

**TABLE:**

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 (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>
3-Jan-17	6.5	123	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	2.24	0.030
1-Feb-17	6.5	120	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	2.17	0.051
1-Mar-17	6.5	149	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	0.69	0.063
7-Apr-17	6.5	157	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	3.62	0.060
3-May-17	6.5	121	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	0.90	0.079
1-Jun-17	6.5	127	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	0.10	0.097
6-Jul-17	6.5	159	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	0.46	ND<0.02
1-Aug-17	6.8	143	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	3.00	0.193
5-Sep-17	6.8	298	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	2.12	0.051
4-Oct-17	6.5	162	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	2.24	0.036
1-Nov-17	6.8	196	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	0.66	0.043
5-Dec-17	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<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	1.04	0.053
3-Jan-18	6.9	114	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	0.02	0.025

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

NM: Not Measured

TDS: Total dissolved solids

PCE: Tetrachloroethylene

1,1,1-TCA: 1,1,1-Trichloroethane

TCE: Trichloroethene

1,1-DCA: 1,1-Dichloroethane

1,1-DCE: 1,1-Dichloroethene

cis-1,2-DCE: cis-1,2-Dichloroethene

trans-1,2,-DCE: trans-1,2-Dichloroethene

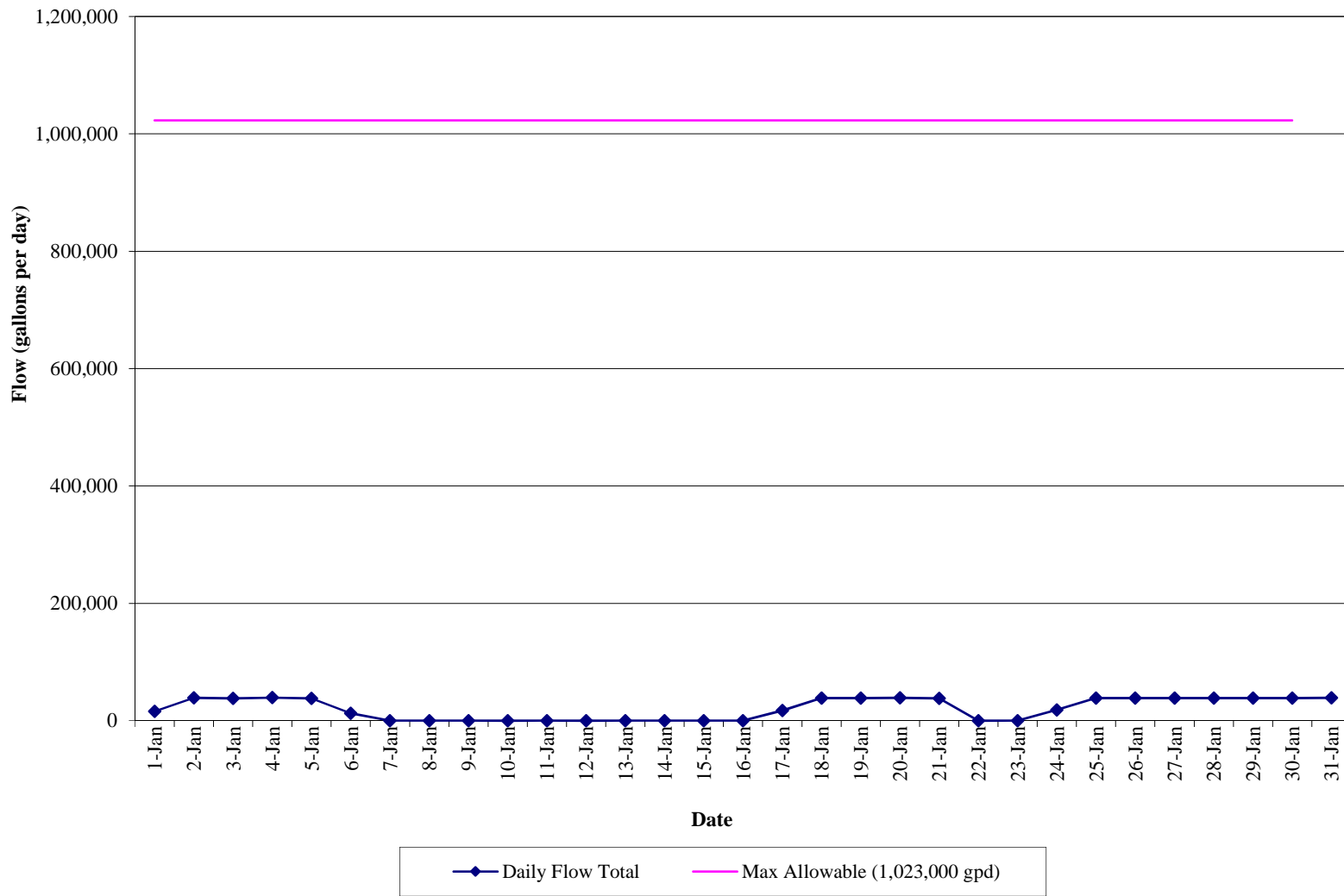
Notes:

1. 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 January 17, 2018 was 6.8.
2. "Effluent" samples were collected from sample port labeled NP2-10 unless otherwise noted.
3. 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.

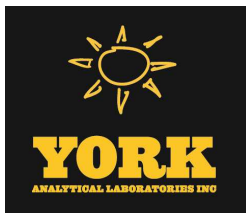
## **GRAPH**

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

**Effluent Flow Data  
(January 1, 2018 to January 31, 2018)**



**APPENDIX I**  
**JANUARY 2018 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: 01/15/2018  
**Client Project ID: Rowe Industries**  
York Project (SDG) No.: 18A0177

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: 01/15/2018  
Client Project ID: Rowe Industries  
York Project (SDG) No.: 18A0177

**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 January 08, 2018 and listed below. The project was identified as your project: **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>
18A0177-01	WQ010318:1235 NP2-10	Water	01/03/2018	01/08/2018
18A0180-01	WQ010318:1230 NP2-6	Water	01/03/2018	01/08/2018

## **General Notes for York Project (SDG) No.: 18A0177**

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:** 01/15/2018





### Sample Information

**Client Sample ID:** WQ010318:1235 NP2-10

**York Sample ID:** 18A0177-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18A0177	Rowe Industries	Water	January 3, 2018 12:35 pm	01/08/2018

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

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 18:06	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 18:06	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 18:06	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 18:06	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 18:06	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 18:06	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 18:06	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058	01/10/2018 07:30	01/10/2018 18:06	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 18:06	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 18:06	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 18:06	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 18:06	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 18:06	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 18:06	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 18:06	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 18:06	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 18:06	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 18:06	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 18:06	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 18:06	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 18:06	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 18:06	SS



Sample Information

Client Sample ID: WQ010318:1235 NP2-10

York Sample ID: 18A0177-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18A0177

Rowe Industries

Water

January 3, 2018 12:35 pm

01/08/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

Table with 13 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Contains 20 rows of chemical analysis data.



### Sample Information

**Client Sample ID:** WQ010318:1235 NP2-10

**York Sample ID:** 18A0177-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18A0177

Rowe Industries

Water

January 3, 2018 12:35 pm

01/08/2018

**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	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 18:06	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 18:06	SS
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 18:06	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 18:06	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 18:06	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 18:06	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 18:06	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 18:06	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 18:06	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 18:06	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 18:06	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 18:06	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 18:06	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 18:06	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 18:06	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 18:06	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 18:06	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 18:06	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058	01/10/2018 07:30	01/10/2018 18:06	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	107 %	69-130
2037-26-5	Surrogate: Toluene-d8	97.3 %	81-117
460-00-4	Surrogate: p-Bromofluorobenzene	106 %	79-122

**Iron by EPA 200.7**

**Log-in Notes:**

**Sample Notes:**



**Sample Information**

**Client Sample ID:** WQ010318:1235 NP2-10

**York Sample ID:** 18A0177-01

<u>York Project (SDG) No.</u> 18A0177	<u>Client Project ID</u> Rowe Industries	<u>Matrix</u> Water	<u>Collection Date/Time</u> January 3, 2018 12:35 pm	<u>Date Received</u> 01/08/2018
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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	0.0247		mg/L	0.0222	1	EPA 200.7 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2018 09:35	01/10/2018 20:43	BML

**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	0.0247		mg/L	0.0222	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2018 09:44	01/10/2018 20:43	BML

**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	114		mg/L	10.0	1	SM 2540C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/10/2018 00:24	01/10/2018 02:43	AA

**Sample Information**

**Client Sample ID:** WQ010318:1230 NP2-6

**York Sample ID:** 18A0180-01

<u>York Project (SDG) No.</u> 18A0180	<u>Client Project ID</u> Rowe Industries	<u>Matrix</u> Water	<u>Collection Date/Time</u> January 3, 2018 12:30 pm	<u>Date Received</u> 01/08/2018
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**Volatile Organics, 8260 List - Low Level**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS



### Sample Information

**Client Sample ID:** WQ010318:1230 NP2-6

**York Sample ID:** 18A0180-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18A0180

Rowe Industries

Water

January 3, 2018 12:30 pm

01/08/2018

**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
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058	01/10/2018 07:30	01/10/2018 17:34	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS



### Sample Information

**Client Sample ID:** WQ010318:1230 NP2-6

**York Sample ID:** 18A0180-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18A0180

Rowe Industries

Water

January 3, 2018 12:30 pm

01/08/2018

**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
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS



### Sample Information

**Client Sample ID:** WQ010318:1230 NP2-6

**York Sample ID:** 18A0180-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18A0180

Rowe Industries

Water

January 3, 2018 12:30 pm

01/08/2018

**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
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
79-01-6	<b>Trichloroethylene</b>	<b>0.42</b>	<b>J</b>	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 17:34	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058	01/10/2018 07:30	01/10/2018 17:34	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	102 %	69-130								
2037-26-5	Surrogate: Toluene-d8	99.3 %	81-117								
460-00-4	Surrogate: p-Bromofluorobenzene	106 %	79-122								



## Analytical Batch Summary

**Batch ID:** BA80317      **Preparation Method:** % Solids Prep      **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
18A0177-01	WQ010318:1235 NP2-10	01/10/18
BA80317-BLK1	Blank	01/10/18

**Batch ID:** BA80340      **Preparation Method:** EPA 5030B      **Prepared By:** RDS

YORK Sample ID	Client Sample ID	Preparation Date
18A0177-01	WQ010318:1235 NP2-10	01/10/18
18A0180-01	WQ010318:1230 NP2-6	01/10/18
BA80340-BLK1	Blank	01/10/18
BA80340-BS1	LCS	01/10/18
BA80340-BSD1	LCS Dup	01/10/18

**Batch ID:** BA80342      **Preparation Method:** EPA 200.7      **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
18A0177-01	WQ010318:1235 NP2-10	01/10/18
BA80342-BLK1	Blank	01/10/18
BA80342-SRM1	Reference	01/10/18

**Batch ID:** BA80346      **Preparation Method:** EPA 3015A      **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
18A0177-01	WQ010318:1235 NP2-10	01/10/18
BA80346-BLK1	Blank	01/10/18
BA80346-SRM1	Reference	01/10/18



**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 BA80340 - EPA 5030B**

**Blank (BA80340-BLK1)**

Prepared & Analyzed: 01/10/2018

1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,1-Dichloropropylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,3-Dichloropropane	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2,2-Dichloropropane	ND	0.50	"								
2-Chlorotoluene	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Chlorotoluene	ND	0.50	"								
Acetone	ND	2.0	"								
Benzene	ND	0.50	"								
Bromobenzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylene chloride	ND	2.0	"								
Naphthalene	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								



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

**York Analytical Laboratories, Inc.**

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

**Batch BA80340 - EPA 5030B**

**Blank (BA80340-BLK1)**

Prepared & Analyzed: 01/10/2018

o-Xylene	ND	0.50	ug/L								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>10.2</i>		<i>"</i>	<i>10.0</i>		<i>102</i>		<i>69-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>9.83</i>		<i>"</i>	<i>10.0</i>		<i>98.3</i>		<i>81-117</i>			
<i>Surrogate: p-Bromofluorobenzene</i>	<i>10.6</i>		<i>"</i>	<i>10.0</i>		<i>106</i>		<i>79-122</i>			

**LCS (BA80340-BS1)**

Prepared & Analyzed: 01/10/2018

1,1,1,2-Tetrachloroethane	9.50		ug/L	10.0		95.0		82-126			
1,1,1-Trichloroethane	8.79		"	10.0		87.9		78-136			
1,1,2,2-Tetrachloroethane	9.91		"	10.0		99.1		76-129			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.27		"	10.0		82.7		54-165			
1,1,2-Trichloroethane	9.32		"	10.0		93.2		82-123			
1,1-Dichloroethane	9.26		"	10.0		92.6		82-129			
1,1-Dichloroethylene	8.75		"	10.0		87.5		68-138			
1,1-Dichloropropylene	9.36		"	10.0		93.6		83-133			
1,2,3-Trichlorobenzene	12.6		"	10.0		126		76-136			
1,2,3-Trichloropropane	9.66		"	10.0		96.6		77-128			
1,2,4-Trichlorobenzene	11.0		"	10.0		110		76-137			
1,2,4-Trimethylbenzene	9.66		"	10.0		96.6		82-132			
1,2-Dibromo-3-chloropropane	9.57		"	10.0		95.7		45-147			
1,2-Dibromoethane	9.58		"	10.0		95.8		83-124			
1,2-Dichlorobenzene	9.64		"	10.0		96.4		79-123			
1,2-Dichloroethane	9.66		"	10.0		96.6		73-132			
1,2-Dichloropropane	9.25		"	10.0		92.5		78-126			
1,3,5-Trimethylbenzene	9.55		"	10.0		95.5		80-131			
1,3-Dichlorobenzene	9.40		"	10.0		94.0		86-122			
1,3-Dichloropropane	9.59		"	10.0		95.9		81-125			
1,4-Dichlorobenzene	9.34		"	10.0		93.4		85-124			
2,2-Dichloropropane	9.43		"	10.0		94.3		56-150			
2-Chlorotoluene	9.61		"	10.0		96.1		79-130			
2-Hexanone	10.4		"	10.0		104		51-146			
4-Chlorotoluene	9.64		"	10.0		96.4		79-128			
Acetone	10.2		"	10.0		102		14-150			
Benzene	9.35		"	10.0		93.5		85-126			
Bromobenzene	9.62		"	10.0		96.2		78-129			
Bromochloromethane	9.74		"	10.0		97.4		77-128			
Bromodichloromethane	9.31		"	10.0		93.1		79-128			
Bromoform	9.50		"	10.0		95.0		78-133			
Bromomethane	9.75		"	10.0		97.5		43-168			



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

**York Analytical Laboratories, Inc.**

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

**Batch BA80340 - EPA 5030B**

**LCS (BA80340-BS1)**

Prepared & Analyzed: 01/10/2018

Carbon tetrachloride	9.01		ug/L	10.0		90.1	77-141						
Chlorobenzene	9.55		"	10.0		95.5	88-120						
Chloroethane	9.59		"	10.0		95.9	65-136						
Chloroform	9.23		"	10.0		92.3	82-128						
Chloromethane	10.4		"	10.0		104	43-155						
cis-1,2-Dichloroethylene	9.44		"	10.0		94.4	83-129						
cis-1,3-Dichloropropylene	9.57		"	10.0		95.7	80-131						
Dibromochloromethane	9.71		"	10.0		97.1	80-130						
Dibromomethane	9.34		"	10.0		93.4	72-134						
Dichlorodifluoromethane	8.78		"	10.0		87.8	44-144						
Ethyl Benzene	9.79		"	10.0		97.9	80-131						
Hexachlorobutadiene	11.0		"	10.0		110	67-146						
Isopropylbenzene	9.54		"	10.0		95.4	76-140						
Methyl tert-butyl ether (MTBE)	9.66		"	10.0		96.6	76-135						
Methylene chloride	9.32		"	10.0		93.2	55-137						
Naphthalene	11.9		"	10.0		119	70-147						
n-Butylbenzene	9.78		"	10.0		97.8	79-132						
n-Propylbenzene	9.53		"	10.0		95.3	78-133						
o-Xylene	9.84		"	10.0		98.4	78-130						
p- & m- Xylenes	20.0		"	20.0		99.8	77-133						
p-Isopropyltoluene	9.78		"	10.0		97.8	81-136						
sec-Butylbenzene	10.0		"	10.0		100	79-137						
Styrene	9.60		"	10.0		96.0	67-132						
tert-Butylbenzene	9.45		"	10.0		94.5	77-138						
Tetrachloroethylene	8.49		"	10.0		84.9	82-131						
Toluene	9.36		"	10.0		93.6	80-127						
trans-1,2-Dichloroethylene	9.07		"	10.0		90.7	80-132						
trans-1,3-Dichloropropylene	9.46		"	10.0		94.6	78-131						
Trichloroethylene	9.17		"	10.0		91.7	82-128						
Trichlorofluoromethane	9.41		"	10.0		94.1	67-139						
Vinyl Chloride	9.68		"	10.0		96.8	58-145						
<i>Surrogate: 1,2-Dichloroethane-d4</i>	9.77		"	10.0		97.7	69-130						
<i>Surrogate: Toluene-d8</i>	9.99		"	10.0		99.9	81-117						
<i>Surrogate: p-Bromofluorobenzene</i>	10.0		"	10.0		100	79-122						



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

Analyte	Result	Reporting		Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	
		Limit	Units						RPD	Limit
<b>Batch BA80340 - EPA 5030B</b>										
<b>LCS Dup (BA80340-BSD1)</b>										
Prepared & Analyzed: 01/10/2018										
1,1,1,2-Tetrachloroethane	9.80		ug/L	10.0		98.0	82-126		3.11	30
1,1,1-Trichloroethane	9.21		"	10.0		92.1	78-136		4.67	30
1,1,2,2-Tetrachloroethane	9.64		"	10.0		96.4	76-129		2.76	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.52		"	10.0		95.2	54-165		14.1	30
1,1,2-Trichloroethane	9.39		"	10.0		93.9	82-123		0.748	30
1,1-Dichloroethane	9.45		"	10.0		94.5	82-129		2.03	30
1,1-Dichloroethylene	9.19		"	10.0		91.9	68-138		4.91	30
1,1-Dichloropropylene	9.86		"	10.0		98.6	83-133		5.20	30
1,2,3-Trichlorobenzene	12.1		"	10.0		121	76-136		4.12	30
1,2,3-Trichloropropane	9.42		"	10.0		94.2	77-128		2.52	30
1,2,4-Trichlorobenzene	10.9		"	10.0		109	76-137		1.19	30
1,2,4-Trimethylbenzene	9.42		"	10.0		94.2	82-132		2.52	30
1,2-Dibromo-3-chloropropane	9.21		"	10.0		92.1	45-147		3.83	30
1,2-Dibromoethane	9.65		"	10.0		96.5	83-124		0.728	30
1,2-Dichlorobenzene	9.50		"	10.0		95.0	79-123		1.46	30
1,2-Dichloroethane	9.96		"	10.0		99.6	73-132		3.06	30
1,2-Dichloropropane	9.50		"	10.0		95.0	78-126		2.67	30
1,3,5-Trimethylbenzene	9.49		"	10.0		94.9	80-131		0.630	30
1,3-Dichlorobenzene	9.18		"	10.0		91.8	86-122		2.37	30
1,3-Dichloropropane	9.66		"	10.0		96.6	81-125		0.727	30
1,4-Dichlorobenzene	9.25		"	10.0		92.5	85-124		0.968	30
2,2-Dichloropropane	9.63		"	10.0		96.3	56-150		2.10	30
2-Chlorotoluene	9.50		"	10.0		95.0	79-130		1.15	30
2-Hexanone	10.2		"	10.0		102	51-146		1.17	30
4-Chlorotoluene	9.54		"	10.0		95.4	79-128		1.04	30
Acetone	9.01		"	10.0		90.1	14-150		12.3	30
Benzene	9.67		"	10.0		96.7	85-126		3.36	30
Bromobenzene	9.58		"	10.0		95.8	78-129		0.417	30
Bromochloromethane	10.1		"	10.0		101	77-128		3.63	30
Bromodichloromethane	9.38		"	10.0		93.8	79-128		0.749	30
Bromoform	9.48		"	10.0		94.8	78-133		0.211	30
Bromomethane	10.1		"	10.0		101	43-168		3.43	30
Carbon tetrachloride	9.45		"	10.0		94.5	77-141		4.77	30
Chlorobenzene	9.75		"	10.0		97.5	88-120		2.07	30
Chloroethane	9.86		"	10.0		98.6	65-136		2.78	30
Chloroform	9.50		"	10.0		95.0	82-128		2.88	30
Chloromethane	10.8		"	10.0		108	43-155		4.06	30
cis-1,2-Dichloroethylene	9.67		"	10.0		96.7	83-129		2.41	30
cis-1,3-Dichloropropylene	9.73		"	10.0		97.3	80-131		1.66	30
Dibromochloromethane	9.72		"	10.0		97.2	80-130		0.103	30
Dibromomethane	9.35		"	10.0		93.5	72-134		0.107	30
Dichlorodifluoromethane	10.2		"	10.0		102	44-144		15.4	30
Ethyl Benzene	9.94		"	10.0		99.4	80-131		1.52	30
Hexachlorobutadiene	11.0		"	10.0		110	67-146		0.00	30
Isopropylbenzene	9.37		"	10.0		93.7	76-140		1.80	30
Methyl tert-butyl ether (MTBE)	9.95		"	10.0		99.5	76-135		2.96	30
Methylene chloride	9.78		"	10.0		97.8	55-137		4.82	30
Naphthalene	11.4		"	10.0		114	70-147		4.20	30
n-Butylbenzene	9.63		"	10.0		96.3	79-132		1.55	30
n-Propylbenzene	9.44		"	10.0		94.4	78-133		0.949	30
o-Xylene	9.96		"	10.0		99.6	78-130		1.21	30



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

**York Analytical Laboratories, Inc.**

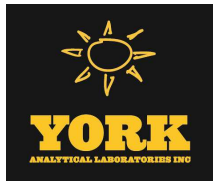
Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit								Limit			

**Batch BA80340 - EPA 5030B**

**LCS Dup (BA80340-BSD1)**

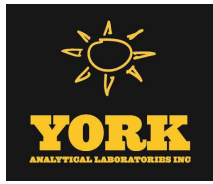
Prepared & Analyzed: 01/10/2018

p- & m- Xylenes	20.2		ug/L	20.0		101	77-133			1.10	30		
p-Isopropyltoluene	9.61		"	10.0		96.1	81-136			1.75	30		
sec-Butylbenzene	9.88		"	10.0		98.8	79-137			1.51	30		
Styrene	9.80		"	10.0		98.0	67-132			2.06	30		
tert-Butylbenzene	9.35		"	10.0		93.5	77-138			1.06	30		
Tetrachloroethylene	8.88		"	10.0		88.8	82-131			4.49	30		
Toluene	9.50		"	10.0		95.0	80-127			1.48	30		
trans-1,2-Dichloroethylene	9.34		"	10.0		93.4	80-132			2.93	30		
trans-1,3-Dichloropropylene	9.56		"	10.0		95.6	78-131			1.05	30		
Trichloroethylene	9.40		"	10.0		94.0	82-128			2.48	30		
Trichlorofluoromethane	10.3		"	10.0		103	67-139			8.84	30		
Vinyl Chloride	10.1		"	10.0		101	58-145			4.35	30		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>9.99</i>		<i>"</i>	<i>10.0</i>		<i>99.9</i>	<i>69-130</i>						
<i>Surrogate: Toluene-d8</i>	<i>10.0</i>		<i>"</i>	<i>10.0</i>		<i>100</i>	<i>81-117</i>						
<i>Surrogate: p-Bromofluorobenzene</i>	<i>9.96</i>		<i>"</i>	<i>10.0</i>		<i>99.6</i>	<i>79-122</i>						



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

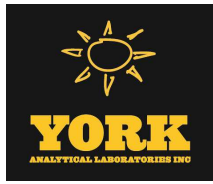
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BA80342 - EPA 200.7</b>											
<b>Blank (BA80342-BLK1)</b>											
Iron	ND	0.0222	mg/L						Prepared: 01/10/2018	Analyzed: 01/11/2018	
<b>Reference (BA80342-SRM1)</b>											
Iron	1.40		ug/mL	1.40		100	84.9-115		Prepared & Analyzed: 01/10/2018		
<b>Batch BA80346 - EPA 3015A</b>											
<b>Blank (BA80346-BLK1)</b>											
Iron - Dissolved	ND	0.0222	mg/L						Prepared: 01/10/2018	Analyzed: 01/11/2018	
<b>Reference (BA80346-SRM1)</b>											
Iron - Dissolved	1.38		ug/mL	1.40		98.7	84.9-115		Prepared & Analyzed: 01/10/2018		



Miscellaneous Physical Parameters - Quality Control Data

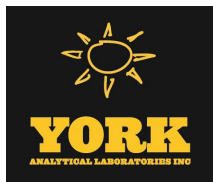
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BA80317 - % Solids Prep</b>											
<b>Blank (BA80317-BLK1)</b>											
Prepared & Analyzed: 01/10/2018											
Total Dissolved Solids	ND	10.0	mg/L								



### Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
18A0177-01	WQ010318:1235 NP2-10	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18A0180-01	WQ010318:1230 NP2-6	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



## Sample and Data Qualifiers Relating to This Work Order

- J Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
- CCV-E The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

### Definitions and Other Explanations

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

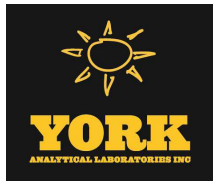
If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For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

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

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

Certification for pH is no longer offered by NYDOH ELAP.

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



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

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# YORK

ANALYTICAL LABORATORIES, INC.  
120 RESEARCH DR. STRATFORD, CT 06615  
(203) 325-1371 FAX (203) 357-0166

# Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

Page 1 of 1

York Project No. 18A0177

YOUR INFORMATION		Report To:		Invoice To:		YOUR PROJECT ID		Turn-Around Time		Report Type	
Company: <u>LB6</u>	Company: <u>Same</u>	Company: <u>Same</u>	Company: <u>Reve Industries</u>	Purchase Order No. <u>NAB5AG</u>		Standard (5-7 Days) <input checked="" type="checkbox"/> <u>5</u>		RUSH - Same Day <input type="checkbox"/>	RUSH - Next Day <input type="checkbox"/>	Summary Report <input checked="" type="checkbox"/> <u>pdf</u>	Summary w/ QA Summary <input checked="" type="checkbox"/> <u>pdf</u>
Address: <u>4 Research Dr. Suite 301</u>	Address: _____	Address: _____	Address: _____	Metals		Misc. Org.		RUSH - Two Day <input type="checkbox"/>	RUSH - Three Day <input type="checkbox"/>	CT RCP Package	CT RCP Package
Phone No. <u>263-929-8555</u>	Phone No. _____	Phone No. _____	Phone No. _____	Semi-Vols. / Pest/Chlor		Full Lists		RUSH - Two Day <input type="checkbox"/>	RUSH - Three Day <input type="checkbox"/>	CT RCP DQ/DUE Pkg.	CT RCP DQ/DUE Pkg.
Contact Person: <u>Tunde Sandoz</u>	Attention: _____	Attention: _____	Attention: _____	Volatiles		Full Lists		RUSH - Four Day <input type="checkbox"/>	RUSH - Four Day <input type="checkbox"/>	NY ASP A Package	NY ASP A Package
E-Mail Address: <u>Tsandoz@lb6ct.com</u>	E-Mail Address: _____	E-Mail Address: _____	E-Mail Address: _____	8270 or 625		Full Lists		Electronic Data Deliverables (EDD)			
<p><b>Print Clearly and Legibly - All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.</b></p> <p>Matrix Codes S - soil Other - specify (oil, etc.) WW - wastewater GW - groundwater DW - drinking water Air-A - ambient air Air-SV - soil vapor</p> <p>Signature: <u>[Signature]</u> Name (printed): <u>Fran Foster</u></p> <p>Samples Collected/Authorized By (Signature): _____ Name (printed): _____</p>				8270 or 625		Full Lists		Simple Excel <input checked="" type="checkbox"/>			
				8270 or 625		Full Lists		NYSDDEC EQUIS <input type="checkbox"/>			
<p>Choose Analyses Needed from the Menu Above and Enter Below</p> <p><u>8260 list (EPA SWP45-8260) plus from 13</u></p> <p><u>Fe by EPA 800-7/Fe dissolved by EPA 6010 (SWP46-6010) / POCs</u></p> <p><u>8260 list (EPA SWP45-8260) plus from 13 / TDS (SH 2540c)</u></p>				8270 or 625		Full Lists		EQUIS (std) <input type="checkbox"/>			
				8270 or 625		Full Lists		EZ-EDD (EQUIS) <input type="checkbox"/>			
<p>Preservation</p> <p>Check those Applicable</p> <p>Special Instructions</p> <p>Field Filtered <input type="checkbox"/></p> <p>Lab to Filter <input type="checkbox"/></p>				8270 or 625		Full Lists		NIDEP SRP HazSite EDD <input type="checkbox"/>			
				8270 or 625		Full Lists		GIS/KEY (std) <input type="checkbox"/>			
<p>Comments</p> <p><u>WQ010318: 1230 NP2-6</u></p> <p><u>WQ010318: 1235 NP2-10</u></p>				8270 or 625		Full Lists		Other <input type="checkbox"/>			
				8270 or 625		Full Lists		York Regulatory Comparison <input type="checkbox"/>			
<p>Temperature on Receipt <u>1.7 °C</u></p>				8270 or 625		Full Lists		Excel Spreadsheet <input type="checkbox"/>			
				8270 or 625		Full Lists		Compare to the following (egs. please fill in):			
<p>Signature: <u>[Signature]</u></p>				8270 or 625		Full Lists		Container Description(s) <u>300a's</u>			
				8270 or 625		Full Lists		Container Description(s) <u>300a's; 3 plastic</u>			

(system)

# YORK

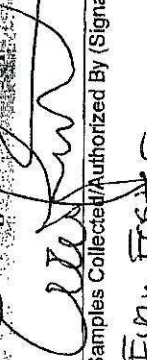

ANALYTICAL LABORATORIES, INC.  
120 RESEARCH DR. STRATFORD, CT 06615  
(203) 325-1371 FAX (203) 357-0166

## Field Chain-of-Custody Record

Page 1 of 1

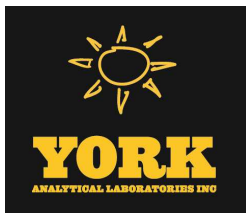
York Project No. 18A0180

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

YOUR Information		Report To:		Invoice To:		YOUR Project ID		Turn-Around Time		Report Type			
Company: <u>LBG</u>	Company: <u>Same</u>	Company: <u>Same</u>	Company: <u>Same</u>	Company: <u>Same</u>	Company: <u>Same</u>	<b>Report To:</b> Address: _____ Phone No. _____ Attention: _____ E-Mail Address: _____		<b>Turn-Around Time:</b> RUSH - Same Day <input type="checkbox"/> RUSH - Next Day <input type="checkbox"/> RUSH - Two Day <input type="checkbox"/> RUSH - Three Day <input type="checkbox"/> RUSH - Four Day <input type="checkbox"/> Standard (5-7 Days) <input checked="" type="checkbox"/>		<b>Report Type:</b> Summary Report <input checked="" type="checkbox"/> <u>X</u> pdf Summary w/ QA Summary <input checked="" type="checkbox"/> <u>X</u> pdf CT RCP Package CTCRP DQ/DUE Pkg NY ASP A Package NY ASP B Package <u>NP2-10 only</u> pdf NUDEP Red. Deliv. Electronic Data Deliverables (EDD)			
Address: <u>4 Research Dr. Suite 301</u> <u>Shelton, CT 06824</u> Phone No. <u>203-929-8555</u> Contact Person: <u>Junde Sandoz</u> E-Mail Address: <u>J.Sandoz@lbct.com</u>		Address: _____ Phone No. _____ Attention: _____ E-Mail Address: _____		Address: _____ Phone No. _____ Attention: _____ E-Mail Address: _____		Address: _____ Phone No. _____ Attention: _____ E-Mail Address: _____		Address: _____ Phone No. _____ Attention: _____ E-Mail Address: _____		Address: _____ Phone No. _____ Attention: _____ E-Mail Address: _____			
Print, Clean, and Legible. All information must be completed. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.		Matrix Codes: S - soil Other - specify (oil, etc) WW - wastewater GW - groundwater DW - drinking water Air-A - ambient air Air-SV - soil vapor		Semt-Volils: 8270 or 625 STARS list BN Only Acahis Only PAH list TAGM list Site Spec. CT RCP list TCLP list Aroon. only Halog. only App. IX 8021B list		Volatiles: 8260 full TICs Site Spec. Nassau Co. Suffolk Co. Ketones Oxygenates TAGM list TCLP list CT RCP list 524.2 Aroon. only NUDEP list App. IX TCLP BNA SLP or TCLP 608 PCB		Metals: RCRA PF13 list TAL CT15 list TAGM list NUDEP list Total Dissolved SLP or TCLP Basic Metals LIST Below		Full Lists: Pol.Poll. TCL Ogrs TAL MGCN Full TCLP For App. IX Part 360-basis Hexachlorobis TOX BT/MB Part 360-basis Aqueous Tox NYDEP Sewer TOC NYSDDEC Sewer Asbestos TAGM Silica		Other: York Regulatory Comparison Excel Spreadsheet Compare to the following (e.g., please fill in): _____ _____ _____	
Samples Collected/Authorized By (Signature)  Fran Foster Name (printed)		Choose Analyses Needed from the Menu Above and Enter Below 8260 list (EPA SWPYS-8260B) plus from 113 Fe by EPA 800-7/Fc Dissolved by EPA 6010 (SWPYS-6010B) VOCs 8260 list (EPA SWPYS-8260B) plus from 113 / TDS (SH 2540c)		Preservation: <input checked="" type="checkbox"/> Fropm <input checked="" type="checkbox"/> HCl <input checked="" type="checkbox"/> MeOH <input checked="" type="checkbox"/> HNO <sub>3</sub> <input checked="" type="checkbox"/> NaOH <input type="checkbox"/> ZnAc <input type="checkbox"/> Ascorbic Acid <input type="checkbox"/> Other		Container Description(s): 3000's 3000's; 3 plastic		Temperature on Receipt: <u>1.7°C</u>					
Sample Identification: <u>W0010318-1230 NP2-6</u>		Date Sampled: <u>1-3-18</u>		Matrix: <u>GW</u>		Preservation: <input checked="" type="checkbox"/> Fropm <input checked="" type="checkbox"/> HCl <input checked="" type="checkbox"/> MeOH <input checked="" type="checkbox"/> HNO <sub>3</sub> <input checked="" type="checkbox"/> NaOH <input type="checkbox"/> ZnAc <input type="checkbox"/> Ascorbic Acid <input type="checkbox"/> Other		Container Description(s): 3000's		Temperature on Receipt: <u>1.7°C</u>			
Sample Identification: <u>W0010318-1235 NP2-10</u>		Date Sampled: <u>1-3-18</u>		Matrix: <u>GW</u>		Preservation: <input checked="" type="checkbox"/> Fropm <input checked="" type="checkbox"/> HCl <input checked="" type="checkbox"/> MeOH <input checked="" type="checkbox"/> HNO <sub>3</sub> <input checked="" type="checkbox"/> NaOH <input type="checkbox"/> ZnAc <input type="checkbox"/> Ascorbic Acid <input type="checkbox"/> Other		Container Description(s): 3000's		Temperature on Receipt: <u>1.7°C</u>			
Comments:		Samples Relinquished By: _____ Date/Time: _____ Samples Relinquished By: <u>LBG Friday 1-4-18 800</u> Date/Time: _____ Samples Relinquished By: <u>J. Foster 1/8/18-1620</u> Date/Time: _____ Samples Relinquished By: _____ Date/Time: _____		Signature:  Date: <u>1/8/18 1425</u>		Signature: _____ Date/Time: _____		Signature: _____ Date/Time: _____		Signature: _____ Date/Time: _____		Signature: _____ Date/Time: _____	

(system)

**APPENDIX II**  
**JANUARY 2018 LABORATORY ANALYTICAL REPORTS**  
**FOR FSP&T RECOVERY WELL**



# Technical Report

prepared for:

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

Report Date: 01/11/2018  
**Client Project ID: Rowe Industries**  
York Project (SDG) No.: 18A0175

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: 01/11/2018  
Client Project ID: Rowe Industries  
York Project (SDG) No.: 18A0175

**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 January 08, 2018 and listed below. The project was identified as your project: **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>
18A0175-01	WQ010318:1240NP1-1-2	Water	01/03/2018	01/08/2018

## General Notes for York Project (SDG) No.: 18A0175

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: 01/11/2018





### Sample Information

**Client Sample ID:** WQ010318:1240NP1-1-2

**York Sample ID:** 18A0175-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18A0175	Rowe Industries	Water	January 3, 2018 12:40 pm	01/08/2018

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

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058	01/10/2018 07:30	01/10/2018 14:26	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS



### Sample Information

**Client Sample ID:** WQ010318:1240NP1-1-2

**York Sample ID:** 18A0175-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18A0175

Rowe Industries

Water

January 3, 2018 12:40 pm

01/08/2018

**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	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS



### Sample Information

**Client Sample ID:** WQ010318:1240NP1-1-2

**York Sample ID:** 18A0175-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18A0175

Rowe Industries

Water

January 3, 2018 12:40 pm

01/08/2018

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

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

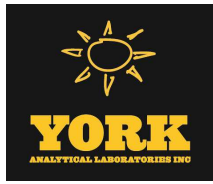
CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
127-18-4	<b>Tetrachloroethylene</b>	<b>0.28</b>	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
79-01-6	<b>Trichloroethylene</b>	<b>0.70</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	01/10/2018 07:30	01/10/2018 14:26	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058	01/10/2018 07:30	01/10/2018 14:26	SS

**Surrogate Recoveries**

**Result**

**Acceptance Range**

17060-07-0	Surrogate: 1,2-Dichloroethane-d4	102 %	69-130
2037-26-5	Surrogate: Toluene-d8	99.0 %	81-117
460-00-4	Surrogate: p-Bromofluorobenzene	107 %	79-122



## Analytical Batch Summary

**Batch ID:** BA80340

**Preparation Method:** EPA 5030B

**Prepared By:** RDS

YORK Sample ID	Client Sample ID	Preparation Date
18A0175-01	WQ010318:1240NP1-1-2	01/10/18
BA80340-BLK1	Blank	01/10/18
BA80340-BS1	LCS	01/10/18
BA80340-BSD1	LCS Dup	01/10/18



**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 BA80340 - EPA 5030B**

**Blank (BA80340-BLK1)**

Prepared & Analyzed: 01/10/2018

1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,1-Dichloropropylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,3-Dichloropropane	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2,2-Dichloropropane	ND	0.50	"								
2-Chlorotoluene	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Chlorotoluene	ND	0.50	"								
Acetone	ND	2.0	"								
Benzene	ND	0.50	"								
Bromobenzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylene chloride	ND	2.0	"								
Naphthalene	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								



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

**York Analytical Laboratories, Inc.**

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

**Batch BA80340 - EPA 5030B**

**Blank (BA80340-BLK1)**

Prepared & Analyzed: 01/10/2018

o-Xylene	ND	0.50	ug/L								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	10.2		"	10.0		102	69-130				
<i>Surrogate: Toluene-d8</i>	9.83		"	10.0		98.3	81-117				
<i>Surrogate: p-Bromofluorobenzene</i>	10.6		"	10.0		106	79-122				

**LCS (BA80340-BS1)**

Prepared & Analyzed: 01/10/2018

1,1,1,2-Tetrachloroethane	9.50		ug/L	10.0		95.0	82-126				
1,1,1-Trichloroethane	8.79		"	10.0		87.9	78-136				
1,1,2,2-Tetrachloroethane	9.91		"	10.0		99.1	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.27		"	10.0		82.7	54-165				
1,1,2-Trichloroethane	9.32		"	10.0		93.2	82-123				
1,1-Dichloroethane	9.26		"	10.0		92.6	82-129				
1,1-Dichloroethylene	8.75		"	10.0		87.5	68-138				
1,1-Dichloropropylene	9.36		"	10.0		93.6	83-133				
1,2,3-Trichlorobenzene	12.6		"	10.0		126	76-136				
1,2,3-Trichloropropane	9.66		"	10.0		96.6	77-128				
1,2,4-Trichlorobenzene	11.0		"	10.0		110	76-137				
1,2,4-Trimethylbenzene	9.66		"	10.0		96.6	82-132				
1,2-Dibromo-3-chloropropane	9.57		"	10.0		95.7	45-147				
1,2-Dibromoethane	9.58		"	10.0		95.8	83-124				
1,2-Dichlorobenzene	9.64		"	10.0		96.4	79-123				
1,2-Dichloroethane	9.66		"	10.0		96.6	73-132				
1,2-Dichloropropane	9.25		"	10.0		92.5	78-126				
1,3,5-Trimethylbenzene	9.55		"	10.0		95.5	80-131				
1,3-Dichlorobenzene	9.40		"	10.0		94.0	86-122				
1,3-Dichloropropane	9.59		"	10.0		95.9	81-125				
1,4-Dichlorobenzene	9.34		"	10.0		93.4	85-124				
2,2-Dichloropropane	9.43		"	10.0		94.3	56-150				
2-Chlorotoluene	9.61		"	10.0		96.1	79-130				
2-Hexanone	10.4		"	10.0		104	51-146				
4-Chlorotoluene	9.64		"	10.0		96.4	79-128				
Acetone	10.2		"	10.0		102	14-150				
Benzene	9.35		"	10.0		93.5	85-126				
Bromobenzene	9.62		"	10.0		96.2	78-129				
Bromochloromethane	9.74		"	10.0		97.4	77-128				
Bromodichloromethane	9.31		"	10.0		93.1	79-128				
Bromoform	9.50		"	10.0		95.0	78-133				
Bromomethane	9.75		"	10.0		97.5	43-168				



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

**York Analytical Laboratories, Inc.**

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

**Batch BA80340 - EPA 5030B**

**LCS (BA80340-BS1)**

Prepared & Analyzed: 01/10/2018

Carbon tetrachloride	9.01		ug/L	10.0		90.1	77-141				
Chlorobenzene	9.55		"	10.0		95.5	88-120				
Chloroethane	9.59		"	10.0		95.9	65-136				
Chloroform	9.23		"	10.0		92.3	82-128				
Chloromethane	10.4		"	10.0		104	43-155				
cis-1,2-Dichloroethylene	9.44		"	10.0		94.4	83-129				
cis-1,3-Dichloropropylene	9.57		"	10.0		95.7	80-131				
Dibromochloromethane	9.71		"	10.0		97.1	80-130				
Dibromomethane	9.34		"	10.0		93.4	72-134				
Dichlorodifluoromethane	8.78		"	10.0		87.8	44-144				
Ethyl Benzene	9.79		"	10.0		97.9	80-131				
Hexachlorobutadiene	11.0		"	10.0		110	67-146				
Isopropylbenzene	9.54		"	10.0		95.4	76-140				
Methyl tert-butyl ether (MTBE)	9.66		"	10.0		96.6	76-135				
Methylene chloride	9.32		"	10.0		93.2	55-137				
Naphthalene	11.9		"	10.0		119	70-147				
n-Butylbenzene	9.78		"	10.0		97.8	79-132				
n-Propylbenzene	9.53		"	10.0		95.3	78-133				
o-Xylene	9.84		"	10.0		98.4	78-130				
p- & m- Xylenes	20.0		"	20.0		99.8	77-133				
p-Isopropyltoluene	9.78		"	10.0		97.8	81-136				
sec-Butylbenzene	10.0		"	10.0		100	79-137				
Styrene	9.60		"	10.0		96.0	67-132				
tert-Butylbenzene	9.45		"	10.0		94.5	77-138				
Tetrachloroethylene	8.49		"	10.0		84.9	82-131				
Toluene	9.36		"	10.0		93.6	80-127				
trans-1,2-Dichloroethylene	9.07		"	10.0		90.7	80-132				
trans-1,3-Dichloropropylene	9.46		"	10.0		94.6	78-131				
Trichloroethylene	9.17		"	10.0		91.7	82-128				
Trichlorofluoromethane	9.41		"	10.0		94.1	67-139				
Vinyl Chloride	9.68		"	10.0		96.8	58-145				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	9.77		"	10.0		97.7	69-130				
<i>Surrogate: Toluene-d8</i>	9.99		"	10.0		99.9	81-117				
<i>Surrogate: p-Bromofluorobenzene</i>	10.0		"	10.0		100	79-122				



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 BA80340 - EPA 5030B</b>											
<b>LCS Dup (BA80340-BSD1)</b>											
Prepared & Analyzed: 01/10/2018											
1,1,1,2-Tetrachloroethane	9.80		ug/L	10.0		98.0	82-126		3.11		30
1,1,1-Trichloroethane	9.21		"	10.0		92.1	78-136		4.67		30
1,1,2,2-Tetrachloroethane	9.64		"	10.0		96.4	76-129		2.76		30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.52		"	10.0		95.2	54-165		14.1		30
1,1,2-Trichloroethane	9.39		"	10.0		93.9	82-123		0.748		30
1,1-Dichloroethane	9.45		"	10.0		94.5	82-129		2.03		30
1,1-Dichloroethylene	9.19		"	10.0		91.9	68-138		4.91		30
1,1-Dichloropropylene	9.86		"	10.0		98.6	83-133		5.20		30
1,2,3-Trichlorobenzene	12.1		"	10.0		121	76-136		4.12		30
1,2,3-Trichloropropane	9.42		"	10.0		94.2	77-128		2.52		30
1,2,4-Trichlorobenzene	10.9		"	10.0		109	76-137		1.19		30
1,2,4-Trimethylbenzene	9.42		"	10.0		94.2	82-132		2.52		30
1,2-Dibromo-3-chloropropane	9.21		"	10.0		92.1	45-147		3.83		30
1,2-Dibromoethane	9.65		"	10.0		96.5	83-124		0.728		30
1,2-Dichlorobenzene	9.50		"	10.0		95.0	79-123		1.46		30
1,2-Dichloroethane	9.96		"	10.0		99.6	73-132		3.06		30
1,2-Dichloropropane	9.50		"	10.0		95.0	78-126		2.67		30
1,3,5-Trimethylbenzene	9.49		"	10.0		94.9	80-131		0.630		30
1,3-Dichlorobenzene	9.18		"	10.0		91.8	86-122		2.37		30
1,3-Dichloropropane	9.66		"	10.0		96.6	81-125		0.727		30
1,4-Dichlorobenzene	9.25		"	10.0		92.5	85-124		0.968		30
2,2-Dichloropropane	9.63		"	10.0		96.3	56-150		2.10		30
2-Chlorotoluene	9.50		"	10.0		95.0	79-130		1.15		30
2-Hexanone	10.2		"	10.0		102	51-146		1.17		30
4-Chlorotoluene	9.54		"	10.0		95.4	79-128		1.04		30
Acetone	9.01		"	10.0		90.1	14-150		12.3		30
Benzene	9.67		"	10.0		96.7	85-126		3.36		30
Bromobenzene	9.58		"	10.0		95.8	78-129		0.417		30
Bromochloromethane	10.1		"	10.0		101	77-128		3.63		30
Bromodichloromethane	9.38		"	10.0		93.8	79-128		0.749		30
Bromoform	9.48		"	10.0		94.8	78-133		0.211		30
Bromomethane	10.1		"	10.0		101	43-168		3.43		30
Carbon tetrachloride	9.45		"	10.0		94.5	77-141		4.77		30
Chlorobenzene	9.75		"	10.0		97.5	88-120		2.07		30
Chloroethane	9.86		"	10.0		98.6	65-136		2.78		30
Chloroform	9.50		"	10.0		95.0	82-128		2.88		30
Chloromethane	10.8		"	10.0		108	43-155		4.06		30
cis-1,2-Dichloroethylene	9.67		"	10.0		96.7	83-129		2.41		30
cis-1,3-Dichloropropylene	9.73		"	10.0		97.3	80-131		1.66		30
Dibromochloromethane	9.72		"	10.0		97.2	80-130		0.103		30
Dibromomethane	9.35		"	10.0		93.5	72-134		0.107		30
Dichlorodifluoromethane	10.2		"	10.0		102	44-144		15.4		30
Ethyl Benzene	9.94		"	10.0		99.4	80-131		1.52		30
Hexachlorobutadiene	11.0		"	10.0		110	67-146		0.00		30
Isopropylbenzene	9.37		"	10.0		93.7	76-140		1.80		30
Methyl tert-butyl ether (MTBE)	9.95		"	10.0		99.5	76-135		2.96		30
Methylene chloride	9.78		"	10.0		97.8	55-137		4.82		30
Naphthalene	11.4		"	10.0		114	70-147		4.20		30
n-Butylbenzene	9.63		"	10.0		96.3	79-132		1.55		30
n-Propylbenzene	9.44		"	10.0		94.4	78-133		0.949		30
o-Xylene	9.96		"	10.0		99.6	78-130		1.21		30



**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 BA80340 - EPA 5030B**

**LCS Dup (BA80340-BSD1)**

Prepared & Analyzed: 01/10/2018

p- & m- Xylenes	20.2		ug/L	20.0		101	77-133		1.10	30	
p-Isopropyltoluene	9.61		"	10.0		96.1	81-136		1.75	30	
sec-Butylbenzene	9.88		"	10.0		98.8	79-137		1.51	30	
Styrene	9.80		"	10.0		98.0	67-132		2.06	30	
tert-Butylbenzene	9.35		"	10.0		93.5	77-138		1.06	30	
Tetrachloroethylene	8.88		"	10.0		88.8	82-131		4.49	30	
Toluene	9.50		"	10.0		95.0	80-127		1.48	30	
trans-1,2-Dichloroethylene	9.34		"	10.0		93.4	80-132		2.93	30	
trans-1,3-Dichloropropylene	9.56		"	10.0		95.6	78-131		1.05	30	
Trichloroethylene	9.40		"	10.0		94.0	82-128		2.48	30	
Trichlorofluoromethane	10.3		"	10.0		103	67-139		8.84	30	
Vinyl Chloride	10.1		"	10.0		101	58-145		4.35	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>9.99</i>		<i>"</i>	<i>10.0</i>		<i>99.9</i>	<i>69-130</i>				
<i>Surrogate: Toluene-d8</i>	<i>10.0</i>		<i>"</i>	<i>10.0</i>		<i>100</i>	<i>81-117</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>9.96</i>		<i>"</i>	<i>10.0</i>		<i>99.6</i>	<i>79-122</i>				



### Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
18A0175-01	WQ010318:1240NP1-1-2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



## Sample and Data Qualifiers Relating to This Work Order

- J Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
- CCV-E The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

### Definitions and Other Explanations

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

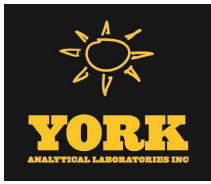
If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For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

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

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

Certification for pH is no longer offered by NYDOH ELAP.

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



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

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# YORK

ANALYTICAL LABORATORIES, INC.  
120 RESEARCH DR. STRATFORD, CT 06615  
(203) 325-1371 FAX (203) 357-0166

## Field Chain-of-Custody Record

Page 1 of 1

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

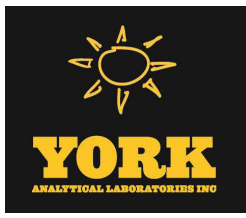
York Project No. 18A0175

<b>YOUR INFORMATION</b> Company: <u>LB6</u> Address: <u>4 Research Dr Suite 301 Shelton, CT 06484</u> Phone No: <u>203-929-8555</u> Contact Person: <u>Tunde Sander</u> E-Mail Address: <u>T.Sander@LB6ET.com</u>		<b>Report To:</b> Company: <u>Same</u> Address: _____ Phone No: _____ Attention: _____ E-Mail Address: _____		<b>Invoice To:</b> Company: <u>Same</u> Address: _____ Phone No: _____ Attention: _____ E-Mail Address: _____		<b>YOUR PROJECT ID</b> YOUR Project ID: <u>Rowe Industries.</u> Purchase Order No.: <u>11ABSA6</u> Samples from: CT <input type="checkbox"/> NY <input checked="" type="checkbox"/> NJ <input type="checkbox"/>		<b>Turn-Around Time</b> RUSH - Same Day <input type="checkbox"/> RUSH - Next Day <input type="checkbox"/> RUSH - Two Day <input type="checkbox"/> RUSH - Three Day <input type="checkbox"/> RUSH - Four Day <input type="checkbox"/> Standard (5-7 Days) <input checked="" type="checkbox"/>		<b>Report Type</b> Summary Report <input checked="" type="checkbox"/> <u>pdf</u> Summary w/ QA Summary <input checked="" type="checkbox"/> <u>pdf</u> CT RCP Package CT RCP DOA/DUE Pkg NY ASP A Package NY ASP B Package <input checked="" type="checkbox"/> <u>pdf</u> NJDEP Red. Deliv. Electronic Data Deliverables (EDD)			
<b>Matrix Codes</b> S - soil Other - specify (oil, etc) WW - wastewater GW - groundwater DW - drinking water Air-A - ambient air Air-SV - soil vapor		<b>Volatiles</b> 8260 full 624 STARS list BITEX MTBE TCL list TAGM list CT RCP list Arom. only Halog. only App. LX list 8021B list		<b>Semi-Volatiles</b> 8270 or 625 STARS list BN Only Acids Only PAH list TAGM list CT RCP list TCL list NIDEP list Arom. only Halog. only App. LX list 8021B list		<b>Metals</b> RCRA8 PP13 list TAL CT 15 list TAGM list NIDEP list Total Dissolved SPL Per TCLP Infa. Metals LIST Below		<b>Misc. Org.</b> TPH GRO TPH DRO CT ETPH NY 310-13 TPH 1664 Air TO14A Air TO15 Air STAPS Air VPH Air TCs Methane Helium		<b>Full Lists</b> Pri. Poll TCL Organics TAL MatCN Full TCLP Full App. DX Part 360-Organics Part 360-Residue Part 360-Trace NYDEP Trace NYDEP Trace TAGM Silica		<b>Misc.</b> Corrosivity Reactivity Ignitability Flash Point Slave Anal. Hexachlorobenzene TOX BTLE Aquatic Tox. NYDEP Trace TOC NYDEP Trace Adhesives Silica	
<b>Sample Matrix</b> GW		<b>Sample Matrix</b> GW		<b>Sample Matrix</b> GW		<b>Sample Matrix</b> GW		<b>Sample Matrix</b> GW		<b>Sample Matrix</b> GW			
<b>Sample Identification</b> WQ010318 J240NPI-2		<b>Date Sampled</b> 1-3-18		<b>Date Sampled</b> 1-3-18		<b>Date Sampled</b> 1-3-18		<b>Date Sampled</b> 1-3-18		<b>Date Sampled</b> 1-3-18			
<b>Comments</b> Preservation <input checked="" type="checkbox"/> 4°C V Frozen <input checked="" type="checkbox"/> HPLC Zink MeOH Ascorbic Acid Other		Check these Applicable Special Instructions Field Filtered <input type="checkbox"/> Lab to Filter <input type="checkbox"/>		Samples Relinquished By: <u>[Signature]</u> Date/Time: <u>1-4-18 8:00</u>		Samples Relinquished By: <u>[Signature]</u> Date/Time: <u>1-4-18 8:00</u>		Samples Relinquished By: <u>[Signature]</u> Date/Time: <u>1-4-18 8:00</u>		Samples Relinquished By: <u>[Signature]</u> Date/Time: <u>1-4-18 8:00</u>			
Container Description(s) VOC 8260 full list (EPA SW846-8260) plus from 113		Container Description(s) VOC 8260 full list (EPA SW846-8260) plus from 113		Container Description(s) VOC 8260 full list (EPA SW846-8260) plus from 113		Container Description(s) VOC 8260 full list (EPA SW846-8260) plus from 113		Container Description(s) VOC 8260 full list (EPA SW846-8260) plus from 113		Container Description(s) VOC 8260 full list (EPA SW846-8260) plus from 113			
Temperature on Receipt 1.7 °C		Temperature on Receipt 1.7 °C		Temperature on Receipt 1.7 °C		Temperature on Receipt 1.7 °C		Temperature on Receipt 1.7 °C		Temperature on Receipt 1.7 °C			

*Rec'd at 1/8/18 1425*

(AW of FAW)

**APPENDIX III**  
**JANUARY 2018 LABORATORY ANALYTICAL REPORTS**  
**FOR AIR SAMPLES**



# Technical Report

prepared for:

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

Report Date: 01/25/2018  
**Client Project ID: Rowe Industries**  
York Project (SDG) No.: 18A0618

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: 01/25/2018  
Client Project ID: Rowe Industries  
York Project (SDG) No.: 18A0618

**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 January 19, 2018 and listed below. The project was identified as your project: **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>
18A0618-01	AQ011718:1430NP4-1	Vapor Extraction	01/17/2018	01/19/2018
18A0618-02	AQ011718:1435NP4-3	Vapor Extraction	01/17/2018	01/19/2018

## **General Notes for York Project (SDG) No.: 18A0618**

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:** 01/25/2018





### Sample Information

**Client Sample ID:** AQ011718:1430NP4-1

**York Sample ID:** 18A0618-01

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
18A0618	Rowe Industries	Vapor Extraction	January 17, 2018 2:30 pm	01/19/2018

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	1.0	1.467	EPA TO-15 Certifications:	01/22/2018 16:49	01/22/2018 16:49	LDS
71-55-6	<b>1,1,1-Trichloroethane</b>	<b>0.80</b>		ug/m <sup>3</sup>	0.80	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	1.0	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	1.1	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	0.80	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	0.59	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	0.15	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	1.1	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m <sup>3</sup>	0.72	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	1.1	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.88	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	0.59	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	0.68	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	1.0	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m <sup>3</sup>	0.72	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	0.97	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.88	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	0.68	1.467	EPA TO-15 Certifications:	01/22/2018 16:49	01/22/2018 16:49	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.88	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	1.1	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
78-93-3	<b>2-Butanone</b>	<b>1.3</b>		ug/m <sup>3</sup>	0.43	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	1.2	1.467	EPA TO-15 Certifications:	01/22/2018 16:49	01/22/2018 16:49	LDS



### Sample Information

**Client Sample ID:** AQ011718:1430NP4-1

**York Sample ID:** 18A0618-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18A0618

Rowe Industries

Vapor Extraction

January 17, 2018 2:30 pm

01/19/2018

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	2.3	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	0.60	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
67-64-1	<b>Acetone</b>	<b>6.1</b>		ug/m <sup>3</sup>	0.70	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	0.32	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
71-43-2	<b>Benzene</b>	<b>0.56</b>		ug/m <sup>3</sup>	0.47	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	0.76	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	0.98	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	1.5	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	0.57	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	0.46	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
56-23-5	<b>Carbon tetrachloride</b>	<b>0.37</b>		ug/m <sup>3</sup>	0.23	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	0.68	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	0.39	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
67-66-3	<b>Chloroform</b>	<b>1.0</b>		ug/m <sup>3</sup>	0.72	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
74-87-3	<b>Chloromethane</b>	<b>0.51</b>		ug/m <sup>3</sup>	0.30	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>2.0</b>		ug/m <sup>3</sup>	0.15	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.67	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
110-82-7	Cyclohexane	ND		ug/m <sup>3</sup>	0.50	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	1.2	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
75-71-8	<b>Dichlorodifluoromethane</b>	<b>3.2</b>		ug/m <sup>3</sup>	0.73	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
141-78-6	<b>* Ethyl acetate</b>	<b>1.4</b>		ug/m <sup>3</sup>	1.1	1.467	EPA TO-15 Certifications:	01/22/2018 16:49	01/22/2018 16:49	LDS
100-41-4	Ethyl Benzene	ND		ug/m <sup>3</sup>	0.64	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	1.6	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS



### Sample Information

**Client Sample ID:** AQ011718:1430NP4-1

**York Sample ID:** 18A0618-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18A0618

Rowe Industries

Vapor Extraction

January 17, 2018 2:30 pm

01/19/2018

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-63-0	Isopropanol	0.76		ug/m <sup>3</sup>	0.72	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	0.60	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	0.53	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
75-09-2	Methylene chloride	22		ug/m <sup>3</sup>	1.0	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	0.60	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
110-54-3	n-Hexane	13		ug/m <sup>3</sup>	0.52	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
95-47-6	o-Xylene	ND		ug/m <sup>3</sup>	0.64	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
179601-23-1	p- & m- Xylenes	ND		ug/m <sup>3</sup>	1.3	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
622-96-8	* p-Ethyltoluene	ND		ug/m <sup>3</sup>	0.72	1.467	EPA TO-15 Certifications:	01/22/2018 16:49	01/22/2018 16:49	LDS
115-07-1	* Propylene	1.1		ug/m <sup>3</sup>	0.25	1.467	EPA TO-15 Certifications:	01/22/2018 16:49	01/22/2018 16:49	LDS
100-42-5	Styrene	ND		ug/m <sup>3</sup>	0.62	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
127-18-4	Tetrachloroethylene	4.2		ug/m <sup>3</sup>	0.25	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m <sup>3</sup>	0.87	1.467	EPA TO-15 Certifications:	01/22/2018 16:49	01/22/2018 16:49	LDS
108-88-3	Toluene	1.2		ug/m <sup>3</sup>	0.55	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	0.58	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.67	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
79-01-6	Trichloroethylene	3.2		ug/m <sup>3</sup>	0.20	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	1.6		ug/m <sup>3</sup>	0.82	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	0.52	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	0.64	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	0.094	1.467	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 16:49	01/22/2018 16:49	LDS
	<b>Surrogate Recoveries</b>	<b>Result</b>					<b>Acceptance Range</b>			
460-00-4	Surrogate: p-Bromofluorobenzene	97.4 %					70-130			



### Sample Information

**Client Sample ID:** AQ011718:1435NP4-3

**York Sample ID:** 18A0618-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18A0618

Rowe Industries

Vapor Extraction

January 17, 2018 2:35 pm

01/19/2018

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	0.92	1.34	EPA TO-15 Certifications:	01/22/2018 17:44	01/22/2018 17:44	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	0.73	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	0.92	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	1.0	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	0.73	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	0.54	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	0.13	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	0.99	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m <sup>3</sup>	0.66	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	1.0	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.81	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	0.54	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	0.62	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	0.94	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m <sup>3</sup>	0.66	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	0.89	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.81	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	0.62	1.34	EPA TO-15 Certifications:	01/22/2018 17:44	01/22/2018 17:44	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.81	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	0.97	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
78-93-3	<b>2-Butanone</b>	<b>0.47</b>		ug/m <sup>3</sup>	0.40	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	1.1	1.34	EPA TO-15 Certifications:	01/22/2018 17:44	01/22/2018 17:44	LDS
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	2.1	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS



## Sample Information

**Client Sample ID:** AQ011718:1435NP4-3

**York Sample ID:** 18A0618-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18A0618

Rowe Industries

Vapor Extraction

January 17, 2018 2:35 pm

01/19/2018

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	0.55	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
67-64-1	<b>Acetone</b>	<b>6.2</b>		ug/m <sup>3</sup>	0.64	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	0.29	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
71-43-2	<b>Benzene</b>	<b>0.43</b>		ug/m <sup>3</sup>	0.43	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	0.69	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	0.90	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	1.4	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	0.52	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	0.42	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	0.21	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	0.62	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	0.35	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	0.65	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
74-87-3	<b>Chloromethane</b>	<b>0.58</b>		ug/m <sup>3</sup>	0.28	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>0.32</b>		ug/m <sup>3</sup>	0.13	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.61	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
110-82-7	Cyclohexane	ND		ug/m <sup>3</sup>	0.46	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	1.1	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
75-71-8	<b>Dichlorodifluoromethane</b>	<b>2.6</b>		ug/m <sup>3</sup>	0.66	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	0.97	1.34	EPA TO-15 Certifications:	01/22/2018 17:44	01/22/2018 17:44	LDS
100-41-4	Ethyl Benzene	ND		ug/m <sup>3</sup>	0.58	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	1.4	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	0.66	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS



### Sample Information

**Client Sample ID:** AQ011718:1435NP4-3

**York Sample ID:** 18A0618-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18A0618

Rowe Industries

Vapor Extraction

January 17, 2018 2:35 pm

01/19/2018

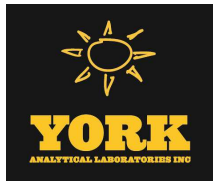
**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	0.55	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	0.48	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
75-09-2	<b>Methylene chloride</b>	<b>46</b>		ug/m <sup>3</sup>	0.93	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	0.55	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
110-54-3	<b>n-Hexane</b>	<b>30</b>		ug/m <sup>3</sup>	0.47	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
95-47-6	o-Xylene	ND		ug/m <sup>3</sup>	0.58	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
179601-23-1	p- & m- Xylenes	ND		ug/m <sup>3</sup>	1.2	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
622-96-8	* p-Ethyltoluene	ND		ug/m <sup>3</sup>	0.66	1.34	EPA TO-15 Certifications:	01/22/2018 17:44	01/22/2018 17:44	LDS
115-07-1	* <b>Propylene</b>	<b>1.4</b>		ug/m <sup>3</sup>	0.23	1.34	EPA TO-15 Certifications:	01/22/2018 17:44	01/22/2018 17:44	LDS
100-42-5	Styrene	ND		ug/m <sup>3</sup>	0.57	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
127-18-4	<b>Tetrachloroethylene</b>	<b>1.1</b>		ug/m <sup>3</sup>	0.23	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m <sup>3</sup>	0.79	1.34	EPA TO-15 Certifications:	01/22/2018 17:44	01/22/2018 17:44	LDS
108-88-3	<b>Toluene</b>	<b>0.61</b>		ug/m <sup>3</sup>	0.50	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	0.53	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.61	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
79-01-6	Trichloroethylene	ND		ug/m <sup>3</sup>	0.18	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
75-69-4	<b>Trichlorofluoromethane (Freon 11)</b>	<b>1.4</b>		ug/m <sup>3</sup>	0.75	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	0.47	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	0.59	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	0.086	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	01/22/2018 17:44	01/22/2018 17:44	LDS
	<b>Surrogate Recoveries</b>	<b>Result</b>		<b>Acceptance Range</b>						
460-00-4	Surrogate: p-Bromofluorobenzene	96.6 %		70-130						



## Analytical Batch Summary

**Batch ID:** BA80948

**Preparation Method:** EPA TO15 PREP

**Prepared By:** LDS

YORK Sample ID	Client Sample ID	Preparation Date
18A0618-01	AQ011718:1430NP4-1	01/22/18
18A0618-02	AQ011718:1435NP4-3	01/22/18
BA80948-BLK1	Blank	01/22/18
BA80948-BS1	LCS	01/22/18
BA80948-DUP1	Duplicate	01/22/18



Volatile Organic Compounds in Air 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 BA80948 - EPA TO15 PREP

Blank (BA80948-BLK1)

Prepared & Analyzed: 01/22/2018

1,1,1,2-Tetrachloroethane	ND	0.69	ug/m <sup>3</sup>								
1,1,1-Trichloroethane	ND	0.55	"								
1,1,2,2-Tetrachloroethane	ND	0.69	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.77	"								
1,1,2-Trichloroethane	ND	0.55	"								
1,1-Dichloroethane	ND	0.40	"								
1,1-Dichloroethylene	ND	0.099	"								
1,2,4-Trichlorobenzene	ND	0.74	"								
1,2,4-Trimethylbenzene	ND	0.49	"								
1,2-Dibromoethane	ND	0.77	"								
1,2-Dichlorobenzene	ND	0.60	"								
1,2-Dichloroethane	ND	0.40	"								
1,2-Dichloropropane	ND	0.46	"								
1,2-Dichlorotetrafluoroethane	ND	0.70	"								
1,3,5-Trimethylbenzene	ND	0.49	"								
1,3-Butadiene	ND	0.66	"								
1,3-Dichlorobenzene	ND	0.60	"								
1,3-Dichloropropane	ND	0.46	"								
1,4-Dichlorobenzene	ND	0.60	"								
1,4-Dioxane	ND	0.72	"								
2-Butanone	ND	0.29	"								
2-Hexanone	ND	0.82	"								
3-Chloropropene	ND	1.6	"								
4-Methyl-2-pentanone	ND	0.41	"								
Acetone	ND	0.48	"								
Acrylonitrile	ND	0.22	"								
Benzene	ND	0.32	"								
Benzyl chloride	ND	0.52	"								
Bromodichloromethane	ND	0.67	"								
Bromoform	ND	1.0	"								
Bromomethane	ND	0.39	"								
Carbon disulfide	ND	0.31	"								
Carbon tetrachloride	ND	0.16	"								
Chlorobenzene	ND	0.46	"								
Chloroethane	ND	0.26	"								
Chloroform	ND	0.49	"								
Chloromethane	ND	0.21	"								
cis-1,2-Dichloroethylene	ND	0.099	"								
cis-1,3-Dichloropropylene	ND	0.45	"								
Cyclohexane	ND	0.34	"								
Dibromochloromethane	ND	0.85	"								
Dichlorodifluoromethane	ND	0.49	"								
Ethyl acetate	ND	0.72	"								
Ethyl Benzene	ND	0.43	"								
Hexachlorobutadiene	ND	1.1	"								
Isopropanol	ND	0.49	"								
Methyl Methacrylate	ND	0.41	"								
Methyl tert-butyl ether (MTBE)	ND	0.36	"								
Methylene chloride	ND	0.69	"								
n-Heptane	ND	0.41	"								



Volatile Organic Compounds in Air 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 BA80948 - EPA TO15 PREP

Blank (BA80948-BLK1)

Prepared & Analyzed: 01/22/2018

n-Hexane	ND	0.35	ug/m <sup>3</sup>								
o-Xylene	ND	0.43	"								
p- & m- Xylenes	ND	0.87	"								
p-Ethyltoluene	ND	0.49	"								
Propylene	ND	0.17	"								
Styrene	ND	0.43	"								
Tetrachloroethylene	ND	0.17	"								
Tetrahydrofuran	ND	0.59	"								
Toluene	ND	0.38	"								
trans-1,2-Dichloroethylene	ND	0.40	"								
trans-1,3-Dichloropropylene	ND	0.45	"								
Trichloroethylene	ND	0.13	"								
Trichlorofluoromethane (Freon 11)	ND	0.56	"								
Vinyl acetate	ND	0.35	"								
Vinyl bromide	ND	0.44	"								
Vinyl Chloride	ND	0.064	"								

Surrogate: p-Bromofluorobenzene 8.45 ppbv 10.0 84.5 70-130

LCS (BA80948-BS1)

Prepared & Analyzed: 01/22/2018

1,1,1,2-Tetrachloroethane	9.24		ppbv	10.0		92.4	70-130				
1,1,1-Trichloroethane	8.82		"	10.0		88.2	70-130				
1,1,2,2-Tetrachloroethane	9.32		"	10.0		93.2	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.53		"	10.0		95.3	70-130				
1,1,2-Trichloroethane	8.80		"	10.0		88.0	70-130				
1,1-Dichloroethane	9.37		"	10.0		93.7	70-130				
1,1-Dichloroethylene	9.11		"	10.0		91.1	70-130				
1,2,4-Trichlorobenzene	7.56		"	10.0		75.6	70-130				
1,2,4-Trimethylbenzene	9.76		"	10.0		97.6	70-130				
1,2-Dibromoethane	8.62		"	10.0		86.2	70-130				
1,2-Dichlorobenzene	9.63		"	10.0		96.3	70-130				
1,2-Dichloroethane	8.03		"	10.0		80.3	70-130				
1,2-Dichloropropane	8.97		"	10.0		89.7	70-130				
1,2-Dichlorotetrafluoroethane	7.21		"	10.0		72.1	70-130				
1,3,5-Trimethylbenzene	9.52		"	10.0		95.2	70-130				
1,3-Butadiene	3.42		"	10.0		34.2	70-130			Low Bias	
1,3-Dichlorobenzene	9.58		"	10.0		95.8	70-130				
1,3-Dichloropropane	8.82		"	10.0		88.2	70-130				
1,4-Dichlorobenzene	9.73		"	10.0		97.3	70-130				
1,4-Dioxane	11.0		"	10.0		110	70-130				
2-Butanone	8.18		"	10.0		81.8	70-130				
2-Hexanone	9.69		"	10.0		96.9	70-130				
3-Chloropropene	8.67		"	10.0		86.7	70-130				
4-Methyl-2-pentanone	9.25		"	10.0		92.5	70-130				
Acetone	8.36		"	10.0		83.6	70-130				
Acrylonitrile	9.11		"	10.0		91.1	70-130				
Benzene	9.19		"	10.0		91.9	70-130				
Benzyl chloride	9.67		"	10.0		96.7	70-130				
Bromodichloromethane	8.77		"	10.0		87.7	70-130				
Bromoform	9.63		"	10.0		96.3	70-130				
Bromomethane	11.8		"	10.0		118	70-130				
Carbon disulfide	10.1		"	10.0		101	70-130				



Volatile Organic Compounds in Air 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 BA80948 - EPA TO15 PREP

LCS (BA80948-BS1)

Prepared & Analyzed: 01/22/2018

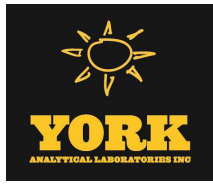
Carbon tetrachloride	8.78		ppbv	10.0		87.8	70-130				
Chlorobenzene	9.04		"	10.0		90.4	70-130				
Chloroethane	13.2		"	10.0		132	70-130	High Bias			
Chloroform	8.83		"	10.0		88.3	70-130				
Chloromethane	8.62		"	10.0		86.2	70-130				
cis-1,2-Dichloroethylene	7.69		"	10.0		76.9	70-130				
cis-1,3-Dichloropropylene	9.24		"	10.0		92.4	70-130				
Cyclohexane	9.89		"	10.0		98.9	70-130				
Dibromochloromethane	9.04		"	10.0		90.4	70-130				
Dichlorodifluoromethane	10.5		"	10.0		105	70-130				
Ethyl acetate	8.21		"	10.0		82.1	70-130				
Ethyl Benzene	9.48		"	10.0		94.8	70-130				
Hexachlorobutadiene	9.37		"	10.0		93.7	70-130				
Isopropanol	8.42		"	10.0		84.2	70-130				
Methyl Methacrylate	9.29		"	10.0		92.9	70-130				
Methyl tert-butyl ether (MTBE)	9.33		"	10.0		93.3	70-130				
Methylene chloride	8.70		"	10.0		87.0	70-130				
n-Heptane	8.90		"	10.0		89.0	70-130				
n-Hexane	8.26		"	10.0		82.6	70-130				
o-Xylene	9.61		"	10.0		96.1	70-130				
p- & m- Xylenes	18.9		"	20.0		94.5	70-130				
p-Ethyltoluene	9.86		"	10.0		98.6	70-130				
Propylene	10.0		"	10.0		100	70-130				
Styrene	9.58		"	10.0		95.8	70-130				
Tetrachloroethylene	7.90		"	10.0		79.0	70-130				
Tetrahydrofuran	9.55		"	10.0		95.5	70-130				
Toluene	8.94		"	10.0		89.4	70-130				
trans-1,2-Dichloroethylene	8.99		"	10.0		89.9	70-130				
trans-1,3-Dichloropropylene	9.16		"	10.0		91.6	70-130				
Trichloroethylene	8.20		"	10.0		82.0	70-130				
Trichlorofluoromethane (Freon 11)	9.48		"	10.0		94.8	70-130				
Vinyl acetate	8.72		"	10.0		87.2	70-130				
Vinyl bromide	11.2		"	10.0		112	70-130				
Vinyl Chloride	5.45		"	10.0		54.5	70-130	Low Bias			
Surrogate: p-Bromofluorobenzene	9.45		"	10.0		94.5	70-130				



Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

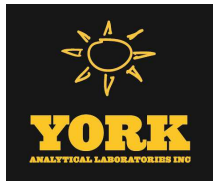
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BA80948 - EPA TO15 PREP</b>											
<b>Duplicate (BA80948-DUP1)</b>		*Source sample: 18A0618-02 (AQ011718:1435NP4-3)					Prepared & Analyzed: 01/22/2018				
1,1,1,2-Tetrachloroethane	ND	0.92	ug/m <sup>3</sup>		ND					25	
1,1,1-Trichloroethane	ND	0.73	"		ND					25	
1,1,2,2-Tetrachloroethane	ND	0.92	"		ND					25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	"		ND					25	
1,1,2-Trichloroethane	ND	0.73	"		ND					25	
1,1-Dichloroethane	ND	0.54	"		ND					25	
1,1-Dichloroethylene	ND	0.13	"		ND					25	
1,2,4-Trichlorobenzene	ND	0.99	"		ND					25	
1,2,4-Trimethylbenzene	ND	0.66	"		ND					25	
1,2-Dibromoethane	ND	1.0	"		ND					25	
1,2-Dichlorobenzene	ND	0.81	"		ND					25	
1,2-Dichloroethane	ND	0.54	"		ND					25	
1,2-Dichloropropane	ND	0.62	"		ND					25	
1,2-Dichlorotetrafluoroethane	ND	0.94	"		ND					25	
1,3,5-Trimethylbenzene	ND	0.66	"		ND					25	
1,3-Butadiene	ND	0.89	"		ND					25	
1,3-Dichlorobenzene	ND	0.81	"		ND					25	
1,3-Dichloropropane	ND	0.62	"		ND					25	
1,4-Dichlorobenzene	ND	0.81	"		ND					25	
1,4-Dioxane	ND	0.97	"		ND					25	
2-Butanone	0.47	0.40	"		0.47				0.00	25	
2-Hexanone	ND	1.1	"		ND					25	
3-Chloropropene	ND	2.1	"		ND					25	
4-Methyl-2-pentanone	ND	0.55	"		ND					25	
Acetone	6.0	0.64	"		6.2				2.08	25	
Acrylonitrile	ND	0.29	"		ND					25	
Benzene	0.43	0.43	"		0.43				0.00	25	
Benzyl chloride	ND	0.69	"		ND					25	
Bromodichloromethane	ND	0.90	"		ND					25	
Bromoform	ND	1.4	"		ND					25	
Bromomethane	ND	0.52	"		ND					25	
Carbon disulfide	ND	0.42	"		ND					25	
Carbon tetrachloride	ND	0.21	"		ND					25	
Chlorobenzene	ND	0.62	"		ND					25	
Chloroethane	ND	0.35	"		ND					25	
Chloroform	ND	0.65	"		ND					25	
Chloromethane	0.55	0.28	"		0.58				4.88	25	
cis-1,2-Dichloroethylene	0.37	0.13	"		0.32				15.4	25	
cis-1,3-Dichloropropylene	ND	0.61	"		ND					25	
Cyclohexane	ND	0.46	"		ND					25	
Dibromochloromethane	ND	1.1	"		ND					25	
Dichlorodifluoromethane	2.5	0.66	"		2.6				2.60	25	
Ethyl acetate	ND	0.97	"		ND					25	
Ethyl Benzene	ND	0.58	"		ND					25	
Hexachlorobutadiene	ND	1.4	"		ND					25	
Isopropanol	ND	0.66	"		ND					25	
Methyl Methacrylate	ND	0.55	"		ND					25	
Methyl tert-butyl ether (MTBE)	ND	0.48	"		ND					25	
Methylene chloride	46	0.93	"		46				0.502	25	
n-Heptane	ND	0.55	"		ND					25	
n-Hexane	30	0.47	"		30				1.88	25	

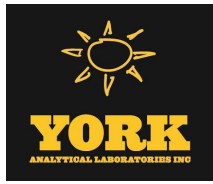


**Volatile Organic Compounds in Air by GC/MS - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BA80948 - EPA TO15 PREP</b>											
<b>Duplicate (BA80948-DUP1)</b>	*Source sample: 18A0618-02 (AQ011718:1435NP4-3)						Prepared & Analyzed: 01/22/2018				
o-Xylene	ND	0.58	ug/m <sup>3</sup>		ND					25	
p- & m- Xylenes	ND	1.2	"		ND					25	
p-Ethyltoluene	ND	0.66	"		ND					25	
Propylene	1.4	0.23	"		1.4				0.00	25	
Styrene	ND	0.57	"		ND					25	
Tetrachloroethylene	1.1	0.23	"		1.1				0.00	25	
Tetrahydrofuran	ND	0.79	"		ND					25	
Toluene	0.56	0.50	"		0.61				8.70	25	
trans-1,2-Dichloroethylene	ND	0.53	"		ND					25	
trans-1,3-Dichloropropylene	ND	0.61	"		ND					25	
Trichloroethylene	ND	0.18	"		ND					25	
Trichlorofluoromethane (Freon 11)	1.4	0.75	"		1.4				5.41	25	
Vinyl acetate	ND	0.47	"		ND					25	
Vinyl bromide	ND	0.59	"		ND					25	
Vinyl Chloride	ND	0.086	"		ND					25	
<i>Surrogate: p-Bromofluorobenzene</i>	9.72		ppbv	10.0		97.2	70-130				





## Sample and Data Qualifiers Relating to This Work Order

- QL-03 This LCS analyte recovered outside of acceptance limits. The LCS contains approximately 70 compounds, a limited number of which may be outside acceptance windows.
- CCV-A The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>30% Difference for average Rf). This applies to detected analytes only.

### 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.

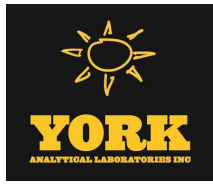
If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For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

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 18A0618

<b>YOUR Information</b> Company: <u>LBG</u> Address: <u>4 Research Dr, Suite 301</u> <u>Shelton, CT 06484</u> Phone No. <u>203-929-8555</u> Contact Person: <u>Tunde Sandor</u> E-Mail Address: <u>TSandor@LBGCT.com</u>		<b>Report To:</b> Company: <u>Same</u> Address: <u>↓</u> Phone No. <u>↓</u> Attention: <u>↓</u> E-Mail Address: <u>↓</u>		<b>Invoice To:</b> Company: <u>Same</u> Address: <u>↓</u> Phone No. <u>↓</u> Attention: <u>↓</u> E-Mail Address: <u>↓</u>		<b>YOUR Project ID</b> <u>Rowe Industries</u> Purchase Order No. <u>NABSAG</u> Samples from: CT <u>NY</u> X NI		<b>Turn-Around Time</b> RUSH - Same Day <input type="checkbox"/> RUSH - Next Day <input type="checkbox"/> RUSH - Two Day <input type="checkbox"/> RUSH - Three Day <input type="checkbox"/> RUSH - Four Day <input type="checkbox"/> Standard (5-7 Days) <input checked="" type="checkbox"/>		<b>Report Type/Deliverables</b> Summary Report <input checked="" type="checkbox"/> <u>pdf</u> Summary w/ QA Summary <input checked="" type="checkbox"/> <u>pdf</u> CT RCP Package <input type="checkbox"/> NY ASP A Package <input type="checkbox"/> NY ASP B/CLP Pkg <input checked="" type="checkbox"/> <u>pdf</u> NUDEP Reduced <input type="checkbox"/> Electronic Deliverables: <input type="checkbox"/> EDD (Specify Type) <input type="checkbox"/> Standard Excel <input checked="" type="checkbox"/> <u>X</u> Regulatory Comparison Excel <input type="checkbox"/>	
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**Print Clearly and legibly. All information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.**

Evan Foster  
 Samples Collected/Authorized By (Signature)  
 Name (printed) Evan Foster

TO15 Volatiles and Other Gas Analyses EPA TO-14A List Tentatively Identified Compounds	EPA TO-15 List NYSDEC VI list NYSDEC STARS List Project Specific List by TO-15 NUDEP Target List CTDEP RCP Target List	Air Matrix Codes AI - INDOOR Ambient Air AO - OUTDOOR Amb. Air AE - Vapor Extraction Well/Process Gas/Effluent AS - SOIL Vapor/Sub-Slab	Detection Limits Required ≤ 1 ug/m³ NYSDEC VI Limits (if appropriate) NUDEP low level Routine Survey Other
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Sample Identification	Date Sampled	AIR Matrix	Canister Vacuum Before Sampling (in. Hg.)	Canister Vacuum After Sampling (in. Hg.)	Choose Analyzers Needed from the Menu Above and Enter Below	Sampling Media
AQ001718; 1430 NP4-1	1-17-18	AE	-30	-5	EPA TO-15 List	6 Liter Summa canister Tedlar Bag
AQ001718; 1435 NP4-3	1-17-18	AE	-30	-5	11	6 Liter Summa canister Tedlar Bag 6 Liter Summa canister Tedlar Bag 6 Liter Summa canister Tedlar Bag 6 Liter Summa canister Tedlar Bag 6 Liter Summa canister Tedlar Bag 6 Liter Summa canister Tedlar Bag 6 Liter Summa canister Tedlar Bag 6 Liter Summa canister Tedlar Bag

**Comments**

LBG 1-19-18 1050  
 Samples Relinquished By ↓ Date/Time 1-19-18 8:30 am  
TSandor  
 Samples Relinquished By ↓ Date/Time 1-19-18 11:45-18  
TSandor  
 Samples Relinquished By ↓ Date/Time 2030