



ADVANCED SITE RESTORATION

ENVIRONMENTAL SERVICES

(A DIVISION OF LAUREL ENVIRONMENTAL GEOSCIENCES, D.P.C.)

October 21, 2024

New York State Department of Environmental Conservation
Superfund and Brownfield Cleanup Section, Region 2
Division of Environmental Remediation
Attention: Hasan Ahmed
47-40 21st Street, Long Island City, NY 11101

Re: Nassau Metals, OU2
Voluntary Cleanup Program Site No. V00159
Stockpile Sampling Report, **ASR** Project Number: **A22-115**

Dear Mr. Ahmed,

Advanced Site Restoration (“ASR”), a division of Laurel Environmental Geosciences, D.P.C. (“Laurel”) is submitting this Stockpile Sampling Report for the Nassau Metals, Operable Unit No. 2 (the “Site”). This report documents the implementation of the Stockpile Sampling Work Plan, which was approved by the New York State Department of Environmental Conservation (“NYSDEC”) on September 12, 2024. The Location of the Work Area is shown in Figure 1.0.

Background

During the April 29, 2024, monthly inspection of the Site, approximately 2 yards of soil was noted to be stored in direct contact with native soil in the area of the Site utilized by Design Landscapes, Inc. The soil stockpile remained on the Site during the monthly inspection conducted by **ASR** on May 20, 2024. On May 23, 2024, the NYSDEC provided directions that the soil stockpile must be sampled prior to off-site removal or re-use of the soil on-site. When **ASR** returned to the Site on June 26, 2024, the soil stockpile was found to have been removed. As such, the Stockpile Sampling Work Plan was developed in order to properly assess the chemical quality of the soil remaining beneath the former stockpile.

Stockpile Sampling

On September 19, 2024, **Laurel** implemented the approved work plan. Prior to the work being conducted, the Community Air Monitoring Plan (“CAMP”) for the Site was implemented with monitoring stations placed upwind and downwind of the work zone. No exceedances of the CAMP limits occurred during this field work. The CAMP data is shown in the daily report, which is included as Appendix A of this report.

As part of this sampling event, five (5) continuous soil borings (designated SB-1 through SB-5) were performed and planned to be advanced to a depth of 2 feet below ground surface (“bgs”) via a stainless-steel hand-auger. Refusal was encountered at each boring location between 12 to 18 inches bgs. A black filter fabric was present beneath the surficial soil (i.e., approximately 6 inches bgs) in all five (5) soil boring locations. The soil was screened for the potential presence of petroleum or chemical impacts using visual and olfactory methods and a photoionization detector (“PID”), and no evidence of contamination was noted. A photo log documenting the sampling event was prepared as part of the daily report, which is included as Appendix A of this report, and the soil boring locations are shown on Figure 2.0 of this report.

One (1) representative grab sample was collected from SB-1 @ 12" bgs (sample designated "Grab") for laboratory analysis of NYSDEC Part 375 volatile organic compounds ("VOCs"). Soil collected from SB-1 through SB-5 was then combined into a five-point composite sample that was analyzed for NYSDEC Part 375 semi-volatile organic compounds ("SVOCs"), 1,4-Dioxane, Metals, Hexavalent Chromium, Pesticides, Polychlorinated Biphenyls ("PCBs"), Herbicides, Cyanide, and Per and Poly-Fluoroalkyl Substances ("PFAS").

The samples were transferred into the laboratory-supplied containers and stored on ice. The soil samples were transported via courier for laboratory analysis at York Analytical Laboratories, Inc. located in Stratford, Connecticut (York) a New York State Department of Health ("NYSDOH") Environmental Laboratory Approval Program ("ELAP")-certified laboratory (ELAP ID No. 10854), under chain of custody procedures.

Stockpile Sampling Laboratory Results

The stockpile sample analytical results were compared to both the NYSDEC Part 375 Restricted Use Soil Cleanup Objectives ("RU SCOs") for Commercial Use, and the NYSDEC Part 375 Protection of Groundwater SCOs, as required by the Site Management Plan ("SMP") for the import of soil to the Site. For PFAS compounds, the April 2023 NYSDEC Part 375 Guidance Values are shown for comparison. The detected concentrations are summarized in Table I on the following page. A copy of the complete laboratory report is included as Appendix B.

No compounds (VOCs) were detected in the Grab sample. In the composite sample, no compounds were found to exceed the NYSDEC Part 375 RU SCOs for Commercial Use. Only one (1) compound, perfluorooctanesulfonic acid ("PFOS"), was detected at concentrations marginally above the NYSDEC Part 375 Protection of Groundwater SCOs (0.00106 mg/kg detected vs 0.0010 mg/kg proposed standard).

Table 1: Detected Analytes in Soil Samples

Sample ID Sampling Date Client Matrix	NYSDEC Part 375 RU SCO's – Commercial Use	NYSDEC Part 375 Protection of GW SCO's	Composite 9/19/2024 Soil	
Compound			Result	Q
SVOCs, Part 375 List	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			2	
Anthracene	500	1000	0.1	D
Benzo(a)anthracene	5.6	1	0.2	D
Benzo(a)pyrene	1	22	0.2	D
Benzo(b)fluoranthene	5.6	1.7	0.3	D
Benzo(g,h,i)perylene	500	1000	0.2	D
Benzo(k)fluoranthene	56	1.7	0.1	D
Chrysene	56	1	0.2	D
Fluoranthene	500	1000	0.5	D
Indeno(1,2,3-cd)pyrene	5.6	8.2	0.2	D
Phenanthrene	500	1000	0.3	D
Pyrene	500	1000	0.4	D
Pesticides, Part 375 Target List	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			5	
4,4'-DDE	62	17	0.003	D
4,4'-DDT	47	136	0.01	D
alpha-Chlordane	24	2.9	0.03	D
Dieldrin	1.4	0.1	0.004	D
Heptachlor	15	0.38	0.003	D
Metals, Part 375 List	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	
Arsenic	16	16	6.1	
Barium	400	820	50	
Beryllium	590	47	0.1	
Chromium	~	~	20	
Copper	270	1720	101	
Lead	1000	450	80	
Manganese	10000	2000	210	
Nickel	310	130	26	
Zinc	10000	2480	91	
Mercury	2.8	0.73	0.1	
PFAS, EPA 1633 Target List			mg/kg	
Dilution Factor			1	
Perfluorohexanoic acid (PFHxA)	~	~	0.00008	J
Perfluorooctanesulfonic acid (PFOS)	0.5	0.0010	0.00106	

Notes:

Any Regulatory Exceedances are color coded by regulation, *=are proposed NYSDEC guidance values.

Q is the qualifier column with definitions as follows:

D=Result is from an analysis that required a dilution

J=analyte detected at or above the MDL (method detection limit) but below the RL (reporting limit)

Summary Conclusions and Recommendations

On September 19, 2024, **ASR** implemented the NYSDEC-approved Stockpile Sampling Work Plan. As part of this sampling event, five (5) continuous soil borings were performed via a stainless-steel hand-auger. One (1) representative grab sample was collected for laboratory analysis of NYSDEC Part 375 VOCs, and the remaining soil was combined into a 5-point composite for laboratory analysis of NYSDEC Part SVOCs, 1,4-Dioxane, Metals, Hexavalent Chromium, Pesticides, PCBs, Herbicides, Cyanide, and PFAS.

No compounds (VOCs) were detected in the Grab sample. In the composite sample, no compounds were found to exceed the NYSDEC Part 375 RU SCOs for Commercial Use. Only one (1) compound, perfluorooctanesulfonic acid ("PFOS"), was detected at concentrations marginally above the NYSDEC Part 375 Protection of Groundwater SCOs (0.00106 mg/kg detected vs 0.0010 mg/kg proposed standard).

Based on the information summarized above, there are no remedial corrective actions warranted to address the former soil stockpile area.

Respectfully submitted,



Jamie Burgher
Project Manager, Geologist III

ENVIRONMENTAL PROFESSIONAL CERTIFICATION

I Daniel Noll certify that I am currently a NYS registered professional engineer and that this Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications.



Dan Noll, PE

10/21/2024

Date

Attachments: Figure 1.0 Location of Work Area
Figure 2.0 Site Sketch with Sampling Locations
Appendix A: Daily Report
Appendix B: Laboratory Report

FIGURES



53 West Hills Road
Huntington Station, NY 11746

PHONE: 631-673-0612
FAX: 631-427-5323

WWW.ASKASR.COM

FIGURE 1.0

Location of Work Area

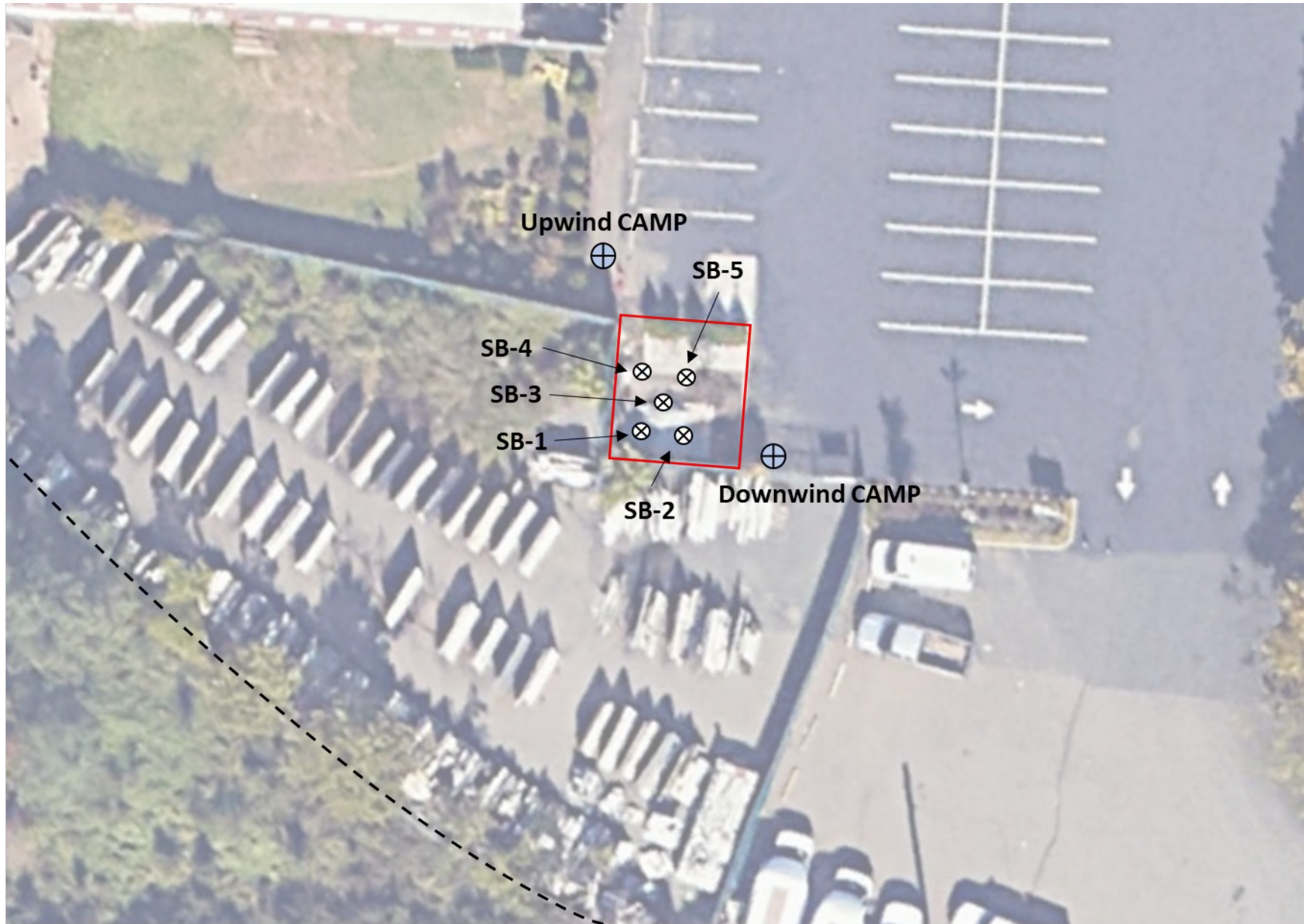
Nassau Metals OU-2,
286 Richmond Valley Road,
Staten Island, NY.

PROJECT: A22-115
DRAWING DATE: 7/25/24
DRAWN BY: JB
CHECKED BY: SY
REVISIONS: N/A

KEY

- Site Boundary
- Work Area





53 West Hills Road
Huntington Station, NY 11746

PHONE: 631-673-0612
FAX: 631-427-5323

WWW.LAURELENV.COM

FIGURE 2.0
SITE SKETCH WITH SAMPLING
LOCATIONS

236 Richmond Valley Road
Staten Island, NY 10309

PROJECT: A22-115
DRAWING DATE: 9/20/24
DRAWN BY: CG
CHECKED BY: JB
REVISIONS:

KEY

--- Property Boundary

⊗ Soil Boring Location

— Work Zone

⊕ CAMP Unit

NOT TO SCALE

Laurel makes no guarantees as to the accuracy of this drawing and it should only be used for informational purposes.

APPENDIX A

Daily Report



ADVANCED SITE RESTORATION

ENVIRONMENTAL SERVICES

(A DIVISION OF LAUREL ENVIRONMENTAL GEOSCIENCES, D.P.C.)

DAILY STATUS REPORT

Prepared By: Connor Grosso

WEATHER	Snow		Rain		Overcast		Partly Cloudy	x	Bright Sun	
TEMP.	< 32		32-50	x	50-70		70-85		>85	

NYSDEC Site Number:	V-001590	Date:	09/19/2024
Project Name:	Nassau Metals OU-2, 236 Richmond Valley Rd, Staten Island, NY		

Consultant:

Advanced Site Restoration
53 West Hills Road
Huntington Station, NY 11746
631.673.0612

Tenant:

Design Landscapes
236-286 Richmond Valley Road
Staten Island, NY 10309

Work Activities Performed:

- CAMP was established upwind and downwind of the work zone.
- Five soil borings were to be advanced to 2 feet bgs using a hand auger. Refusal was encountered in each of the boring locations between 12 to 18 inches below grade. See site sketch for the boring locations.
- A black filter fabric was present beneath the surficial soil (e.g., 1 to 6 inches) in all five (5) of the soil boring locations.
- The subsurface soil was field screened with a photoionization detector (PID) and no volatile organic compounds (VOCs) were detected. A representative grab sample was collected from SB-1 @ 12" bgs.
- The remaining soil was composited, and a representative composite sample was collected.

Samples Collected:

"Grab" sample was collected from SB-1 @ 12" bgs to be analyzed for NYSDEC Part 375 VOCs
"Composite" sample was collected to be analyzed for NYSDEC Part 375 semi-volatile organic compounds (SVOCs), 1,4-Dioxane, Metals, Hexavalent Chromium, Pesticides, Polychlorinated Biphenyls (PCBs), Cyanide, and Per and Poly-Fluoroalkyl Substances (PFAS).

Air Monitoring:

CAMP was performed for the duration of this project and consisted of two (2) units with dedicated dust monitors and PIDs placed upwind and downwind of the work zone. CAMP began at 11:15am and ended at the completion of work. See attached table for data and attached site sketch for CAMP station location.

No exceedances of the CAMP limits occurred, and no odors or fugitive dust was observed.

Problems Encountered:

The soil borings were intended to be advanced to 2 feet below grade but were only able to be advanced 12 to 18 inches before refusal was encountered in each location.

Site Sketch



**CAMP Readings**

CAMP Data					
Date	Time Period	Station 1 - Dust (mg/m ³)	Station 2 - Dust (mg/m ³)	Station 1 - TVOCs (ppm)	Station 2 - TVOCs (ppm)
9/19/2024	11:15:08 - 11:30:08	0	0	0	0
9/19/2024	11:30:08 - 11:45:08	0.01	0.009	0	0
9/19/2024	11:45:08 - 12:00:08	0.026	0.024	0	0
9/19/2024	12:00:08 - 12:15:08	0.026	0.025	0	0
9/19/2024	12:15:08 - 12:30:08	0.024	0.024	0	0
9/19/2024	12:30:08 - 12:45:08	0.02	0.021	0	0
9/19/2024	12:45:08 - 13:00:08	0.021	0.021	0	0

PHOTO DOCUMENTATION



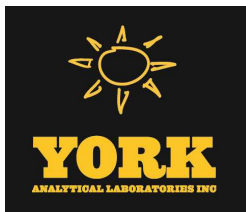
View of the former stockpile location that had five locations sampled.



View of the soil borings being performed by hand auger.

APPENDIX B

Laboratory Report



Technical Report

prepared for:

Laurel Environmental Geosciences, D.P.C.

53 W Hills Road, Suite 1
Huntington Station NY, 11746
Attention: Scott Yanuck

Report Date: 09/30/2024

Client Project ID: 286 Richmond Valley Rd Staten Island, NY A22-115.7 JB

York Project (SDG) No.: 24I1279

Stratford, CT Laboratory IDs:
NY:10854, NJ: CT005, PA: 68-0440, CT: PH-0723



Richmond Hill, NY Laboratory IDs:
NY:12058, NJ: NY037, CT: PH-0721, NH: 2097,
EPA: NY01600

120 RESEARCH DRIVE
www.YORKLAB.com

STRATFORD, CT 06615
(203) 325-1371



132-02 89th AVENUE
FAX (203) 357-0166

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 09/30/2024
Client Project ID: 286 Richmond Valley Rd Staten Island, NY A22-115.7 JB
York Project (SDG) No.: 24I1279

Laurel Environmental Geosciences, D.P.C.
53 W Hills Road, Suite 1
Huntington Station NY, 11746
Attention: Scott Yanuck

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on September 20, 2024 and listed below. The project was identified as your project: **286 Richmond Valley Rd Staten Island, NY A22-115.7 JB.**

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
24I1279-01	Grab	Soil	09/19/2024	09/20/2024
24I1279-02	Composite	Soil	09/19/2024	09/20/2024
24I1279-03	Equipment Blank	Water	09/19/2024	09/20/2024
24I1279-04	Trip Blank	Water	09/19/2024	09/20/2024

General Notes for York Project (SDG) No.: 24I1279

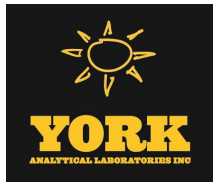
1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854, NJ Cert No. CT005, PA Cert No. 68-04440, CT Cert No. PH-0723; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058, NJ Cert No. NY037, CT Cert No. PH-0721, NH Cert No. 2097, EPA Cert No. NY01600.

Approved By: 

Cassie L. Mosher
Laboratory Manager

Date: 09/30/2024





Sample Information

Client Sample ID: Grab

York Sample ID: 24I1279-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

24I1279

286 Richmond Valley Rd Staten Island, NY A22-115.7 JB

Soil

September 19, 2024 12:30 pm

09/20/2024

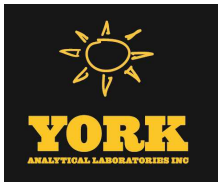
Volatile Organics, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	3.4	6.8	1	EPA 8260D Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	09/24/2024 12:38	09/25/2024 09:53	BMC
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	3.4	6.8	1	EPA 8260D Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	09/24/2024 12:38	09/25/2024 09:53	BMC
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	3.4	6.8	1	EPA 8260D Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	09/24/2024 12:38	09/25/2024 09:53	BMC
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	3.4	6.8	1	EPA 8260D Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	09/24/2024 12:38	09/25/2024 09:53	BMC
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	3.4	6.8	1	EPA 8260D Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	09/24/2024 12:38	09/25/2024 09:53	BMC
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	3.4	6.8	1	EPA 8260D Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	09/24/2024 12:38	09/25/2024 09:53	BMC
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	3.4	6.8	1	EPA 8260D Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	09/24/2024 12:38	09/25/2024 09:53	BMC
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	3.4	6.8	1	EPA 8260D Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	09/24/2024 12:38	09/25/2024 09:53	BMC
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	3.4	6.8	1	EPA 8260D Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	09/24/2024 12:38	09/25/2024 09:53	BMC
123-91-1	1,4-Dioxane	ND		ug/kg dry	68	140	1	EPA 8260D Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	09/24/2024 12:38	09/25/2024 09:53	BMC
78-93-3	2-Butanone	ND		ug/kg dry	3.4	6.8	1	EPA 8260D Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	09/24/2024 12:38	09/25/2024 09:53	BMC
67-64-1	Acetone	ND		ug/kg dry	6.8	14	1	EPA 8260D Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	09/24/2024 12:38	09/25/2024 09:53	BMC
71-43-2	Benzene	ND		ug/kg dry	3.4	6.8	1	EPA 8260D Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	09/24/2024 12:38	09/25/2024 09:53	BMC
56-23-5	Carbon tetrachloride	ND		ug/kg dry	3.4	6.8	1	EPA 8260D Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	09/24/2024 12:38	09/25/2024 09:53	BMC
108-90-7	Chlorobenzene	ND		ug/kg dry	3.4	6.8	1	EPA 8260D Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	09/24/2024 12:38	09/25/2024 09:53	BMC
67-66-3	Chloroform	ND		ug/kg dry	3.4	6.8	1	EPA 8260D Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	09/24/2024 12:38	09/25/2024 09:53	BMC
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	3.4	6.8	1	EPA 8260D Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	09/24/2024 12:38	09/25/2024 09:53	BMC
100-41-4	Ethyl Benzene	ND		ug/kg dry	3.4	6.8	1	EPA 8260D Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	09/24/2024 12:38	09/25/2024 09:53	BMC
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	3.4	6.8	1	EPA 8260D Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	09/24/2024 12:38	09/25/2024 09:53	BMC
75-09-2	Methylene chloride	ND		ug/kg dry	6.8	14	1	EPA 8260D Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	09/24/2024 12:38	09/25/2024 09:53	BMC
91-20-3	Naphthalene	ND		ug/kg dry	3.4	14	1	EPA 8260D Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	09/24/2024 12:38	09/25/2024 09:53	BMC
104-51-8	n-Butylbenzene	ND		ug/kg dry	3.4	6.8	1	EPA 8260D Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	09/24/2024 12:38	09/25/2024 09:53	BMC
103-65-1	n-Propylbenzene	ND		ug/kg dry	3.4	6.8	1	EPA 8260D Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	09/24/2024 12:38	09/25/2024 09:53	BMC



Sample Information

<u>Client Sample ID:</u> Grab			<u>York Sample ID:</u> 24I1279-01	
<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
24I1279	286 Richmond Valley Rd Staten Island, NY A22-115.7 JB	Soil	September 19, 2024 12:30 pm	09/20/2024

Volatile Organics, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-47-6	o-Xylene	ND		ug/kg dry	3.4	6.8	1	EPA 8260D Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68	09/24/2024 12:38	09/25/2024 09:53	BMC
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	6.8	14	1	EPA 8260D Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68	09/24/2024 12:38	09/25/2024 09:53	BMC
135-98-8	sec-Butylbenzene	ND		ug/kg dry	3.4	6.8	1	EPA 8260D Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	09/24/2024 12:38	09/25/2024 09:53	BMC
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.4	6.8	1	EPA 8260D Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	09/24/2024 12:38	09/25/2024 09:53	BMC
127-18-4	Tetrachloroethylene	ND		ug/kg dry	3.4	6.8	1	EPA 8260D Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	09/24/2024 12:38	09/25/2024 09:53	BMC
108-88-3	Toluene	ND		ug/kg dry	3.4	6.8	1	EPA 8260D Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	09/24/2024 12:38	09/25/2024 09:53	BMC
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	3.4	6.8	1	EPA 8260D Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	09/24/2024 12:38	09/25/2024 09:53	BMC
79-01-6	Trichloroethylene	ND		ug/kg dry	3.4	6.8	1	EPA 8260D Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	09/24/2024 12:38	09/25/2024 09:53	BMC
75-01-4	Vinyl Chloride	ND		ug/kg dry	3.4	6.8	1	EPA 8260D Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	09/24/2024 12:38	09/25/2024 09:53	BMC
1330-20-7	Xylenes, Total	ND		ug/kg dry	10	20	1	EPA 8260D Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	09/24/2024 12:38	09/25/2024 09:53	BMC
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	107 %	77-125								
2037-26-5	Surrogate: SURR: Toluene-d8	87.5 %	85-120								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	105 %	76-130								

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	95.7		%	0.100	1	SM 2540G Certifications: CTDOH-PH-0723	09/26/2024 12:00	09/26/2024 16:51	AC

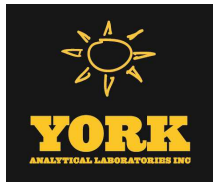
Sample Information

<u>Client Sample ID:</u> Composite			<u>York Sample ID:</u>	24I1279-02
<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
24I1279	286 Richmond Valley Rd Staten Island, NY A22-115.7 JB	Soil	September 19, 2024 12:35 pm	09/20/2024

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: Composite

York Sample ID: 24I1279-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

24I1279

286 Richmond Valley Rd Staten Island, NY A22-115.7 JB

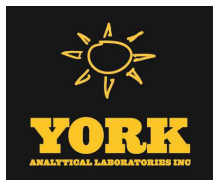
Soil

September 19, 2024 12:35 pm

09/20/2024

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/kg dry	44.4	88.6	2	EPA 8270E Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	09/25/2024 12:13	09/26/2024 12:19	LL
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	44.4	88.6	2	EPA 8270E Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	09/25/2024 12:13	09/26/2024 12:19	LL
83-32-9	Acenaphthene	ND		ug/kg dry	44.4	88.6	2	EPA 8270E Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	09/25/2024 12:13	09/26/2024 12:19	LL
208-96-8	Acenaphthylene	ND		ug/kg dry	44.4	88.6	2	EPA 8270E Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	09/25/2024 12:13	09/26/2024 12:19	LL
120-12-7	Anthracene	101		ug/kg dry	44.4	88.6	2	EPA 8270E Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	09/25/2024 12:13	09/26/2024 12:19	LL
56-55-3	Benzo(a)anthracene	241		ug/kg dry	44.4	88.6	2	EPA 8270E Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	09/25/2024 12:13	09/26/2024 12:19	LL
50-32-8	Benzo(a)pyrene	227		ug/kg dry	44.4	88.6	2	EPA 8270E Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	09/25/2024 12:13	09/26/2024 12:19	LL
205-99-2	Benzo(b)fluoranthene	294		ug/kg dry	44.4	88.6	2	EPA 8270E Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	09/25/2024 12:13	09/26/2024 12:19	LL
191-24-2	Benzo(g,h,i)perylene	154		ug/kg dry	44.4	88.6	2	EPA 8270E Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	09/25/2024 12:13	09/26/2024 12:19	LL
207-08-9	Benzo(k)fluoranthene	95.6		ug/kg dry	44.4	88.6	2	EPA 8270E Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	09/25/2024 12:13	09/26/2024 12:19	LL
218-01-9	Chrysene	227		ug/kg dry	44.4	88.6	2	EPA 8270E Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	09/25/2024 12:13	09/26/2024 12:19	LL
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	44.4	88.6	2	EPA 8270E Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	09/25/2024 12:13	09/26/2024 12:19	LL
132-64-9	Dibenzofuran	ND		ug/kg dry	44.4	88.6	2	EPA 8270E Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	09/25/2024 12:13	09/26/2024 12:19	LL
206-44-0	Fluoranthene	462		ug/kg dry	44.4	88.6	2	EPA 8270E Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	09/25/2024 12:13	09/26/2024 12:19	LL
86-73-7	Fluorene	ND		ug/kg dry	44.4	88.6	2	EPA 8270E Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	09/25/2024 12:13	09/26/2024 12:19	LL
118-74-1	Hexachlorobenzene	ND		ug/kg dry	44.4	88.6	2	EPA 8270E Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	09/25/2024 12:13	09/26/2024 12:19	LL
193-39-5	Indeno(1,2,3-cd)pyrene	168	CAL-E, CCVE	ug/kg dry	44.4	88.6	2	EPA 8270E Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	09/25/2024 12:13	09/26/2024 12:19	LL
91-20-3	Naphthalene	ND		ug/kg dry	44.4	88.6	2	EPA 8270E Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	09/25/2024 12:13	09/26/2024 12:19	LL
87-86-5	Pentachlorophenol	ND	CAL-E	ug/kg dry	44.4	88.6	2	EPA 8270E Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	09/25/2024 12:13	09/26/2024 12:19	LL
85-01-8	Phenanthrene	315		ug/kg dry	44.4	88.6	2	EPA 8270E Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	09/25/2024 12:13	09/26/2024 12:19	LL
108-95-2	Phenol	ND		ug/kg dry	44.4	88.6	2	EPA 8270E Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	09/25/2024 12:13	09/26/2024 12:19	LL
129-00-0	Pyrene	364		ug/kg dry	44.4	88.6	2	EPA 8270E Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	09/25/2024 12:13	09/26/2024 12:19	LL
Surrogate Recoveries		Result	Acceptance Range								
367-12-4	Surrogate: SURR: 2-Fluorophenol	72.3 %	20-108								



Sample Information

Client Sample ID: Composite

York Sample ID: 24I1279-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

24I1279

286 Richmond Valley Rd Staten Island, NY A22-115.7 JB

Soil

September 19, 2024 12:35 pm

09/20/2024

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
13127-88-3	Surrogate: SURR: Phenol-d6	71.2 %			23-114						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	69.8 %			22-108						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	75.9 %			21-113						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	99.0 %			19-110						
1718-51-0	Surrogate: SURR: Terphenyl-d14	77.0 %			24-116						

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	18.3	1	EPA 8270D SIM Certifications: NELAC-NY10854	09/23/2024 08:18	09/24/2024 13:59	LL
	Surrogate Recoveries	Result		Acceptance Range						
17647-74-4	Surrogate: 1,4-Dioxane-d8	54.4 %		39-127.5						

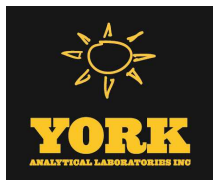
PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.119	0.189	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	09/23/2024 09:13	09/25/2024 01:51	AM
307-24-4	Perfluorohexanoic acid (PFHxA)	0.0829	J	ug/kg dry	0.0567	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	09/23/2024 09:13	09/25/2024 01:51	AM
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.112	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	09/23/2024 09:13	09/25/2024 01:51	AM
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.191	0.196	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	09/23/2024 09:13	09/25/2024 01:51	AM
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.184	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	09/23/2024 09:13	09/25/2024 01:51	AM
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.06		ug/kg dry	0.179	0.199	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	09/23/2024 09:13	09/25/2024 01:51	AM
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.202	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	09/23/2024 09:13	09/25/2024 01:51	AM
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.204	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	09/23/2024 09:13	09/25/2024 01:51	AM
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.212	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	09/23/2024 09:13	09/25/2024 01:51	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.174	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	09/23/2024 09:13	09/25/2024 01:51	AM
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.134	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	09/23/2024 09:13	09/25/2024 01:51	AM



Sample Information

Client Sample ID: Composite

York Sample ID: 24I1279-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

24I1279

286 Richmond Valley Rd Staten Island, NY A22-115.7 JB

Soil

September 19, 2024 12:35 pm

09/20/2024

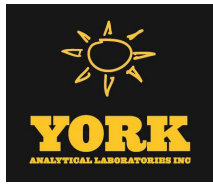
PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.110	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	09/23/2024 09:13	09/25/2024 01:51	AM
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.158	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	09/23/2024 09:13	09/25/2024 01:51	AM
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.207	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	09/23/2024 09:13	09/25/2024 01:51	AM
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.117	0.428	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	09/23/2024 09:13	09/25/2024 01:51	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.156	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	09/23/2024 09:13	09/25/2024 01:51	AM
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.166	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	09/23/2024 09:13	09/25/2024 01:51	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.204	0.206	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	09/23/2024 09:13	09/25/2024 01:51	AM
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.636	0.813	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	09/23/2024 09:13	09/25/2024 01:51	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.807	0.821	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	09/23/2024 09:13	09/25/2024 01:51	AM
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.117	0.855	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	09/23/2024 09:13	09/25/2024 01:51	AM
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND		ug/kg dry	0.149	0.381	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	09/23/2024 09:13	09/25/2024 01:51	AM
151772-58-6	* Perfluoro-3,6-dioxahheptanoic acid (NFDHA)	ND		ug/kg dry	0.206	0.428	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	09/23/2024 09:13	09/25/2024 01:51	AM
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0663	0.428	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	09/23/2024 09:13	09/25/2024 01:51	AM
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.103	0.428	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	09/23/2024 09:13	09/25/2024 01:51	AM
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.168	0.201	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	09/23/2024 09:13	09/25/2024 01:51	AM
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.636	0.802	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	09/23/2024 09:13	09/25/2024 01:51	AM
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.650	0.855	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	09/23/2024 09:13	09/25/2024 01:51	AM
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.332	0.808	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	09/23/2024 09:13	09/25/2024 01:51	AM
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.263	0.800	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	09/23/2024 09:13	09/25/2024 01:51	AM
919005-14-4	* ADONA	ND		ug/kg dry	0.186	0.808	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	09/23/2024 09:13	09/25/2024 01:51	AM
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.181	0.207	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	09/23/2024 09:13	09/25/2024 01:51	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.133	0.205	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	09/23/2024 09:13	09/25/2024 01:51	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.678	1.07	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	09/23/2024 09:13	09/25/2024 01:51	AM



Sample Information

Client Sample ID: Composite

York Sample ID: 24I1279-02

York Project (SDG) No.

Client Project ID

Matrix

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24I1279

286 Richmond Valley Rd Staten Island, NY A22-115.7 JB

Soil

September 19, 2024 12:35 pm

09/20/2024

PFAS, EPA 1633 Target List

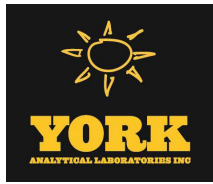
Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.24	5.35	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	09/23/2024 09:13	09/25/2024 01:51	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.60	5.35	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	09/23/2024 09:13	09/25/2024 01:51	AM
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.653	2.14	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	09/23/2024 09:13	09/25/2024 01:51	AM
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.192	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	09/23/2024 09:13	09/25/2024 01:51	AM
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.745	2.14	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	09/23/2024 09:13	09/25/2024 01:51	AM
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.212	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	09/23/2024 09:13	09/25/2024 01:51	AM

Surrogate Recoveries		Result	Acceptance Range	
M3PFBS	Surrogate: M3PFBS	109 %	25-150	
13C5PFHXA	Surrogate: M5PFHxA	105 %	25-150	
13C4PFHPA	Surrogate: M4PFHpA	93.0 %	25-150	
13C3PFHXS	Surrogate: M3PFHxS	104 %	25-150	
13C8PFOA	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	122 %	25-150	
13C6PFDA	Surrogate: M6PFDA	146 %	25-150	
13C7PFUNA	Surrogate: M7PFUdA	98.4 %	25-150	
960315-52-0	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	90.8 %	25-150	
13C2PFTEDA	Surrogate: M2PFTeDA	87.6 %	10-150	
13C4PFBA	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	109 %	25-150	
13C8PFOS	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	149 %	25-150	
13C5PFPEA	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	98.2 %	25-150	
13C8FOSA	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	115 %	10-150	
D3-NMEFOSAA	Surrogate: d3-N-MeFOSAA	152 %	PFSu-H	25-150
D5-NETFOSAA	Surrogate: d5-N-EtFOSAA	173 %	PFSu-H	25-150
M2-6:2FTS	Surrogate: M2-6:2 FTS	460 %	PFSu-H	25-200
M2-8:2FTS	Surrogate: M2-8:2 FTS	363 %	PFSu-H	25-200
13C9PFNA	Surrogate: M9PFNA	107 %		25-150
M2-4:2FTS	Surrogate: M2-4:2 FTS	556 %	PFSu-H	25-150
d-N-MeFOSA	Surrogate: d-N-MeFOSA	86.9 %		25-150
d-N-EtFOSA	Surrogate: d-N-EtFOSA	83.1 %		25-150
M3HFPO-DA	Surrogate: M3HFPO-DA	114 %		25-150
D9-NETPFOSAI	Surrogate: d9-N-EtFOSE	49.6 %		25-150
D7-NMEPFOSA	Surrogate: d7-N-MeFOSE	46.5 %		25-150



Sample Information

Client Sample ID: Composite

York Sample ID: 24I1279-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

24I1279

286 Richmond Valley Rd Staten Island, NY A22-115.7 JB

Soil

September 19, 2024 12:35 pm

09/20/2024

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	09/25/2024 12:09	09/26/2024 13:08	RJ
72-55-9	4,4'-DDE	3.21		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	09/25/2024 12:09	09/26/2024 13:08	RJ
50-29-3	4,4'-DDT	6.24		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	09/25/2024 12:09	09/26/2024 13:08	RJ
309-00-2	Aldrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	09/25/2024 12:09	09/26/2024 13:08	RJ
319-84-6	alpha-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	09/25/2024 12:09	09/26/2024 13:08	RJ
5103-71-9	alpha-Chlordane	29.5		ug/kg dry	1.64	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP-CT005	09/25/2024 12:09	09/26/2024 13:08	RJ
319-85-7	beta-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	09/25/2024 12:09	09/26/2024 13:08	RJ
319-86-8	delta-BHC	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	09/25/2024 12:09	09/26/2024 13:08	RJ
60-57-1	Dieldrin	3.70		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	09/25/2024 12:09	09/26/2024 13:08	RJ
959-98-8	Endosulfan I	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	09/25/2024 12:09	09/26/2024 13:08	RJ
33213-65-9	Endosulfan II	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854	09/25/2024 12:09	09/26/2024 13:08	RJ
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	09/25/2024 12:09	09/26/2024 13:08	RJ
72-20-8	Endrin	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	09/25/2024 12:09	09/26/2024 13:08	RJ
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	09/25/2024 12:09	09/26/2024 13:08	RJ
76-44-8	Heptachlor	3.04		ug/kg dry	1.64	5	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	09/25/2024 12:09	09/26/2024 13:08	RJ
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	54.5 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	61.2 %	30-150							

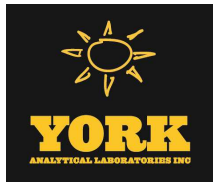
Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	09/25/2024 12:09	09/26/2024 12:45	NF
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	09/25/2024 12:09	09/26/2024 12:45	NF



Sample Information

Client Sample ID: Composite

York Sample ID: 24I1279-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

24I1279

286 Richmond Valley Rd Staten Island, NY A22-115.7 JB

Soil

September 19, 2024 12:35 pm

09/20/2024

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	09/25/2024 12:09	09/26/2024 12:45	NF
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	09/25/2024 12:09	09/26/2024 12:45	NF
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	09/25/2024 12:09	09/26/2024 12:45	NF
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	09/25/2024 12:09	09/26/2024 12:45	NF
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	09/25/2024 12:09	09/26/2024 12:45	NF
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications:	09/25/2024 12:09	09/26/2024 12:45	NF
Surrogate Recoveries		Result	Acceptance Range							
877-09-8	Surrogate: Tetrachloro-m-xylene	49.0 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	43.5 %	30-140							

Herbicides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-72-1	2,4,5-TP (Silvex)	ND		ug/kg dry	21.4	1	EPA 8151A Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	09/25/2024 08:47	09/25/2024 17:13	GXB
Surrogate Recoveries		Result	Acceptance Range							
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	54.2 %	21-150							

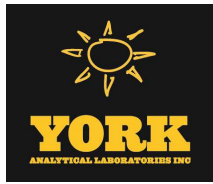
Metals, NYSDEC Part 375

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	6.08		mg/kg dry	1.35	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	09/24/2024 14:52	09/26/2024 10:25	AGNR
7440-39-3	Barium	49.6		mg/kg dry	2.25	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	09/24/2024 14:52	09/26/2024 10:25	AGNR
7440-41-7	Beryllium	0.126		mg/kg dry	0.045	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	09/24/2024 14:52	09/26/2024 10:25	AGNR
7440-43-9	Cadmium	ND		mg/kg dry	0.270	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	09/24/2024 14:52	09/26/2024 10:25	AGNR
7440-47-3	Chromium	20.2		mg/kg dry	0.450	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	09/24/2024 14:52	09/26/2024 10:25	AGNR
7440-50-8	Copper	101		mg/kg dry	1.80	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	09/24/2024 14:52	09/26/2024 10:25	AGNR



Sample Information

Client Sample ID: Composite

York Sample ID: 24I1279-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

24I1279

286 Richmond Valley Rd Staten Island, NY A22-115.7 JB

Soil

September 19, 2024 12:35 pm

09/20/2024

Metals, NYSDEC Part 375

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	79.9		mg/kg dry	0.450	1	EPA 6010D	09/24/2024 14:52	09/26/2024 10:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	Manganese	210		mg/kg dry	0.450	1	EPA 6010D	09/24/2024 14:52	09/26/2024 10:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	Nickel	26.4		mg/kg dry	0.896	1	EPA 6010D	09/24/2024 14:52	09/26/2024 10:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	Selenium	ND		mg/kg dry	2.25	1	EPA 6010D	09/24/2024 14:52	09/26/2024 10:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/kg dry	0.454	1	EPA 6010D	09/24/2024 14:52	09/26/2024 10:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	Zinc	90.8		mg/kg dry	2.24	1	EPA 6010D	09/24/2024 14:52	09/26/2024 10:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.107		mg/kg dry	0.0324	1	EPA 7473	09/24/2024 15:34	09/25/2024 14:00	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.540	1	EPA 7196A	09/25/2024 09:18	09/25/2024 16:21	JAMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04		

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.540	1	EPA 9014/9010C	09/24/2024 07:57	09/24/2024 14:26	PMB
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

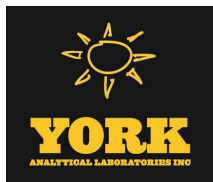
Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	92.6		%	0.100	1	SM 2540G	09/24/2024 08:33	09/24/2024 11:45	GJK
							Certifications:	CTDOH-PH-0723		



Sample Information

Client Sample ID: Equipment Blank

York Sample ID: 24I1279-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

24I1279

286 Richmond Valley Rd Staten Island, NY A22-115.7 JB

Water

September 19, 2024 12:35 pm

09/20/2024

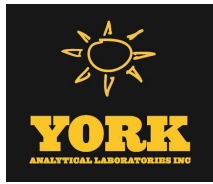
PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	0.502	1.89	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	09/29/2024 10:17	09/30/2024 08:33	AM
307-24-4	Perfluorohexanoic acid (PFHxA)	0.452	J	ng/L	0.374	2.14	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	09/29/2024 10:17	09/30/2024 08:33	AM
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ng/L	0.759	2.14	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	09/29/2024 10:17	09/30/2024 08:33	AM
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	0.726	1.96	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	09/29/2024 10:17	09/30/2024 08:33	AM
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ng/L	0.449	2.14	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	09/29/2024 10:17	09/30/2024 08:33	AM
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	0.876	1.99	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	09/29/2024 10:17	09/30/2024 08:33	AM
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	0.556	2.14	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	09/29/2024 10:17	09/30/2024 08:33	AM
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.801	2.14	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	09/29/2024 10:17	09/30/2024 08:33	AM
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.21	2.14	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	09/29/2024 10:17	09/30/2024 08:33	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.940	2.14	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	09/29/2024 10:17	09/30/2024 08:33	AM
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.791	2.14	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	09/29/2024 10:17	09/30/2024 08:33	AM
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.737	2.14	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	09/29/2024 10:17	09/30/2024 08:33	AM
2355-31-9	N-MeFOSAA	ND		ng/L	0.844	2.14	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	09/29/2024 10:17	09/30/2024 08:33	AM
2991-50-6	N-EtFOSAA	ND		ng/L	1.10	2.14	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	09/29/2024 10:17	09/30/2024 08:33	AM
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ng/L	0.246	4.27	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	09/29/2024 10:17	09/30/2024 08:33	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.940	2.14	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	09/29/2024 10:17	09/30/2024 08:33	AM
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.972	2.04	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	09/29/2024 10:17	09/30/2024 08:33	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.41	2.06	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	09/29/2024 10:17	09/30/2024 08:33	AM
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	4.75	J	ng/L	1.13	8.12	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	09/29/2024 10:17	09/30/2024 08:33	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	3.09	J	ng/L	2.19	8.21	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	09/29/2024 10:17	09/30/2024 08:33	AM
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	0.353	8.55	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	09/29/2024 10:17	09/30/2024 08:33	AM
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND		ng/L	0.534	3.80	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	09/29/2024 10:17	09/30/2024 08:33	AM



Sample Information

Client Sample ID: Equipment Blank

York Sample ID: 24I1279-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24I1279	286 Richmond Valley Rd Staten Island, NY A22-115.7 JB	Water	September 19, 2024 12:35 pm	09/20/2024

PFAS, EPA 1633 Target List

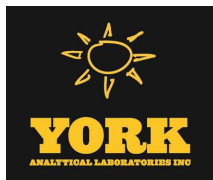
Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	2.29	4.27	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	09/29/2024 10:17	09/30/2024 08:33	AM
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ng/L	0.267	4.27	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	09/29/2024 10:17	09/30/2024 08:33	AM
863090-89-5	Perfluoro-5-oxaheptanoic acid (PFMBA)	ND		ng/L	0.395	4.27	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	09/29/2024 10:17	09/30/2024 08:33	AM
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.812	2.01	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	09/29/2024 10:17	09/30/2024 08:33	AM
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.91	8.01	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	09/29/2024 10:17	09/30/2024 08:33	AM
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.45	8.55	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	09/29/2024 10:17	09/30/2024 08:33	AM
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.47	8.08	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	09/29/2024 10:17	09/30/2024 08:33	AM
756426-58-1	9CL-PF3ONS	ND		ng/L	0.748	7.99	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	09/29/2024 10:17	09/30/2024 08:33	AM
919005-14-4	ADONA	ND		ng/L	0.566	8.08	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	09/29/2024 10:17	09/30/2024 08:33	AM
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND	PF-CCV -L	ng/L	0.994	2.07	1	EPA 1633 Draft 3 Certifications:	09/29/2024 10:17	09/30/2024 08:33	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.919	2.05	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	09/29/2024 10:17	09/30/2024 08:33	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	2.17	5.34	1	EPA 1633 Draft 3 Certifications:	09/29/2024 10:17	09/30/2024 08:33	AM
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	7.83	26.7	1	EPA 1633 Draft 3 Certifications:	09/29/2024 10:17	09/30/2024 08:33	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	10.1	26.7	1	EPA 1633 Draft 3 Certifications:	09/29/2024 10:17	09/30/2024 08:33	AM
24448-09-7	* N-MeFOSE	ND		ng/L	4.26	21.4	1	EPA 1633 Draft 3 Certifications:	09/29/2024 10:17	09/30/2024 08:33	AM
31506-32-8	* N-MeFOSA	ND		ng/L	1.69	2.14	1	EPA 1633 Draft 3 Certifications:	09/29/2024 10:17	09/30/2024 08:33	AM
1691-99-2	* N-EtFOSE	ND		ng/L	4.26	21.4	1	EPA 1633 Draft 3 Certifications:	09/29/2024 10:17	09/30/2024 08:33	AM
4151-50-2	* N-EtFOSA	ND		ng/L	1.92	2.14	1	EPA 1633 Draft 3 Certifications:	09/29/2024 10:17	09/30/2024 08:33	AM

Surrogate Recoveries		Result	Acceptance Range
M3PFBS	Surrogate: M3PFBS	88.8 %	25-150
13C5PFHXA	Surrogate: M5PFHxA	132 %	25-150
13C4PFHPA	Surrogate: M4PFHpA	98.3 %	25-150
13C3PFHXS	Surrogate: M3PFHxS	90.1 %	25-150
13C8PFOA	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	116 %	25-150
13C6PFDA	Surrogate: M6PFDA	133 %	25-150
13C7PFUNA	Surrogate: M7PFUdA	78.2 %	25-150



Sample Information

Client Sample ID: Equipment Blank

York Sample ID: 24I1279-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

24I1279

286 Richmond Valley Rd Staten Island, NY A22-115.7 JB

Water

September 19, 2024 12:35 pm

09/20/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
960315-52-0	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	76.3 %			25-150						
13C2PFTEDA	Surrogate: M2PFTeDA	75.3 %			10-150						
13C4PFBA	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	1.98 %	PFSu-L		25-150						
13C8PFOS	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	147 %			25-150						
13C5PFPEA	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	104 %			25-150						
13C8FOSA	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	132 %			10-150						
D3-NMEFOSAA	Surrogate: d3-N-MeFOSAA	129 %			25-150						
D5-NETFOSAA	Surrogate: d5-N-EtFOSAA	147 %			25-150						
M2-6:2FTS	Surrogate: M2-6:2 FTS	351 %	PFSu-H		25-200						
M2-8:2FTS	Surrogate: M2-8:2 FTS	190 %			25-200						
13C9PFNA	Surrogate: M9PFNA	120 %			25-150						
M2-4:2FTS	Surrogate: M2-4:2 FTS	580 %	PFSu-H		25-150						
d-N-MeFOSA	Surrogate: d-N-MeFOSA	112 %			25-150						
d-N-EtFOSA	Surrogate: d-N-EtFOSA	94.6 %			25-150						
M3HFPO-DA	Surrogate: M3HFPO-DA	133 %			25-150						
D9-NETPFOSAI	Surrogate: d9-N-EtFOSE	49.7 %			25-150						
D7-NMEPFOSA	Surrogate: d7-N-MeFOSE	54.1 %			25-150						

Sample Information

Client Sample ID: Trip Blank

York Sample ID: 24I1279-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

24I1279

286 Richmond Valley Rd Staten Island, NY A22-115.7 JB

Water

September 19, 2024 8:30 am

09/20/2024

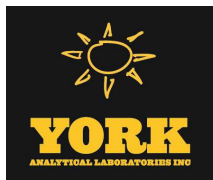
Volatile Organics, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68	09/23/2024 12:58	09/23/2024 17:25	BMC
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68	09/23/2024 12:58	09/23/2024 17:25	BMC
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68	09/23/2024 12:58	09/23/2024 17:25	BMC



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 24I1279-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

24I1279

286 Richmond Valley Rd Staten Island, NY A22-115.7 JB

Water

September 19, 2024 8:30 am

09/20/2024

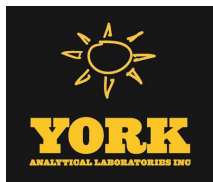
Volatile Organics, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	09/23/2024 12:58	09/23/2024 17:25	BMC
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	09/23/2024 12:58	09/23/2024 17:25	BMC
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	09/23/2024 12:58	09/23/2024 17:25	BMC
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	09/23/2024 12:58	09/23/2024 17:25	BMC
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	09/23/2024 12:58	09/23/2024 17:25	BMC
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	09/23/2024 12:58	09/23/2024 17:25	BMC
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260D Certifications:	09/23/2024 12:58	09/23/2024 17:25	BMC
78-93-3	2-Butanone	0.63		ug/L	0.20	0.50	1	EPA 8260D Certifications:	09/23/2024 12:58	09/23/2024 17:25	BMC
67-64-1	Acetone	1.4	J	ug/L	1.0	2.0	1	EPA 8260D Certifications:	09/23/2024 12:58	09/23/2024 17:25	BMC
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	09/23/2024 12:58	09/23/2024 17:25	BMC
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	09/23/2024 12:58	09/23/2024 17:25	BMC
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	09/23/2024 12:58	09/23/2024 17:25	BMC
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	09/23/2024 12:58	09/23/2024 17:25	BMC
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	09/23/2024 12:58	09/23/2024 17:25	BMC
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	09/23/2024 12:58	09/23/2024 17:25	BMC
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	09/23/2024 12:58	09/23/2024 17:25	BMC
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260D Certifications:	09/23/2024 12:58	09/23/2024 17:25	BMC
91-20-3	Naphthalene	ND	CCVE	ug/L	1.0	2.0	1	EPA 8260D Certifications:	09/23/2024 12:58	09/23/2024 17:25	BMC
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	09/23/2024 12:58	09/23/2024 17:25	BMC
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	09/23/2024 12:58	09/23/2024 17:25	BMC
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	09/23/2024 12:58	09/23/2024 17:25	BMC
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260D Certifications:	09/23/2024 12:58	09/23/2024 17:25	BMC
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	09/23/2024 12:58	09/23/2024 17:25	BMC



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 24I1279-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

24I1279

286 Richmond Valley Rd Staten Island, NY A22-115.7 JB

Water

September 19, 2024 8:30 am

09/20/2024

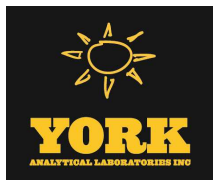
Volatile Organics, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-	09/23/2024 12:58	09/23/2024 17:25	BMC
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-	09/23/2024 12:58	09/23/2024 17:25	BMC
108-88-3	Toluene	0.25	J	ug/L	0.20	0.50	1	EPA 8260D Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-	09/23/2024 12:58	09/23/2024 17:25	BMC
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-	09/23/2024 12:58	09/23/2024 17:25	BMC
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-	09/23/2024 12:58	09/23/2024 17:25	BMC
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-	09/23/2024 12:58	09/23/2024 17:25	BMC
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260D Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	09/23/2024 12:58	09/23/2024 17:25	BMC
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	87.1 %			69-130						
2037-26-5	Surrogate: SURR: Toluene-d8	140 %	S-03, S-08		81-117						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	95.0 %			79-122						



Analytical Batch Summary

Batch ID: BI41376 **Preparation Method:** EPA 3550C **Prepared By:** JLM

YORK Sample ID	Client Sample ID	Preparation Date
24I1279-02	Composite	09/23/24
BI41376-BLK1	Blank	09/23/24
BI41376-BS1	LCS	09/23/24

Batch ID: BI41391 **Preparation Method:** EPA 1633 Prep **Prepared By:** SK2

YORK Sample ID	Client Sample ID	Preparation Date
24I1279-02	Composite	09/23/24
BI41391-BLK1	Blank	09/23/24
BI41391-BS1	LCS	09/23/24
BI41391-BS2	LCS	09/23/24

Batch ID: BI41474 **Preparation Method:** Analysis Preparation Soil **Prepared By:** PMB

YORK Sample ID	Client Sample ID	Preparation Date
24I1279-02	Composite	09/24/24
BI41474-BLK1	Blank	09/24/24
BI41474-SRM1	Reference	09/24/24

Batch ID: BI41487 **Preparation Method:** % Solids Prep **Prepared By:** HLY

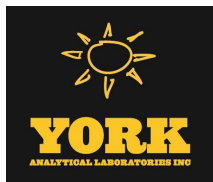
YORK Sample ID	Client Sample ID	Preparation Date
24I1279-02	Composite	09/24/24
BI41487-DUP1	Duplicate	09/24/24

Batch ID: BI41516 **Preparation Method:** EPA 5030B **Prepared By:** BMC

YORK Sample ID	Client Sample ID	Preparation Date
24I1279-04	Trip Blank	09/23/24
BI41516-BLK1	Blank	09/23/24
BI41516-BS1	LCS	09/23/24
BI41516-BSD1	LCS Dup	09/23/24

Batch ID: BI41534 **Preparation Method:** EPA 3050B **Prepared By:** KMQ

YORK Sample ID	Client Sample ID	Preparation Date
24I1279-02	Composite	09/24/24
BI41534-BLK1	Blank	09/24/24
BI41534-SRM1	Reference	09/24/24



Batch ID: BI41539

Preparation Method: EPA 7473 soil

Prepared By: DRS

YORK Sample ID	Client Sample ID	Preparation Date
24I1279-02	Composite	09/24/24
BI41539-BLK1	Blank	09/24/24
BI41539-SRM1	Reference	09/24/24

Batch ID: BI41588

Preparation Method: EPA 3550C/8151A

Prepared By: SAC

YORK Sample ID	Client Sample ID	Preparation Date
24I1279-02	Composite	09/25/24
BI41588-BLK1	Blank	09/25/24
BI41588-BS1	LCS	09/25/24

Batch ID: BI41595

Preparation Method: EPA SW846-3060

Prepared By: JAMT

YORK Sample ID	Client Sample ID	Preparation Date
24I1279-02	Composite	09/25/24
BI41595-BLK1	Blank	09/25/24
BI41595-SRM1	Reference	09/25/24

Batch ID: BI41601

Preparation Method: EPA 5035A

Prepared By: BMC

YORK Sample ID	Client Sample ID	Preparation Date
24I1279-01	Grab	09/24/24
BI41601-BLK1	Blank	09/24/24
BI41601-BS1	LCS	09/24/24
BI41601-BSD1	LCS Dup	09/24/24

Batch ID: BI41607

Preparation Method: EPA 3550C

Prepared By: SAC

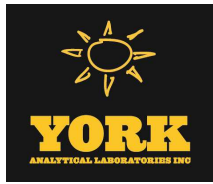
YORK Sample ID	Client Sample ID	Preparation Date
24I1279-02	Composite	09/25/24
24I1279-02	Composite	09/25/24
BI41607-BLK1	Blank	09/25/24
BI41607-BLK2	Blank	09/25/24
BI41607-BS1	LCS	09/25/24
BI41607-BS2	LCS	09/25/24

Batch ID: BI41608

Preparation Method: EPA 3550C

Prepared By: SAC

YORK Sample ID	Client Sample ID	Preparation Date
24I1279-02	Composite	09/25/24
BI41608-BLK1	Blank	09/25/24
BI41608-BS1	LCS	09/25/24

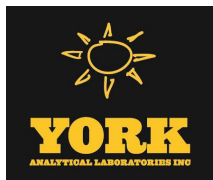


Batch ID: BI41699 **Preparation Method:** % Solids Prep **Prepared By:** AC

YORK Sample ID	Client Sample ID	Preparation Date
24I1279-01	Grab	09/26/24

Batch ID: BI41864 **Preparation Method:** EPA 1633 Prep **Prepared By:** SAB

YORK Sample ID	Client Sample ID	Preparation Date
24I1279-03	Equipment Blank	09/29/24



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

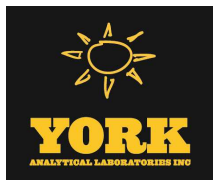
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BI41516 - EPA 5030B

Blank (BI41516-BLK1)

Prepared & Analyzed: 09/23/2024

1,1,1-Trichloroethane	ND	0.50	ug/L								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	80	"								
2-Butanone	ND	0.50	"								
Acetone	ND	2.0	"								
Benzene	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroform	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylene chloride	ND	2.0	"								
Naphthalene	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
sec-Butylbenzene	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	9.42		"	10.0		94.2	69-130				
Surrogate: SURR: Toluene-d8	10.8		"	10.0		108	81-117				
Surrogate: SURR: p-Bromofluorobenzene	11.7		"	10.0		117	79-122				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

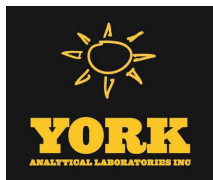
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BI41516 - EPA 5030B

LCS (BI41516-BS1)

Prepared & Analyzed: 09/23/2024

1,1,1-Trichloroethane	8.8		ug/L	10.0		88.0	78-136				
1,1-Dichloroethane	9.0		"	10.0		89.8	82-129				
1,1-Dichloroethylene	10		"	10.0		103	68-138				
1,2,4-Trimethylbenzene	11		"	10.0		114	82-132				
1,2-Dichlorobenzene	10		"	10.0		102	79-123				
1,2-Dichloroethane	8.8		"	10.0		88.1	73-132				
1,3,5-Trimethylbenzene	12		"	10.0		121	80-131				
1,3-Dichlorobenzene	11		"	10.0		109	86-122				
1,4-Dichlorobenzene	10		"	10.0		105	85-124				
1,4-Dioxane	190		"	210		91.5	10-349				
2-Butanone	7.8		"	10.0		77.9	49-152				
Acetone	7.3		"	10.0		72.8	14-150				
Benzene	9.4		"	10.0		94.5	85-126				
Carbon tetrachloride	9.0		"	10.0		89.7	77-141				
Chlorobenzene	9.7		"	10.0		96.9	88-120				
Chloroform	9.1		"	10.0		91.4	82-128				
cis-1,2-Dichloroethylene	9.0		"	10.0		90.4	83-129				
Ethyl Benzene	10		"	10.0		104	80-131				
Methyl tert-butyl ether (MTBE)	9.1		"	10.0		91.0	76-135				
Methylene chloride	8.9		"	10.0		89.3	55-137				
Naphthalene	9.8		"	10.0		97.6	70-147				
n-Butylbenzene	12		"	10.0		115	79-132				
n-Propylbenzene	12		"	10.0		124	78-133				
o-Xylene	9.8		"	10.0		98.5	78-130				
p- & m- Xylenes	21		"	20.0		103	77-133				
sec-Butylbenzene	12		"	10.0		122	79-137				
tert-Butylbenzene	11		"	10.0		109	77-138				
Tetrachloroethylene	9.5		"	10.0		94.7	82-131				
Toluene	10		"	10.0		103	80-127				
trans-1,2-Dichloroethylene	9.4		"	10.0		93.5	80-132				
Trichloroethylene	10		"	10.0		101	82-128				
Vinyl Chloride	11		"	10.0		109	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	9.27		"	10.0		92.7	69-130				
Surrogate: SURR: Toluene-d8	10.6		"	10.0		106	81-117				
Surrogate: SURR: p-Bromofluorobenzene	11.1		"	10.0		111	79-122				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

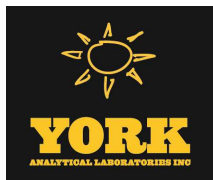
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BI41516 - EPA 5030B

LCS Dup (BI41516-BS01)

Prepared & Analyzed: 09/23/2024

1,1,1-Trichloroethane	9.1		ug/L	10.0		91.1	78-136		3.46	30
1,1-Dichloroethane	9.2		"	10.0		92.2	82-129		2.64	30
1,1-Dichloroethylene	11		"	10.0		106	68-138		3.44	30
1,2,4-Trimethylbenzene	12		"	10.0		119	82-132		3.95	30
1,2-Dichlorobenzene	10		"	10.0		103	79-123		0.778	30
1,2-Dichloroethane	9.0		"	10.0		89.7	73-132		1.80	30
1,3,5-Trimethylbenzene	13		"	10.0		128	80-131		4.98	30
1,3-Dichlorobenzene	11		"	10.0		111	86-122		1.64	30
1,4-Dichlorobenzene	11		"	10.0		107	85-124		1.99	30
1,4-Dioxane	220		"	210		104	10-349		12.4	30
2-Butanone	9.3		"	10.0		92.8	49-152		17.5	30
Acetone	7.3		"	10.0		73.1	14-150		0.411	30
Benzene	9.8		"	10.0		97.9	85-126		3.53	30
Carbon tetrachloride	9.2		"	10.0		92.2	77-141		2.75	30
Chlorobenzene	10		"	10.0		99.9	88-120		3.05	30
Chloroform	9.1		"	10.0		90.7	82-128		0.769	30
cis-1,2-Dichloroethylene	9.2		"	10.0		91.7	83-129		1.43	30
Ethyl Benzene	11		"	10.0		108	80-131		3.68	30
Methyl tert-butyl ether (MTBE)	8.8		"	10.0		87.6	76-135		3.81	30
Methylene chloride	9.0		"	10.0		90.3	55-137		1.11	30
Naphthalene	10		"	10.0		105	70-147		7.02	30
n-Butylbenzene	12		"	10.0		118	79-132		2.40	30
n-Propylbenzene	13		"	10.0		132	78-133		5.93	30
o-Xylene	10		"	10.0		101	78-130		2.21	30
p- & m- Xylenes	21		"	20.0		106	77-133		3.50	30
sec-Butylbenzene	13		"	10.0		128	79-137		4.89	30
tert-Butylbenzene	12		"	10.0		115	77-138		5.71	30
Tetrachloroethylene	10		"	10.0		101	82-131		6.34	30
Toluene	11		"	10.0		107	80-127		4.29	30
trans-1,2-Dichloroethylene	9.8		"	10.0		97.5	80-132		4.19	30
Trichloroethylene	11		"	10.0		106	82-128		4.62	30
Vinyl Chloride	12		"	10.0		116	58-145		6.13	30
Surrogate: SURR: 1,2-Dichloroethane-d4	9.50		"	10.0		95.0	69-130			
Surrogate: SURR: Toluene-d8	10.9		"	10.0		109	81-117			
Surrogate: SURR: p-Bromofluorobenzene	11.5		"	10.0		115	79-122			



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

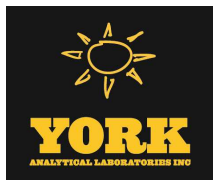
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BI41601 - EPA 5035A

Blank (BI41601-BLK1)

Prepared: 09/24/2024 Analyzed: 09/25/2024

1,1,1-Trichloroethane	ND	5.0	ug/kg wet								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	ND	5.0	"								
1,3,5-Trimethylbenzene	ND	5.0	"								
1,3-Dichlorobenzene	ND	5.0	"								
1,4-Dichlorobenzene	ND	5.0	"								
1,4-Dioxane	ND	100	"								
2-Butanone	ND	5.0	"								
Acetone	ND	10	"								
Benzene	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroform	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylene chloride	ND	10	"								
Naphthalene	ND	10	"								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
sec-Butylbenzene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	48.8		ug/L	50.0		97.5	77-125				
Surrogate: SURR: Toluene-d8	42.8		"	50.0		85.5	85-120				
Surrogate: SURR: p-Bromofluorobenzene	49.8		"	50.0		99.7	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

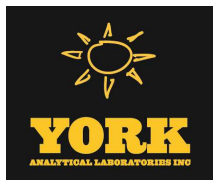
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BI41601 - EPA 5035A

LCS (BI41601-BS1)

Prepared: 09/24/2024 Analyzed: 09/25/2024

1,1,1-Trichloroethane	54		ug/L	50.0		109	71-137				
1,1-Dichloroethane	56		"	50.0		113	75-130				
1,1-Dichloroethylene	61		"	50.0		121	64-137				
1,2,4-Trimethylbenzene	45		"	50.0		90.4	84-125				
1,2-Dichlorobenzene	45		"	50.0		89.1	85-122				
1,2-Dichloroethane	55		"	50.0		109	71-133				
1,3,5-Trimethylbenzene	45		"	50.0		89.7	82-126				
1,3-Dichlorobenzene	43		"	50.0		85.5	84-124				
1,4-Dichlorobenzene	43		"	50.0		85.7	84-124				
1,4-Dioxane	890		"	1050		84.4	10-228				
2-Butanone	52		"	50.0		104	58-147				
Acetone	37		"	50.0		73.4	36-155				
Benzene	59		"	50.0		117	77-127				
Carbon tetrachloride	58		"	50.0		115	66-143				
Chlorobenzene	45		"	50.0		90.2	86-120				
Chloroform	56		"	50.0		112	76-131				
cis-1,2-Dichloroethylene	61		"	50.0		121	74-132				
Ethyl Benzene	47		"	50.0		93.5	84-125				
Methyl tert-butyl ether (MTBE)	56		"	50.0		112	74-131				
Methylene chloride	54		"	50.0		109	57-141				
Naphthalene	44		"	50.0		88.3	86-141				
n-Butylbenzene	44		"	50.0		88.3	80-130				
n-Propylbenzene	45		"	50.0		89.8	74-136				
o-Xylene	44		"	50.0		88.6	83-123				
p- & m- Xylenes	89		"	100		89.2	82-128				
sec-Butylbenzene	45		"	50.0		90.7	83-125				
tert-Butylbenzene	46		"	50.0		91.6	80-127				
Tetrachloroethylene	41		"	50.0		82.9	80-129				
Toluene	46		"	50.0		91.8	85-121				
trans-1,2-Dichloroethylene	59		"	50.0		118	72-132				
Trichloroethylene	46		"	50.0		91.1	84-123				
Vinyl Chloride	52		"	50.0		104	52-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	47.9		"	50.0		95.8	77-125				
Surrogate: SURR: Toluene-d8	43.9		"	50.0		87.8	85-120				
Surrogate: SURR: p-Bromofluorobenzene	51.4		"	50.0		103	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

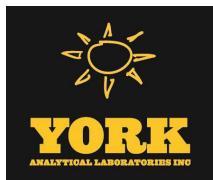
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BI41601 - EPA 5035A

LCS Dup (BI41601-BSD1)

Prepared: 09/24/2024 Analyzed: 09/25/2024

1,1,1-Trichloroethane	57		ug/L	50.0		114	71-137		4.91	30	
1,1-Dichloroethane	58		"	50.0		117	75-130		3.36	30	
1,1-Dichloroethylene	61		"	50.0		121	64-137		0.0659	30	
1,2,4-Trimethylbenzene	45		"	50.0		90.9	84-125		0.618	30	
1,2-Dichlorobenzene	44		"	50.0		87.3	85-122		2.00	30	
1,2-Dichloroethane	58		"	50.0		116	71-133		5.65	30	
1,3,5-Trimethylbenzene	45		"	50.0		89.2	82-126		0.559	30	
1,3-Dichlorobenzene	45		"	50.0		89.1	84-124		4.08	30	
1,4-Dichlorobenzene	43		"	50.0		86.4	84-124		0.813	30	
1,4-Dioxane	760		"	1050		72.5	10-228		15.2	30	
2-Butanone	43		"	50.0		86.9	58-147		17.5	30	
Acetone	38		"	50.0		76.2	36-155		3.77	30	
Benzene	59		"	50.0		119	77-127		1.30	30	
Carbon tetrachloride	59		"	50.0		119	66-143		2.82	30	
Chlorobenzene	46		"	50.0		91.2	86-120		1.12	30	
Chloroform	59		"	50.0		118	76-131		5.16	30	
cis-1,2-Dichloroethylene	56		"	50.0		112	74-132		7.72	30	
Ethyl Benzene	48		"	50.0		95.5	84-125		2.12	30	
Methyl tert-butyl ether (MTBE)	58		"	50.0		116	74-131		3.94	30	
Methylene chloride	55		"	50.0		110	57-141		1.30	30	
Naphthalene	44		"	50.0		88.7	86-141		0.497	30	
n-Butylbenzene	45		"	50.0		90.0	80-130		1.88	30	
n-Propylbenzene	45		"	50.0		89.8	74-136		0.0223	30	
o-Xylene	46		"	50.0		91.4	83-123		3.04	30	
p- & m- Xylenes	92		"	100		91.8	82-128		2.93	30	
sec-Butylbenzene	45		"	50.0		90.9	83-125		0.286	30	
tert-Butylbenzene	46		"	50.0		91.0	80-127		0.613	30	
Tetrachloroethylene	42		"	50.0		83.9	80-129		1.20	30	
Toluene	46		"	50.0		92.7	85-121		0.976	30	
trans-1,2-Dichloroethylene	57		"	50.0		114	72-132		2.99	30	
Trichloroethylene	47		"	50.0		93.8	84-123		2.90	30	
Vinyl Chloride	53		"	50.0		106	52-130		1.81	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	50.0		"	50.0		99.9	77-125				
Surrogate: SURR: Toluene-d8	43.8		"	50.0		87.7	85-120				
Surrogate: SURR: p-Bromofluorobenzene	50.5		"	50.0		101	76-130				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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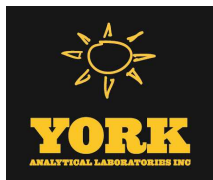
Batch BI41608 - EPA 3550C

Blank (BI41608-BLK1)

Prepared: 09/25/2024 Analyzed: 09/26/2024

2-Methylphenol	ND	41.6	ug/kg wet
3- & 4-Methylphenols	ND	41.6	"
Acenaphthene	ND	41.6	"
Acenaphthylene	ND	41.6	"
Anthracene	ND	41.6	"
Benzo(a)anthracene	ND	41.6	"
Benzo(a)pyrene	ND	41.6	"
Benzo(b)fluoranthene	ND	41.6	"
Benzo(g,h,i)perylene	ND	41.6	"
Benzo(k)fluoranthene	ND	41.6	"
Chrysene	ND	41.6	"
Dibenzo(a,h)anthracene	ND	41.6	"
Dibenzofuran	ND	41.6	"
Fluoranthene	ND	41.6	"
Fluorene	ND	41.6	"
Hexachlorobenzene	ND	41.6	"
Indeno(1,2,3-cd)pyrene	ND	41.6	"
Naphthalene	ND	41.6	"
Pentachlorophenol	ND	41.6	"
Phenanthrene	ND	41.6	"
Phenol	ND	41.6	"
Pyrene	ND	41.6	"

Surrogate: SURR: 2-Fluorophenol	1210	"	1660	73.0	20-108
Surrogate: SURR: Phenol-d6	1070	"	1660	64.7	23-114
Surrogate: SURR: Nitrobenzene-d5	631	"	831	75.9	22-108
Surrogate: SURR: 2-Fluorobiphenyl	560	"	831	67.4	21-113
Surrogate: SURR: 2,4,6-Tribromophenol	1010	"	1660	60.8	19-110
Surrogate: SURR: Terphenyl-d14	634	"	831	76.4	24-116



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

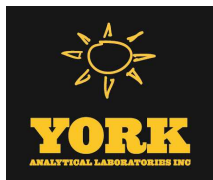
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BI41608 - EPA 3550C

LCS (BI41608-BS1)

Prepared: 09/25/2024 Analyzed: 09/26/2024

2-Methylphenol	616	41.6	ug/kg wet	1250		49.5	10-146				
3- & 4-Methylphenols	562	41.6	"	1250		45.1	20-109				
Acenaphthene	623	41.6	"	1250		50.0	17-124				
Acenaphthylene	639	41.6	"	1250		51.3	16-124				
Anthracene	647	41.6	"	1250		51.9	24-124				
Benzo(a)anthracene	726	41.6	"	1250		58.3	25-134				
Benzo(a)pyrene	702	41.6	"	1250		56.4	29-144				
Benzo(b)fluoranthene	717	41.6	"	1250		57.5	20-151				
Benzo(g,h,i)perylene	674	41.6	"	1250		54.1	10-153				
Benzo(k)fluoranthene	689	41.6	"	1250		55.3	10-148				
Chrysene	689	41.6	"	1250		55.3	24-116				
Dibenzo(a,h)anthracene	703	41.6	"	1250		56.5	17-147				
Dibenzofuran	655	41.6	"	1250		52.6	23-123				
Fluoranthene	703	41.6	"	1250		56.4	36-125				
Fluorene	654	41.6	"	1250		52.5	16-130				
Hexachlorobenzene	544	41.6	"	1250		43.7	10-129				
Indeno(1,2,3-cd)pyrene	806	41.6	"	1250		64.7	10-155				
Naphthalene	607	41.6	"	1250		48.7	20-121				
Pentachlorophenol	561	41.6	"	1250		45.0	10-143				
Phenanthrene	652	41.6	"	1250		52.3	24-123				
Phenol	641	41.6	"	1250		51.5	15-123				
Pyrene	690	41.6	"	1250		55.4	24-132				
Surrogate: SURR: 2-Fluorophenol	1370		"	1660		82.3	20-108				
Surrogate: SURR: Phenol-d6	1250		"	1660		75.0	23-114				
Surrogate: SURR: Nitrobenzene-d5	713		"	831		85.8	22-108				
Surrogate: SURR: 2-Fluorobiphenyl	646		"	831		77.8	21-113				
Surrogate: SURR: 2,4,6-Tribromophenol	1120		"	1660		67.4	19-110				
Surrogate: SURR: Terphenyl-d14	707		"	831		85.2	24-116				



Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BI41376 - EPA 3550C

Blank (BI41376-BLK1)

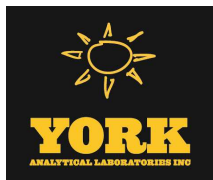
Prepared: 09/23/2024 Analyzed: 09/24/2024

1,4-Dioxane	ND	19.8	ug/kg								
Surrogate: 1,4-Dioxane-d8	339		"	495		68.4	39-127.5				

LCS (BI41376-BS1)

Prepared: 09/23/2024 Analyzed: 09/24/2024

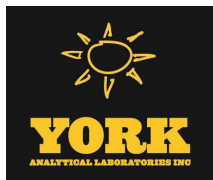
1,4-Dioxane	543	19.8	ug/kg	495		110	40-130				
Surrogate: 1,4-Dioxane-d8	341		"	495		68.8	39-127.5				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Flag	RPD	RPD	Flag
		Limit		Level	Result		Limits			Limit	
Batch BI41391 - EPA 1633 Prep											
Blank (BI41391-BLK1)											
Prepared: 09/23/2024 Analyzed: 09/24/2024											
Perfluorobutanesulfonic acid (PFBS)	ND	0.174	ug/kg wet								
Perfluorohexanoic acid (PFHxA)	ND	0.197	"								
Perfluoroheptanoic acid (PFHpA)	ND	0.197	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.180	"								
Perfluorooctanoic acid (PFOA)	ND	0.197	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.183	"								
Perfluorononanoic acid (PFNA)	ND	0.197	"								
Perfluorodecanoic acid (PFDA)	ND	0.197	"								
Perfluoroundecanoic acid (PFUnA)	ND	0.197	"								
Perfluorododecanoic acid (PFDoA)	ND	0.197	"								
Perfluorotridecanoic acid (PFTriDA)	ND	0.197	"								
Perfluorotetradecanoic acid (PFTA)	ND	0.197	"								
N-MeFOSAA	ND	0.197	"								
N-EtFOSAA	ND	0.197	"								
Perfluoropentanoic acid (PFPeA)	ND	0.394	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.197	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.197	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.190	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	0.748	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	0.756	"								
Perfluoro-n-butanoic acid (PFBA)	ND	0.787	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	0.350	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.394	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	0.394	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	0.394	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	0.185	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	0.738	"								
HFPO-DA (Gen-X)	ND	0.787	"								
11CL-PF3OUdS	ND	0.744	"								
9CL-PF3ONS	ND	0.736	"								
ADONA	ND	0.744	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	0.191	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.189	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	0.984	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	4.92	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	4.92	"								
N-MeFOSE	ND	1.97	"								
N-MeFOSA	ND	0.197	"								
N-EtFOSE	ND	1.97	"								
N-EtFOSA	ND	0.197	"								
Surrogate: M3PFBS	2.49		"	2.29		109	25-150				
Surrogate: M5PFHxA	3.11		"	2.46		127	25-150				
Surrogate: M4PFHpA	2.57		"	2.46		104	25-150				
Surrogate: M3PFHxS	2.42		"	2.33		104	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	3.15		"	2.46		128	25-150				
Surrogate: M6PFDA	1.59		"	1.23		129	25-150				
Surrogate: M7PFUdA	1.16		"	1.23		94.6	25-150				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BI41391 - EPA 1633 Prep

Blank (BI41391-BLK1)

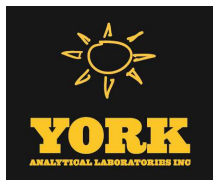
Prepared: 09/23/2024 Analyzed: 09/24/2024

Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	0.964		ug/kg wet	1.23		78.4	25-150				
Surrogate: M2PFTeDA	0.869		"	1.23		70.7	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	1.41		"	9.84		14.3	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.54		"	2.36		108	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.05		"	4.92		82.4	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.77		"	2.46		112	10-150				
Surrogate: d3-N-MeFOSAA	5.75		"	4.92		117	25-150				
Surrogate: d5-N-EtFOSAA	5.79		"	4.92		118	25-150				
Surrogate: M2-6:2 FTS	15.1		"	4.68		323	25-200				
Surrogate: M2-8:2 FTS	8.57		"	4.72		181	25-200				
Surrogate: M9PFNA	1.43		"	1.23		116	25-150				
Surrogate: M2-4:2 FTS	25.7		"	4.62		557	25-150				
Surrogate: d-N-MeFOSA	2.42		"	2.46		98.4	25-150				
Surrogate: d-N-EtFOSA	2.38		"	2.46		96.8	25-150				
Surrogate: M3HFPO-DA	12.9		"	9.84		131	25-150				
Surrogate: d9-N-EtFOSE	11.8		"	24.6		48.1	25-150				
Surrogate: d7-N-MeFOSE	10.8		"	24.6		44.0	25-150				

LCS (BI41391-BS1)

Prepared: 09/23/2024 Analyzed: 09/24/2024

Perfluorobutanesulfonic acid (PFBS)	3.12	0.176	ug/kg wet	3.52		88.7	50-150				
Perfluorohexanoic acid (PFHxA)	3.23	0.199	"	3.98		81.2	50-150				
Perfluoroheptanoic acid (PFHpA)	4.16	0.199	"	3.98		105	50-150				
Perfluorohexanesulfonic acid (PFHxS)	3.13	0.182	"	3.64		86.0	50-150				
Perfluorooctanoic acid (PFOA)	3.16	0.199	"	3.98		79.5	50-150				
Perfluorooctanesulfonic acid (PFOS)	3.14	0.185	"	3.70		85.0	50-150				
Perfluorononanoic acid (PFNA)	2.85	0.199	"	3.98		71.8	50-150				
Perfluorodecanoic acid (PFDA)	3.15	0.199	"	3.98		79.3	50-150				
Perfluoroundecanoic acid (PFUnA)	3.54	0.199	"	3.98		89.1	50-150				
Perfluorododecanoic acid (PFDoA)	4.19	0.199	"	3.98		105	50-150				
Perfluorotridecanoic acid (PFTriDA)	3.71	0.199	"	3.98		93.3	50-150				
Perfluorotetradecanoic acid (PFTA)	3.66	0.199	"	3.98		92.1	50-150				
N-MeFOSAA	3.88	0.199	"	3.98		97.5	50-150				
N-EtFOSAA	3.76	0.199	"	3.98		94.5	50-150				
Perfluoropentanoic acid (PFPeA)	7.26	0.398	"	7.95		91.3	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	2.72	0.199	"	3.98		68.3	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	3.77	0.199	"	3.80		99.3	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	2.87	0.192	"	3.84		74.7	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	12.4	0.755	"	15.1		81.9	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	13.8	0.763	"	15.3		90.7	50-150				
Perfluoro-n-butanoic acid (PFBA)	14.4	0.795	"	15.9		90.8	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	7.40	0.354	"	7.08		105	50-150				
Perfluoro-3,6-dioxahexanoic acid (NFDHA)	5.58	0.398	"	7.95		70.2	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	6.54	0.398	"	7.95		82.2	50-150				
Perfluoro-5-oxahexanoic acid (PFMBA)	7.65	0.398	"	7.95		96.2	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	3.26	0.187	"	3.74		87.2	50-150				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

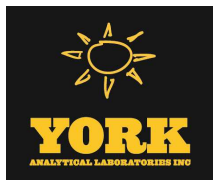
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BI41391 - EPA 1633 Prep

LCS (BI41391-BS1)

Prepared: 09/23/2024 Analyzed: 09/24/2024

1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	11.1	0.746	ug/kg wet	14.9		74.4	50-150				
HFPO-DA (Gen-X)	7.73	0.795	"	7.95		97.1	50-150				
11CL-PF3OUdS	5.08	0.751	"	7.51		67.6	50-150				
9CL-PF3ONS	6.75	0.744	"	7.44		90.8	50-150				
ADONA	6.65	0.751	"	7.51		88.5	50-150				
Perfluorododecanesulfonic acid (PFDoS)	2.02	0.193	"	3.86		52.3	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	3.54	0.191	"	3.82		92.9	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	21.6	0.994	"	15.9		136	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	91.4	4.97	"	79.5		115	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	94.5	4.97	"	79.5		119	50-150				
N-MeFOSE	36.8	1.99	"	39.8		92.5	50-150				
N-MeFOSA	3.95	0.199	"	3.98		99.3	50-150				
N-EtFOSE	35.0	1.99	"	39.8		88.1	50-150				
N-EtFOSA	4.49	0.199	"	3.98		113	50-150				
Surrogate: M3PFBS	2.38		"	2.32		103	25-150				
Surrogate: M5PFHxA	3.06		"	2.49		123	25-150				
Surrogate: M4PFHpA	2.54		"	2.49		102	25-150				
Surrogate: M3PFHxS	2.31		"	2.36		98.2	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	3.39		"	2.49		137	25-150				
Surrogate: M6PFDA	1.62		"	1.24		130	25-150				
Surrogate: M7PFUdA	1.27		"	1.24		102	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	0.821		"	1.24		66.1	25-150				
Surrogate: M2PFTeDA	0.934		"	1.24		75.2	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	9.35		"	9.94		94.0	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.85		"	2.38		120	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	5.41		"	4.97		109	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	3.64		"	2.49		147	10-150				
Surrogate: d3-N-MeFOSAA	7.88		"	4.97		158	25-150				
Surrogate: d5-N-EtFOSAA	9.59		"	4.97		193	25-150				
Surrogate: M2-6:2 FTS	15.1		"	4.73		319	25-200				
Surrogate: M2-8:2 FTS	10.6		"	4.77		221	25-200				
Surrogate: M9PFNA	1.58		"	1.24		127	25-150				
Surrogate: M2-4:2 FTS	22.9		"	4.66		492	25-150				
Surrogate: d-N-MeFOSA	2.80		"	2.49		112	25-150				
Surrogate: d-N-EtFOSA	2.44		"	2.49		98.1	25-150				
Surrogate: M3HFPO-DA	12.7		"	9.94		128	25-150				
Surrogate: d9-N-EtFOSE	12.5		"	24.9		50.4	25-150				
Surrogate: d7-N-MeFOSE	12.9		"	24.9		52.0	25-150				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

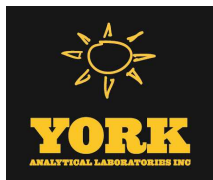
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BI41391 - EPA 1633 Prep

LCS (BI41391-BS2)

Prepared: 09/23/2024 Analyzed: 09/24/2024

Perfluorobutanesulfonic acid (PFBS)	0.590	0.175	ug/kg wet	0.701		84.1	50-150				
Perfluorohexanoic acid (PFHxA)	0.647	0.198	"	0.792		81.7	50-150				
Perfluoroheptanoic acid (PFHpA)	0.810	0.198	"	0.792		102	50-150				
Perfluorohexanesulfonic acid (PFHxS)	0.582	0.181	"	0.725		80.4	50-150				
Perfluorooctanoic acid (PFOA)	0.604	0.198	"	0.792		76.2	50-150				
Perfluorooctanesulfonic acid (PFOS)	0.697	0.184	"	0.737		94.7	50-150				
Perfluorononanoic acid (PFNA)	0.574	0.198	"	0.792		72.5	50-150				
Perfluorodecanoic acid (PFDA)	0.639	0.198	"	0.792		80.7	50-150				
Perfluoroundecanoic acid (PFUnA)	0.682	0.198	"	0.792		86.1	50-150				
Perfluorododecanoic acid (PFDoA)	0.669	0.198	"	0.792		84.4	50-150				
Perfluorotridecanoic acid (PFTriDA)	0.910	0.198	"	0.792		115	50-150				
Perfluorotetradecanoic acid (PFTA)	0.690	0.198	"	0.792		87.1	50-150				
N-MeFOSAA	0.652	0.198	"	0.792		82.3	50-150				
N-EtFOSAA	0.726	0.198	"	0.792		91.6	50-150				
Perfluoropentanoic acid (PFPeA)	1.44	0.396	"	1.58		91.0	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	0.525	0.198	"	0.792		66.3	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	0.779	0.198	"	0.756		103	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	0.385	0.191	"	0.764		50.4	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	2.27	0.752	"	3.01		75.4	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	2.65	0.760	"	3.04		87.3	50-150				
Perfluoro-n-butanoic acid (PFBA)	2.77	0.792	"	3.17		87.5	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	1.48	0.352	"	1.41		105	50-150				
Perfluoro-3,6-dioxahexanoic acid (NFDHA)	1.51	0.396	"	1.58		95.6	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	1.43	0.396	"	1.58		90.6	50-150				
Perfluoro-5-oxahexanoic acid (PFMBA)	1.48	0.396	"	1.58		93.5	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	0.609	0.186	"	0.745		81.8	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	2.21	0.743	"	2.97		74.4	50-150				
HFPO-DA (Gen-X)	1.26	0.792	"	1.58		79.8	50-150				
11CL-PF3OUdS	0.526	0.749	"	1.50		35.2	50-150	Low Bias			
9CL-PF3ONS	1.03	0.741	"	1.48		69.8	50-150				
ADONA	1.35	0.749	"	1.50		90.2	50-150				
Perfluorododecanesulfonic acid (PFDoS)	0.139	0.192	"	0.768		18.0	50-150	Low Bias			
Perfluoro-1-nonanesulfonic acid (PFNS)	0.506	0.190	"	0.760		66.5	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	4.24	0.990	"	3.17		134	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	17.7	4.95	"	15.8		112	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	17.7	4.95	"	15.8		112	50-150				
N-MeFOSE	7.66	1.98	"	7.92		96.7	50-150				
N-MeFOSA	0.742	0.198	"	0.792		93.7	50-150				
N-EtFOSE	7.80	1.98	"	7.92		98.4	50-150				
N-EtFOSA	0.926	0.198	"	0.792		117	50-150				
Surrogate: M3PFBS	2.54		"	2.31		110	25-150				
Surrogate: M5PFHxA	2.91		"	2.48		117	25-150				
Surrogate: M4PFHpA	2.52		"	2.48		102	25-150				
Surrogate: M3PFHxS	2.45		"	2.35		105	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	3.10		"	2.48		125	25-150				
Surrogate: M6PFDA	1.34		"	1.24		108	25-150				
Surrogate: M7PFUdA	0.833		"	1.24		67.3	25-150				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

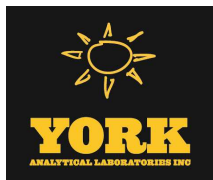
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BI41391 - EPA 1633 Prep

LCS (BI41391-BS2)

Prepared: 09/23/2024 Analyzed: 09/24/2024

Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	0.539		ug/kg wet	1.24		43.5	25-150				
Surrogate: M2PFTeDA	0.319		"	1.24		25.8	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	11.0		"	9.90		112	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.32		"	2.37		98.0	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	5.30		"	4.95		107	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.96		"	2.48		120	10-150				
Surrogate: d3-N-MeFOSAA	5.88		"	4.95		119	25-150				
Surrogate: d5-N-EtFOSAA	6.36		"	4.95		128	25-150				
Surrogate: M2-6:2 FTS	14.6		"	4.71		311	25-200				
Surrogate: M2-8:2 FTS	9.78		"	4.75		206	25-200				
Surrogate: M9PFNA	1.27		"	1.24		103	25-150				
Surrogate: M2-4:2 FTS	24.6		"	4.64		531	25-150				
Surrogate: d-N-MeFOSA	1.80		"	2.48		72.8	25-150				
Surrogate: d-N-EtFOSA	1.36		"	2.48		54.9	25-150				
Surrogate: M3HFPO-DA	12.1		"	9.90		122	25-150				
Surrogate: d9-N-EtFOSE	3.64		"	24.8		14.7	25-150				
Surrogate: d7-N-MeFOSE	3.98		"	24.8		16.1	25-150				



Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BI41607 - EPA 3550C

Blank (BI41607-BLK1)

Prepared: 09/25/2024 Analyzed: 09/26/2024

4,4'-DDD	ND	1.64	ug/kg wet
4,4'-DDE	ND	1.64	"
4,4'-DDT	ND	1.64	"
Aldrin	ND	1.64	"
alpha-BHC	ND	1.64	"
alpha-Chlordane	ND	1.64	"
beta-BHC	ND	1.64	"
delta-BHC	ND	1.64	"
Dieldrin	ND	1.64	"
Endosulfan I	ND	1.64	"
Endosulfan II	ND	1.64	"
Endosulfan sulfate	ND	1.64	"
Endrin	ND	1.64	"
gamma-BHC (Lindane)	ND	1.64	"
Heptachlor	ND	1.64	"

Surrogate: Decachlorobiphenyl

47.7

"

66.4

71.8

30-150

Surrogate: Tetrachloro-m-xylene

47.2

"

66.4

71.1

30-150

LCS (BI41607-BS1)

Prepared: 09/25/2024 Analyzed: 09/26/2024

4,4'-DDD	29.7	1.64	ug/kg wet	33.2	89.5	40-140
4,4'-DDE	29.2	1.64	"	33.2	87.8	40-140
4,4'-DDT	32.5	1.64	"	33.2	97.7	40-140
Aldrin	29.6	1.64	"	33.2	89.0	40-140
alpha-BHC	30.7	1.64	"	33.2	92.3	40-140
alpha-Chlordane	31.2	1.64	"	33.2	93.9	40-140
beta-BHC	35.0	1.64	"	33.2	105	40-140
delta-BHC	30.8	1.64	"	33.2	92.6	40-140
Dieldrin	30.7	1.64	"	33.2	92.4	40-140
Endosulfan I	31.6	1.64	"	33.2	95.2	40-140
Endosulfan II	32.8	1.64	"	33.2	98.8	40-140
Endosulfan sulfate	31.4	1.64	"	33.2	94.4	40-140
Endrin	33.1	1.64	"	33.2	99.6	40-140
gamma-BHC (Lindane)	30.8	1.64	"	33.2	92.8	40-140
Heptachlor	31.6	1.64	"	33.2	95.2	40-140

Surrogate: Decachlorobiphenyl

49.0

"

66.4

73.7

30-150

Surrogate: Tetrachloro-m-xylene

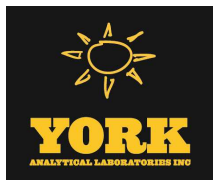
49.3

"

66.4

74.2

30-150



Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BI41607 - EPA 3550C

Blank (BI41607-BLK2)

Prepared: 09/25/2024 Analyzed: 09/26/2024

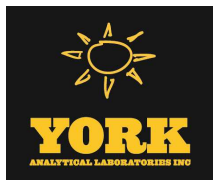
Aroclor 1016	ND	0.0166	mg/kg wet
Aroclor 1221	ND	0.0166	"
Aroclor 1232	ND	0.0166	"
Aroclor 1242	ND	0.0166	"
Aroclor 1248	ND	0.0166	"
Aroclor 1254	ND	0.0166	"
Aroclor 1260	ND	0.0166	"
Total PCBs	ND	0.0166	"

Surrogate: Tetrachloro-m-xylene	0.0631	"	0.0664	95.0	30-140
Surrogate: Decachlorobiphenyl	0.0492	"	0.0664	74.0	30-140

LCS (BI41607-BS2)

Prepared: 09/25/2024 Analyzed: 09/26/2024

Aroclor 1016	0.360	0.0166	mg/kg wet	0.332	108	40-130
Aroclor 1260	0.389	0.0166	"	0.332	117	40-130
Surrogate: Tetrachloro- <i>m</i> -xylene	0.0674		"	0.0664	102	30-140
Surrogate: Decachlorobiphenyl	0.0528		"	0.0664	79.5	30-140



Chlorinated Herbicides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BI41588 - EPA 3550C/8151A

Blank (BI41588-BLK1)

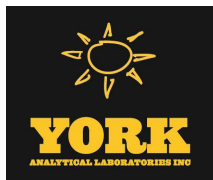
Prepared & Analyzed: 09/25/2024

2,4,5-TP (Silvex)	ND	19.9	ug/kg wet								
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	422		"	415		102	21-150				

LCS (BI41588-BS1)

Prepared & Analyzed: 09/25/2024

2,4,5-TP (Silvex)	68.1	19.9	ug/kg wet	66.4		102	10-120				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	385		"	415		92.6	21-150				



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BI41534 - EPA 3050B

Blank (BI41534-BLK1)

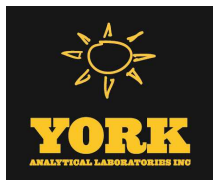
Prepared: 09/24/2024 Analyzed: 09/26/2024

Arsenic	ND	1.25	mg/kg wet
Barium	ND	2.08	"
Beryllium	ND	0.042	"
Cadmium	ND	0.250	"
Chromium	ND	0.417	"
Copper	ND	1.67	"
Lead	ND	0.417	"
Manganese	ND	0.417	"
Nickel	ND	0.830	"
Selenium	ND	2.08	"
Silver	ND	0.420	"
Zinc	ND	2.08	"

Reference (BI41534-SRM1)

Prepared: 09/24/2024 Analyzed: 09/26/2024

Arsenic	243	1.25	mg/kg wet	283	85.8	69.9-101.4
Barium	331	2.08	"	326	102	73.9-107.1
Beryllium	172	0.042	"	175	98.3	75.4-107.4
Cadmium	86.1	0.250	"	95.8	89.9	72.3-103.7
Chromium	222	0.417	"	239	92.9	72.4-106.3
Copper	226	1.67	"	217	104	74.7-105.1
Lead	193	0.417	"	210	91.7	75.7-109.5
Manganese	390	0.417	"	290	135	73.4-108.3 High Bias
Nickel	317	0.830	"	329	96.4	74.5-106.7
Selenium	271	2.08	"	281	96.5	77.6-116.7
Silver	54.2	0.420	"	82.7	65.5	73.7-111.7 Low Bias
Zinc	239	2.08	"	260	91.8	72.7-109.2



Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BI41539 - EPA 7473 soil

Blank (BI41539-BLK1)

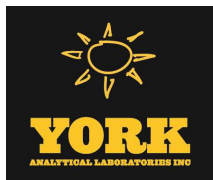
Prepared: 09/24/2024 Analyzed: 09/25/2024

Mercury ND 0.0300 mg/kg wet

Reference (BI41539-SRM1)

Prepared: 09/24/2024 Analyzed: 09/25/2024

Mercury 19.178 mg/kg 18.2 105 59.9-140.1



Wet Chemistry Parameters - Quality Control Data
York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BI41474 - Analysis Preparation Soil

Blank (BI41474-BLK1)

Prepared & Analyzed: 09/24/2024

Cyanide, total ND 0.500 mg/kg wet

Reference (BI41474-SRM1)

Prepared & Analyzed: 09/24/2024

Cyanide, total 52.1 ug/mL 59.7 87.3 38.5-161.4

Batch BI41595 - EPA SW846-3060

Blank (BI41595-BLK1)

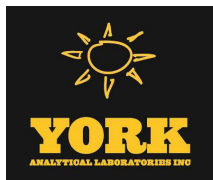
Prepared & Analyzed: 09/25/2024

Chromium, Hexavalent ND 0.500 mg/kg wet

Reference (BI41595-SRM1)

Prepared & Analyzed: 09/25/2024

Chromium, Hexavalent 255 mg/L 227 112 42.3-157.7



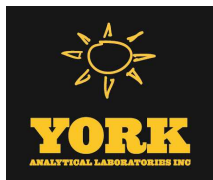
Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC Limits	Flag	RPD Limit	Flag
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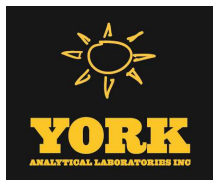
Batch BI41487 - % Solids Prep

Duplicate (BI41487-DUP1)		*Source sample: 24I1279-02 (Composite)					Prepared & Analyzed: 09/24/2024				
% Solids	93.9	0.100	%		92.6			1.38	20		



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
24I1279-01	Grab	40mL Vial with Stir Bar-Cool 4° C
24I1279-04	Trip Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



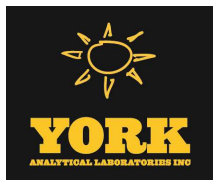
Sample and Data Qualifiers Relating to This Work Order

S-08	The recovery of this surrogate was outside of QC limits.
S-03	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. This effect was confirmed by reanalysis.
PFSu-L	The isotopically labeled surrogate recovered below lab control limits due to a matrix effect. Isotope Dilution was applied.
PFSu-H	The isotopically labeled surrogate recovered above lab control limits due to a matrix effect. Isotope Dilution was applied.
PF-CCV-L	The CCV recovery for this PFAS compound was below control limits.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
CCVE	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
CAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%)

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.



If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.



Field Chain-of-Custody Record

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below.

Your signature binds you to YORK's Standard Terms & Conditions.

Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No.

241279

Page of

12202 90th Ave Queens NY 11118 56 Church Hill Rd #2 Newtown CT 06470 clientservices@yorklab.com www.yorklab.com 800-306-YORK

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