1:02	BLM
Perfluoroundecanoic acid (PFUnA)	ND	0.90	ng/L	1		Draft Method 1633	3/10/23	3/25/23 1:02	BLM
Perfluorododecanoic acid (PFDoA)	ND	0.90	ng/L	1		Draft Method 1633	3/10/23	3/25/23 1:02	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	0.90	ng/L	1		Draft Method 1633	3/10/23	3/25/23 1:02	BLM
Perfluorotetradecanoic acid (PFTeDA)	ND	0.90	ng/L	1		Draft Method 1633	3/10/23	3/25/23 1:02	BLM
Perfluorobutanesulfonic acid (PFBS)	5.9	0.90	ng/L	1		Draft Method 1633	3/10/23	3/25/23 1:02	BLM
Perfluoropetanesulfonic acid (PFPeS)	4.1	0.90	ng/L	1		Draft Method 1633	3/10/23	3/25/23 1:02	BLM
Perfluorohexanesulfonic acid (PFHxS)	9.9	0.90	ng/L	1		Draft Method 1633	3/10/23	3/25/23 1:02	BLM
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.90	ng/L	1		Draft Method 1633	3/10/23	3/25/23 1:02	BLM
Perfluorooctanesulfonic acid (PFOS)	16	0.90	ng/L	1		Draft Method 1633	3/10/23	3/25/23 1:02	BLM
Perfluorononanesulfonic acid (PFNS)	ND	0.90	ng/L	1		Draft Method 1633	3/10/23	3/25/23 1:02	BLM
Perfluorodecanesulfonic acid (PFDS)	ND	0.90	ng/L	1		Draft Method 1633	3/10/23	3/25/23 1:02	BLM
Perfluorododecanesulfonic acid (PFDoS)	ND	0.90	ng/L	1		Draft Method 1633	3/10/23	3/25/23 1:02	BLM
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.6	ng/L	1	PF-18	Draft Method 1633	3/10/23	3/25/23 1:02	BLM
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.6	ng/L	1		Draft Method 1633	3/10/23	3/25/23 1:02	BLM
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.6	ng/L	1		Draft Method 1633	3/10/23	3/25/23 1:02	BLM
Perfluorooctanesulfonamide (PFOSA)	ND	0.90	ng/L	1		Draft Method 1633	3/10/23	3/25/23 1:02	BLM
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.90	ng/L	1		Draft Method 1633	3/10/23	3/25/23 1:02	BLM
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.90	ng/L	1		Draft Method 1633	3/10/23	3/25/23 1:02	BLM
N-MeFOSAA (NMeFOSAA)	ND	0.90	ng/L	1		Draft Method 1633	3/10/23	3/25/23 1:02	BLM
N-EtFOSAA (NEtFOSAA)	4.7	0.90	ng/L	1		Draft Method 1633	3/10/23	3/25/23 1:02	BLM
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	9.0	ng/L	1		Draft Method 1633	3/10/23	3/25/23 1:02	BLM
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.0	ng/L	1		Draft Method 1633	3/10/23	3/25/23 1:02	BLM
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.6	ng/L	1		Draft Method 1633	3/10/23	3/25/23 1:02	BLM
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.6	ng/L	1		Draft Method 1633	3/10/23	3/25/23 1:02	BLM
9Cl-PF3ONS (F53B Minor)	ND	3.6	ng/L	1		Draft Method 1633	3/10/23	3/25/23 1:02	BLM
11Cl-PF3OUdS (F53B Major)	ND	3.6	ng/L	1		Draft Method 1633	3/10/23	3/25/23 1:02	BLM
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.0	ng/L	1		Draft Method 1633	3/10/23	3/25/23 1:02	BLM
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	45	ng/L	1		Draft Method 1633	3/10/23	3/25/23 1:02	BLM
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	45	ng/L	1		Draft Method 1633	3/10/23	3/25/23 1:02	BLM
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	ng/L	1		Draft Method 1633	3/10/23	3/25/23 1:02	BLM
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	ng/L	1		Draft Method 1633	3/10/23	3/25/23 1:02	BLM

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0653

Date Received: 3/6/2023

Field Sample #: PD-CP-01-030323 | Sampled: 3/2/2023 11:30

Sample ID: 23C0653-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.8	ng/L	1		Draft Method 1633	3/10/23	3/25/23 1:02	BLM
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	ng/L	1		Draft Method 1633	3/10/23	3/25/23 1:02	BLM

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
13C4-PFBA	66.7		20-150		3/25/23 1:02
13C5-PFPeA	69.7		20-150		3/25/23 1:02
13C5-PFHxA	78.2		20-150		3/25/23 1:02
13C4-PFHpA	79.0		20-150		3/25/23 1:02
13C8-PFOA	78.4		20-150		3/25/23 1:02
13C9-PFNA	78.1		20-150		3/25/23 1:02
13C6-PFDA	74.0		20-150		3/25/23 1:02
13C7-PFUnA	71.7		20-150		3/25/23 1:02
13C2-PFDoA	63.3		20-150		3/25/23 1:02
13C2-PFTeDA	59.1		20-150		3/25/23 1:02
13C3-PFBS	77.2		20-150		3/25/23 1:02
13C3-PFHxS	80.5		20-150		3/25/23 1:02
13C8-PFOS	78.0		20-150		3/25/23 1:02
13C2-4:2FTS	**151**	*	20-150	PF-18	3/25/23 1:02
13C2-6:2FTS	111		20-150		3/25/23 1:02
13C2-8:2FTS	81.4		20-150		3/25/23 1:02
13C8-PFOSA	77.9		20-150		3/25/23 1:02
D3-NMeFOSA	56.6		20-150		3/25/23 1:02
D5-NEtFOSA	54.3		20-150		3/25/23 1:02
D3-NMeFOSAA	68.7		20-150		3/25/23 1:02
D5-NEtFOSAA	69.7		20-150		3/25/23 1:02
D7-NMeFOSE	60.8		20-150		3/25/23 1:02
D9-NEtFOSE	56.7		20-150		3/25/23 1:02
13C3-HFPO-DA	72.8		20-150		3/25/23 1:02

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Old Bethpage, NY | Sample Description: | Work Order: 23C0653

Date Received: 3/6/2023

Field Sample #: PD-CP-01-030323 | Sampled: 3/2/2023 11:30

Sample ID: 23C0653-04

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1		Draft Method 1633	3/8/23	3/8/23 13:02	LL

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Sample Extraction Data

Draft Method 1633

Lab Number [Field ID]	Batch	Initial [mL]	Date
23C0653-01 [ASF-CP-00-030323]	B333569	50.0	03/08/23
23C0653-02 [ASF-CP-01-030323]	B333569	50.0	03/08/23
23C0653-03 [PD-CP-00-030323]	B333569	50.0	03/08/23
23C0653-04 [PD-CP-01-030323]	B333569	50.0	03/08/23

Prep Method: Draft Method 1633 Analytical Method: Draft Method 1633 Method were extracted on 3/8/2023 per NO PREP in Batch B333569

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23C0653-01 [ASF-CP-00-030323]	B333636	512	5.00	03/10/23
23C0653-02 [ASF-CP-01-030323]	B333636	510	5.00	03/10/23
23C0653-03 [PD-CP-00-030323]	B333636	521	5.00	03/10/23
23C0653-04 [PD-CP-01-030323]	B333636	553	5.00	03/10/23

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B333636 - Draft Method 1633										
Blank (B333636-BLK1)				Prepared: 03/10/23 Analyzed: 03/24/23						
Perfluorobutanoic acid (PFBA)	ND	4.1	ng/L							Z-01
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.0	ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.0	ng/L							
Perfluorononanoic acid (PFNA)	ND	1.0	ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.0	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	1.0	ng/L							
Perfluorotetradecanoic acid (PFTeDA)	ND	1.0	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.0	ng/L							
Perfluoropetanesulfonic acid (PFPeS)	ND	1.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.0	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.0	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.0	ng/L							
Perfluorononanesulfonic acid (PFNS)	ND	1.0	ng/L							
Perfluorodecanesulfonic acid (PFDS)	ND	1.0	ng/L							
Perfluorododecanesulfonic acid (PFDoS)	ND	1.0	ng/L							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	4.1	ng/L							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	4.1	ng/L							
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	4.1	ng/L							
Perfluorooctanesulfonamide (PFOSA)	ND	1.0	ng/L							
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.0	ng/L							
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.0	ng/L							
N-MeFOSAA (NMeFOSAA)	ND	1.0	ng/L							
N-EtFOSAA (NEtFOSAA)	ND	1.0	ng/L							
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	10	ng/L							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	10	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	4.1	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	4.1	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	4.1	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	4.1	ng/L							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	10	ng/L							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	51	ng/L							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	51	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0	ng/L							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.0	ng/L							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.0	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	ng/L							
Surrogate: 13C4-PFBA	*81.4*		ng/L	102		79.7	20-150			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B333636 - Draft Method 1633										
Blank (B333636-BLK1)				Prepared: 03/10/23 Analyzed: 03/24/23						
Surrogate: 13C5-PFPeA	*43.2*		ng/L	51.1		84.6	20-150			
Surrogate: 13C5-PFHxA	*21.3*		ng/L	25.5		83.2	20-150			
Surrogate: 13C4-PFHpA	*22.0*		ng/L	25.5		86.2	20-150			
Surrogate: 13C8-PFOA	*20.7*		ng/L	25.5		81.2	20-150			
Surrogate: 13C9-PFNA	*10.8*		ng/L	12.8		84.5	20-150			
Surrogate: 13C6-PFDA	*10.5*		ng/L	12.8		82.3	20-150			
Surrogate: 13C7-PFUnA	*10.2*		ng/L	12.8		79.8	20-150			
Surrogate: 13C2-PFDoA	*9.41*		ng/L	12.8		73.7	20-150			
Surrogate: 13C2-PFTeDA	*10.4*		ng/L	12.8		81.8	20-150			
Surrogate: 13C3-PFBS	*21.2*		ng/L	25.5		83.1	20-150			
Surrogate: 13C3-PFHxS	*21.0*		ng/L	25.5		82.4	20-150			
Surrogate: 13C8-PFOS	*21.5*		ng/L	25.5		84.1	20-150			
Surrogate: 13C2-4:2FTS	*44.1*		ng/L	51.1		86.3	20-150			
Surrogate: 13C2-6:2FTS	*38.3*		ng/L	51.1		75.0	20-150			
Surrogate: 13C2-8:2FTS	*36.5*		ng/L	51.1		71.6	20-150			
Surrogate: 13C8-PFOSA	*22.0*		ng/L	25.5		86.1	20-150			
Surrogate: D3-NMeFOSA	*17.4*		ng/L	25.5		68.0	20-150			
Surrogate: D5-NEtFOSA	*17.8*		ng/L	25.5		69.7	20-150			
Surrogate: D3-NMeFOSAA	*37.2*		ng/L	51.1		72.9	20-150			
Surrogate: D5-NEtFOSAA	*38.5*		ng/L	51.1		75.3	20-150			
Surrogate: D7-NMeFOSE	*222*		ng/L	255		87.1	20-150			
Surrogate: D9-NEtFOSE	*212*		ng/L	255		83.0	20-150			
Surrogate: 13C3-HFPO-DA	*91.4*		ng/L	102		89.5	20-150			
LCS (B333636-BS1)				Prepared: 03/10/23 Analyzed: 03/24/23						
Perfluorobutanoic acid (PFBA)	9.27	3.9	ng/L	7.82		119	40-150			
Perfluoropentanoic acid (PFPeA)	4.11	2.0	ng/L	3.91		105	40-150			
Perfluorohexanoic acid (PFHxA)	2.15	0.98	ng/L	1.96		110	40-150			
Perfluoroheptanoic acid (PFHpA)	2.03	0.98	ng/L	1.96		104	40-150			
Perfluorooctanoic acid (PFOA)	2.01	0.98	ng/L	1.96		103	40-150			
Perfluorononanoic acid (PFNA)	1.90	0.98	ng/L	1.96		97.2	40-150			
Perfluorodecanoic acid (PFDA)	1.96	0.98	ng/L	1.96		100	40-150			
Perfluoroundecanoic acid (PFUnA)	1.84	0.98	ng/L	1.96		94.2	40-150			
Perfluorododecanoic acid (PFDoA)	2.05	0.98	ng/L	1.96		105	40-150			
Perfluorotridecanoic acid (PFTrDA)	1.81	0.98	ng/L	1.96		92.7	40-150			
Perfluorotetradecanoic acid (PFTeDA)	2.03	0.98	ng/L	1.96		104	40-150			
Perfluorobutanesulfonic acid (PFBS)	1.86	0.98	ng/L	1.74		107	40-150			
Perfluoropetanesulfonic acid (PFPeS)	1.91	0.98	ng/L	1.84		104	40-150			
Perfluorohexanesulfonic acid (PFHxS)	1.83	0.98	ng/L	1.79		102	40-150			
Perfluoroheptanesulfonic acid (PFHpS)	1.80	0.98	ng/L	1.86		96.6	40-150			
Perfluorooctanesulfonic acid (PFOS)	1.99	0.98	ng/L	1.81		109	40-150			
Perfluorononanesulfonic acid (PFNS)	2.08	0.98	ng/L	1.88		110	40-150			
Perfluorodecanesulfonic acid (PFDS)	1.87	0.98	ng/L	1.89		99.3	40-150			
Perfluorododecanesulfonic acid (PFDoS)	1.97	0.98	ng/L	1.90		104	40-150			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	8.58	3.9	ng/L	7.34		117	40-150			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	8.47	3.9	ng/L	7.43		114	40-150			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	8.51	3.9	ng/L	7.53		113	40-150			
Perfluorooctanesulfonamide (PFOSA)	1.92	0.98	ng/L	1.96		98.1	40-150			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	1.91	0.98	ng/L	1.96		97.5	40-150			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B333636 - Draft Method 1633										
LCS (B333636-BS1)				Prepared: 03/10/23 Analyzed: 03/24/23						
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	2.05	0.98	ng/L	1.96		105	40-150			
N-MeFOSAA (NMeFOSAA)	2.20	0.98	ng/L	1.96		112	40-150			
N-EtFOSAA (NEtFOSAA)	2.49	0.98	ng/L	1.96		127	40-150			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	20.8	9.8	ng/L	19.6		106	40-150			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	20.7	9.8	ng/L	19.6		106	40-150			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	7.49	3.9	ng/L	7.82		95.8	40-150			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.04	3.9	ng/L	7.38		95.3	40-150			
9Cl-PF3ONS (F53B Minor)	6.89	3.9	ng/L	7.34		94.0	40-150			
11Cl-PF3OUdS (F53B Major)	6.82	3.9	ng/L	7.38		92.4	40-150			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	18.1	9.8	ng/L	19.6		92.3	40-150			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	99.0	49	ng/L	97.8		101	40-150			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	95.4	49	ng/L	97.8		97.6	40-150			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	3.31	2.0	ng/L	3.48		95.0	40-150			
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.65	2.0	ng/L	3.91		93.3	40-150			
Perfluoro-4-methoxybutanoic acid (PFMBA)	3.51	2.0	ng/L	3.91		89.7	40-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.77	2.0	ng/L	3.91		96.2	40-150			
Surrogate: 13C4-PFBA	*75.3*		ng/L	97.8		77.0	20-150			
Surrogate: 13C5-PFPeA	*40.4*		ng/L	48.9		82.7	20-150			
Surrogate: 13C5-PFHxA	*19.7*		ng/L	24.5		80.5	20-150			
Surrogate: 13C4-PFHpA	*20.0*		ng/L	24.5		81.8	20-150			
Surrogate: 13C8-PFOA	*20.2*		ng/L	24.5		82.6	20-150			
Surrogate: 13C9-PFNA	*9.98*		ng/L	12.2		81.6	20-150			
Surrogate: 13C6-PFDA	*9.64*		ng/L	12.2		78.8	20-150			
Surrogate: 13C7-PFUnA	*9.51*		ng/L	12.2		77.8	20-150			
Surrogate: 13C2-PFDoA	*8.89*		ng/L	12.2		72.7	20-150			
Surrogate: 13C2-PFTeDA	*9.98*		ng/L	12.2		81.6	20-150			
Surrogate: 13C3-PFBS	*19.5*		ng/L	24.5		79.7	20-150			
Surrogate: 13C3-PFHxS	*19.4*		ng/L	24.5		79.2	20-150			
Surrogate: 13C8-PFOS	*19.1*		ng/L	24.5		78.3	20-150			
Surrogate: 13C2-4:2FTS	*42.9*		ng/L	48.9		87.8	20-150			
Surrogate: 13C2-6:2FTS	*35.8*		ng/L	48.9		73.2	20-150			
Surrogate: 13C2-8:2FTS	*34.0*		ng/L	48.9		69.6	20-150			
Surrogate: 13C8-PFOSA	*20.0*		ng/L	24.5		81.8	20-150			
Surrogate: D3-NMeFOSA	*14.4*		ng/L	24.5		58.8	20-150			
Surrogate: D5-NEtFOSA	*14.9*		ng/L	24.5		60.9	20-150			
Surrogate: D3-NMeFOSAA	*34.5*		ng/L	48.9		70.6	20-150			
Surrogate: D5-NEtFOSAA	*34.7*		ng/L	48.9		71.0	20-150			
Surrogate: D7-NMeFOSE	*193*		ng/L	245		78.9	20-150			
Surrogate: D9-NEtFOSE	*183*		ng/L	245		74.9	20-150			
Surrogate: 13C3-HFPO-DA	*84.1*		ng/L	97.8		86.0	20-150			
LCS (B333636-BS2)				Prepared: 03/10/23 Analyzed: 03/24/23						
Perfluorobutanoic acid (PFBA)	105	4.1	ng/L	98.1		107	40-150			
Perfluoropentanoic acid (PFPeA)	51.2	2.0	ng/L	49.1		104	40-150			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B333636 - Draft Method 1633										
LCS (B333636-BS2)				Prepared: 03/10/23 Analyzed: 03/24/23						
Perfluorohexanoic acid (PFHxA)	25.4	1.0	ng/L	24.5		104	40-150			
Perfluoroheptanoic acid (PFHpA)	26.1	1.0	ng/L	24.5		107	40-150			
Perfluorooctanoic acid (PFOA)	25.4	1.0	ng/L	24.5		104	40-150			
Perfluorononanoic acid (PFNA)	25.4	1.0	ng/L	24.5		103	40-150			
Perfluorodecanoic acid (PFDA)	26.1	1.0	ng/L	24.5		106	40-150			
Perfluoroundecanoic acid (PFUnA)	25.9	1.0	ng/L	24.5		105	40-150			
Perfluorododecanoic acid (PFDoA)	26.1	1.0	ng/L	24.5		107	40-150			
Perfluorotridecanoic acid (PFTrDA)	23.9	1.0	ng/L	24.5		97.3	40-150			
Perfluorotetradecanoic acid (PFTeDA)	25.3	1.0	ng/L	24.5		103	40-150			
Perfluorobutanesulfonic acid (PFBS)	22.6	1.0	ng/L	21.8		104	40-150			
Perfluoropetanesulfonic acid (PFPeS)	24.1	1.0	ng/L	23.1		105	40-150			
Perfluorohexanesulfonic acid (PFHxS)	23.2	1.0	ng/L	22.4		103	40-150			
Perfluoroheptanesulfonic acid (PFHpS)	23.9	1.0	ng/L	23.4		102	40-150			
Perfluorooctanesulfonic acid (PFOS)	23.0	1.0	ng/L	22.8		101	40-150			
Perfluorononanesulfonic acid (PFNS)	24.2	1.0	ng/L	23.6		102	40-150			
Perfluorodecanesulfonic acid (PFDS)	24.3	1.0	ng/L	23.7		103	40-150			
Perfluorododecanesulfonic acid (PFDoS)	24.4	1.0	ng/L	23.8		102	40-150			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	101	4.1	ng/L	92.0		110	40-150			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	95.2	4.1	ng/L	93.2		102	40-150			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	99.5	4.1	ng/L	94.5		105	40-150			
Perfluorooctanesulfonamide (PFOSA)	24.0	1.0	ng/L	24.5		97.6	40-150			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	26.4	1.0	ng/L	24.5		108	40-150			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	25.5	1.0	ng/L	24.5		104	40-150			
N-MeFOSAA (NMeFOSAA)	25.3	1.0	ng/L	24.5		103	40-150			
N-EtFOSAA (NEtFOSAA)	28.5	1.0	ng/L	24.5		116	40-150			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	271	10	ng/L	245		111	40-150			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	270	10	ng/L	245		110	40-150			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	105	4.1	ng/L	98.1		107	40-150			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	104	4.1	ng/L	92.6		113	40-150			
9Cl-PF3ONS (F53B Minor)	101	4.1	ng/L	92.0		110	40-150			
11Cl-PF3OUdS (F53B Major)	99.2	4.1	ng/L	92.6		107	40-150			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	251	10	ng/L	245		102	40-150			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	1250	51	ng/L	1230		102	40-150			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	1230	51	ng/L	1230		101	40-150			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	48.2	2.0	ng/L	43.7		110	40-150			
Perfluoro-3-methoxypropanoic acid (PFMPA)	58.1	2.0	ng/L	49.1		118	40-150			
Perfluoro-4-methoxybutanoic acid (PFMBA)	55.7	2.0	ng/L	49.1		113	40-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	58.3	2.0	ng/L	49.1		119	40-150			
Surrogate: 13C4-PFBA	*76.8*		ng/L	102		75.2	20-150			
Surrogate: 13C5-PFPeA	*40.7*		ng/L	51.1		79.7	20-150			
Surrogate: 13C5-PFHxA	*20.6*		ng/L	25.6		80.8	20-150			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B333636 - Draft Method 1633										
LCS (B333636-BS2)				Prepared: 03/10/23 Analyzed: 03/24/23						
Surrogate: 13C4-PFHpA	*21.0*		ng/L	25.6		82.3	20-150			
Surrogate: 13C8-PFOA	*20.9*		ng/L	25.6		81.7	20-150			
Surrogate: 13C9-PFNA	*10.1*		ng/L	12.8		79.0	20-150			
Surrogate: 13C6-PFDA	*9.60*		ng/L	12.8		75.2	20-150			
Surrogate: 13C7-PFUnA	*9.60*		ng/L	12.8		75.2	20-150			
Surrogate: 13C2-PFDoA	*9.15*		ng/L	12.8		71.6	20-150			
Surrogate: 13C2-PFTeDA	*9.88*		ng/L	12.8		77.3	20-150			
Surrogate: 13C3-PFBS	*19.9*		ng/L	25.6		77.7	20-150			
Surrogate: 13C3-PFHxS	*19.7*		ng/L	25.6		76.9	20-150			
Surrogate: 13C8-PFOS	*19.6*		ng/L	25.6		76.7	20-150			
Surrogate: 13C2-4:2FTS	*46.6*		ng/L	51.1		91.3	20-150			
Surrogate: 13C2-6:2FTS	*39.2*		ng/L	51.1		76.7	20-150			
Surrogate: 13C2-8:2FTS	*38.7*		ng/L	51.1		75.7	20-150			
Surrogate: 13C8-PFOSA	*20.2*		ng/L	25.6		79.1	20-150			
Surrogate: D3-NMeFOSA	*15.9*		ng/L	25.6		62.3	20-150			
Surrogate: D5-NEtFOSA	*16.6*		ng/L	25.6		65.0	20-150			
Surrogate: D3-NMeFOSAA	*35.3*		ng/L	51.1		69.0	20-150			
Surrogate: D5-NEtFOSAA	*35.7*		ng/L	51.1		69.8	20-150			
Surrogate: D7-NMeFOSE	*193*		ng/L	256		75.7	20-150			
Surrogate: D9-NEtFOSE	*187*		ng/L	256		73.1	20-150			
Surrogate: 13C3-HFPO-DA	*88.4*		ng/L	102		86.5	20-150			
Batch B334871 - Draft Method 1633										
Blank (B334871-BLK1)				Prepared: 03/27/23 Analyzed: 03/30/23						
Perfluorobutanoic acid (PFBA)	ND	3.9	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	0.99	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	0.99	ng/L							
Perfluorooctanoic acid (PFOA)	ND	0.99	ng/L							
Perfluorononanoic acid (PFNA)	ND	0.99	ng/L							
Perfluorodecanoic acid (PFDA)	ND	0.99	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	0.99	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	0.99	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	0.99	ng/L							
Perfluorotetradecanoic acid (PFTeDA)	ND	0.99	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	0.99	ng/L							
Perfluoropetanesulfonic acid (PFPeS)	ND	0.99	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	0.99	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.99	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	0.99	ng/L							
Perfluorononanesulfonic acid (PFNS)	ND	0.99	ng/L							
Perfluorodecanesulfonic acid (PFDS)	ND	0.99	ng/L							
Perfluorododecanesulfonic acid (PFDoS)	ND	0.99	ng/L							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.9	ng/L							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.9	ng/L							
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.9	ng/L							
Perfluorooctanesulfonamide (PFOSA)	ND	0.99	ng/L							
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.99	ng/L							

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B334871 - Draft Method 1633										
Blank (B334871-BLK1)				Prepared: 03/27/23 Analyzed: 03/30/23						
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.99	ng/L							
N-MeFOSAA (NMeFOSAA)	ND	0.99	ng/L							
N-EtFOSAA (NEtFOSAA)	ND	0.99	ng/L							
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	9.9	ng/L							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.9	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.9	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.9	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	3.9	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	3.9	ng/L							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.9	ng/L							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	49	ng/L							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	49	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0	ng/L							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.0	ng/L							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.0	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	ng/L							
Surrogate: 13C4-PFBA	*92.4*		ng/L	98.6		93.7	20-150			
Surrogate: 13C5-PFPeA	*49.3*		ng/L	49.3		100	20-150			
Surrogate: 13C5-PFHxA	*24.1*		ng/L	24.6		97.7	20-150			
Surrogate: 13C4-PFHpA	*23.6*		ng/L	24.6		95.8	20-150			
Surrogate: 13C8-PFOA	*23.2*		ng/L	24.6		94.0	20-150			
Surrogate: 13C9-PFNA	*11.8*		ng/L	12.3		95.8	20-150			
Surrogate: 13C6-PFDA	*11.6*		ng/L	12.3		94.4	20-150			
Surrogate: 13C7-PFUnA	*11.2*		ng/L	12.3		91.1	20-150			
Surrogate: 13C2-PFDoA	*10.7*		ng/L	12.3		87.1	20-150			
Surrogate: 13C2-PFTeDA	*10.9*		ng/L	12.3		88.4	20-150			
Surrogate: 13C3-PFBS	*23.8*		ng/L	24.6		96.4	20-150			
Surrogate: 13C3-PFHxS	*23.2*		ng/L	24.6		94.3	20-150			
Surrogate: 13C8-PFOS	*22.4*		ng/L	24.6		91.0	20-150			
Surrogate: 13C2-4:2FTS	*46.8*		ng/L	49.3		94.9	20-150			
Surrogate: 13C2-6:2FTS	*41.1*		ng/L	49.3		83.3	20-150			
Surrogate: 13C2-8:2FTS	*39.4*		ng/L	49.3		79.9	20-150			
Surrogate: 13C8-PFOSA	*21.5*		ng/L	24.6		87.2	20-150			
Surrogate: D3-NMeFOSA	*15.8*		ng/L	24.6		64.0	20-150			
Surrogate: D5-NEtFOSA	*16.2*		ng/L	24.6		65.8	20-150			
Surrogate: D3-NMeFOSAA	*42.5*		ng/L	49.3		86.2	20-150			
Surrogate: D5-NEtFOSAA	*42.2*		ng/L	49.3		85.6	20-150			
Surrogate: D7-NMeFOSE	*198*		ng/L	246		80.2	20-150			
Surrogate: D9-NEtFOSE	*191*		ng/L	246		77.4	20-150			
Surrogate: 13C3-HFPO-DA	*106*		ng/L	98.6		107	20-150			
LCS (B334871-BS1)				Prepared: 03/27/23 Analyzed: 03/30/23						
Perfluorobutanoic acid (PFBA)	8.18	4.0	ng/L	7.98		102	40-150			
Perfluoropentanoic acid (PFPeA)	3.78	2.0	ng/L	3.99		94.6	40-150			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B334871 - Draft Method 1633										
LCS (B334871-BS1)				Prepared: 03/27/23 Analyzed: 03/30/23						
Perfluorohexanoic acid (PFHxA)	1.91	1.0	ng/L	2.00		95.8	40-150			
Perfluoroheptanoic acid (PFHpA)	1.92	1.0	ng/L	2.00		96.3	40-150			
Perfluorooctanoic acid (PFOA)	2.01	1.0	ng/L	2.00		101	40-150			
Perfluorononanoic acid (PFNA)	1.88	1.0	ng/L	2.00		94.2	40-150			
Perfluorodecanoic acid (PFDA)	1.93	1.0	ng/L	2.00		96.9	40-150			
Perfluoroundecanoic acid (PFUnA)	1.90	1.0	ng/L	2.00		95.0	40-150			
Perfluorododecanoic acid (PFDoA)	1.97	1.0	ng/L	2.00		98.6	40-150			
Perfluorotridecanoic acid (PFTrDA)	1.60	1.0	ng/L	2.00		80.0	40-150			
Perfluorotetradecanoic acid (PFTeDA)	2.07	1.0	ng/L	2.00		104	40-150			
Perfluorobutanesulfonic acid (PFBS)	1.70	1.0	ng/L	1.77		95.7	40-150			
Perfluoropetanesulfonic acid (PFPeS)	1.96	1.0	ng/L	1.88		105	40-150			
Perfluorohexanesulfonic acid (PFHxS)	1.78	1.0	ng/L	1.83		97.5	40-150			
Perfluoroheptanesulfonic acid (PFHpS)	1.95	1.0	ng/L	1.90		102	40-150			
Perfluorooctanesulfonic acid (PFOS)	1.89	1.0	ng/L	1.85		102	40-150			
Perfluorononanesulfonic acid (PFNS)	1.88	1.0	ng/L	1.92		97.9	40-150			
Perfluorodecanesulfonic acid (PFDS)	1.82	1.0	ng/L	1.93		94.6	40-150			
Perfluorododecanesulfonic acid (PFDoS)	1.85	1.0	ng/L	1.94		95.3	40-150			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	7.84	4.0	ng/L	7.49		105	40-150			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	7.93	4.0	ng/L	7.58		105	40-150			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	8.00	4.0	ng/L	7.68		104	40-150			
Perfluorooctanesulfonamide (PFOSA)	1.93	1.0	ng/L	2.00		96.7	40-150			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	1.97	1.0	ng/L	2.00		98.7	40-150			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	1.98	1.0	ng/L	2.00		99.2	40-150			
N-MeFOSAA (NMeFOSAA)	2.17	1.0	ng/L	2.00		109	40-150			
N-EtFOSAA (NEtFOSAA)	2.25	1.0	ng/L	2.00		113	40-150			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	20.5	10	ng/L	20.0		103	40-150			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	20.5	10	ng/L	20.0		103	40-150			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	8.02	4.0	ng/L	7.98		100	40-150			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.21	4.0	ng/L	7.53		95.6	40-150			
9Cl-PF3ONS (F53B Minor)	7.29	4.0	ng/L	7.49		97.4	40-150			
11Cl-PF3OUdS (F53B Major)	7.11	4.0	ng/L	7.53		94.3	40-150			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	20.1	10	ng/L	20.0		101	40-150			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	97.9	50	ng/L	99.8		98.1	40-150			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	91.5	50	ng/L	99.8		91.6	40-150			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	3.41	2.0	ng/L	3.55		95.9	40-150			
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.69	2.0	ng/L	3.99		92.5	40-150			
Perfluoro-4-methoxybutanoic acid (PFMBA)	3.74	2.0	ng/L	3.99		93.6	40-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.28	2.0	ng/L	3.99		107	40-150			
Surrogate: 13C4-PFBA	*80.5*		ng/L	99.8		80.7	20-150			
Surrogate: 13C5-PFPeA	*43.6*		ng/L	49.9		87.5	20-150			
Surrogate: 13C5-PFHxA	*21.1*		ng/L	25.0		84.5	20-150			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B334871 - Draft Method 1633										
LCS (B334871-BS1)				Prepared: 03/27/23 Analyzed: 03/30/23						
Surrogate: 13C4-PFHpA	*20.9*		ng/L	25.0		83.9	20-150			
Surrogate: 13C8-PFOA	*20.4*		ng/L	25.0		81.8	20-150			
Surrogate: 13C9-PFNA	*10.7*		ng/L	12.5		85.9	20-150			
Surrogate: 13C6-PFDA	*10.7*		ng/L	12.5		85.7	20-150			
Surrogate: 13C7-PFUnA	*10.1*		ng/L	12.5		81.3	20-150			
Surrogate: 13C2-PFDoA	*9.90*		ng/L	12.5		79.3	20-150			
Surrogate: 13C2-PFTeDA	*9.80*		ng/L	12.5		78.6	20-150			
Surrogate: 13C3-PFBS	*21.2*		ng/L	25.0		85.0	20-150			
Surrogate: 13C3-PFHxS	*21.4*		ng/L	25.0		85.6	20-150			
Surrogate: 13C8-PFOS	*21.2*		ng/L	25.0		84.9	20-150			
Surrogate: 13C2-4:2FTS	*47.5*		ng/L	49.9		95.2	20-150			
Surrogate: 13C2-6:2FTS	*38.7*		ng/L	49.9		77.6	20-150			
Surrogate: 13C2-8:2FTS	*37.6*		ng/L	49.9		75.3	20-150			
Surrogate: 13C8-PFOSA	*20.7*		ng/L	25.0		83.2	20-150			
Surrogate: D3-NMeFOSA	*14.7*		ng/L	25.0		58.8	20-150			
Surrogate: D5-NEtFOSA	*15.4*		ng/L	25.0		61.6	20-150			
Surrogate: D3-NMeFOSAA	*40.6*		ng/L	49.9		81.3	20-150			
Surrogate: D5-NEtFOSAA	*40.2*		ng/L	49.9		80.6	20-150			
Surrogate: D7-NMeFOSE	*193*		ng/L	250		77.3	20-150			
Surrogate: D9-NEtFOSE	*187*		ng/L	250		75.0	20-150			
Surrogate: 13C3-HFPO-DA	*90.0*		ng/L	99.8		90.1	20-150			
LCS (B334871-BS2)				Prepared: 03/27/23 Analyzed: 03/30/23						
Perfluorobutanoic acid (PFBA)	97.4	3.9	ng/L	93.6		104	40-150			
Perfluoropentanoic acid (PFPeA)	47.3	2.0	ng/L	46.8		101	40-150			
Perfluorohexanoic acid (PFHxA)	23.7	0.98	ng/L	23.4		101	40-150			
Perfluoroheptanoic acid (PFHpA)	24.4	0.98	ng/L	23.4		104	40-150			
Perfluorooctanoic acid (PFOA)	23.8	0.98	ng/L	23.4		102	40-150			
Perfluorononanoic acid (PFNA)	23.1	0.98	ng/L	23.4		98.7	40-150			
Perfluorodecanoic acid (PFDA)	24.3	0.98	ng/L	23.4		104	40-150			
Perfluoroundecanoic acid (PFUnA)	23.8	0.98	ng/L	23.4		102	40-150			
Perfluorododecanoic acid (PFDoA)	24.4	0.98	ng/L	23.4		104	40-150			
Perfluorotridecanoic acid (PFTrDA)	22.0	0.98	ng/L	23.4		94.1	40-150			
Perfluorotetradecanoic acid (PFTeDA)	24.6	0.98	ng/L	23.4		105	40-150			
Perfluorobutanesulfonic acid (PFBS)	21.5	0.98	ng/L	20.8		103	40-150			
Perfluoropetanesulfonic acid (PFPeS)	22.4	0.98	ng/L	22.0		102	40-150			
Perfluorohexanesulfonic acid (PFHxS)	21.4	0.98	ng/L	21.4		100	40-150			
Perfluoroheptanesulfonic acid (PFHpS)	22.8	0.98	ng/L	22.3		102	40-150			
Perfluorooctanesulfonic acid (PFOS)	21.2	0.98	ng/L	21.7		97.8	40-150			
Perfluorononanesulfonic acid (PFNS)	20.9	0.98	ng/L	22.5		92.7	40-150			
Perfluorodecanesulfonic acid (PFDS)	19.7	0.98	ng/L	22.6		87.1	40-150			
Perfluorododecanesulfonic acid (PFDoS)	22.0	0.98	ng/L	22.7		96.9	40-150			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	92.5	3.9	ng/L	87.8		105	40-150			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	84.8	3.9	ng/L	89.0		95.3	40-150			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	95.0	3.9	ng/L	90.1		105	40-150			
Perfluorooctanesulfonamide (PFOSA)	22.8	0.98	ng/L	23.4		97.4	40-150			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	23.7	0.98	ng/L	23.4		101	40-150			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	23.4	0.98	ng/L	23.4		99.8	40-150			
N-MeFOSAA (NMeFOSAA)	24.6	0.98	ng/L	23.4		105	40-150			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B334871 - Draft Method 1633										
LCS (B334871-BS2)				Prepared: 03/27/23 Analyzed: 03/30/23						
N-EtFOSAA (NEtFOSAA)	24.0	0.98	ng/L	23.4		102	40-150			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	253	9.8	ng/L	234		108	40-150			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	264	9.8	ng/L	234		113	40-150			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	97.5	3.9	ng/L	93.6		104	40-150			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	92.2	3.9	ng/L	88.4		104	40-150			
9Cl-PF3ONS (F53B Minor)	89.5	3.9	ng/L	87.8		102	40-150			
11Cl-PF3OUdS (F53B Major)	75.5	3.9	ng/L	88.4		85.4	40-150			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	251	9.8	ng/L	234		107	40-150			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	1290	49	ng/L	1170		111	40-150			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	1220	49	ng/L	1170		104	40-150			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	43.8	2.0	ng/L	41.7		105	40-150			
Perfluoro-3-methoxypropanoic acid (PFMPA)	46.1	2.0	ng/L	46.8		98.4	40-150			
Perfluoro-4-methoxybutanoic acid (PFMBA)	48.5	2.0	ng/L	46.8		104	40-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	53.7	2.0	ng/L	46.8		115	40-150			
Surrogate: 13C4-PFBA	*82.0*		ng/L	97.5		84.1	20-150			
Surrogate: 13C5-PFPeA	*42.9*		ng/L	48.8		87.9	20-150			
Surrogate: 13C5-PFHxA	*20.7*		ng/L	24.4		85.0	20-150			
Surrogate: 13C4-PFHpA	*20.5*		ng/L	24.4		84.1	20-150			
Surrogate: 13C8-PFOA	*21.0*		ng/L	24.4		86.0	20-150			
Surrogate: 13C9-PFNA	*10.6*		ng/L	12.2		87.2	20-150			
Surrogate: 13C6-PFDA	*10.4*		ng/L	12.2		85.5	20-150			
Surrogate: 13C7-PFUnA	*9.13*		ng/L	12.2		74.9	20-150			
Surrogate: 13C2-PFDoA	*8.58*		ng/L	12.2		70.3	20-150			
Surrogate: 13C2-PFTeDA	*9.39*		ng/L	12.2		77.0	20-150			
Surrogate: 13C3-PFBS	*21.0*		ng/L	24.4		86.1	20-150			
Surrogate: 13C3-PFHxS	*21.5*		ng/L	24.4		88.2	20-150			
Surrogate: 13C8-PFOS	*20.8*		ng/L	24.4		85.3	20-150			
Surrogate: 13C2-4:2FTS	*50.9*		ng/L	48.8		104	20-150			
Surrogate: 13C2-6:2FTS	*42.9*		ng/L	48.8		87.9	20-150			
Surrogate: 13C2-8:2FTS	*38.9*		ng/L	48.8		79.7	20-150			
Surrogate: 13C8-PFOSA	*18.4*		ng/L	24.4		75.6	20-150			
Surrogate: D3-NMeFOSA	*13.8*		ng/L	24.4		56.5	20-150			
Surrogate: D5-NEtFOSA	*14.3*		ng/L	24.4		58.5	20-150			
Surrogate: D3-NMeFOSAA	*35.5*		ng/L	48.8		72.9	20-150			
Surrogate: D5-NEtFOSAA	*33.6*		ng/L	48.8		68.9	20-150			
Surrogate: D7-NMeFOSE	*144*		ng/L	244		59.0	20-150			
Surrogate: D9-NEtFOSE	*137*		ng/L	244		56.3	20-150			
Surrogate: 13C3-HFPO-DA	*88.5*		ng/L	97.5		90.7	20-150			

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B333569 - Draft Method 1633										
Blank (B333569-BLK1)				Prepared & Analyzed: 03/08/23						
Total Suspended Solids	ND	5.0	mg/L							
LCS (B333569-BS1)				Prepared & Analyzed: 03/08/23						
Total Suspended Solids	197	5.0	mg/L	200		98.5	64.1-125			
Duplicate (B333569-DUP1)	**Source: 23C0653-01**			Prepared & Analyzed: 03/08/23						
Total Suspended Solids	ND	10	mg/L		ND			NC	10	

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
B-07	Data is not affected by elevated level in laboratory blank since sample result is >10x level found in the blank.
PF-18	Duplicate analysis confirmed Extracted Internal Standard failure due to matrix effects.
Z-01	Detection in method blank >1/3 MRL

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
Draft Method 1633 in Water	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA
Perfluorobutanoic acid (PFBA)	NY
Perfluoropentanoic acid (PFPeA)	NY
Perfluorohexanoic acid (PFHxA)	NY
Perfluoroheptanoic acid (PFHpA)	NY
Perfluorooctanoic acid (PFOA)	NY
Perfluorononanoic acid (PFNA)	NY
Perfluorodecanoic acid (PFDA)	NY
Perfluoroundecanoic acid (PFUnA)	NY
Perfluorododecanoic acid (PFDoA)	NY
Perfluorotridecanoic acid (PFTrDA)	NY
Perfluorotetradecanoic acid (PFTeDA)	NY
Perfluorobutanesulfonic acid (PFBS)	NY
Perfluoropetanesulfonic acid (PFPeS)	NY
Perfluorohexanesulfonic acid (PFHxS)	NY
Perfluoroheptanesulfonic acid (PFHpS)	NY
Perfluorooctanesulfonic acid (PFOS)	NY
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	NY
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	NY
N-MeFOSAA (NMeFOSAA)	NY
N-EtFOSAA (NEtFOSAA)	NY
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NY
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NY
9Cl-PF3ONS (F53B Minor)	NY
11Cl-PF3OUdS (F53B Major)	NY
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NY
Perfluoro-3-methoxypropanoic acid (PFMPA)	NY

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
MA	Massachusetts DEP	M-MA100	06/30/2023
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
RI	Rhode Island Department of Health	LAO00373	12/30/2023
NC	North Carolina Div. of Water Quality	652	12/31/2023
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2023

RAMBOLL

Sampler(s): (Signature) Pawel Mecinski

23C0653

Contact:	Michael Grifasi
Address:	333 West Washington Street Syracuse, New York 13221-4873
Phone:	(315) 956-6100
E-mail:	michael.grifasi@ramboll.com
Project:	NYSDEC Claremont Polychemical Site Q1 Sys Samples
Location:	Old Bethpage, New York

Laboratory: Pace Analytical Services, 39 Spruce St., East Longmeadow, MA 01028
Attn: RJ McCarthy
Phone: 413-525-2332

Holding Time: 24-hr hold for Cr^{+6}

Package Requirement: Level 2 and Level 3

EDD Format: EQuIS 4-file

Laboratory Use Only
Project Number:
Job Number:
Laboratory ID:

Analysis Required

Preservatives: (see key at bottom)

	Sample Identification																													
	Unique Field Sample ID (sys_sample_code)	Sample Location	Date	Time	Sample Type (See Key)	Sample Matrix (See Key)	Number of Containers	Grab [G] or Composite [C]	Field Filtered? (Y / N)	8620C: VOCs + TBA	8270D: SVOCs	TAL Metals +Mercury (6010D and 7470A)		2570D: TDS	2540D: TSS	7196A: hexavalent chromium	351.2: TKN	9060A: TOC	300.0: Anions Cl,F,SO4,CN	9014: Cyanide via 9014		1633: PFAS	8270 SIM: 1,4-dioxane						Lab Sample ID:
	Preservatives:									1	0	2		0	0	0	3	10	0	4		0	0						
1	ASF-CP-00-030323	ASF	3/3/23	1000	N	WG	12	G	N	X	X	X			X			X				X	X					1
2	ASF-CP-01-030323	ASF		1000	FD	WG	7	G	N			X						X				X	X					2
3	ASF-CP-MS-030323	ASF		1000	MS	WG	2	G	N			X						X										
4	ASF-CP-MSD-030323	ASF		1000	MSD	WG	2	G	N			X						X										
5	PD-CP-00-030323	PD		1130	N	WG	20	G	N	X	X	X		X		X	X		X	X		X	X					3
6	PD-CP-01-030323	PD		1130	FD	WG	19	G	N	X	X			X		X	X		X	X		X	X					4
7	PD-CP-MS-030323	PD		1130	MS	WG	10	G	N	X						X	X		X	X								
8	PD-CP-MSD-030323	PD		1130	MSD	WG	10	G	N	X						X	X		X	X								
9	RW3-CP-00-030323	RW3		0900	N	WG	4	G	N	X		X			X													
10	RW3-CP-01-030323	RW3		0900	FD	WG	1	G	N						X													
12																												
13	TB-030323			0845	TB	WQ	2		N	X																		
14																												

Special Instructions: 1,4 DIOXANE SEPARATED IN ONE COOLER / SHORT HOLD TIME FOR HEX CHROMIUM

Use the top boxes if the samples are to be shipped via courier (e.g., Fed Ex)

Relinquished by:	Date: 3/3/23	Courier Name: FedEx	Date: 3/3/23	Condition: 4 - TOTAL COOLERS	Other comments or notes regarding condition of samples as received:
If: GES, Inc.	Time: 1230	Tracking #:	Time: 1633		
Relinquished by:	Date:	Courier Name:	Date:	Custody Seals Intact? *(if so, indicate the #, date, and time of the seal)*	
If:	Time:	Tracking #:	Time:		
Courier Name: FedEx	Date:	Received By: Cassandra	Date: 3/4/23 1103	Cooler Temperature: 3.8/3.2/3.9/3.8	
Tracking #:	Time:	Of: PACE	Time: 1103		

Sample Type: N = Normal env. sample, FD = field duplicate, EB = Equipment Blank, TB = Trip Blank, MS = Lab Matrix Spike, Other (Specify): FRB = Field Reagent Blank
Sample Matrix: SE = Sediment, SO = Soil, WG = Groundwater, WQ = Water Quality, WS = Surface Water, WW = Waste Water, WP = Potable Water, AA = Ambient Air, Other (Specify):
Preservative Code: 0 = none, 1 = HCl, 2 = HNO_3, 3 = H_2SO_4, 4 = NaOH, 5 = Zn Acetate, 6 = MeOH, 7 = $NaHSO_4$, 8 = Na_3PO_4, 9 = BenzalkoniumCl, 10 = other (H2PO4)

Table of Contents

[redacted]

FedEx® Tracking

DELIVERED

Saturday

3/4/2023 at 11:03 am

Signed for by: L.AROYO

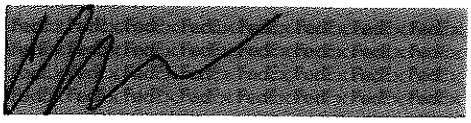
Obtain Proof of delivery

How was your delivery?

☆ ☆ ☆ ☆ ☆

DELIVERY STATUS

Delivered



TRACKING ID

791339832889

FROM
NYDEC_GES
Pawel Mecinski
150 Winding Road
OLD BETHPAGE, NY US 11804
8002203069

Label Created
3/2/2023 10:33 AM

PACKAGE RECEIVED BY FEDEX
MELVILLE, NY
3/3/2023 12:34 PM

IN TRANSIT
WINDSOR LOCKS, CT
3/4/2023 8:41 AM

OUT FOR DELIVERY
WINDSOR LOCKS, CT
3/4/2023 8:46 AM

DELIVERED
Sample Receiving Building 1
Con-Test Analytical Laboratory
39 Spruce St

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F:413-525-6405
www.pacelabs.com

Log In Back-Sheet

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

Pace PEOPLE ADVANCING SCIENCE

Client NYSDEC Old Bethpage

Project NYSDEC Claremont Polychemical Site
21 345 Samples

MCP/RCP Required N/A

Deliverable Package Req. N/A

Location Old Bethpage, NY

PWSID# (When Applicable) N/A

Arrival Method:

Courier ☐ Fed Ex ☑ Walk In ☐ Other ☐

Received By / Date / Time LA | 3-4-23 | 1103

Back-Sheet By / Date / Time AAM | 3-6-23 | 1115

Temperature Method Temp Gun # _____

Temp ☑ < 6° C Actual Temperature 3.8 | 3.2 | 3.4 | 3.8°C

Rush Samples: Yes / (No) Notify _____

Short Hold: (Yes) / No Notify Denis

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☐	☑
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☑	☐
MS/MSD	☐	☑
Trip Blanks	☐	☑
Lab to Filters	☐	☑
COC Legible	☑	☐

Notes regarding Samples/COC outside of SOP:

COC Included: (Check all included)

Client ☑ Analysis ☑ Sampler Name ☑
Project ☑ IDs ☑ Collection Date/Time ☑

All Samples Proper pH: (N/A) ☐ ☐

Container (Circle when applicable)	UnP	HCl	HNO3	H2SO4	NaOH	Trizma	NaS2O3	Other Preservative
1L Amber Plastic								
500 mL Amber (Plastic)	10	-	-					
250 mL Amber Plastic								
Other Amber Clear (Plastic)	4							
16oz Amber Clear								
8oz Amber Clear								
4oz Amber Clear								
2oz Amber Clear								
Col/Bacteria								
Flashpoint								
Plastic Bag								
SOC Kit								
Perchlorate								
Encore								
Frozen								

	Proper Headspace	UnP	HCl	MeOH	Bisulfate	DI	Thiosulfate	Sulfuric	Other
Vials									