

TABLE 2

**GROUNDWATER REMEDIAL ACTION  
ROWE INDUSTRIES SUPERFUND SITE  
SAG HARBOR, NEW YORK**

**Effluent Water Quality Results**

Date Sampled <sup>2/</sup>	pH <sup>1/</sup>	TDS <sup>4/</sup> (mg/l)	PCE (ug/l)	1,1,1-TCA (ug/l)	TCE (ug/l)	1,1-DCA (ug/l)	1,1-DCE (ug/l)	cis-1,2-DCE (ug/l)	trans-1,2-DCE (ug/l)	Xylene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Methylene Chloride (ug/l)	Freon 113 (ug/l)	Naphthalene (ug/l)	Chloroform (ug/l)	Total Iron (mg/l)	Dissolved Iron (mg/l)
<b>SPDES Limits</b>	<b>6.5 to 8.5</b>	<b>---</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>---</b>	<b>10</b>	<b>7</b>	<b>---</b>	<b>---</b>
21-Sep-18	6.8	155	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	7.48	0.0369
5-Oct-18	6.9	145	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	1.66	ND<0.278
1-Nov-18	6.8	193	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	0.838	ND<0.278
5-Dec-18	6.9	100	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	0.845	ND<0.278
3-Jan-19	6.9	85	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	1.32	ND<0.278
1-Feb-19	6.9	126	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	0.641	ND<0.278
1-Mar-19	6.9	142	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	6.31	ND<0.278
2-Apr-19	6.9	153	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	1.27	ND<0.278
6-May-19	6.9	175	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	0.374	ND<0.278
4-Jun-19	6.0	139	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	0.620	ND<0.278
2-Jul-19	6.0	145	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	1.82 C,Q,B	ND<0.5	0.766	ND<0.278
1-Aug-19	6.8	168	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	1.30	1.24
5-Sep-19	6.8	172	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	0.291	ND<0.278

SPDES: State Pollutant Discharge Elimination System

mg/l: Milligrams per liter

ug/l: Micrograms per liter

---: Not established

J: Analyte detected below quantitation limits, value shown is a laboratory estimate.

B: Analyte was found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

ND: Not detected NA: Not Analyzed

C = CCV-E: The value reported is estimated The value is estimated due to its behavior during continuing calibration verification.

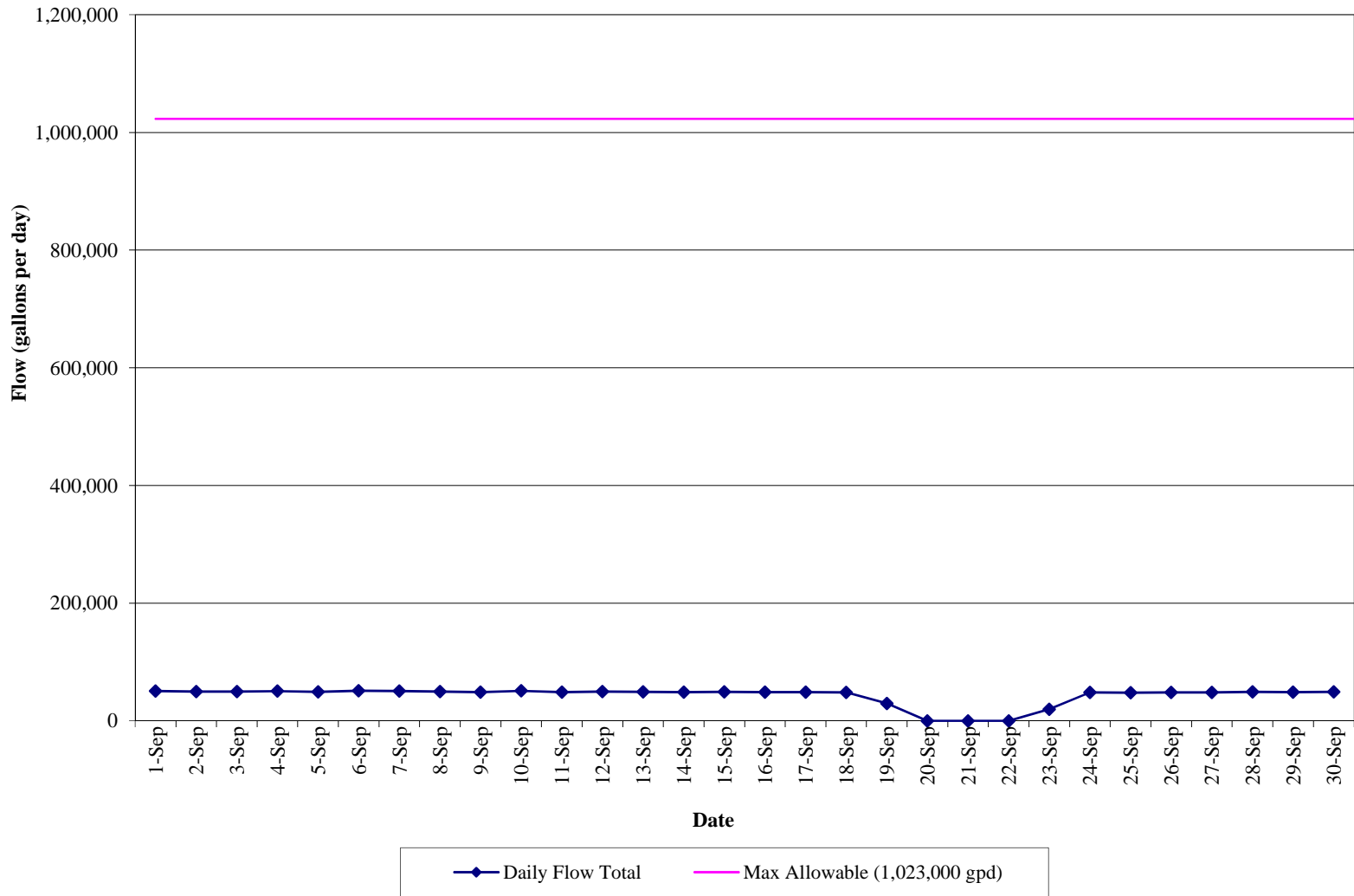
Q = QL-02: This LCS analyte is outside Laboratory Recovery limits due to the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

**Notes:**

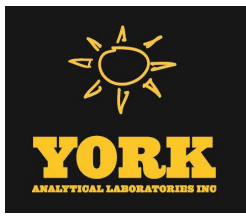
- Based on the SPDES criteria from an NYSDEC letter dated on May 6, 2016, the allowable pH range for the Rowe Site is between 6.5 and 8.5. The pH of the effluent sample collected on June 18, 2019 was 6.0. Historic pH measurements from recovery wells indicate that natural background pH concentrations are less than 6.5.
- "Effluent" samples were collected from sample port labeled NP2-10 unless otherwise noted.
- Starting in October 2016, FSP&T system samples are collected monthly instead of once every two weeks. The pH of the effluent water is measured two times per month in accordance with the SPDES requirements.
- The laboratory mistakenly forgot to analyze the system effluent sample collected on August 28, 2018 for total dissolved solids (TDS).

**GRAPH 1**  
**GROUNDWATER REMEDIAL ACTION**  
**ROWE INDUSTRIES SUPERFUND SITE**  
**SAG HARBOR, NEW YORK**

**Effluent Flow Data**  
**(September 1, 2019 to September 30, 2019)**



**APPENDIX I**  
**SEPTEMBER 2019 LABORATORY ANALYTICAL REPORTS**  
**FOR FSP&T SYSTEM**



# Technical Report

prepared for:

**WSP USA, Inc. (Shelton)**  
4 Research Drive, Suite 204  
Shelton CT, 06484  
**Attention: Tunde Komuves-Sandor**

Report Date: 09/12/2019  
**Client Project ID: 3140145.000 task 01.00 Rowe Industries**  
York Project (SDG) No.: 19I0239

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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RICHMOND HILL, NY 11418  
[ClientServices@yorklab.com](mailto:ClientServices@yorklab.com)

Report Date: 09/12/2019  
Client Project ID: 3140145.000 task 01.00 Rowe Industries  
York Project (SDG) No.: 19I0239

**WSP USA, Inc. (Shelton)**  
4 Research Drive, Suite 204  
Shelton CT, 06484  
Attention: Tunde Komuves-Sandor

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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 September 06, 2019 and listed below. The project was identified as your project: **3140145.000 task 01.00 Rowe Industries.**

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>
19I0239-01	WQ090519: 1300 NP2-6	Water	09/05/2019	09/06/2019
19I0239-02	WQ090519: 1305 NP2-10	Water	09/05/2019	09/06/2019

## **General Notes for York Project (SDG) No.: 19I0239**

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:**



Benjamin Gulizia  
Laboratory Director

**Date:** 09/12/2019





### Sample Information

**Client Sample ID:** WQ090519: 1300 NP2-6

**York Sample ID:** 1910239-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
1910239	3140145.000 task 01.00 Rowe Industries	Water	September 5, 2019 1:00 pm	09/06/2019

**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	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ



### Sample Information

**Client Sample ID:** WQ090519: 1300 NP2-6

**York Sample ID:** 19I0239-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19I0239

3140145.000 task 01.00 Rowe Industries

Water

September 5, 2019 1:00 pm

09/06/2019

**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
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ



### Sample Information

**Client Sample ID:** WQ090519: 1300 NP2-6

**York Sample ID:** 19I0239-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19I0239

3140145.000 task 01.00 Rowe Industries

Water

September 5, 2019 1:00 pm

09/06/2019

**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
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
127-18-4	<b>Tetrachloroethylene</b>	<b>0.630</b>		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	09/10/2019 07:08	09/10/2019 12:20	LLJ
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	105 %	70-130								
2037-26-5	Surrogate: SURRE: Toluene-d8	104 %	70-130								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	100 %	70-130								



### Sample Information

**Client Sample ID:** WQ090519: 1305 NP2-10

**York Sample ID:** 19I0239-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19I0239

3140145.000 task 01.00 Rowe Industries

Water

September 5, 2019 1:05 pm

09/06/2019

**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	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ



### Sample Information

**Client Sample ID:** WQ090519: 1305 NP2-10

**York Sample ID:** 19I0239-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19I0239

3140145.000 task 01.00 Rowe Industries

Water

September 5, 2019 1:05 pm

09/06/2019

**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
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ



### Sample Information

**Client Sample ID:** WQ090519: 1305 NP2-10

**York Sample ID:** 19I0239-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19I0239

3140145.000 task 01.00 Rowe Industries

Water

September 5, 2019 1:05 pm

09/06/2019

**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
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	09/10/2019 07:08	09/10/2019 12:48	LLJ
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	109 %			70-130						
2037-26-5	Surrogate: SURR: Toluene-d8	104 %			70-130						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	97.0 %			70-130						

**Iron by EPA 200.7**

**Log-in Notes:**

**Sample Notes:**



**Sample Information**

**Client Sample ID:** WQ090519: 1305 NP2-10

**York Sample ID:** 19I0239-02

<u>York Project (SDG) No.</u> 19I0239	<u>Client Project ID</u> 3140145.000 task 01.00 Rowe Industries	<u>Matrix</u> Water	<u>Collection Date/Time</u> September 5, 2019 1:05 pm	<u>Date Received</u> 09/06/2019
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Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	0.291		mg/L	0.278	1	EPA 200.7	09/10/2019 12:50	09/10/2019 15:30	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

**Iron, Dissolved by EPA 6010**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D	09/09/2019 10:24	09/10/2019 17:55	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

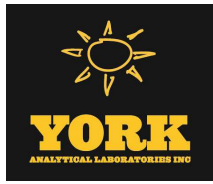
**Total Dissolved Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	172		mg/L	10.0	1	SM 2540C	09/10/2019 18:43	09/10/2019 23:16	AD
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		



## Analytical Batch Summary

**Batch ID:** BI90337      **Preparation Method:** EPA 5030B      **Prepared By:** TMP

YORK Sample ID	Client Sample ID	Preparation Date
19I0239-01	WQ090519: 1300 NP2-6	09/10/19
19I0239-02	WQ090519: 1305 NP2-10	09/10/19
BI90337-BLK1	Blank	09/10/19
BI90337-BS1	LCS	09/10/19
BI90337-BSD1	LCS Dup	09/10/19

**Batch ID:** BI90344      **Preparation Method:** EPA 3015A      **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
19I0239-02	WQ090519: 1305 NP2-10	09/09/19
BI90344-BLK1	Blank	09/09/19
BI90344-BS1	LCS	09/09/19

**Batch ID:** BI90448      **Preparation Method:** EPA 200.7      **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
19I0239-02	WQ090519: 1305 NP2-10	09/10/19
BI90448-BLK1	Blank	09/10/19
BI90448-BS1	LCS	09/10/19

**Batch ID:** BI90478      **Preparation Method:** % Solids Prep      **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
19I0239-02	WQ090519: 1305 NP2-10	09/10/19
BI90478-BLK1	Blank	09/10/19



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BI90337 - EPA 5030B**

**Blank (BI90337-BLK1)**

Prepared & Analyzed: 09/10/2019

1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,1-Dichloropropylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,3-Dichloropropane	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
2,2-Dichloropropane	ND	0.500	"								
2-Chlorotoluene	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Chlorotoluene	ND	0.500	"								
Acetone	ND	2.00	"								
Benzene	ND	0.500	"								
Bromobenzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Bromoform	ND	0.500	"								
Bromomethane	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylene chloride	ND	2.00	"								
Naphthalene	ND	2.00	"								
n-Butylbenzene	ND	0.500	"								



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike Level	Source*	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
		Limit			Result				RPD		
<b>Batch BI90337 - EPA 5030B</b>											
<b>Blank (BI90337-BLK1)</b>										Prepared & Analyzed: 09/10/2019	
n-Propylbenzene	ND	0.500	ug/L								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	10.2		"	10.0		102	70-130				
<i>Surrogate: SURR: Toluene-d8</i>	10.7		"	10.0		107	70-130				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	10.5		"	10.0		105	70-130				
<b>LCS (BI90337-BS1)</b>										Prepared & Analyzed: 09/10/2019	
1,1,1,2-Tetrachloroethane	11.3		ug/L	10.0		113	82-126				30
1,1,1-Trichloroethane	9.52		"	10.0		95.2	70-130				20
1,1,2,2-Tetrachloroethane	12.3		"	10.0		123	70-130				20
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.2		"	10.0		102	70-130				20
1,1,2-Trichloroethane	10.6		"	10.0		106	70-130				20
1,1-Dichloroethane	10.6		"	10.0		106	70-130				20
1,1-Dichloroethylene	10.0		"	10.0		100	70-130				20
1,1-Dichloropropylene	9.86		"	10.0		98.6	83-133				30
1,2,3-Trichlorobenzene	14.6		"	10.0		146	70-130	High Bias			20
1,2,3-Trichloropropane	11.5		"	10.0		115	77-128				30
1,2,4-Trichlorobenzene	13.6		"	10.0		136	70-130	High Bias			20
1,2,4-Trimethylbenzene	11.5		"	10.0		115	82-132				20
1,2-Dibromo-3-chloropropane	12.0		"	10.0		120	40-160				20
1,2-Dibromoethane	11.1		"	10.0		111	70-130				20
1,2-Dichlorobenzene	11.6		"	10.0		116	70-130				20
1,2-Dichloroethane	10.4		"	10.0		104	70-130				20
1,2-Dichloropropane	10.4		"	10.0		104	70-130				20
1,3,5-Trimethylbenzene	11.6		"	10.0		116	80-131				30
1,3-Dichlorobenzene	11.3		"	10.0		113	70-130				20
1,3-Dichloropropane	11.1		"	10.0		111	81-125				30
1,4-Dichlorobenzene	11.3		"	10.0		113	70-130				20
2,2-Dichloropropane	10.2		"	10.0		102	56-150				30
2-Chlorotoluene	11.3		"	10.0		113	79-130				30
2-Hexanone	12.9		"	10.0		129	40-160				20
4-Chlorotoluene	11.4		"	10.0		114	79-128				30
Acetone	8.52		"	10.0		85.2	40-160				20
Benzene	9.81		"	10.0		98.1	70-130				20
Bromobenzene	11.5		"	10.0		115	78-129				30
Bromochloromethane	10.6		"	10.0		106	70-130				20
Bromodichloromethane	10.7		"	10.0		107	70-130				20



**Volatile Organic Compounds by GC/MS - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Flag
		Limit								Units	
<b>Batch BI90337 - EPA 5030B</b>											
<b>LCS (BI90337-BS1)</b>											
Prepared & Analyzed: 09/10/2019											
Bromoform	11.6		ug/L	10.0	116	70-130				20	
Bromomethane	9.42		"	10.0	94.2	40-160				20	
Carbon tetrachloride	10.4		"	10.0	104	70-130				20	
Chlorobenzene	10.7		"	10.0	107	70-130				20	
Chloroethane	10.8		"	10.0	108	40-160				20	
Chloroform	9.70		"	10.0	97.0	70-130				20	
Chloromethane	10.4		"	10.0	104	40-160				20	
cis-1,2-Dichloroethylene	10.1		"	10.0	101	70-130				20	
cis-1,3-Dichloropropylene	10.4		"	10.0	104	70-130				20	
Dibromochloromethane	11.2		"	10.0	112	70-130				20	
Dibromomethane	10.6		"	10.0	106	72-134				30	
Dichlorodifluoromethane	9.82		"	10.0	98.2	40-160				20	
Ethyl Benzene	11.2		"	10.0	112	70-130				20	
Hexachlorobutadiene	11.8		"	10.0	118	67-146				30	
Isopropylbenzene	11.1		"	10.0	111	70-130				20	
Methyl tert-butyl ether (MTBE)	10.4		"	10.0	104	70-130				20	
Methylene chloride	9.55		"	10.0	95.5	70-130				20	
Naphthalene	15.2		"	10.0	152	70-147	High Bias			30	
n-Butylbenzene	12.2		"	10.0	122	79-132				30	
n-Propylbenzene	11.5		"	10.0	115	78-133				30	
o-Xylene	11.0		"	10.0	110	70-130				20	
p- & m- Xylenes	22.9		"	20.0	115	70-130				20	
p-Isopropyltoluene	11.7		"	10.0	117	81-136				30	
sec-Butylbenzene	12.3		"	10.0	123	79-137				30	
Styrene	11.0		"	10.0	110	70-130				20	
tert-Butylbenzene	11.4		"	10.0	114	77-138				30	
Tetrachloroethylene	9.48		"	10.0	94.8	70-130				20	
Toluene	10.6		"	10.0	106	70-130				20	
trans-1,2-Dichloroethylene	10.1		"	10.0	101	70-130				20	
trans-1,3-Dichloropropylene	10.7		"	10.0	107	70-130				20	
Trichloroethylene	10.7		"	10.0	107	70-130				20	
Trichlorofluoromethane	10.6		"	10.0	106	40-160				20	
Vinyl Chloride	8.83		"	10.0	88.3	70-130				20	
Surrogate: SURRE: 1,2-Dichloroethane-d4	9.97		"	10.0	99.7	70-130					
Surrogate: SURRE: Toluene-d8	10.6		"	10.0	106	70-130					
Surrogate: SURRE: p-Bromofluorobenzene	10.2		"	10.0	102	70-130					



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BI90337 - EPA 5030B</b>											
<b>LCS Dup (BI90337-bsd1)</b>											
Prepared & Analyzed: 09/10/2019											
1,1,1,2-Tetrachloroethane	10.5		ug/L	10.0		105	82-126		6.99	30	
1,1,1-Trichloroethane	9.09		"	10.0		90.9	70-130		4.62	20	
1,1,2,2-Tetrachloroethane	11.4		"	10.0		114	70-130		7.94	20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.64		"	10.0		96.4	70-130		5.35	20	
1,1,2-Trichloroethane	10.8		"	10.0		108	70-130		1.68	20	
1,1-Dichloroethane	10.2		"	10.0		102	70-130		3.85	20	
1,1-Dichloroethylene	9.27		"	10.0		92.7	70-130		7.78	20	
1,1-Dichloropropylene	9.34		"	10.0		93.4	83-133		5.42	30	
1,2,3-Trichlorobenzene	15.9		"	10.0		159	70-130	High Bias	8.72	20	
1,2,3-Trichloropropane	11.1		"	10.0		111	77-128		2.92	30	
1,2,4-Trichlorobenzene	13.6		"	10.0		136	70-130	High Bias	0.147	20	
1,2,4-Trimethylbenzene	9.57		"	10.0		95.7	82-132		18.3	20	
1,2-Dibromo-3-chloropropane	12.4		"	10.0		124	40-160		3.76	20	
1,2-Dibromoethane	11.4		"	10.0		114	70-130		1.96	20	
1,2-Dichlorobenzene	10.3		"	10.0		103	70-130		11.3	20	
1,2-Dichloroethane	10.5		"	10.0		105	70-130		1.05	20	
1,2-Dichloropropane	10.1		"	10.0		101	70-130		3.03	20	
1,3,5-Trimethylbenzene	9.56		"	10.0		95.6	80-131		19.5	30	
1,3-Dichlorobenzene	9.55		"	10.0		95.5	70-130		16.5	20	
1,3-Dichloropropane	11.2		"	10.0		112	81-125		1.43	30	
1,4-Dichlorobenzene	9.74		"	10.0		97.4	70-130		15.0	20	
2,2-Dichloropropane	9.52		"	10.0		95.2	56-150		6.70	30	
2-Chlorotoluene	9.23		"	10.0		92.3	79-130		19.8	30	
2-Hexanone	14.0		"	10.0		140	40-160		8.63	20	
4-Chlorotoluene	9.32		"	10.0		93.2	79-128		20.5	30	
Acetone	9.44		"	10.0		94.4	40-160		10.2	20	
Benzene	9.39		"	10.0		93.9	70-130		4.38	20	
Bromobenzene	9.94		"	10.0		99.4	78-129		14.6	30	
Bromochloromethane	9.95		"	10.0		99.5	70-130		6.61	20	
Bromodichloromethane	10.2		"	10.0		102	70-130		4.30	20	
Bromoform	11.7		"	10.0		117	70-130		0.602	20	
Bromomethane	7.34		"	10.0		73.4	40-160		24.8	20	Non-dir.
Carbon tetrachloride	9.85		"	10.0		98.5	70-130		5.14	20	
Chlorobenzene	9.90		"	10.0		99.0	70-130		8.05	20	
Chloroethane	9.11		"	10.0		91.1	40-160		16.6	20	
Chloroform	9.36		"	10.0		93.6	70-130		3.57	20	
Chloromethane	8.22		"	10.0		82.2	40-160		23.6	20	Non-dir.
cis-1,2-Dichloroethylene	9.53		"	10.0		95.3	70-130		6.01	20	
cis-1,3-Dichloropropylene	10.3		"	10.0		103	70-130		0.482	20	
Dibromochloromethane	11.1		"	10.0		111	70-130		0.538	20	
Dibromomethane	10.6		"	10.0		106	72-134		0.376	30	
Dichlorodifluoromethane	9.93		"	10.0		99.3	40-160		1.11	20	
Ethyl Benzene	10.2		"	10.0		102	70-130		10.3	20	
Hexachlorobutadiene	11.9		"	10.0		119	67-146		1.60	30	
Isopropylbenzene	9.13		"	10.0		91.3	70-130		19.8	20	
Methyl tert-butyl ether (MTBE)	11.0		"	10.0		110	70-130		5.89	20	
Methylene chloride	9.27		"	10.0		92.7	70-130		2.98	20	
Naphthalene	15.8		"	10.0		158	70-147	High Bias	4.33	30	
n-Butylbenzene	11.0		"	10.0		110	79-132		10.0	30	
n-Propylbenzene	9.44		"	10.0		94.4	78-133		19.9	30	



**Volatile Organic Compounds by GC/MS - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike Level	Source*	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit			Result	%REC			Limit			

**Batch BI90337 - EPA 5030B**

**LCS Dup (BI90337-BSD1)**

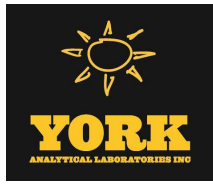
Prepared & Analyzed: 09/10/2019

o-Xylene	10.1		ug/L	10.0		101	70-130		8.82	20		
p- & m- Xylenes	21.0		"	20.0		105	70-130		8.59	20		
p-Isopropyltoluene	9.87		"	10.0		98.7	81-136		17.1	30		
sec-Butylbenzene	10.2		"	10.0		102	79-137		18.3	30		
Styrene	10.3		"	10.0		103	70-130		6.83	20		
tert-Butylbenzene	9.47		"	10.0		94.7	77-138		18.1	30		
Tetrachloroethylene	8.75		"	10.0		87.5	70-130		8.01	20		
Toluene	9.73		"	10.0		97.3	70-130		8.37	20		
trans-1,2-Dichloroethylene	9.65		"	10.0		96.5	70-130		4.95	20		
trans-1,3-Dichloropropylene	10.9		"	10.0		109	70-130		1.57	20		
Trichloroethylene	9.67		"	10.0		96.7	70-130		10.0	20		
Trichlorofluoromethane	9.39		"	10.0		93.9	40-160		12.3	20		
Vinyl Chloride	7.66		"	10.0		76.6	70-130		14.2	20		
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>11.4</i>		<i>"</i>	<i>10.0</i>		<i>114</i>	<i>70-130</i>					
<i>Surrogate: SURR: Toluene-d8</i>	<i>10.7</i>		<i>"</i>	<i>10.0</i>		<i>107</i>	<i>70-130</i>					
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>9.46</i>		<i>"</i>	<i>10.0</i>		<i>94.6</i>	<i>70-130</i>					



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

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BI90344 - EPA 3015A</b>											
<b>Blank (BI90344-BLK1)</b>											Prepared & Analyzed: 09/09/2019
Iron - Dissolved	ND	0.278	mg/L								
<b>LCS (BI90344-BS1)</b>											Prepared & Analyzed: 09/09/2019
Iron - Dissolved	0.977		ug/mL	1.00		97.7	80-120				
<b>Batch BI90448 - EPA 200.7</b>											
<b>Blank (BI90448-BLK1)</b>											Prepared & Analyzed: 09/10/2019
Iron	ND	0.278	mg/L								
<b>LCS (BI90448-BS1)</b>											Prepared & Analyzed: 09/10/2019
Iron	1.09		ug/mL	1.00		109	85-115				



Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

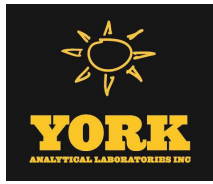
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
---------	--------	-----------------	-------	-------------	----------------	------	-------------	------	-----	-----------	------

**Batch BI90478 - % Solids Prep**

**Blank (BI90478-BLK1)**

Prepared & Analyzed: 09/10/2019

Total Dissolved Solids	ND	10.0	mg/L								
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### Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
19I0239-01	WQ090519: 1300 NP2-6	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19I0239-02	WQ090519: 1305 NP2-10	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



## Sample and Data Qualifiers Relating to This Work Order

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QL-02 This LCS analyte is outside Laboratory Recovery limits due to the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
- 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).

### 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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 Stratford, CT 06615  
 clientservices@yorklab.com  
 www.yorklab.com



# Field Chain-of-Custody Record

YORK Project No.

19I0239

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.

Page 1 of 1

<b>YOUR INFORMATION</b>		<b>Report To:</b>		<b>Invoice To:</b>		<b>YOUR Project Number</b>		<b>Turn-Around Time</b>	
Company: WSP USA	Address: 4 Research Drive Suite 204 Shelton CT 06484	Company: Same	Address:	Company: WSP USA	Address:	31401451.000	RUSH - Next Day	RUSH - Next Day	X
Phone: 203 929 8555	Contact: Tunde Sander	Phone:	Contact:	Address: Accountg	Phone:	task 01.00	RUSH - Two Day	RUSH - Three Day	
E-mail: Tunde.Sander@wsp.com		E-mail:					RUSH - Four Day	Standard (5-7 Day)	

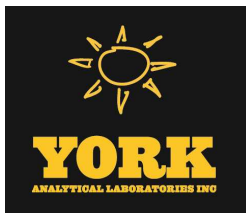
<b>Matrix Codes</b>		<b>Samples From</b>		<b>Report / EDD Type (circle selections)</b>		<b>YORK Reg. Comp.</b>		
S - soil / solid	GW - groundwater	New York	CT RCP	Standard Excel EDD	Compared to the following Regulation(s): (please fill in)			
DW - drinking water	WW - wastewater	New Jersey	QA Report	EquiS (Standard)				
O - Oil ; Other		Connecticut	NY ASP A Package	NYSDEC EQUiS				
		Pennsylvania	NY ASP B Package	NJDEP Reduced Deliverables				
		Other		NJDEP SRP HazSite				
				Other:				

<b>Sample Identification</b>		<b>Sample Matrix</b>		<b>Date/Time Sampled</b>		<b>Analysis Requested</b>		<b>Container Description</b>	
WQ090519: 1300NP2-6	GW	9-5-19	1300	Fe by EPA 200.7 / Fe dissolved by EPA 6010		3V, 2 plastic			
WQ090519: 1305NP2-10	↓	1305		VOCs 2260 list + freeon 13		\$TOS/SH 2540c		3V, 3 plastic.	

<b>Comments:</b>		<b>Preservation: (check all that apply)</b>	
		HCl	MeOH
		HNO3	H2SO4
		NaOH	ZnAc
		Ascorbic Acid	Other:

<b>Relinquished by / Company</b>		<b>Date/Time</b>		<b>Samples Relinquished by / Company</b>		<b>Date/Time</b>	
WSP USA		1855 9-5-19		Stelton Fridge		9/6/19 1200	
Relinquished by / Company		Date/Time		Samples Received by / Company		Date/Time	
Relinquished by / Company		Date/Time		Samples Received in LAB by		Date/Time	
Relinquished by / Company		Date/Time		Samples Received at Lab		Temp. Received at Lab	
Relinquished by / Company		Date/Time		Temp. Received at Lab		Degress C	

**APPENDIX II**  
**SEPTEMBER 2019 LABORATORY ANALYTICAL REPORTS**  
**FOR FSP&T AND FP&T RECOVERY WELLS**



# Technical Report

prepared for:

**WSP USA, Inc. (Shelton)**  
4 Research Drive, Suite 204  
Shelton CT, 06484  
**Attention: Tunde Komuves-Sandor**

Report Date: 09/10/2019  
**Client Project ID: 31401451.000 task 01.00 Rowe Industries**  
York Project (SDG) No.: 19I0240

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  
[www.YORKLAB.com](http://www.YORKLAB.com)

STRATFORD, CT 06615  
(203) 325-1371

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

RICHMOND HILL, NY 11418  
[ClientServices@yorklab.com](mailto:ClientServices@yorklab.com)

Report Date: 09/10/2019  
Client Project ID: 31401451.000 task 01.00 Rowe Industries  
York Project (SDG) No.: 19I0240

**WSP USA, Inc. (Shelton)**  
4 Research Drive, Suite 204  
Shelton CT, 06484  
Attention: Tunde Komuves-Sandor

---

## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on September 06, 2019 and listed below. The project was identified as your project: **31401451.000 task 01.00 Rowe Industries**.

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>
19I0240-01	WQ090519: 1115 FRW-1	Water	09/05/2019	09/06/2019
19I0240-02	WQ090519: 1120 FRW-2	Water	09/05/2019	09/06/2019
19I0240-03	WQ090519: 1125 FRW-3	Water	09/05/2019	09/06/2019
19I0240-04	WQ090519: 1130 FRW-4	Water	09/05/2019	09/06/2019
19I0240-05	WQ090519: 1145 NP1-1-2	Water	09/05/2019	09/06/2019

## **General Notes for York Project (SDG) No.: 19I0240**

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:**



Benjamin Gulizia  
Laboratory Director

**Date:** 09/10/2019





### Sample Information

**Client Sample ID:** WQ090519: 1115 FRW-1

**York Sample ID:** 1910240-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
1910240	31401451.000 task 01.00 Rowe Industries	Water	September 5, 2019 11:15 am	09/06/2019

**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	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ



### Sample Information

**Client Sample ID:** WQ090519: 1115 FRW-1

**York Sample ID:** 19I0240-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19I0240

31401451.000 task 01.00 Rowe Industries

Water

September 5, 2019 11:15 am

09/06/2019

**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
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
67-64-1	<b>Acetone</b>	<b>1.30</b>	CCV-E	ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>0.390</b>		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ



### Sample Information

**Client Sample ID:** WQ090519: 1115 FRW-1

**York Sample ID:** 19I0240-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19I0240

31401451.000 task 01.00 Rowe Industries

Water

September 5, 2019 11:15 am

09/06/2019

**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
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
127-18-4	<b>Tetrachloroethylene</b>	<b>21.3</b>		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
79-01-6	<b>Trichloroethylene</b>	<b>0.360</b>		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	09/10/2019 07:08	09/10/2019 13:15	LLJ
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: <i>SURR: 1,2-Dichloroethane-d4</i>	103 %			70-130						
2037-26-5	Surrogate: <i>SURR: Toluene-d8</i>	105 %			70-130						
460-00-4	Surrogate: <i>SURR: p-Bromofluorobenzene</i>	101 %			70-130						



### Sample Information

**Client Sample ID:** WQ090519: 1120 FRW-2

**York Sample ID:** 19I0240-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19I0240

31401451.000 task 01.00 Rowe Industries

Water

September 5, 2019 11:20 am

09/06/2019

**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	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ



### Sample Information

**Client Sample ID:** WQ090519: 1120 FRW-2

**York Sample ID:** 19I0240-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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19I0240

31401451.000 task 01.00 Rowe Industries

Water

September 5, 2019 11:20 am

09/06/2019

**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
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ



### Sample Information

**Client Sample ID:** WQ090519: 1120 FRW-2

**York Sample ID:** 19I0240-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19I0240

31401451.000 task 01.00 Rowe Industries

Water

September 5, 2019 11:20 am

09/06/2019

**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
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
127-18-4	<b>Tetrachloroethylene</b>	<b>2.18</b>		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	09/10/2019 07:08	09/10/2019 13:42	LLJ
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	110 %	70-130								
2037-26-5	Surrogate: SURRE: Toluene-d8	104 %	70-130								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	99.7 %	70-130								



### Sample Information

**Client Sample ID:** WQ090519: 1125 FRW-3

**York Sample ID:** 19I0240-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19I0240

31401451.000 task 01.00 Rowe Industries

Water

September 5, 2019 11:25 am

09/06/2019

**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	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ



### Sample Information

**Client Sample ID:** WQ090519: 1125 FRW-3

**York Sample ID:** 19I0240-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19I0240

31401451.000 task 01.00 Rowe Industries

Water

September 5, 2019 11:25 am

09/06/2019

**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
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>1.64</b>		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ



### Sample Information

**Client Sample ID:** WQ090519: 1125 FRW-3

**York Sample ID:** 19I0240-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19I0240

31401451.000 task 01.00 Rowe Industries

Water

September 5, 2019 11:25 am

09/06/2019

**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
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
127-18-4	<b>Tetrachloroethylene</b>	<b>6.57</b>		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
79-01-6	<b>Trichloroethylene</b>	<b>0.360</b>		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	09/10/2019 07:08	09/10/2019 14:10	LLJ
	<b>Surrogate Recoveries</b>	<b>Result</b>						<b>Acceptance Range</b>			
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	104 %						70-130			
2037-26-5	Surrogate: SURRE: Toluene-d8	105 %						70-130			
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	106 %						70-130			



### Sample Information

**Client Sample ID:** WQ090519: 1130 FRW-4

**York Sample ID:** 19I0240-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19I0240

31401451.000 task 01.00 Rowe Industries

Water

September 5, 2019 11:30 am

09/06/2019

**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	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ



### Sample Information

**Client Sample ID:** WQ090519: 1130 FRW-4

**York Sample ID:** 19I0240-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19I0240

31401451.000 task 01.00 Rowe Industries

Water

September 5, 2019 11:30 am

09/06/2019

**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
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ



### Sample Information

**Client Sample ID:** WQ090519: 1130 FRW-4

**York Sample ID:** 19I0240-04

York Project (SDG) No.

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Matrix

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19I0240

31401451.000 task 01.00 Rowe Industries

Water

September 5, 2019 11:30 am

09/06/2019

**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
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
127-18-4	<b>Tetrachloroethylene</b>	<b>0.820</b>		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	09/10/2019 07:08	09/10/2019 14:38	LLJ
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: <i>SURR: 1,2-Dichloroethane-d4</i>	109 %	70-130								
2037-26-5	Surrogate: <i>SURR: Toluene-d8</i>	103 %	70-130								
460-00-4	Surrogate: <i>SURR: p-Bromofluorobenzene</i>	104 %	70-130								



### Sample Information

**Client Sample ID:** WQ090519: 1145 NP1-1-2

**York Sample ID:** 19I0240-05

York Project (SDG) No.

Client Project ID

Matrix

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19I0240

31401451.000 task 01.00 Rowe Industries

Water

September 5, 2019 11:45 am

09/06/2019

**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	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ



### Sample Information

**Client Sample ID:** WQ090519: 1145 NP1-1-2

**York Sample ID:** 19I0240-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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19I0240

31401451.000 task 01.00 Rowe Industries

Water

September 5, 2019 11:45 am

09/06/2019

**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
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ



### Sample Information

**Client Sample ID:** WQ090519: 1145 NP1-1-2

**York Sample ID:** 19I0240-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19I0240

31401451.000 task 01.00 Rowe Industries

Water

September 5, 2019 11:45 am

09/06/2019

**Volatile Organics, 8260 List - Low Level**

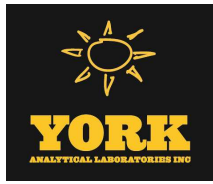
**Log-in Notes:**

**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
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/10/2019 07:08	09/10/2019 15:05	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	09/10/2019 07:08	09/10/2019 15:05	LLJ

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	109 %	70-130
2037-26-5	Surrogate: SURR: Toluene-d8	104 %	70-130
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	100 %	70-130



## Analytical Batch Summary

**Batch ID:** BI90337

**Preparation Method:** EPA 5030B

**Prepared By:** TMP

YORK Sample ID	Client Sample ID	Preparation Date
19I0240-01	WQ090519: 1115 FRW-1	09/10/19
19I0240-02	WQ090519: 1120 FRW-2	09/10/19
19I0240-03	WQ090519: 1125 FRW-3	09/10/19
19I0240-04	WQ090519: 1130 FRW-4	09/10/19
19I0240-05	WQ090519: 1145 NP1-1-2	09/10/19
BI90337-BLK1	Blank	09/10/19
BI90337-BS1	LCS	09/10/19
BI90337-BSD1	LCS Dup	09/10/19



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BI90337 - EPA 5030B**

**Blank (BI90337-BLK1)**

Prepared & Analyzed: 09/10/2019

1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,1-Dichloropropylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,3-Dichloropropane	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
2,2-Dichloropropane	ND	0.500	"								
2-Chlorotoluene	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Chlorotoluene	ND	0.500	"								
Acetone	ND	2.00	"								
Benzene	ND	0.500	"								
Bromobenzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Bromoform	ND	0.500	"								
Bromomethane	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylene chloride	ND	2.00	"								
Naphthalene	ND	2.00	"								
n-Butylbenzene	ND	0.500	"								



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BI90337 - EPA 5030B</b>											
<b>Blank (BI90337-BLK1)</b>										Prepared & Analyzed: 09/10/2019	
n-Propylbenzene	ND	0.500	ug/L								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	10.2		"	10.0		102	70-130				
<i>Surrogate: SURR: Toluene-d8</i>	10.7		"	10.0		107	70-130				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	10.5		"	10.0		105	70-130				
<b>LCS (BI90337-BS1)</b>										Prepared & Analyzed: 09/10/2019	
1,1,1,2-Tetrachloroethane	11.3		ug/L	10.0		113	82-126				30
1,1,1-Trichloroethane	9.52		"	10.0		95.2	70-130				20
1,1,2,2-Tetrachloroethane	12.3		"	10.0		123	70-130				20
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.2		"	10.0		102	70-130				20
1,1,2-Trichloroethane	10.6		"	10.0		106	70-130				20
1,1-Dichloroethane	10.6		"	10.0		106	70-130				20
1,1-Dichloroethylene	10.0		"	10.0		100	70-130				20
1,1-Dichloropropylene	9.86		"	10.0		98.6	83-133				30
1,2,3-Trichlorobenzene	14.6		"	10.0		146	70-130	High Bias			20
1,2,3-Trichloropropane	11.5		"	10.0		115	77-128				30
1,2,4-Trichlorobenzene	13.6		"	10.0		136	70-130	High Bias			20
1,2,4-Trimethylbenzene	11.5		"	10.0		115	82-132				20
1,2-Dibromo-3-chloropropane	12.0		"	10.0		120	40-160				20
1,2-Dibromoethane	11.1		"	10.0		111	70-130				20
1,2-Dichlorobenzene	11.6		"	10.0		116	70-130				20
1,2-Dichloroethane	10.4		"	10.0		104	70-130				20
1,2-Dichloropropane	10.4		"	10.0		104	70-130				20
1,3,5-Trimethylbenzene	11.6		"	10.0		116	80-131				30
1,3-Dichlorobenzene	11.3		"	10.0		113	70-130				20
1,3-Dichloropropane	11.1		"	10.0		111	81-125				30
1,4-Dichlorobenzene	11.3		"	10.0		113	70-130				20
2,2-Dichloropropane	10.2		"	10.0		102	56-150				30
2-Chlorotoluene	11.3		"	10.0		113	79-130				30
2-Hexanone	12.9		"	10.0		129	40-160				20
4-Chlorotoluene	11.4		"	10.0		114	79-128				30
Acetone	8.52		"	10.0		85.2	40-160				20
Benzene	9.81		"	10.0		98.1	70-130				20
Bromobenzene	11.5		"	10.0		115	78-129				30
Bromochloromethane	10.6		"	10.0		106	70-130				20
Bromodichloromethane	10.7		"	10.0		107	70-130				20



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Flag
		Limit								Units	
<b>Batch BI90337 - EPA 5030B</b>											
<b>LCS (BI90337-BS1)</b>											
Prepared & Analyzed: 09/10/2019											
Bromoform	11.6		ug/L	10.0	116	70-130				20	
Bromomethane	9.42		"	10.0	94.2	40-160				20	
Carbon tetrachloride	10.4		"	10.0	104	70-130				20	
Chlorobenzene	10.7		"	10.0	107	70-130				20	
Chloroethane	10.8		"	10.0	108	40-160				20	
Chloroform	9.70		"	10.0	97.0	70-130				20	
Chloromethane	10.4		"	10.0	104	40-160				20	
cis-1,2-Dichloroethylene	10.1		"	10.0	101	70-130				20	
cis-1,3-Dichloropropylene	10.4		"	10.0	104	70-130				20	
Dibromochloromethane	11.2		"	10.0	112	70-130				20	
Dibromomethane	10.6		"	10.0	106	72-134				30	
Dichlorodifluoromethane	9.82		"	10.0	98.2	40-160				20	
Ethyl Benzene	11.2		"	10.0	112	70-130				20	
Hexachlorobutadiene	11.8		"	10.0	118	67-146				30	
Isopropylbenzene	11.1		"	10.0	111	70-130				20	
Methyl tert-butyl ether (MTBE)	10.4		"	10.0	104	70-130				20	
Methylene chloride	9.55		"	10.0	95.5	70-130				20	
Naphthalene	15.2		"	10.0	152	70-147	High Bias			30	
n-Butylbenzene	12.2		"	10.0	122	79-132				30	
n-Propylbenzene	11.5		"	10.0	115	78-133				30	
o-Xylene	11.0		"	10.0	110	70-130				20	
p- & m- Xylenes	22.9		"	20.0	115	70-130				20	
p-Isopropyltoluene	11.7		"	10.0	117	81-136				30	
sec-Butylbenzene	12.3		"	10.0	123	79-137				30	
Styrene	11.0		"	10.0	110	70-130				20	
tert-Butylbenzene	11.4		"	10.0	114	77-138				30	
Tetrachloroethylene	9.48		"	10.0	94.8	70-130				20	
Toluene	10.6		"	10.0	106	70-130				20	
trans-1,2-Dichloroethylene	10.1		"	10.0	101	70-130				20	
trans-1,3-Dichloropropylene	10.7		"	10.0	107	70-130				20	
Trichloroethylene	10.7		"	10.0	107	70-130				20	
Trichlorofluoromethane	10.6		"	10.0	106	40-160				20	
Vinyl Chloride	8.83		"	10.0	88.3	70-130				20	
Surrogate: SURR: 1,2-Dichloroethane-d4	9.97		"	10.0	99.7	70-130					
Surrogate: SURR: Toluene-d8	10.6		"	10.0	106	70-130					
Surrogate: SURR: p-Bromofluorobenzene	10.2		"	10.0	102	70-130					



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BI90337 - EPA 5030B</b>											
<b>LCS Dup (BI90337-BSD1)</b>											
Prepared & Analyzed: 09/10/2019											
1,1,1,2-Tetrachloroethane	10.5		ug/L	10.0		105	82-126		6.99	30	
1,1,1-Trichloroethane	9.09		"	10.0		90.9	70-130		4.62	20	
1,1,2,2-Tetrachloroethane	11.4		"	10.0		114	70-130		7.94	20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.64		"	10.0		96.4	70-130		5.35	20	
1,1,2-Trichloroethane	10.8		"	10.0		108	70-130		1.68	20	
1,1-Dichloroethane	10.2		"	10.0		102	70-130		3.85	20	
1,1-Dichloroethylene	9.27		"	10.0		92.7	70-130		7.78	20	
1,1-Dichloropropylene	9.34		"	10.0		93.4	83-133		5.42	30	
1,2,3-Trichlorobenzene	15.9		"	10.0		159	70-130	High Bias	8.72	20	
1,2,3-Trichloropropane	11.1		"	10.0		111	77-128		2.92	30	
1,2,4-Trichlorobenzene	13.6		"	10.0		136	70-130	High Bias	0.147	20	
1,2,4-Trimethylbenzene	9.57		"	10.0		95.7	82-132		18.3	20	
1,2-Dibromo-3-chloropropane	12.4		"	10.0		124	40-160		3.76	20	
1,2-Dibromoethane	11.4		"	10.0		114	70-130		1.96	20	
1,2-Dichlorobenzene	10.3		"	10.0		103	70-130		11.3	20	
1,2-Dichloroethane	10.5		"	10.0		105	70-130		1.05	20	
1,2-Dichloropropane	10.1		"	10.0		101	70-130		3.03	20	
1,3,5-Trimethylbenzene	9.56		"	10.0		95.6	80-131		19.5	30	
1,3-Dichlorobenzene	9.55		"	10.0		95.5	70-130		16.5	20	
1,3-Dichloropropane	11.2		"	10.0		112	81-125		1.43	30	
1,4-Dichlorobenzene	9.74		"	10.0		97.4	70-130		15.0	20	
2,2-Dichloropropane	9.52		"	10.0		95.2	56-150		6.70	30	
2-Chlorotoluene	9.23		"	10.0		92.3	79-130		19.8	30	
2-Hexanone	14.0		"	10.0		140	40-160		8.63	20	
4-Chlorotoluene	9.32		"	10.0		93.2	79-128		20.5	30	
Acetone	9.44		"	10.0		94.4	40-160		10.2	20	
Benzene	9.39		"	10.0		93.9	70-130		4.38	20	
Bromobenzene	9.94		"	10.0		99.4	78-129		14.6	30	
Bromochloromethane	9.95		"	10.0		99.5	70-130		6.61	20	
Bromodichloromethane	10.2		"	10.0		102	70-130		4.30	20	
Bromoform	11.7		"	10.0		117	70-130		0.602	20	
Bromomethane	7.34		"	10.0		73.4	40-160		24.8	20	Non-dir.
Carbon tetrachloride	9.85		"	10.0		98.5	70-130		5.14	20	
Chlorobenzene	9.90		"	10.0		99.0	70-130		8.05	20	
Chloroethane	9.11		"	10.0		91.1	40-160		16.6	20	
Chloroform	9.36		"	10.0		93.6	70-130		3.57	20	
Chloromethane	8.22		"	10.0		82.2	40-160		23.6	20	Non-dir.
cis-1,2-Dichloroethylene	9.53		"	10.0		95.3	70-130		6.01	20	
cis-1,3-Dichloropropylene	10.3		"	10.0		103	70-130		0.482	20	
Dibromochloromethane	11.1		"	10.0		111	70-130		0.538	20	
Dibromomethane	10.6		"	10.0		106	72-134		0.376	30	
Dichlorodifluoromethane	9.93		"	10.0		99.3	40-160		1.11	20	
Ethyl Benzene	10.2		"	10.0		102	70-130		10.3	20	
Hexachlorobutadiene	11.9		"	10.0		119	67-146		1.60	30	
Isopropylbenzene	9.13		"	10.0		91.3	70-130		19.8	20	
Methyl tert-butyl ether (MTBE)	11.0		"	10.0		110	70-130		5.89	20	
Methylene chloride	9.27		"	10.0		92.7	70-130		2.98	20	
Naphthalene	15.8		"	10.0		158	70-147	High Bias	4.33	30	
n-Butylbenzene	11.0		"	10.0		110	79-132		10.0	30	
n-Propylbenzene	9.44		"	10.0		94.4	78-133		19.9	30	



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike Level	Source*	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit			Result	%REC			Limit			

**Batch BI90337 - EPA 5030B**

**LCS Dup (BI90337-BSD1)**

Prepared & Analyzed: 09/10/2019

o-Xylene	10.1		ug/L	10.0		101	70-130		8.82	20		
p- & m- Xylenes	21.0		"	20.0		105	70-130		8.59	20		
p-Isopropyltoluene	9.87		"	10.0		98.7	81-136		17.1	30		
sec-Butylbenzene	10.2		"	10.0		102	79-137		18.3	30		
Styrene	10.3		"	10.0		103	70-130		6.83	20		
tert-Butylbenzene	9.47		"	10.0		94.7	77-138		18.1	30		
Tetrachloroethylene	8.75		"	10.0		87.5	70-130		8.01	20		
Toluene	9.73		"	10.0		97.3	70-130		8.37	20		
trans-1,2-Dichloroethylene	9.65		"	10.0		96.5	70-130		4.95	20		
trans-1,3-Dichloropropylene	10.9		"	10.0		109	70-130		1.57	20		
Trichloroethylene	9.67		"	10.0		96.7	70-130		10.0	20		
Trichlorofluoromethane	9.39		"	10.0		93.9	40-160		12.3	20		
Vinyl Chloride	7.66		"	10.0		76.6	70-130		14.2	20		
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>11.4</i>		<i>"</i>	<i>10.0</i>		<i>114</i>	<i>70-130</i>					
<i>Surrogate: SURR: Toluene-d8</i>	<i>10.7</i>		<i>"</i>	<i>10.0</i>		<i>107</i>	<i>70-130</i>					
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>9.46</i>		<i>"</i>	<i>10.0</i>		<i>94.6</i>	<i>70-130</i>					



### Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
19I0240-01	WQ090519: 1115 FRW-1	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19I0240-02	WQ090519: 1120 FRW-2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19I0240-03	WQ090519: 1125 FRW-3	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19I0240-04	WQ090519: 1130 FRW-4	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19I0240-05	WQ090519: 1145 NP1-1-2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



## Sample and Data Qualifiers Relating to This Work Order

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QL-02 This LCS analyte is outside Laboratory Recovery limits due to the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
- 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).

### 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.

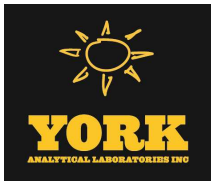
If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For 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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# Field Chain-of-Custody Record

YORK Project No.  
 19I0240

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.

<b>YOUR Information</b>		<b>Report To:</b>		<b>Invoice To:</b>		<b>YOUR Project Number</b>		<b>Turn-Around Time</b>	
Company: WSP USA	Address: 4 Research Drive Suite 204 Shelton CT 06784	Company: Same	Address: WSA USA	Company: WSA USA	Address: Accounting.	314 01451.000		RUSH - Next Day	Standard (5-7 Day) <input checked="" type="checkbox"/>
Phone: 203 989 8555	Contact: Tunde Sander	Phone: [Signature]	Contact: [Signature]	Phone: [Signature]	Contact: [Signature]	709 5 01.00		RUSH - Two Day	
E-mail: Tunde.Sander@wsp.com						YOUR Project Name		RUSH - Three Day	
						Rowe Industries.		RUSH - Four Day	
TUNDE KAMMIES-SANDER Samples Collected by: (print your name above and sign below)		YOUR PO#:		YOUR Project Name		YOUR Project Number		Standard (5-7 Day) <input checked="" type="checkbox"/>	

Matrix Codes	Samples From	Report / EDD Type (circle selections)	YORK Reg. Comp.
S - soil / solid	New York	Summary Report	Compared to the following Regulation(s): (please fill in)
GW - groundwater	New Jersey	QA Report	
DW - drinking water	Connecticut	NY ASP A Package	
WW - wastewater	Pennsylvania	NY ASP B Package	
O - Oil ; Other	Other		

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
WQ090519:1115 FRW-1	GW	9-5-19 / 1115	VOCs 8260 full list (EPA 50846-82606) + freeon 113	3V
WQ090519:1120 FRW-2		1120		
WQ090519:1125 FRW-3		1125		
WQ090519:1130 FRW-4		1130		
WQ090519:1145 NP1-1-2		1145		

Comments:	Preservation: (check all that apply)	Special Instruction
	HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other: ___	Field Filtered Lab to Filter
	Samples Relinquished by / Company	Date/Time
WSP/wsp 059	Shelton fridge	9/6/19 1200
Received by / Company	Samples Received by / Company	Date/Time
[Signature]	[Signature]	9/6/19 1300
Relinquished by / Company	Samples Received in LAB by	Date/Time
[Signature]	79 gal 9-6-19 1306	Temp. Received at Lab 1-2