

# **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 #: 19-44414  
NOVEMBER 2019**

**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 October 1, 2019, JCB checked the monitoring wells for the presence of light non-aqueous phase liquid (LNAPL) utilizing a Solinst® Model 122 Product/Water Interface Meter 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	51.10	67.78
MW-6	119.04	No Product	51.56	67.48
MW-7	118.72	No Product	51.61	67.11

**Notes:**  
ft = Feet

### **Section No. 3.2: Groundwater Sampling**

On October 1, 2019, 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 with mechanical assistance. 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)							
	51.10	62.40	11.3							
Time	Temp (°C)	TDS (g/l)	DO (%)	pH	ORP (mV)					
7:35	17.86	0.732	4.53	8.12	275.6					
7:40	17.79	0.738	3.95	8.01	276.9					
7:45	17.71	0.741	3.71	7.88	279.8					
7:50	Samples Collected									
MW-6	DTW (ft)	TD (ft)	Water Column (ft)							
	51.57	62.70	11.03							
Time	Temp (°C)	TDS (g/l)	DO (%)	pH	ORP (mV)					
8:24	17.83	0.723	4.31	8.06	283.0					
8:30	17.76	0.715	4.02	7.85	287.6					
8:35	17.69	0.718	3.87	7.53	297.5					
8:40	Samples Collected									
MW-7	DTW (ft)	TD (ft)	Water Column (ft)							
	51.61	62.40	10.79							
Time	Temp (°C)	TDS (g/l)	DO (%)	pH	ORP (mV)					
9:08	17.98	0.722	4.29	8.09	276.4					
9:11	17.84	0.717	3.73	7.70	279.0					
9:16	17.72	0.730	3.69	7.26	280.8					
9:20	Samples Collected									
<b>Notes:</b>										
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	10-1-19	Monitoring Well No. 5	EPA 8260 + Freon EPA 903.0 EPA 904.0
MW-6	10-1-19	Monitoring Well No. 6	EPA 8260 + Freon EPA 903.0 EPA 904.0
MW-7	10-1-19	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. 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. 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 Samples Submitted for VOC Analysis								
Sample ID York ID Sampling Date Client Matrix		NYSDEC TOGS Standards and Guidance Values - GA	MW-5 19J0178-01 10/1/2019 Water		MW-6 19J0178-02 10/1/2019 Water		MW-7 19J0178-03 10/1/2019 Water	
Compound	CAS Number		Result	Q	Result	Q	Result	Q
Volatile Organics, 8260 List - Low Level		ug/L	ug/L		ug/L		ug/L	
Dilution Factor			1		1		1	
1,1-Dichloroethane	75-34-3	5	0.200	U	0.360	J	0.200	U
1,2,4-Trimethylbenzene	95-63-6	5	0.250	J	0.200	U	0.200	U
Toluene	108-88-3	5	0.330	J	0.780		0.970	

**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

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 1,1-dichloroethane, 1,2,4-trimethylbenzene, and toluene; 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 Samples Submitted for Radon Analysis				
Client Sample ID	Allowable Standards	MW-5	MW-6	MW-7
EPA 903.0 & EPA 904	pCi/L	10/1/2019	10/1/2019	10/1/2019
Radium 226 (pCi/g)	3.0	0.79	1.40	3.84
Radium 228 (pCi/g)	5.0	2.69	3.11	8.86

**Notes:**  
pCi/L = picocuries per liter

The review of the laboratory Radon 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 samples submitted from MW-7 did indicate elevated concentrations of Radium 226 and Radium 228 exceeding the above referenced guidance values for groundwater.

#### **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 between 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:

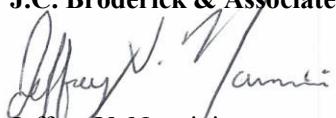
The laboratory analysis results from the groundwater samples submitted did not indicate elevated concentrations of any VOCs above the NYSDEC TOGS 1.1.1 guidance values for groundwater.

The laboratory analysis results from the groundwater samples submitted did indicate elevated concentrations of Radium 226 and Radium 228 above the NYSDEC TOGS 1.1.1 guidance values for groundwater.

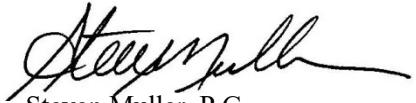
Based upon the detected concentrations of VOCs and Radium in the collected groundwater samples it is recommended that periodic groundwater and volatile vapor intrusion (VVI) sampling be continued to monitor site conditions. VVI sampling is currently scheduled for during the March 2020 break.

Sincerely,

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



Jeffrey V. Nannini  
Environmental Scientist



Steven Muller, P.G.  
Director – Subsurface Division

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## **Appendix A**

## **Figures**



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Bethpage, NY 11714

Drawing Title

Figure No. 1

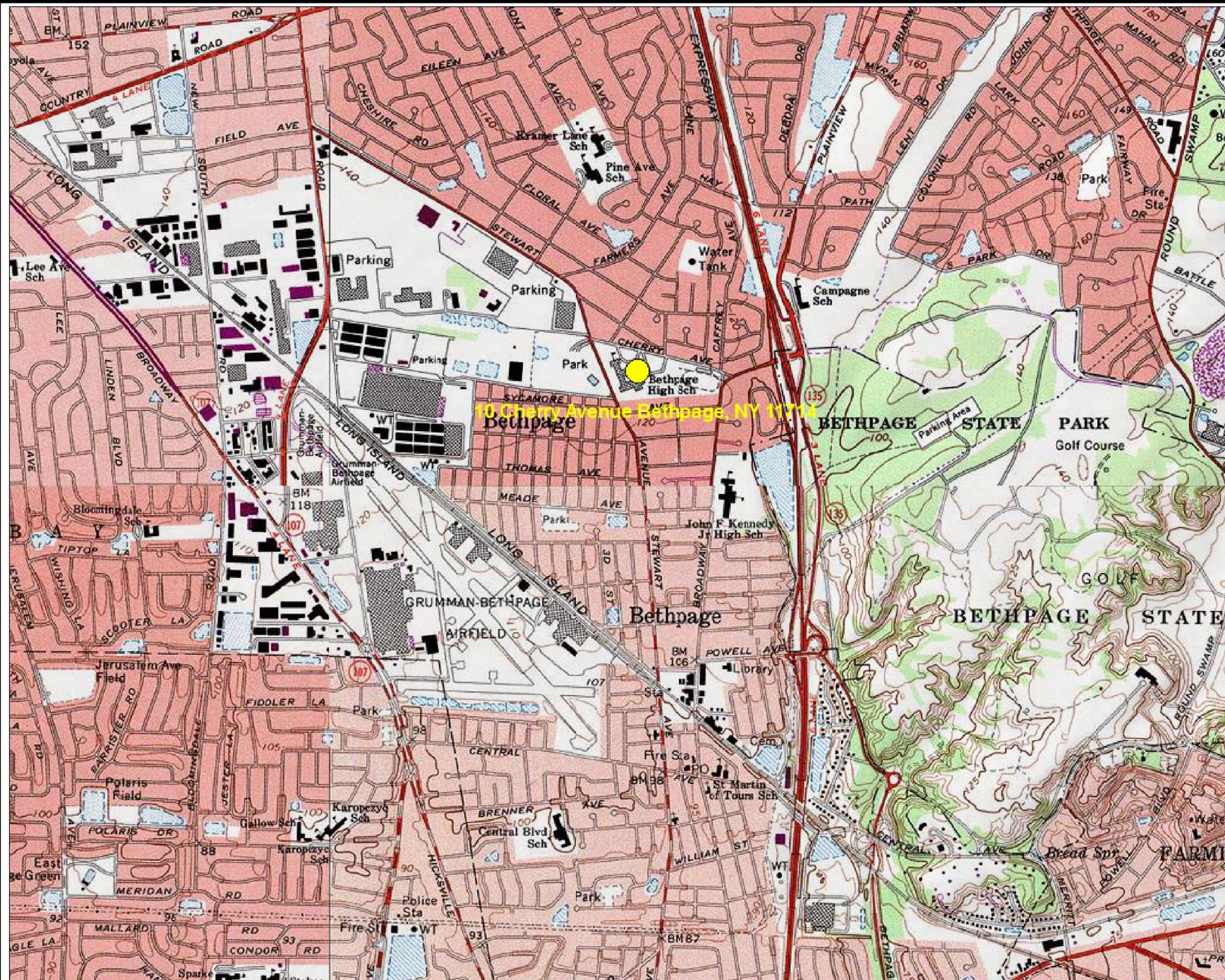
Site Location Map

Scale Project No. Date  
As Noted 19-44414 10-10-19

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

Drawing No.

1



**JCB LEGEND**

■ SUBJECT SITE

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



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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 19-44414 10-10-19

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

Drawing No.

2



JCB LEGEND

GROUNDWATER MONITORING WELL



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Notes:

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Drawing Title

Figure No. 3

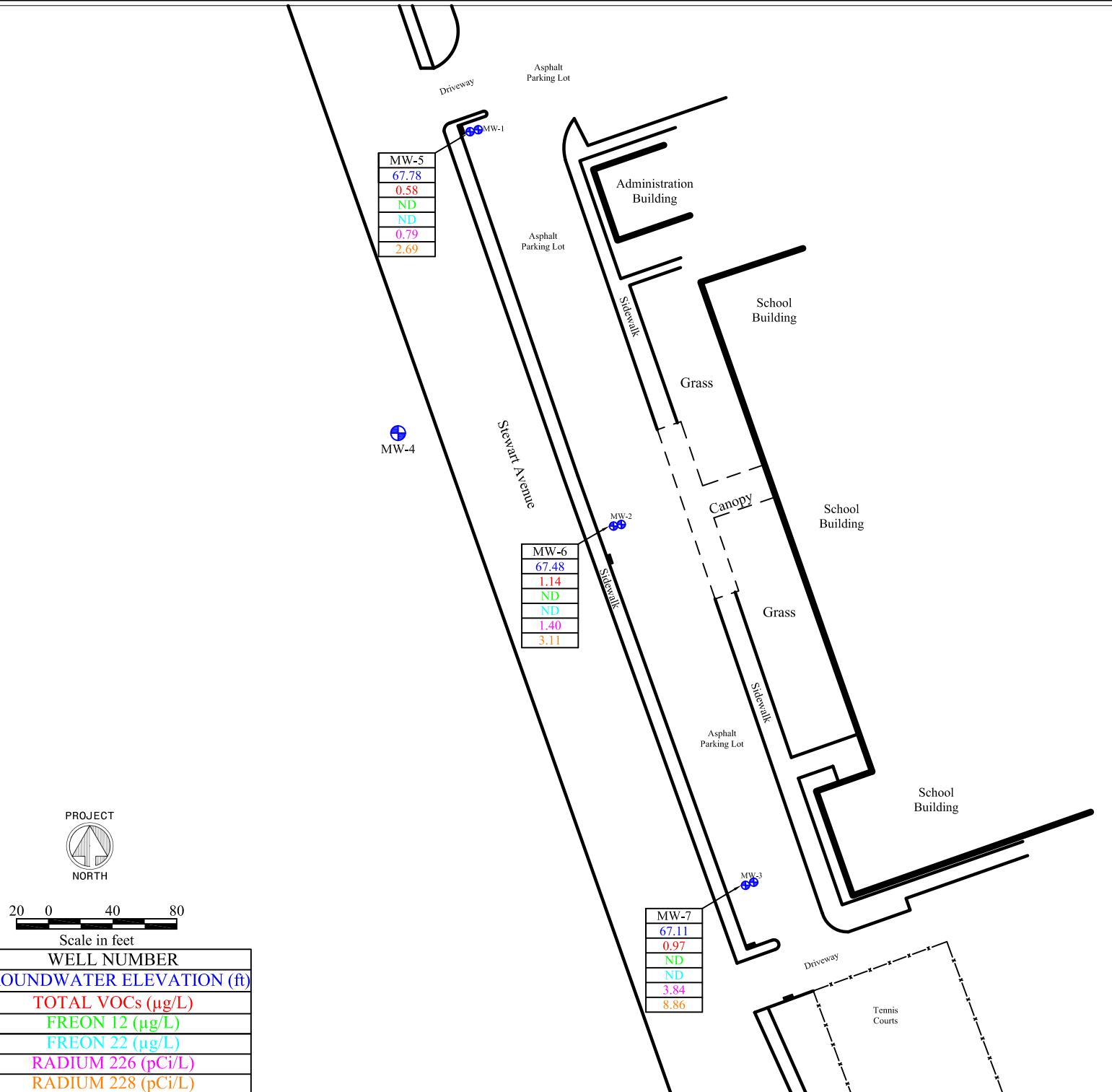
Analytical Results  
Map

Scale Project No. Date  
As Noted 19-44414 10-10-19

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

Drawing No.

3



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## **Appendix B**

## **Photo Log**

**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#: 19-44414**

**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#: 19-44414**

**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#: 19-44414**

## Groundwater Sampling



IMG\_9478.MOV



## Field Photograph Log

### Groundwater Sampling Report

Bethpage High School  
10 Cherry Avenue  
Bethpage, New York 11714



Photo No. 05

JCB#: 19-44414

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## **Appendix D**

# **Laboratory Analysis Report**



# Technical Report

prepared for:

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

Report Date: 10/11/2019  
**Client Project ID: 19-44414**  
York Project (SDG) No.: 19J0178

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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[ClientServices@yorklab.com](mailto:ClientServices@yorklab.com)

Report Date: 10/11/2019  
Client Project ID: 19-44414  
York Project (SDG) No.: 19J0178

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

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## 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 October 03, 2019 with a temperature of 2.4 C. The project was identified as your project: **19-44414**.

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.

<b><u>York Sample ID</u></b>	<b><u>Client Sample ID</u></b>	<b><u>Matrix</u></b>	<b><u>Date Collected</u></b>	<b><u>Date Received</u></b>
19J0178-01	MW-5	Water	10/01/2019	10/03/2019
19J0178-02	MW-6	Water	10/01/2019	10/03/2019
19J0178-03	MW-7	Water	10/01/2019	10/03/2019

## **General Notes for York Project (SDG) No.: 19J0178**

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:**



**Date:** 10/11/2019

Benjamin Gulizia  
Laboratory Director





## Sample Information

**Client Sample ID:** MW-5

**York Sample ID:** 19J0178-01

York Project (SDG) No.

19J0178

Client Project ID

19-44414

Matrix

Water

Collection Date/Time

October 1, 2019 12:00 am

Date Received

10/03/2019

### Volatile Organics, 8260 List - Low Level

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,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
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,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	10/10/2019 06:32	10/11/2019 02:28	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAC	10/10/2019 06:32	10/11/2019 02:28	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAC	10/10/2019 06:32	10/11/2019 02:28	LLJ
95-93-2	* 1,2,4,5-Tetramethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/10/2019 06:32	10/11/2019 02:28	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAC	10/10/2019 06:32	10/11/2019 02:28	LLJ
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>0.25</b>	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAC	10/10/2019 06:32	10/11/2019 02:28	LLJ



## Sample Information

**Client Sample ID:** MW-5

**York Sample ID:**

**19J0178-01**

York Project (SDG) No.

19J0178

Client Project ID

19-44414

Matrix

Water

Collection Date/Time

October 1, 2019 12:00 am

Date Received

10/03/2019

### Volatile Organics, 8260 List - Low Level

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
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAE	10/10/2019 06:32	10/11/2019 02:28	LLJ
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAE	10/10/2019 06:32	10/11/2019 02:28	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAE	10/10/2019 06:32	10/11/2019 02:28	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ



## Sample Information

**Client Sample ID:** MW-5

**York Sample ID:**

**19J0178-01**

**York Project (SDG) No.**

19J0178

**Client Project ID**

19-44414

**Matrix**

Water

**Collection Date/Time**

October 1, 2019 12:00 am

**Date Received**

10/03/2019

### Volatile Organics, 8260 List - Low Level

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
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAE	10/10/2019 06:32	10/11/2019 02:28	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAE	10/10/2019 06:32	10/11/2019 02:28	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAE	10/10/2019 06:32	10/11/2019 02:28	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAE	10/10/2019 06:32	10/11/2019 02:28	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	10/10/2019 06:32	10/11/2019 02:28	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	10/10/2019 06:32	10/11/2019 02:28	LLJ
105-05-5	* p-Diethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/10/2019 06:32	10/11/2019 02:28	LLJ
622-96-8	* p-Ethyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/10/2019 06:32	10/11/2019 02:28	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ



## Sample Information

<u>Client Sample ID:</u> MW-5		<u>York Sample ID:</u>	19J0178-01
<u>York Project (SDG) No.</u> 19J0178	<u>Client Project ID</u> 19-44414	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 1, 2019 12:00 am

### Volatile Organics, 8260 List - Low Level

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		
108-88-3	Toluene	0.33	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ		
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ		
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ		
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ		
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:28	LLJ		
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>										
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	103 %			69-130								
2037-26-5	Surrogate: SURR: Toluene-d8	97.9 %			81-117								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	101 %			79-122								

## Sample Information

<u>Client Sample ID:</u> MW-6		<u>York Sample ID:</u>	19J0178-02
<u>York Project (SDG) No.</u> 19J0178	<u>Client Project ID</u> 19-44414	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 1, 2019 12:00 am

### Volatile Organics, 8260 List - Low Level

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,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
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,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ



## Sample Information

<b>Client Sample ID:</b> MW-6		<b>York Sample ID:</b>	<b>19J0178-02</b>
<u>York Project (SDG) No.</u> 19J0178	<u>Client Project ID</u> 19-44414	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 1, 2019 12:00 am

### Volatile Organics, 8260 List - Low Level

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
75-34-3	1,1-Dichloroethane	0.36	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	10/10/2019 06:32	10/11/2019 02:54	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAA	10/10/2019 06:32	10/11/2019 02:54	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAA	10/10/2019 06:32	10/11/2019 02:54	LLJ
95-93-2	* 1,2,4,5-Tetramethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/10/2019 06:32	10/11/2019 02:54	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAA	10/10/2019 06:32	10/11/2019 02:54	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAA	10/10/2019 06:32	10/11/2019 02:54	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAA	10/10/2019 06:32	10/11/2019 02:54	LLJ
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ



## Sample Information

<b>Client Sample ID:</b> MW-6		<b>York Sample ID:</b> 19J0178-02
<u>York Project (SDG) No.</u> 19J0178	<u>Client Project ID</u> 19-44414	<u>Matrix</u> Water <u>Collection Date/Time</u> October 1, 2019 12:00 am <u>Date Received</u> 10/03/2019

### Volatile Organics, 8260 List - Low Level

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
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,P&E	10/10/2019 06:32	10/11/2019 02:54	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,P&E	10/10/2019 06:32	10/11/2019 02:54	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,P&E	10/10/2019 06:32	10/11/2019 02:54	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,P&E	10/10/2019 06:32	10/11/2019 02:54	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ



## Sample Information

Client Sample ID: MW-6

York Sample ID:

**19J0178-02**

York Project (SDG) No.

19J0178

Client Project ID

19-44414

Matrix

Water

Collection Date/Time

October 1, 2019 12:00 am

Date Received

10/03/2019

### Volatile Organics, 8260 List - Low Level

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
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAE	10/10/2019 06:32	10/11/2019 02:54	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAE	10/10/2019 06:32	10/11/2019 02:54	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	10/10/2019 06:32	10/11/2019 02:54	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	10/10/2019 06:32	10/11/2019 02:54	LLJ
105-05-5	* p-Diethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/10/2019 06:32	10/11/2019 02:54	LLJ
622-96-8	* p-Ethyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/10/2019 06:32	10/11/2019 02:54	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/10/2019 06:32	10/11/2019 02:54	LLJ
108-88-3	Toluene	<b>0.78</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 02:54	LLJ



## Sample Information

Client Sample ID: MW-6

York Sample ID:

**19J0178-02**

York Project (SDG) No.

19J0178

Client Project ID

19-44414

Matrix

Water

Collection Date/Time

October 1, 2019 12:00 am

Date Received

10/03/2019

### Volatile Organics, 8260 List - Low Level

#### 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
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	10/10/2019 06:32	10/11/2019 02:54	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	10/10/2019 06:32	10/11/2019 02:54	LLJ
<b>Surrogate Recoveries</b>											
17060-07-0	<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	105 %			69-130						
2037-26-5	<i>Surrogate: SURR: Toluene-d8</i>	98.5 %			81-117						
460-00-4	<i>Surrogate: SURR: p-Bromofluorobenzene</i>	99.6 %			79-122						

## Sample Information

Client Sample ID: MW-7

York Sample ID:

**19J0178-03**

York Project (SDG) No.

19J0178

Client Project ID

19-44414

Matrix

Water

Collection Date/Time

October 1, 2019 12:00 am

Date Received

10/03/2019

### Volatile Organics, 8260 List - Low Level

#### 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	10/10/2019 06:32	10/11/2019 03:20	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/10/2019 06:32	10/11/2019 03:20	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/10/2019 06:32	10/11/2019 03:20	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	10/10/2019 06:32	10/11/2019 03:20	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/10/2019 06:32	10/11/2019 03:20	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/10/2019 06:32	10/11/2019 03:20	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/10/2019 06:32	10/11/2019 03:20	LLJ
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/10/2019 06:32	10/11/2019 03:20	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/10/2019 06:32	10/11/2019 03:20	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/10/2019 06:32	10/11/2019 03:20	LLJ



## Sample Information

<u>Client Sample ID:</u> MW-7	<u>York Sample ID:</u> 19J0178-03			
<u>York Project (SDG) No.</u> 19J0178	<u>Client Project ID</u> 19-44414	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 1, 2019 12:00 am	<u>Date Received</u> 10/03/2019

### Volatile Organics, 8260 List - Low Level

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
95-93-2	* 1,2,4,5-Tetramethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/10/2019 06:32	10/11/2019 03:20	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/10/2019 06:32	10/11/2019 03:20	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/10/2019 06:32	10/11/2019 03:20	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/10/2019 06:32	10/11/2019 03:20	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/10/2019 06:32	10/11/2019 03:20	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/10/2019 06:32	10/11/2019 03:20	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/10/2019 06:32	10/11/2019 03:20	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/10/2019 06:32	10/11/2019 03:20	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/10/2019 06:32	10/11/2019 03:20	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/10/2019 06:32	10/11/2019 03:20	LLJ
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/10/2019 06:32	10/11/2019 03:20	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/10/2019 06:32	10/11/2019 03:20	LLJ
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/10/2019 06:32	10/11/2019 03:20	LLJ
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/10/2019 06:32	10/11/2019 03:20	LLJ
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/10/2019 06:32	10/11/2019 03:20	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/10/2019 06:32	10/11/2019 03:20	LLJ
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/10/2019 06:32	10/11/2019 03:20	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/10/2019 06:32	10/11/2019 03:20	LLJ
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	10/10/2019 06:32	10/11/2019 03:20	LLJ
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/10/2019 06:32	10/11/2019 03:20	LLJ
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/10/2019 06:32	10/11/2019 03:20	LLJ



## Sample Information

<u>Client Sample ID:</u> MW-7	<u>York Sample ID:</u> 19J0178-03			
<u>York Project (SDG) No.</u> 19J0178	<u>Client Project ID</u> 19-44414	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 1, 2019 12:00 am	<u>Date Received</u> 10/03/2019

### Volatile Organics, 8260 List - Low Level

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
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAE	10/10/2019 06:32	10/11/2019 03:20	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 03:20	LLJ
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 03:20	LLJ
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 03:20	LLJ
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 03:20	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 03:20	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 03:20	LLJ
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 03:20	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 03:20	LLJ
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 03:20	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 03:20	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 03:20	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 03:20	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAE	10/10/2019 06:32	10/11/2019 03:20	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAE	10/10/2019 06:32	10/11/2019 03:20	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 03:20	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAE	10/10/2019 06:32	10/11/2019 03:20	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 03:20	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 03:20	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 03:20	LLJ
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAE	10/10/2019 06:32	10/11/2019 03:20	LLJ



## Sample Information

<u>Client Sample ID:</u> MW-7	<u>York Sample ID:</u> 19J0178-03			
<u>York Project (SDG) No.</u> 19J0178	<u>Client Project ID</u> 19-44414	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 1, 2019 12:00 am	<u>Date Received</u> 10/03/2019

### Volatile Organics, 8260 List - Low Level

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
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 03:20	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 03:20	LLJ
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	10/10/2019 06:32	10/11/2019 03:20	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	10/10/2019 06:32	10/11/2019 03:20	LLJ
105-05-5	* p-Diethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/10/2019 06:32	10/11/2019 03:20	LLJ
622-96-8	* p-Ethyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	10/10/2019 06:32	10/11/2019 03:20	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 03:20	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 03:20	LLJ
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 03:20	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 03:20	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 03:20	LLJ
108-88-3	Toluene	<b>0.97</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 03:20	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 03:20	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 03:20	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 03:20	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 03:20	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 03:20	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	10/10/2019 06:32	10/11/2019 03:20	LLJ
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	108 %	69-130								
2037-26-5	Surrogate: SURR: Toluene-d8	99.0 %	81-117								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	101 %	79-122								



### Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
19J0178-01	MW-5	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J0178-02	MW-6	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J0178-03	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.
- CCV-E 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).
- B Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

### 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.

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**YORK**  
 ANALYTICAL LABORATORIES INC.

# Field Chain-of-Custody Record

YORK Project No.

19J0178

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.

YOUR Information		Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: <b>JCBRODENICK &amp; ASSOC.</b>	Address: <b>175 EXPRESSWAY, DL-N Hempstead, NY 11788</b>	Company: <b>JCB</b>	Address:	19-44414	RUSH - Next Day
Phone.: <b>(631) 584-5492</b>	Contact: <b>S. MULLON</b>	Phone.: <b></b>	Contact: <b></b>	YOUR Project Name <b>BETHPAGE HS</b>	RUSH - Two Day
E-mail: <b>S.mullen</b>	E-mail: <b></b>	E-mail: <b></b>	E-mail: <b></b>	YOUR PO#:	RUSH - Three Day
Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.					
					
Samples Collected by: (print your name above and sign below) 					
Sample Identification		Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
mw-5		GW	10/1/19	EPA 8260 + FREON	3-40 ml
mw-6		GW	10/1/19	EPA 8260 + FREON	3-40 ml
mw-7		GW	10/1/19	EPA 8260 + FREON	3-40 ml

Comments:			Preservation: (check all that apply)		Special Instruction
			HCl <input checked="" type="checkbox"/> MeOH <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> ZnAc <input type="checkbox"/> Ascorbic Acid <input type="checkbox"/> Other: _____	Field Filtered <input type="checkbox"/> Lab to Filter <input type="checkbox"/>	
Samples Relinquished by / Company 	Date/Time 10/2/19	Samples Received by / Company <b>K.Bahnik</b>	Date/Time 10/3/19 10:00 AM	Samples Relinquished by / Company <b>K.Bahnik</b>	Date/Time 10/3/19 1830
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by <b>T.C. Tahlia</b>	Date/Time
				Temp. Received at Lab <b>24</b>	Dangerous C

**EMSL Analytical, Inc.**

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<http://www.emsl.com> [cinnaminsonradonlab@emsl.com](mailto:cinnaminsonradonlab@emsl.com)

EMSL Order #: 781908041

Customer ID: JCBR50

Customer PO: 19-44414

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

Phone: 631-584-5492  
Fax: Not Available

Project: **Bethpage High School / 10 Cherry Avenue, Bethpage, NY 11714**

Date Collected: 10/1/2019

Date Received: 10/4/2019

NELAC Certification #: 03036

**Analytical Report****Sample Identification: MW-5****Lab Sample #: 781908041-0001****Date/Time Collected: 10/1/2019 07:50 AM**

<b>Test Parameter</b>	<b>Units</b>	<b>Result</b>	<b>Uncertainty</b>	<b>SDWA DL</b>	<b>Start Count Date/ Time</b>	<b>Analyst</b>	<b>Status Count</b>	<b>Method</b>	<b>Comment</b>
<b>Ra-228 - EPA 904.0</b>	pCi/L	2.690	0.830	0.700	10/17/2019 11:23	JW	Not Applicable	EPA 904.0	
<b>Ra-226-EPA 903.0</b>	pCi/L	0.790	0.120	0.170	11/5/2019 16:55	JW	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

\* 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% confidence level (1.96 $\sigma$  where  $\sigma$  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.

\* All analysis met quality control acceptance criteria unless specified on QC Report.

Report DateReport RevisionRevision Comments

11/7/2019

R0

Initial Report

Dominic Gehret, Radiochemistry Laboratory Manager

In no event shall EMSL be liable for indirect, special, consequential, or incidental damages, including, but not limited to, damages for loss of profit or goodwill regardless of the negligence (either sole or concurrent) of EMSL and whether EMSL has been informed of the possibility of such damages, arising out of or in connection with EMSL's services thereunder or the delivery, use, reliance upon or interpretation of test results by client or any third party. We accept no legal responsibility for the purposes for which the client uses the test results. In no event shall EMSL be liable to a client or any third party, whether based upon theories of tort, contract or any other legal or equitable theory, in excess of the amount paid to EMSL by client thereunder. The test results meets all NELAC requirements unless otherwise specified.

**EMSL Analytical, Inc.**

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EMSL Order #: 781908041

Customer ID: JCBR50

Customer PO: 19-44414

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

Phone: 631-584-5492  
 Fax: Not Available

Project: **Bethpage High School / 10 Cherry Avenue, Bethpage, NY 11714**

Date Collected: 10/1/2019  
 Date Received: 10/4/2019

NELAC Certification #: 03036

**Quality Control Report**

**Sample Identification: MW-5**      **Lab Sample #: 781908041-0001**      **Date/Time Collected: 10/1/2019 07:50 AM**

<b>Test Parameter</b>	<b>Tracer/ Carrier 1</b>	<b>Spike</b>	<b>Result</b>	<b>% Rec.</b>	<b>Q</b>	<b>Tracer/ Carrier 2</b>	<b>Spike</b>	<b>Result</b>	<b>% Rec.</b>	<b>Q</b>	<b>Tracer/ Carrier 3</b>	<b>Spike</b>	<b>Result</b>	<b>% Rec.</b>	<b>Q</b>
R020 Ra-228 - EPA 904.0	Barium Carrier	55.2	53.1	96		Yttrium Carrier	27.7	18.6	67		N/A				
R021 Ra-226-EPA 903.0	Barium Carrier	55.2	53.1	96		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.

Report Date

11/7/2019

Report Revision

R0

Revision Comments

Initial Report

Dominic Gehret, Radiochemistry Laboratory Manager

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EMSL Order #: 781908042

Customer ID: JCBR50

Customer PO: 19-44414

Attn: **Steven Muller**  
**J.C. Broderick & Associates**  
**1775 Expressway Drive North, Suite 1**  
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Phone: 631-584-5492  
Fax: Not Available

Project: **Bethpage High School / 10 Cherry Avenue, Bethpage, NY 11714**

Date Collected: 10/1/2019

Date Received: 10/4/2019

NELAC Certification #: 03036

**Analytical Report****Sample Identification: MW-6****Lab Sample #: 781908042-0001****Date/Time Collected: 10/1/2019 08:40 AM**

Test Parameter	Units	Result	Uncertainty	SDWA DL	Start Count Date/ Time	Analyst	Status Count	Method	Comment
Ra-228 - EPA 904.0	pCi/L	3.110	0.880	0.710	10/17/2019 16:26	JW	Not Applicable	EPA 904.0	
Ra-226-EPA 903.0	pCi/L	1.400	0.160	0.200	11/5/2019 16:55	JW	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

\* 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% confidence level (1.96 $\sigma$  where  $\sigma$  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.

\* All analysis met quality control acceptance criteria unless specified on QC Report.

**Report Date****Report Revision****Revision Comments**

11/7/2019

R0

Initial Report

Dominic Gehret, Radiochemistry Laboratory Manager

In no event shall EMSL be liable for indirect, special, consequential, or incidental damages, including, but not limited to, damages for loss of profit or goodwill regardless of the negligence (either sole or concurrent) of EMSL and whether EMSL has been informed of the possibility of such damages, arising out of or in connection with EMSL's services thereunder or the delivery, use, reliance upon or interpretation of test results by client or any third party. We accept no legal responsibility for the purposes for which the client uses the test results. In no event shall EMSL be liable to a client or any third party, whether based upon theories of tort, contract or any other legal or equitable theory, in excess of the amount paid to EMSL by client thereunder. The test results meets all NELAC requirements unless otherwise specified.

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EMSL Order #: 781908042

Customer ID: JCBR50

Customer PO: 19-44414

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

Phone: 631-584-5492  
 Fax: Not Available

Project: **Bethpage High School / 10 Cherry Avenue, Bethpage, NY 11714**

Date Collected: 10/1/2019  
 Date Received: 10/4/2019

NELAC Certification #: 03036

**Quality Control Report**

**Sample Identification: MW-6**      **Lab Sample #: 781908042-0001**      **Date/Time Collected: 10/1/2019 08:40 AM**

<b>Test Parameter</b>	<b>Tracer/ Carrier 1</b>	<b>Spike</b>	<b>Result</b>	<b>% Rec.</b>	<b>Q</b>	<b>Tracer/ Carrier 2</b>	<b>Spike</b>	<b>Result</b>	<b>% Rec.</b>	<b>Q</b>	<b>Tracer/ Carrier 3</b>	<b>Spike</b>	<b>Result</b>	<b>% Rec.</b>	<b>Q</b>
R020 Ra-228 - EPA 904.0	Barium Carrier	55.2	52.1	94		Yttrium Carrier	27.7	22.1	80		N/A				
R021 Ra-226-EPA 903.0	Barium Carrier	55.2	52.1	94		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.

Report Date

11/7/2019

Report Revision

R0

Revision Comments

Initial Report

Dominic Gehret, Radiochemistry Laboratory Manager

In no event shall EMSL be liable for indirect, special, consequential, or incidental damages, including, but not limited to, damages for loss of profit or goodwill regardless of the negligence (either sole or concurrent) of EMSL and whether EMSL has been informed of the possibility of such damages, arising out of or in connection with EMSL's services thereunder or the delivery, use, reliance upon or interpretation of test results by client or any third party. We accept no legal responsibility for the purposes for which the client uses the test results. In no event shall EMSL be liable to a client or any third party, whether based upon theories of tort, contract or any other legal or equitable theory, in excess of the amount paid to EMSL by client thereunder. The test results meets all NELAC requirements unless otherwise specified.

**EMSL Analytical, Inc.**

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EMSL Order #: 781908043

Customer ID: JCBR50

Customer PO: 19-44414

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

Phone: 631-584-5492  
Fax: Not Available

Project: **Bethpage High School / 10 Cherry Avenue, Bethpage, NY 11714**

Date Collected: 10/1/2019

Date Received: 10/4/2019

NELAC Certification #: 03036

**Analytical Report****Sample Identification: MW-7****Lab Sample #: 781908043-0001****Date/Time Collected: 10/1/2019 09:20 AM**

<b>Test Parameter</b>	<b>Units</b>	<b>Result</b>	<b>Uncertainty</b>	<b>SDWA DL</b>	<b>Start Count Date/ Time</b>	<b>Analyst</b>	<b>Status Count</b>	<b>Method</b>	<b>Comment</b>
<b>Ra-228 - EPA 904.0</b>	pCi/L	8.860	1.270	0.810	10/17/2019 16:26	JW	Not Applicable	EPA 904.0	
<b>Ra-226-EPA 903.0</b>	pCi/L	3.840	0.260	0.170	11/5/2019 16:55	JW	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

\* 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% confidence level (1.96 $\sigma$  where  $\sigma$  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.

\* All analysis met quality control acceptance criteria unless specified on QC Report.

Report DateReport RevisionRevision Comments

11/7/2019

R0

Initial Report

Dominic Gehret, Radiochemistry Laboratory Manager

In no event shall EMSL be liable for indirect, special, consequential, or incidental damages, including, but not limited to, damages for loss of profit or goodwill regardless of the negligence (either sole or concurrent) of EMSL and whether EMSL has been informed of the possibility of such damages, arising out of or in connection with EMSL's services thereunder or the delivery, use, reliance upon or interpretation of test results by client or any third party. We accept no legal responsibility for the purposes for which the client uses the test results. In no event shall EMSL be liable to a client or any third party, whether based upon theories of tort, contract or any other legal or equitable theory, in excess of the amount paid to EMSL by client thereunder. The test results meets all NELAC requirements unless otherwise specified.

**EMSL Analytical, Inc.**

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EMSL Order #: 781908043

Customer ID: JCBR50

Customer PO: 19-44414

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

Phone: 631-584-5492  
 Fax: Not Available

Project: **Bethpage High School / 10 Cherry Avenue, Bethpage, NY 11714**

Date Collected: 10/1/2019  
 Date Received: 10/4/2019

NELAC Certification #: 03036

**Quality Control Report**

**Sample Identification: MW-7**      **Lab Sample #: 781908043-0001**      **Date/Time Collected: 10/1/2019 09:20 AM**

<b>Test Parameter</b>	<b>Tracer/ Carrier 1</b>	<b>Spike</b>	<b>Result</b>	<b>% Rec.</b>	<b>Q</b>	<b>Tracer/ Carrier 2</b>	<b>Spike</b>	<b>Result</b>	<b>% Rec.</b>	<b>Q</b>	<b>Tracer/ Carrier 3</b>	<b>Spike</b>	<b>Result</b>	<b>% Rec.</b>	<b>Q</b>
R020 Ra-228 - EPA 904.0	Barium Carrier	55.2	54	98		Yttrium Carrier	27.7	21.4	77		N/A				
R021 Ra-226-EPA 903.0	Barium Carrier	55.2	54	98		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.

Report Date

11/7/2019

Report Revision

R0

Revision Comments

Initial Report

Dominic Gehret, Radiochemistry Laboratory Manager

In no event shall EMSL be liable for indirect, special, consequential, or incidental damages, including, but not limited to, damages for loss of profit or goodwill regardless of the negligence (either sole or concurrent) of EMSL and whether EMSL has been informed of the possibility of such damages, arising out of or in connection with EMSL's services thereunder or the delivery, use, reliance upon or interpretation of test results by client or any third party. We accept no legal responsibility for the purposes for which the client uses the test results. In no event shall EMSL be liable to a client or any third party, whether based upon theories of tort, contract or any other legal or equitable theory, in excess of the amount paid to EMSL by client thereunder. The test results meets all NELAC requirements unless otherwise specified.



**EMSL ANALYTICAL, INC.**  
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## Radiochemical Analysis Chain of Custody

EMSL Order Number (Lab Use Only):

781908 —

RECEIVED  
EMSL  
CINNAMINSON, NJ

2019 OCT -4 P 8:21

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): Steven Muller	
Address:	1775 Express Drive North			Address:				Total # of Samples: 3	
City: Hauppauge	State: NY	Zip Code: 11788		City:	State:	Zip Code:	Date of Shipping:	10-04-19	
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:	19-44414

Page 1 of 1

Client Sample ID	Lab ID (For Lab Use only)	Matrix	Size (mL, g)	Date/Time	Gross Alpha		Analytes							Note	
					NJ 48 Hrs	EPA 900	Gross Beta	Ra-228	Ra-226	Total Uranium	Gamma Emitters	Actinides (U, Th, Pu, Am)	Sr-89, Sr-90	I-131	
MW-5	- 041	GW	1,000 ml	10-01-19 / 7:50 am			X	X							2019 OCT -4 P 8:21
MW-6	- 042	GW	1,000 ml	10-01-19 / 8:40 am				X	X						EMSL RECEIVED 10/01/19 8:40 AM
MW-7	- 043	GW	1,000 ml	10-01-19 / 9:20 am				X	X						

Report Requirement\*:  Level One  Level Two  Level Three

Relinquished by:	Date/ Time	Received by:	Date/ Time	Note
Steven Muller	10-04-19	Surgeon Doctor	10/14/19 1:44 PM	Bethpage High School
Not Brown	10/04/19	JBL course	10/15/19 8:15 AM	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