

GROUNDWATER SAMPLING REPORT

**“BETHPAGE HIGH SCHOOL”
10 CHERRY AVENUE
BETHPAGE, NEW YORK 11714**

**PREPARED FOR:
BETHPAGE UNION FREE SCHOOL DISTRICT
10 CHERRY AVENUE
BETHPAGE, NEW YORK 11714**

**JCB PROJECT #: 22-52709
OCTOBER 2022**

**J.C. BRODERICK & ASSOCIATES, INC.
Environmental Consulting & Testing**

**1775 Expressway Drive North
Hauppauge, New York 11788
631-584-5492 Fax: 631-584-3395**



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Section No. 1.0: Introduction

J.C. Broderick and Associates, Inc. (JCB) was retained by the Bethpage Union Free School District to perform annual groundwater sampling and analysis from three (3) existing groundwater monitoring wells located at the Bethpage High School.

Section No. 2.0: Site Description and Location

The subject site is located at 10 Cherry Avenue, Bethpage, New York 11714. The subject site is located on the south side of Cherry Avenue, between Stewart Avenue to the west and Broadway to the east. According to the United States Geological Survey (USGS) *Huntington, New York 1992 7.5 Minute Series Topographical Map*, the subject site is situated at an approximate elevation of 121 feet above mean sea level. The location of the subject site is shown on the Site Location Map Appendix-A Figure-1.

Section No. 3.0: Subsurface Investigation Procedures

The following sections summarizes the subsurface investigation performed. Please refer to the attachments of this document for additional details.

Section No. 3.1: Monitoring Well Gauging

On August 30, 2022, JCB checked the groundwater monitoring wells for the presence of light non-aqueous phase liquid (LNAPL) utilizing a Solinst® Model 122 Product/Water Interface Probe and depth to the groundwater table was recorded to the nearest 0.01 ft.

The following table summarizes the groundwater data:

Table No. 1: Depth to Groundwater Gauged with Interface Meter				
Well Number	Casing Elevation (ft)	Depth to Product (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)
MW-5	118.88	No Product	53.09	65.79
MW-6	119.04	No Product	53.63	65.41
MW-7	118.72	No Product	53.63	65.09

Notes:
ft = Feet

Section No. 3.2: Groundwater Sampling

On August 30, 2022, JCB collected three (3) groundwater samples from the replacement groundwater monitoring wells (MW-5, MW-6, and MW-7). Prior to sampling, the casing volume of each monitoring well was calculated and a minimum of three (3) casing volumes of water were purged utilizing a check valve. During the purging process, specific groundwater parameters were monitored by a YSI Multi-meter.

The following table summarizes the purged water testing.

Table No. 2: Groundwater Monitoring During Sample Collection					
MW-5	DTW (ft)	TD (ft)	Water Column (ft)		
	53.09	62.40	9.31		
Time	Temp (°C)	TDS (g/l)	DO (%)	pH	ORP (mV)
8:00	16.39	0.236	11.89	8.72	61.5
8:05	16.48	0.236	11.91	8.66	65.2
8:10	16.46	0.239	12.02	8.63	66.1
Samples Collected					
MW-6	DTW (ft)	TD (ft)	Water Column (ft)		
	53.63	63.04	9.41		
Time	Temp (°C)	TDS (g/l)	DO (%)	pH	ORP (mV)
8:35	20.53	0.163	11.48	8.64	27.9
8:40	20.23	0.182	10.99	8.49	32.2
8:45	20.08	0.190	10.80	8.41	31.5
8:50	20.15	0.192	10.49	8.36	30.8
Samples Collected					
MW-7	DTW (ft)	TD (ft)	Water Column (ft)		
	53.63	63.11	9.48		
Time	Temp (°C)	TDS (g/l)	DO (%)	pH	ORP (mV)
9:42	21.81	0.168	11.73	8.20	30.1
9:47	21.78	0.164	11.99	8.16	32.6
9:52	21.84	0.165	12.50	8.12	28.6
9:57	21.95	0.165	12.28	8.10	32.1
Samples Collected					
Notes:					
DTW = Depth to Groundwater Table					
TD = Total Depth of Well					
Temp = Temperature in degrees Celsius					
TDS = Total Dissolved Solids on grams per liter					
DO = Dissolved Oxygen in percent					
pH = Potential of Hydrogen, unitless					
ORP = Oxygen-Reduction Potential in millivolts					

The following table summarizes the groundwater samples submitted for laboratory analysis:

Table No. 3: Summary of Groundwater Samples Submitted for Laboratory Analysis			
Sample ID#	Date Sampled	Description of Sample	Analysis Method
MW-5	8-30-2022	Monitoring Well No. 5	EPA 8260 + Freon™ EPA 903.0 & EPA 904.0
MW-6	8-30-2022	Monitoring Well No. 6	EPA 8260 + Freon™ EPA 903.0 & EPA 904.0
MW-7	8-30-2022	Monitoring Well No. 7	EPA 8260 + Freon™ EPA 903.0 & EPA 904.0

Notes:

EPA = Environmental Protection Agency

Section No. 4.0: Groundwater Laboratory Analytical Summary

Groundwater samples selected for laboratory analysis were placed into laboratory supplied containers, assigned individual identification numbers and then placed into an appropriately conditioned cooler. Chain of Custody documents were prepared, and the samples were then delivered to an independent New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certified laboratory for analysis.

Groundwater samples submitted for laboratory analysis were analyzed for volatile organic compounds (VOCs) plus Freon™ utilizing Environmental Protection Agency (EPA) Method 8260 including Freon™. York Analytical Laboratories, Inc. (York) provided laboratory analytical services. Copies of York's NYSDOH certifications are available upon request

Groundwater samples submitted for laboratory analysis were also analyzed for Radium 226 utilizing EPA Method 903.0, and for Radium 228 utilizing EPA Method 904.0. EMSL Analytical, Inc. (EMSL) provided laboratory analytical services. Copies of EMSL's NYSDOH certifications are available upon request.

The laboratory analytical results for the groundwater samples were reviewed and compared to Table No. 1 of the *Ambient Water Quality Standards and Guidance Values of the New York State Department of Environmental Conservation, Division of Water, Technical and Operational Guidance Series (TOGS) (1.1.1)*.

The following table summarizes the detected VOC analytical results in groundwater:

Table No. 4: Summary of Groundwater VOCs Sample Detected Analytical Results							
Sample ID York ID Sampling Date Client Matrix	NYSDEC TOGS Standards and Guidance Values - GA	MW-5 22H1762-01 8/30/2022 Water		MW-6 22H1762-02 8/30/2022 Water		MW-7 22H1762-03 8/30/2022 Water	
		Result	Q	Result	Q	Result	Q
Volatile Organics, 8260 - Comprehensive	ug/L	ug/L		ug/L		ug/L	
Dilution Factor		1		1		1	
2-Butanone	50	0.690		0.400	J	0.200	U
Acetone	50	2.40		1.90	J	1.60	J
Methylene chloride	5	1.00	U	1.00	U	1.10	J
tert-Butyl alcohol (TBA)	~	2.00		1.10		1.40	
Toluene	5	0.470	J	0.780		0.910	
NOTES: Any Regulatory Exceedences are color coded by Regulation							
Q is the Qualifier Column with definitions as follows: J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated U=analyte not detected at or above the level indicated ~=this indicates that no regulatory limit has been established for this analyte							

The review of the laboratory VOC analysis revealed the following significant findings:

The laboratory analysis results from the groundwater samples submitted from MW-5, MW-6, and MW-7 did indicate detectable concentrations of several VOCs; however, the levels reported were below the above referenced guidance values for groundwater.

The following table summarizes the Radium analytical results in groundwater:

Table No. 5: Summary of Groundwater Radium Samples Analytical Results				
Client Sample ID	Allowable Standards	MW-5	MW-6	MW-7
Compound	pCi/L	8/30/2022	8/30/2022	8/30/2022
Radium 226	3.0	1.03	1.41	0.99
Radium 228	5.0	1.52	1.10	<0.88

Notes:
pCi/L = picocuries per liter

The review of the laboratory Radium analysis revealed the following significant findings:

The laboratory analysis results from the groundwater samples submitted from MW-5 and MW-6 did indicate detectable concentrations of Radium 226 and Radium 228; however, the levels reported were below the above referenced guidance values for groundwater. The laboratory analysis results from the groundwater sample submitted from MW-7 did indicate detectable concentrations of Radium 226; however, the levels reported were below the above referenced guidance values for groundwater. The laboratory analysis results from the groundwater sample submitted from MW-7 did not indicate any detectable concentrations of Radium 228.

Section No. 5.0: Quality Assurance and Quality Control (QA/QC) Procedures

In order to prevent cross-contamination between sampling locations, all re-usable sampling equipment which came into contact with sample materials was decontaminated prior to each use. Equipment used for sample collection was wiped clean, washed in a solution of Alconox and thoroughly rinsed with potable water. New and dedicated polyethylene tubing was used for collection of each groundwater sample. All sampling personnel wore disposable latex, nylon, or nitrile gloves during sampling events. At a minimum, gloves were changed before each laboratory sample was collected. All collected samples were placed into an appropriately conditioned cooler for storage and were transported to the laboratory. Samples were maintained between 0°C and 8°C.

Section No. 6.0: Conclusions and Recommendations

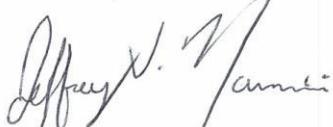
Based on the findings of the current data collected during the subsurface investigation performed and reported to JCB, the following observations are made:

The laboratory analysis results from the groundwater samples submitted did not indicate any elevated concentrations of any VOCs or Freon™ above the NYSDEC TOGS 1.1.1 guidance values for groundwater.

The laboratory analysis results from the groundwater samples submitted did not indicate any elevated concentrations of Radium 226 and Radium 228 above the NYSDEC TOGS 1.1.1 guidance values for groundwater.

Based upon the detected concentrations of VOCs and Radium in the collected groundwater samples it is recommended that periodic groundwater and volatile vapor intrusion (VVI) sampling be continued to monitor site conditions. VVI sampling is currently scheduled for March 2023.

Sincerely,
J.C. Broderick & Associates, Inc.



Jeffrey V. Nannini
Environmental Scientist



Steven Muller, P.G.
Director – Subsurface Division

Appendix A

Figures



J.C. BRODERICK

& Associates

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Notes:

Bethpage High School
10 Cherry Avenue
Bethpage, NY 11714

Drawing Title

Figure No. 1

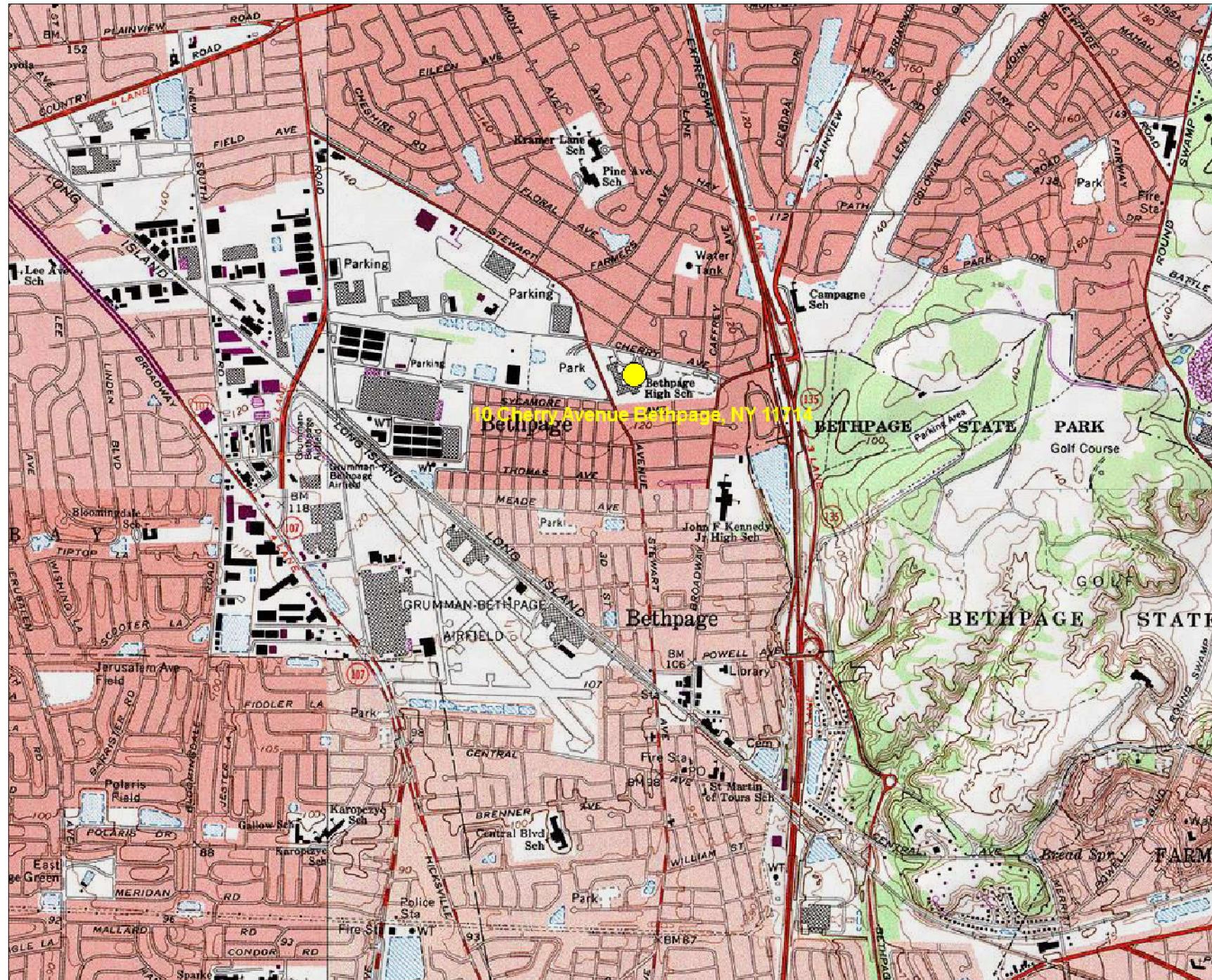
Site Location Map

Scale Project No. Date
As Noted 22-52709 08-30-2022

Drawn By Checked By Page No.
J.V.N. S.W.M. 1 of 3

Drawing No.

1



Map created with TOPO!® ©2003 National Geographic (www.nationalgeographic.com/topo)



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Notes:

Bethpage High School
10 Cherry Avenue
Bethpage, NY 11714

Drawing Title

Figure No. 2

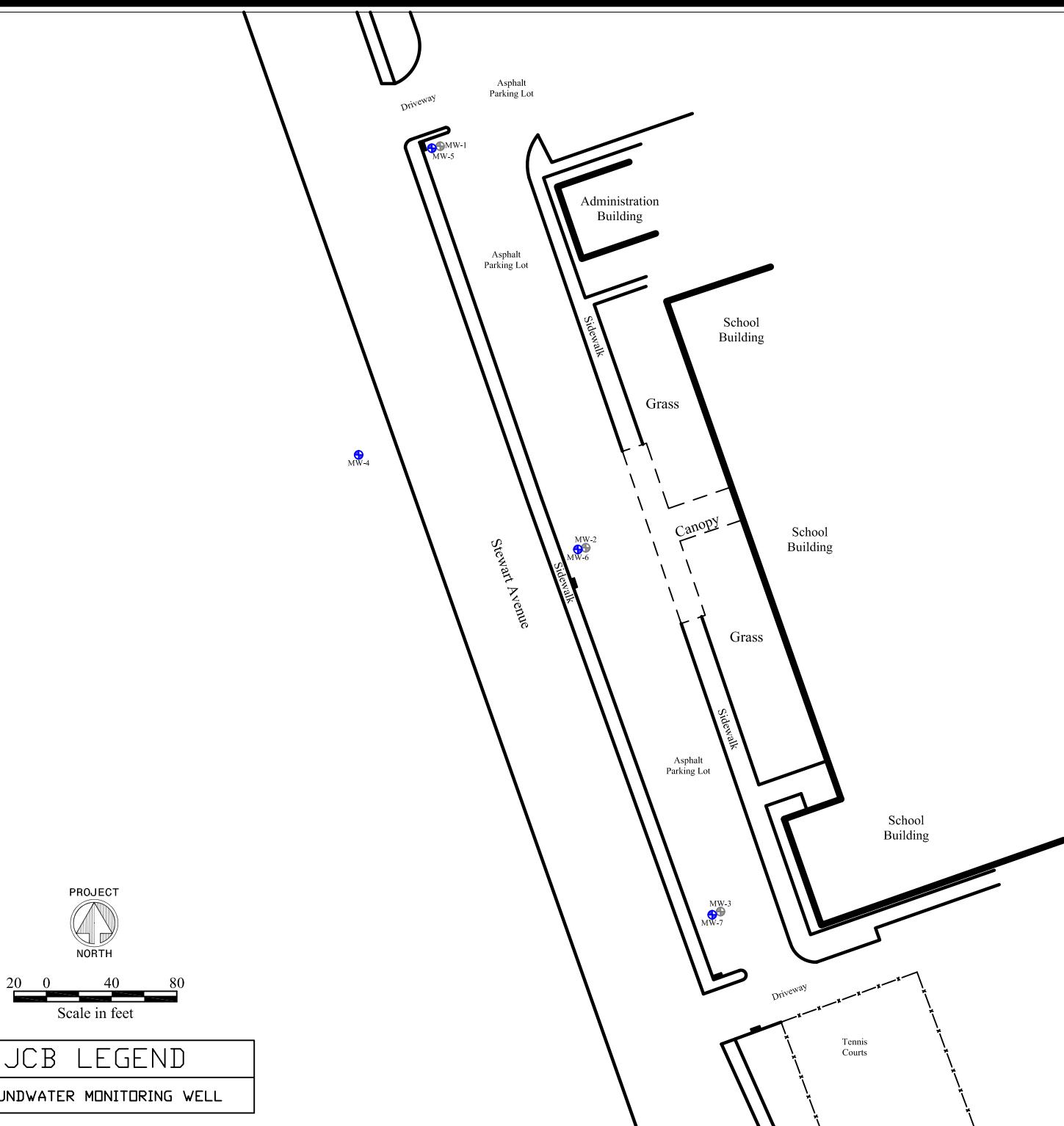
Groundwater
Monitoring Well
Locations
Map

Scale Project No. Date
As Noted 22-52709 08-30-2022

Drawn By Checked By Page No.
J.V.N. S.W.M. 2 of 3

Drawing No.

2





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Notes:

Bethpage High School
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Bethpage, NY 11714

Drawing Title

Figure No. 3

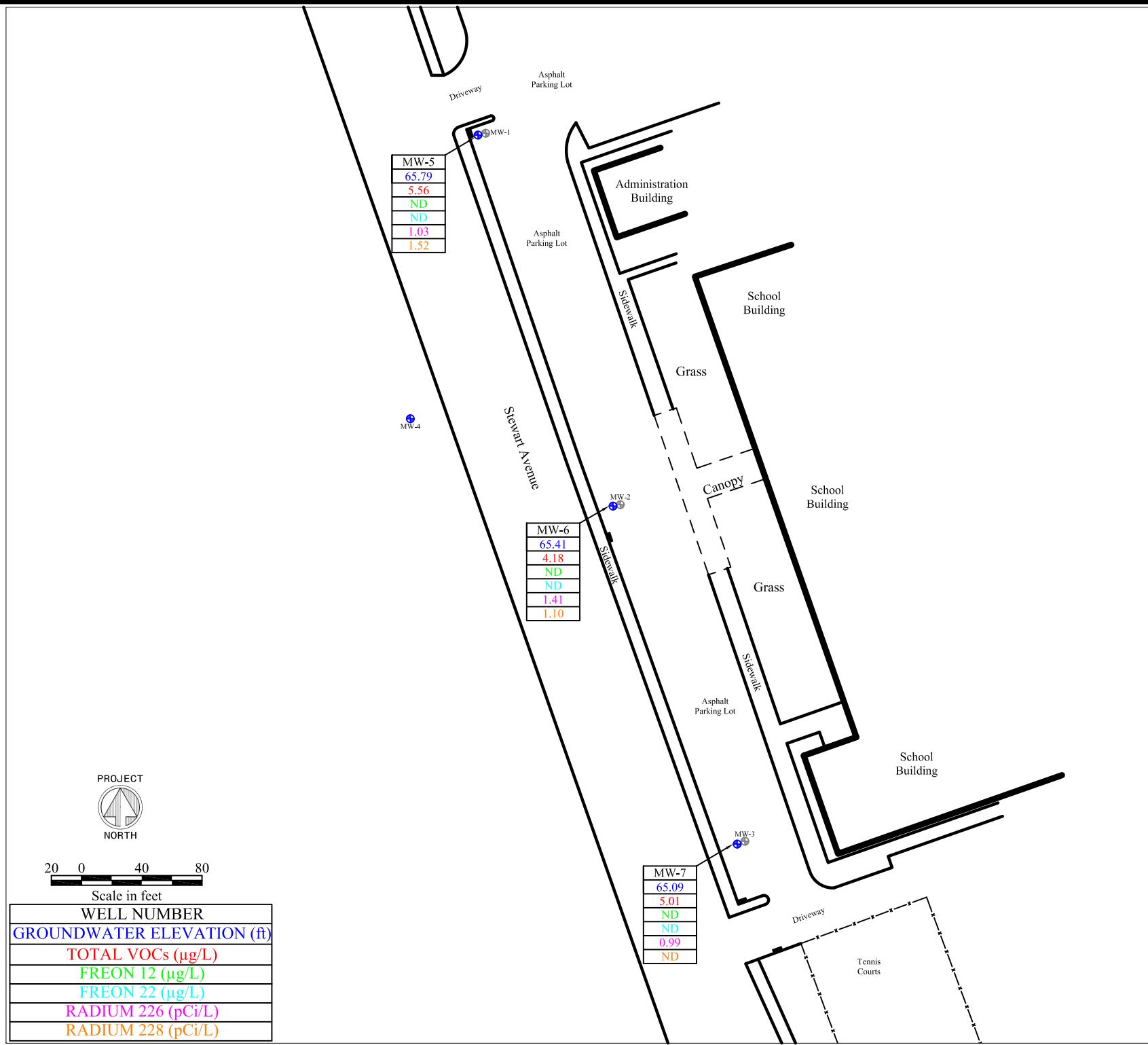
Analytical Results
Map

Scale Project No. Date
As Noted 22-52709 08-30-2022

Drawn By Checked By Page No.
J.V.N. S.W.M. 3 of 3

Drawing No.

3



Appendix B

Field Photograph Logs

Groundwater Monitoring Well Locations
MW-1 **MW-5**



Field Photograph Log

Groundwater Sampling Report

**Bethpage High School
10 Cherry Avenue
Bethpage, New York 11714**



Photo No. 01

JCB#: 22-52709

Groundwater Monitoring Well Locations

MW-2 MW-6



Field Photograph Log

Groundwater Sampling Report

**Bethpage High School
10 Cherry Avenue
Bethpage, New York 11714**



Photo No. 02

JCB#: 22-52709

Groundwater Monitoring Well Locations
MW-3 **MW-7**



Field Photograph Log

Groundwater Sampling Report

**Bethpage High School
10 Cherry Avenue
Bethpage, New York 11714**



Photo No. 03

JCB#: 22-52709

Groundwater Sampling Equipment



Field Photograph Log

Groundwater Sampling Report

Bethpage High School
10 Cherry Avenue
Bethpage, New York 11714



Photo No. 04

JCB#: 22-52709

Appendix C

Laboratory Analysis Reports



Technical Report

prepared for:

J.C. Broderick
1775 North Express Drive
Hauppauge NY, 11788
Attention: Steven Muller

Report Date: 09/16/2022

Client Project ID: 22-52709 Bethpage High School
York Project (SDG) No.: 22H1762

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE
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STRATFORD, CT 06615
(203) 325-1371



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FAX (203) 357-0166

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 09/16/2022
Client Project ID: 22-52709 Bethpage High School
York Project (SDG) No.: 22H1762

J.C. Broderick
1775 North Express Drive
Hauppauge NY, 11788
Attention: Steven Muller

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 August 31, 2022 and listed below. The project was identified as your project: **22-52709 Bethpage High School**.

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>
22H1762-01	MW-5	Water	08/30/2022	08/31/2022
22H1762-02	MW-6	Water	08/30/2022	08/31/2022
22H1762-03	MW-7	Water	08/30/2022	08/31/2022

General Notes for York Project (SDG) No.: 22H1762

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; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: *Cassie L. Mosher*

Date: 09/16/2022

Cassie L. Mosher
Laboratory Manager





Sample Information

Client Sample ID: MW-5

York Sample ID: 22H1762-01

York Project (SDG) No.

22H1762

Client Project ID

22-52709 Bethpage High School

Matrix

Water

Collection Date/Time

August 30, 2022 3:00 pm

Date Received

08/31/2022

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5030B

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
96-18-4	1,2,3-Trichloroproppane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG



Sample Information

Client Sample ID: MW-5

York Sample ID: 22H1762-01

York Project (SDG) No.

22H1762

Client Project ID

22-52709 Bethpage High School

Matrix

Water

Collection Date/Time

August 30, 2022 3:00 pm

Date Received

08/31/2022

Volatile Organics, 8260 - Comprehensive

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
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
78-93-3	2-Butanone	0.69		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
67-64-1	Acetone	2.4		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG



Sample Information

Client Sample ID: MW-5

York Sample ID: 22H1762-01

York Project (SDG) No.

22H1762

Client Project ID

22-52709 Bethpage High School

Matrix

Water

Collection Date/Time

August 30, 2022 3:00 pm

Date Received

08/31/2022

Volatile Organics, 8260 - Comprehensive

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
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG



Sample Information

<u>Client Sample ID:</u> MW-5		<u>York Sample ID:</u> 22H1762-01
<u>York Project (SDG) No.</u> 22H1762	<u>Client Project ID</u> 22-52709 Bethpage High School	<u>Matrix</u> Water <u>Collection Date/Time</u> August 30, 2022 3:00 pm <u>Date Received</u> 08/31/2022

Volatile Organics, 8260 - Comprehensive

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
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
75-65-0	tert-Butyl alcohol (TBA)	2.0	Cal-E, CCVE	ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
108-88-3	Toluene	0.47	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	09/12/2022 06:41	09/12/2022 21:37	JTG
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 21:37	JTG
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	09/12/2022 06:41	09/12/2022 21:37	JTG

Surrogate Recoveries	Result	Acceptance Range
17060-07-0 Surrogate: SURR: 1,2-Dichloroethane-d4	105 %	69-130
2037-26-5 Surrogate: SURR: Toluene-d8	94.6 %	81-117
460-00-4 Surrogate: SURR: p-Bromofluorobenzene	100 %	79-122

Volatile Organics, Tentatively Identified Cmpds.

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
NA	Freon-22	ND		ug/L		0.50	1	EPA 8260C Certifications:	09/12/2022 06:41	09/16/2022 16:56	JTG



Sample Information

Client Sample ID: MW-6

York Sample ID: 22H1762-02

York Project (SDG) No.

22H1762

Client Project ID

22-52709 Bethpage High School

Matrix

Water

Collection Date/Time

August 30, 2022 3:00 pm

Date Received

08/31/2022

Volatile Organics, 8260 - Comprehensive

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
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG



Sample Information

Client Sample ID: MW-6

York Sample ID: 22H1762-02

York Project (SDG) No.

22H1762

Client Project ID

22-52709 Bethpage High School

Matrix

Water

Collection Date/Time

August 30, 2022 3:00 pm

Date Received

08/31/2022

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5030B

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
78-93-3	2-Butanone	0.40	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
67-64-1	Acetone	1.9	J	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG



Sample Information

Client Sample ID: MW-6

York Sample ID: 22H1762-02

York Project (SDG) No.

22H1762

Client Project ID

22-52709 Bethpage High School

Matrix

Water

Collection Date/Time

August 30, 2022 3:00 pm

Date Received

08/31/2022

Volatile Organics, 8260 - Comprehensive

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
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG



Sample Information

<u>Client Sample ID:</u> MW-6		<u>York Sample ID:</u> 22H1762-02
<u>York Project (SDG) No.</u> 22H1762	<u>Client Project ID</u> 22-52709 Bethpage High School	<u>Matrix</u> Water <u>Collection Date/Time</u> August 30, 2022 3:00 pm <u>Date Received</u> 08/31/2022

Volatile Organics, 8260 - Comprehensive

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
75-65-0	tert-Butyl alcohol (TBA)	1.1	Cal-E, CCVE	ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
108-88-3	Toluene	0.78		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	09/12/2022 06:41	09/12/2022 22:02	JTG
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:02	JTG
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	09/12/2022 06:41	09/12/2022 22:02	JTG

Surrogate Recoveries

	Result	Acceptance Range
17060-07-0	<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	108 % 69-130
2037-26-5	<i>Surrogate: SURR: Toluene-d8</i>	94.2 % 81-117
460-00-4	<i>Surrogate: SURR: p-Bromofluorobenzene</i>	101 % 79-122

Volatile Organics, Tentatively Identified Cmpds.

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
NA	Freon-22	ND		ug/L		0.50	1	EPA 8260C Certifications:	09/12/2022 06:41	09/16/2022 16:56	JTG

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: MW-7

York Sample ID: 22H1762-03

York Project (SDG) No.

22H1762

Client Project ID

22-52709 Bethpage High School

Matrix

Water

Collection Date/Time

August 30, 2022 3:00 pm

Date Received

08/31/2022

Volatile Organics, 8260 - Comprehensive

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
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG



Sample Information

Client Sample ID: MW-7

York Sample ID: 22H1762-03

York Project (SDG) No.

22H1762

Client Project ID

22-52709 Bethpage High School

Matrix

Water

Collection Date/Time

August 30, 2022 3:00 pm

Date Received

08/31/2022

Volatile Organics, 8260 - Comprehensive

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
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
67-64-1	Acetone	1.6	J	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG



Sample Information

Client Sample ID: MW-7

York Sample ID: 22H1762-03

York Project (SDG) No.

22H1762

Client Project ID

22-52709 Bethpage High School

Matrix

Water

Collection Date/Time

August 30, 2022 3:00 pm

Date Received

08/31/2022

Volatile Organics, 8260 - Comprehensive

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
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
75-09-2	Methylene chloride	1.1	J	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG



Sample Information

Client Sample ID: MW-7

York Sample ID: 22H1762-03

York Project (SDG) No.

22H1762

Client Project ID

22-52709 Bethpage High School

Matrix

Water

Collection Date/Time

August 30, 2022 3:00 pm

Date Received

08/31/2022

Volatile Organics, 8260 - Comprehensive

Sample Prepared by Method: EPA 5030B

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-65-0	tert-Butyl alcohol (TBA)	1.4	Cal-E, CCVE	ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
108-88-3	Toluene	0.91		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	09/12/2022 06:41	09/12/2022 22:28	JTG
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/12/2022 06:41	09/12/2022 22:28	JTG
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	09/12/2022 06:41	09/12/2022 22:28	JTG

Surrogate Recoveries

Result

Acceptance Range

17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	111 %	69-130
2037-26-5	Surrogate: SURR: Toluene-d8	94.6 %	81-117
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	100 %	79-122

Volatile Organics, Tentatively Identified Cmpds.

Sample Prepared by Method: EPA 5030B

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	Freon-22	ND		ug/L		0.50	1	EPA 8260C Certifications:	09/12/2022 06:41	08/12/2022 22:28	JTG



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
22H1762-01	MW-5	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
22H1762-02	MW-6	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
22H1762-03	MW-7	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



Sample and Data Qualifiers Relating to This Work Order

QL-02 This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

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 current NELAC/TNI 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.



YORK

ANALYTICAL LABORATORIES INC.

York Analytical Laboratories, Inc.
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Stratford, CT 06615 Queens, NY 11418
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www.yorklab.com

Field Chain-of-Custody Record

YORK Project No.

22H1762

Page 1 of 1

NOTE: 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.



EMSL ANALYTICAL, INC.
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EMSL ORDER ID: 782206043
EMSL CUSTOMER ID: JCBR50

Reported Date: 10/11/2022

Current Rev R0

Final Comment 0

Attention: Steven Muller
J.C. Broderick & Associates
1775 Expressway Drive North, Suite 1
Hauppauge, NY 11788

Phone: 631-584-5492

Email: smuller@jcbroderick.com

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 09/01/2022 at 20:18. The results are tabulated on the attached data pages for the following client designated project:

MW-5

The reference number for these samples is EMSL Order #782206043. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (800)220-3675.

Dominic Gehret, Radiochemistry Laboratory Manager

or other approved signatory

The test results contained within this report meet the requirements of NELAP and/or the specific certification program that is applicable, unless otherwise noted.

NELAC Certification #: 03036

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted.



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EMSL ORDER ID: 782206043

EMSL CUSTOMER ID: JCBR50

Attention: Steven Muller
J.C. Broderick & Associates
1775 Expressway Drive North,
Suite 1
Hauppauge, NY 11788

Customer PO:
EMSL Project ID:
Project Name: MW-5

Phone: 631-584-5492
Email: smuller@jcbroderick.com

Collected: 08/30/2022 08:10
Received: 09/01/2022 20:18
Analyzed: See Results
Reported: 10/11/2022

Laboratory Report- Sample Summary

EMSL Sample ID.	Client Sample ID.	Start Sampling Date	Start Sampling Time
782206043-0001	MW-5	8/30/2022	8:10 AM

If "Preliminary Report" is displayed in the signature box; this indicates that there are samples that have not yet been analyzed, that are in a preliminary state, or that analysis is in progress but not completed at the time of report issue.

Report Date
10/11/2022

Report Revision
R0

Revision Comments
Initial Report

Dominic Gehret, Radiochemistry Laboratory Manager
or other approved signatory

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EMSL ORDER ID: 782206043
EMSL CUSTOMER ID: JCBR50

Attention: Steven Muller
J.C. Broderick & Associates
1775 Expressway Drive North,
Suite 1
Hauppauge, NY 11788

Customer PO:
EMSL Project ID:
Project Name: MW-5

Phone: 631-584-5492
Email: smuller@jcbroderick.com

Collected: 08/30/2022 08:10
Received: 09/01/2022 20:18
Analyzed: See Results
Reported: 10/11/2022

Analytical Report

Sample Identification: MW-5 **Lab Sample #:** 782206043-0001 **Date/Time Collected:** 8/30/2022 08:10 AM

Test Parameter	Units	Result	Uncertainty	SDWA DL	Start Count Date/ Time	End Count Date/ Time	Analyst	Status Count	Method	Comment
Ra-228 - EPA 904.0	pCi/L	1.52	0.940	0.910	10/03/2022 12:03	#VALUE!	RH	Not Applicable	EPA 904.0	
Ra-226-EPA 903.0	pCi/L	1.03	0.171	0.539	10/10/2022 11:42	10/10/2022 12:42	RH	Not Applicable	EPA 903.0	

Sample Specific Comments

(1)= Analyte was analyzed for, but not detected above the SDWA DL

(2)= Analyte was analyzed for, but not detected above the MDA

Additional Comments

- * The uncertainty reported is an expanded uncertainty of 1.96-sigma.
- * For NJ Rapid Gross Alpha, the uncertainty reported is an expanded uncertainty of 1.65-sigma.
- * The SDWA detection limit is defined in 40 CFR 141.25(c) as equal to the analyte concentration which can be counted with a precision of plus or minus 100% at the 95% confidencelevel (1.96σ where σ is the standard deviation of the net counting rate of the sample).
- * For drinking water, the regulatory limit for gross alpha is 15 pCi/L with an SDWA DL of 3 pCi/L..
- * For drinking water, the regulatory limit for combined radium-226 and radium-228 is 5 pCi/L with each having an SDWA DL of 1 pCi/L..
- * If gross alpha result from the 36 – 48 hour count exceeds 5pCi/L, the plancheted sample is recounted between 20 – 28 hours after the midpoint of the initial count.

If "Preliminary Report" is displayed in the signature box; this indicates that there are samples that have not yet been analyzed, that are in a preliminary state, or that analysis is in progress but not completed at the time of report issue.

Report Date
10/11/2022

Report Revision
R0

Revision Comments
Initial Report

Dominic Gehret, Radiochemistry Laboratory Manager
or other approved signatory



EMSL ANALYTICAL, INC.

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EMSL ORDER ID: 782206043

EMSL CUSTOMER ID: JCBR50

Attention: Steven Muller
J.C. Broderick & Associates
1775 Expressway Drive North,
Suite 1
Hauppauge, NY 11788

Customer PO:
EMSL Project ID:
Project Name: MW-5

Phone: 631-584-5492
Email: smuller@jcbroderick.com

Collected: 08/30/2022 08:10
Received: 09/01/2022 20:18
Analyzed: See Results
Reported: 10/11/2022

Quality Control Report

Sample Identification: MW-5		Lab Sample #: 782206043-0001						Date/Time Collected: 8/30/2022 08:10 AM							
Test Parameter	<i>Tracer/ Carrier 1</i>	Spike	Result	% Rec.	Q	<i>Tracer/ Carrier 2</i>	Spike	Result	% Rec.	Q	<i>Tracer/ Carrier 3</i>	Spike	Result	% Rec.	Q
Ra-228 - EPA 904.0	Barium Carrier	69.6	54.1	78		Yttrium Carrier	28.1	22.2	79		N/A				
Ra-226 - EPA 903.0	Barium Carrier	69.6	54.1	78		N/A					N/A				

% Recovery Criteria

30% - 125%

Qualifier Definitions

C= Carrier recovery was outside of acceptable limits.

T= Tracer recovery was outside of acceptable limits.

If "Preliminary Report" is displayed in the signature box; this indicates that there are samples that have not yet been analyzed, that are in a preliminary state, or that analysis is in progress but not completed at the time of report issue.

Report Date
10/11/2022

Report Revision
R0

Revision Comments
Initial Report

Dominic Gehret, Radiochemistry Laboratory Manager
or other approved signatory



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EMSL ORDER ID: 782206044
EMSL CUSTOMER ID: JCBR50

Reported Date: 10/11/2022

Current Rev R0

Final Comment 0

Attention: Steven Muller
J.C. Broderick & Associates
1775 Expressway Drive North, Suite 1
Hauppauge, NY 11788

Phone: 631-584-5492

Email: smuller@jcbroderick.com

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 09/01/2022 at 20:18. The results are tabulated on the attached data pages for the following client designated project:

MW-6

The reference number for these samples is EMSL Order #782206044. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (800)220-3675.

Dominic Gehret, Radiochemistry Laboratory Manager

or other approved signatory

The test results contained within this report meet the requirements of NELAP and/or the specific certification program that is applicable, unless otherwise noted.

NELAC Certification #: 03036

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EMSL ORDER ID: 782206044

EMSL CUSTOMER ID: JCBR50

Attention: Steven Muller
J.C. Broderick & Associates
1775 Expressway Drive North,
Suite 1
Hauppauge, NY 11788

Customer PO:
EMSL Project ID:
Project Name: MW-6

Phone: 631-584-5492
Email: smuller@jcbroderick.com

Collected: 08/30/2022 08:50
Received: 09/01/2022 20:18
Analyzed: See Results
Reported: 10/11/2022

Laboratory Report- Sample Summary

EMSL Sample ID.	Client Sample ID.	Start Sampling Date	Start Sampling Time
782206044-0001	MW-6	8/30/2022	8:50 AM

If "Preliminary Report" is displayed in the signature box; this indicates that there are samples that have not yet been analyzed, that are in a preliminary state, or that analysis is in progress but not completed at the time of report issue.

Report Date
10/11/2022

Report Revision

R0

Revision Comments

Initial Report

Dominic Gehret, Radiochemistry Laboratory Manager
or other approved signatory

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**EMSL ANALYTICAL, INC.**

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EMSL ORDER ID: 782206044

EMSL CUSTOMER ID: JCBR50

Attention: Steven Muller
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1775 Expressway Drive North,
Suite 1
Hauppauge, NY 11788

Customer PO:
EMSL Project ID:
Project Name: MW-6

Phone: 631-584-5492
Email: smuller@jcbroderick.com

Collected: 08/30/2022 08:50
Received: 09/01/2022 20:18
Analyzed: See Results
Reported: 10/11/2022

Analytical Report

Sample Identification: MW-6 **Lab Sample #:** 782206044-0001 **Date/Time Collected:** 8/30/2022 08:50 AM

Test Parameter	Units	Result	Uncertainty	SDWA DL	Start Count Date/ Time	End Count Date/ Time	Analyst	Status Count	Method	Comment
Ra-228 - EPA 904.0	pCi/L	1.10	0.940	0.940	10/03/2022 12:03	10/03/2022 15:23	RH	Not Applicable	EPA 904.0	
Ra-226-EPA 903.0	pCi/L	1.41	0.193	0.482	10/10/2022 11:42	10/10/2022 12:42	RH	Not Applicable	EPA 903.0	

Sample Specific Comments

(1)= Analyte was analyzed for, but not detected above the SDWA DL

(2)= Analyte was analyzed for, but not detected above the MDA

Additional Comments

* The uncertainty reported is an expanded uncertainty of 1.96-sigma.

* For NJ Rapid Gross Alpha, the uncertainty reported is an expanded uncertainty of 1.65-sigma.

* The SDWA detection limit is defined in 40 CFR 141.25(c) as equal to the analyte concentration which can be counted with a precision of plus or minus 100% at the 95% confidencelevel (1.96σ where σ is the standard deviation of the net counting rate of the sample).

* For drinking water, the regulatory limit for gross alpha is 15 pCi/L with an SDWA DL of 3 pCi/L..

* For drinking water, the regulatory limit for combined radium-226 and radium-228 is 5 pCi/L with each having an SDWA DL of 1 pCi/L.

* If gross alpha result from the 36 – 48 hour count exceeds 5pCi/L, the plancheted sample is recounted between 20 – 28 hours after the midpoint of the initial count.

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Report Date
10/11/2022

Report Revision
R0

Revision Comments
Initial Report

Dominic Gehret, Radiochemistry Laboratory Manager
or other approved signatory



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EMSL ORDER ID: 782206044

EMSL CUSTOMER ID: JCBR50

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Hauppauge, NY 11788

Customer PO:
EMSL Project ID:
Project Name: MW-6

Phone: 631-584-5492
Email: smuller@jcbroderick.com

Collected: 08/30/2022 08:50
Received: 09/01/2022 20:18
Analyzed: See Results
Reported: 10/11/2022

Quality Control Report

Sample Identification: MW-6		Lab Sample #: 782206044-0001						Date/Time Collected: 8/30/2022 08:50 AM							
Test Parameter	Tracer/ Carrier 1	Spike	Result	% Rec.	Q	Tracer/ Carrier 2	Spike	Result	% Rec.	Q	Tracer/ Carrier 3	Spike	Result	% Rec.	Q
Ra-228 - EPA 904.0	Barium Carrier	69.6	54.7	79		Yttrium Carrier	28.1	23.3	83		N/A				
Ra-226 - EPA 903.0	Barium Carrier	69.6	54.7	79		N/A					N/A				

% Recovery Criteria

30% - 125%

Qualifier Definitions

C= Carrier recovery was outside of acceptable limits.

T= Tracer recovery was outside of acceptable limits.

If "Preliminary Report" is displayed in the signature box; this indicates that there are samples that have not yet been analyzed, that are in a preliminary state, or that analysis is in progress but not completed at the time of report issue.

Report Date
10/11/2022

Report Revision
R0

Revision Comments
Initial Report

Dominic Gehret, Radiochemistry Laboratory Manager
or other approved signatory



EMSL ANALYTICAL, INC.
200 Route 130 North
Cinnaminson, NJ 08077
Telephone: (800)220-3675 FAX: (856)786-0327
cinnaminsonradonlab@emsl.com | <http://www.EMSL.com>

EMSL ORDER ID: 782206045
EMSL CUSTOMER ID: JCBR50

Reported Date: 10/11/2022

Current Rev R0

Final Comment 0

Attention: Steven Muller
J.C. Broderick & Associates
1775 Expressway Drive North, Suite 1
Hauppauge, NY 11788

Phone: 631-584-5492

Email: smuller@jcbroderick.com

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 09/01/2022 at 20:18. The results are tabulated on the attached data pages for the following client designated project:

MW-7

The reference number for these samples is EMSL Order #782206045. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (800)220-3675.

Dominic Gehret, Radiochemistry Laboratory Manager
or other approved signatory

The test results contained within this report meet the requirements of NELAP and/or the specific certification program that is applicable, unless otherwise noted.

NELAC Certification #: 03036

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted.



EMSL ANALYTICAL, INC.

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cinnaminsonradonlab@emsl.com | <http://www.EMSL.com>

EMSL ORDER ID: 782206045

EMSL CUSTOMER ID: JCBR50

Attention: Steven Muller
J.C. Broderick & Associates
1775 Expressway Drive North,
Suite 1
Hauppauge, NY 11788

Customer PO:
EMSL Project ID:
Project Name: MW-7

Phone: 631-584-5492
Email: smuller@jcbroderick.com

Collected: 08/30/2022 10:00
Received: 09/01/2022 20:18
Analyzed: See Results
Reported: 10/11/2022

Laboratory Report- Sample Summary

EMSL Sample ID.	Client Sample ID.	Start Sampling Date	Start Sampling Time
782206045-0001	MW-7	8/30/2022	10:00 AM

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Report Date
10/11/2022 **Report Revision**
R0 **Revision Comments**
Initial Report

Dominic Gehret, Radiochemistry Laboratory Manager
or other approved signatory

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Samples are within quality control criteria and met method specifications unless otherwise noted.

**EMSL ANALYTICAL, INC.**

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Cinnaminson, NJ 08077
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cinnaminsonradonlab@emsl.com | <http://www.EMSL.com>

EMSL ORDER ID: 782206045
EMSL CUSTOMER ID: JCBR50

Attention: Steven Muller
J.C. Broderick & Associates
1775 Expressway Drive North,
Suite 1
Hauppauge, NY 11788

Customer PO:
EMSL Project ID:
Project Name: MW-7

Phone: 631-584-5492
Email: smuller@jcbroderick.com

Collected: 08/30/2022 10:00
Received: 09/01/2022 20:18
Analyzed: See Results
Reported: 10/11/2022

Analytical Report

Sample Identification: MW-7

Lab Sample #: 782206045-0001 Date/Time Collected: 8/30/2022 10:00 AM

Test Parameter	Units	Result	Uncertainty	SDWA DL	Start Count Date/ Time	End Count Date/ Time	Analyst	Status Count	Method	Comment
Ra-228 - EPA 904.0	pCi/L	-2.08	0.760	0.880	10/03/2022 12:03	10/03/2022 15:23	RH	Not Applicable	EPA 904.0	(1)
Ra-226-EPA 903.0	pCi/L	0.99	0.158	0.411	10/10/2022 11:42	10/10/2022 12:42	RH	Not Applicable	EPA 903.0	

Sample Specific Comments

(1)= Analyte was analyzed for, but not detected above the SDWA DL

(2)= Analyte was analyzed for, but not detected above the MDA

Additional Comments

- * The uncertainty reported is an expanded uncertainty of 1.96-sigma.
- * For NJ Rapid Gross Alpha, the uncertainty reported is an expanded uncertainty of 1.65-sigma.
- * The SDWA detection limit is defined in 40 CFR 141.25(c) as equal to the analyte concentration which can be counted with a precision of plus or minus 100% at the 95% confidencelevel (1.96σ where σ is the standard deviation of the net counting rate of the sample).
- * For drinking water, the regulatory limit for gross alpha is 15 pCi/L with an SDWA DL of 3 pCi/L..
- * For drinking water, the regulatory limit for combined radium-226 and radium-228 is 5 pCi/L with each having an SDWA DL of 1 pCi/L.
- * If gross alpha result from the 36 – 48 hour count exceeds 5pCi/L, the plancheted sample is recounted between 20 – 28 hours after the midpoint of the initial count.

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Report Date
10/11/2022

Report Revision
R0

Revision Comments
Initial Report

Dominic Gehret, Radiochemistry Laboratory Manager
or other approved signatory



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EMSL ORDER ID: 782206045

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Attention: Steven Muller
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Suite 1
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Customer PO:
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Project Name: MW-7

Phone: 631-584-5492
Email: smuller@jcbroderick.com

Collected: 08/30/2022 10:00
Received: 09/01/2022 20:18
Analyzed: See Results
Reported: 10/11/2022

Quality Control Report

Sample Identification: MW-7				Lab Sample #: 782206045-0001				Date/Time Collected: 8/30/2022 10:00 AM							
Test Parameter	<i>Tracer/ Carrier 1</i>	<i>Spike</i>	<i>Result</i>	<i>% Rec.</i>	<i>Q</i>	<i>Tracer/ Carrier 2</i>	<i>Spike</i>	<i>Result</i>	<i>% Rec.</i>	<i>Q</i>	<i>Tracer/ Carrier 3</i>	<i>Spike</i>	<i>Result</i>	<i>% Rec.</i>	<i>Q</i>
Ra-228 - EPA 904.0	Barium Carrier	69.6	59.9	86		Yttrium Carrier	28.1	25.5	91		N/A				
Ra-226 - EPA 903.0	Barium Carrier	69.6	59.9	86		N/A					N/A				

% Recovery Criteria

30% - 125%

Qualifier Definitions

C= Carrier recovery was outside of acceptable limits.

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Report Date
10/11/2022

Report Revision
R0

Revision Comments
Initial Report

Dominic Gehret, Radiochemistry Laboratory Manager
or other approved signatory



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

RECEIVED
EMSL
CINNAMINSON, NJ

Radiochemical Analysis Chain of Custody

EMSL Order Number (Lab Use Only):

22 SEP -1 PM 8:19 782206-

Contact Name:	Steven Muller			Bill To Company:	JC Broderick and Associates, Inc.						Sampled By (Sign):							
Company Name:	JC Broderick & Associates, Inc.			Attention To:							Sampled By (Name):	Jeffrey Nannini						
Address: 1775 Express Drive North				Address:						Total # of Samples: 3								
City: Hauppauge	State: NY	Zip Code: 11788		City:		State:		Zip Code:	Date of Shipping: 8/30/2022									
Telephone #: 631-584-5492			Fax : 631-584-3395	Telephone #:			Fax :			Sample State/ Zip Code: New York / 11714								
Email: smuller@jcbroderick.com				Project Name: Bethpage HS						Purchase Order: 22-52709								
Turn Around																		
Time:	<input type="checkbox"/> 4 weeks (Standard)		Client Specific:		<input type="checkbox"/> 48 Hours		<input type="checkbox"/> 96 Hours		<input type="checkbox"/> 1 week		<input type="checkbox"/> 2 weeks		<input checked="" type="checkbox"/> 3 Weeks					
Field Use - All Information Required!					Analytes													
Client Sample ID	Lab ID (For Lab Use only)	Matrix	Size (mL, g)	Date/Time	Gross Alpha		Gross Beta	Ra-228	Ra-226	Total Uranium	Gamma Emitters	Actinides (U, Th, Pu, Am)	Sr-89, Sr-90	I-131	Radon	Tritium	Tc-99	Note
					NJ 48 Hrs	EPA 900												
MW-5		GW	500 ml	8/30/2022 / 8:10 AM			X	X										
MW-6		GW	500 ml	8/30/2022 / 8:50 AM			X	X										
MW-7		GW	500 ml	8/30/2022 / 10:00 AM			X	X										
Report Requirement*: <input type="checkbox"/> Level One <input checked="" type="checkbox"/> Level Two <input type="checkbox"/> Level Three																		
Relinquished by:	Date/ Time		Received by:		Date/ Time			Note										
<i>M. M.</i>	8/30/2022		<i>Katherine Vlach</i>		8-31-2022 8:23 PM			Bethpage High School										
			<i>NW courier</i>		9/1 8:15 PM			10 Cherry Avenue, Bethpage, NY 11714										
*Level One =Results only; Level Two = Results and QC; Level Three = Results, QC, Logs, Worksheets, Printout/Spectrum and Calibrations																		

*Level One =Results only; Level Two = Results and QC; Level Three = Results, QC, Logs, Worksheets, Printout/Spectrum and Calibrations