

TABLE 2

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

Effluent Water Quality Results

Date Sampled ^{2/}	pH ^{1/}	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)	Ethyl- benzene (ug/l)	Methylene Chloride (ug/l)	Freon 113 (ug/l)	Naphthalene (ug/l)	Chloroform (ug/l)	Total Iron (mg/l)	Dissolved Iron (mg/l)
SPDES Limits	6.5 to 8.5	---	5	5	5	5	5	5	5	5	5	5	5	---	10	7	---	---
1-Mar-16	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	1.17	0.179
16-Mar-16	6.6	84	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	5.19	0.046
29-Mar-16	6.5	128	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	0.97	0.092
5-Apr-16	6.5	134	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	1.21	0.070
19-Apr-16	6.5	86	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	1.82	0.190
2-May-16	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	11.0	0.092
17-May-16	6.6	167	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	0.89	0.037
7-Jun-16	6.5	150	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	0.095
23-Jun-16	6.5	158	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	2.72	0.034
7-Jul-16 ^{3/}	6.6	NA	1.3	ND<0.5	0.35 J	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	2.35	ND<0.02
19-Jul-16	6.5	155	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	1.45	0.147
2-Aug-16	6.6	128	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	0.63	0.263
16-Aug-16	6.5	148	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	2.64	0.207
1-Sep-16	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	1.65	0.044
16-Sep-16	6.5	146	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	0.92	0.336
17-Oct-16 ^{4/}	6.5	141	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	1.27	0.455
1-Nov-16	6.5	224	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	3.50	0.100
1-Dec-16	6.5	191	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	0.042
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<1.6	ND<0.5	ND<0.5	ND<3	ND<0.5	ND<0.5	ND<0.5	2.17	0.051

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

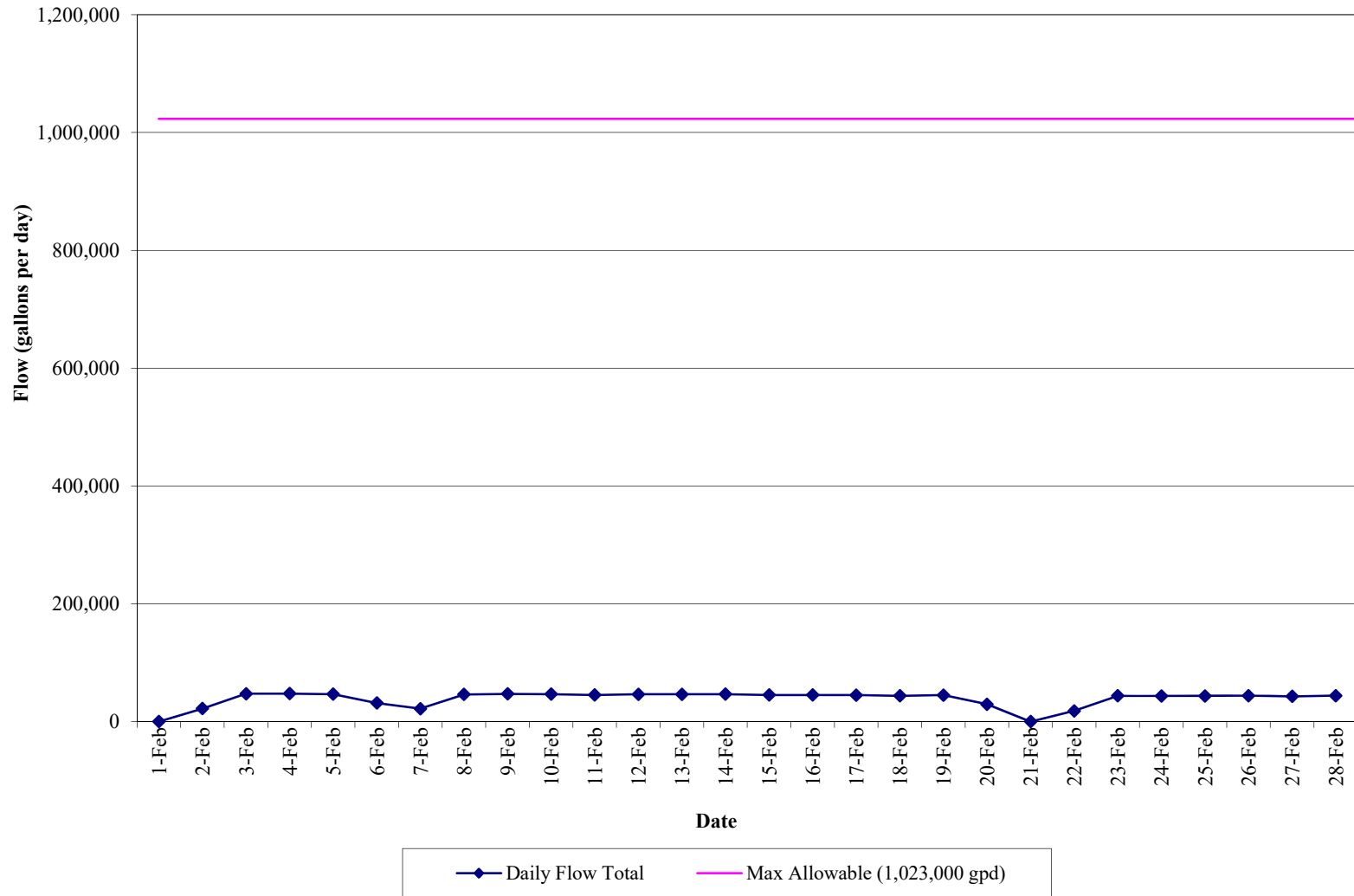
trans-1,2,-DCE: trans-1,2-Dichloroethene

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.
2. "Effluent" samples were collected from sample port labeled NP2-10 unless otherwise noted.
3. LBG suspects the PCE and TCE detections from the water sample collected from the effluent sample port (NP2-10) on July 7, 2016, were most likely caused by: a) reversing the sample label on the influent and effluent laboratory bottles; or b) a mis labeling of the results by the laboratory, because the "ND" (non-detect below the laboratory reporting limit) results for PCE and TCE are typically observed in the effluent water sample and low concentrations of these compounds are normally observed in the influent water sample. The reverse was true for the July 7, 2016 sampling event.
4. Starting in October 2016, FSP&T system samples will be collected monthly instead of once every two weeks.

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

Effluent Flow Data
(February 1, 2017 to February 28, 2017)



APPENDIX I
FEBRUARY 2017 LABORATORY ANALYTICAL REPORTS
FOR FSP&T SYSTEM



Technical Report

prepared for:

Leggette Brashears & Graham Shelton Office

4 Research Drive, Suite 204

Shelton CT, 06484

Attention: Tunde Komuves-Sandor

Report Date: 02/13/2017

Client Project ID: Rowe Industries

York Project (SDG) No.: 17B0187

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 02/13/2017
Client Project ID: Rowe Industries
York Project (SDG) No.: 17B0187

Leggette Brashears & Graham Shelton Office

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 February 06, 2017 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 Notes 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 attachment to 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>
17B0187-01	WQ020217:1305 NP2-6	Water	02/02/2017	02/06/2017
17B0199-01	WQ020217:1310 NP2-10	Water	02/02/2017	02/06/2017

General Notes for York Project (SDG) No.: 17B0187

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 samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
9. 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: 02/13/2017





Sample Information

Client Sample ID: WQ020217:1305 NP2-6

York Sample ID: 17B0187-01

York Project (SDG) No.

17B0187

Client Project ID

Rowe Industries

Matrix

Water

Collection Date/Time

February 2, 2017 1:05 pm

Date Received

02/06/2017

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	02/11/2017 08:15	02/11/2017 18:27	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	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	02/11/2017 08:15	02/11/2017 18:27	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS



Sample Information

Client Sample ID: WQ020217:1305 NP2-6

York Sample ID: 17B0187-01

York Project (SDG) No.
17B0187

Client Project ID
Rowe Industries

Matrix
Water

Collection Date/Time
February 2, 2017 1:05 pm

Date Received
02/06/2017

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
156-59-2	cis-1,2-Dichloroethylene	0.48	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS



Sample Information

Client Sample ID: WQ020217:1305 NP2-6

York Sample ID: 17B0187-01

York Project (SDG) No.
17B0187

Client Project ID
Rowe Industries

Matrix
Water

Collection Date/Time
February 2, 2017 1:05 pm

Date Received
02/06/2017

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
91-20-3	Naphthalene	2.3	CCV-E	ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	02/11/2017 08:15	02/11/2017 18:27	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	02/11/2017 08:15	02/11/2017 18:27	SS
99-87-6	p-Isopropyltoluene	0.45	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
127-18-4	Tetrachloroethylene	4.3		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
79-01-6	Trichloroethylene	0.49	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	02/11/2017 08:15	02/11/2017 18:27	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	102 %	69-130								
2037-26-5	Surrogate: Toluene-d8	101 %	81-117								
460-00-4	Surrogate: p-Bromofluorobenzene	94.8 %	79-122								



Sample Information

Client Sample ID: WQ020217:1310 NP2-10

York Sample ID: 17B0199-01

York Project (SDG) No.
17B0199

Client Project ID
Rowe Industries

Matrix
Water

Collection Date/Time
February 2, 2017 1:10 pm

Date Received
02/06/2017

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	02/08/2017 16:28	02/09/2017 05:56	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	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	02/08/2017 16:28	02/09/2017 05:56	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	SS



Sample Information

Client Sample ID: WQ020217:1310 NP2-10

York Sample ID: 17B0199-01

York Project (SDG) No.
17B0199

Client Project ID
Rowe Industries

Matrix
Water

Collection Date/Time
February 2, 2017 1:10 pm

Date Received
02/06/2017

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	SS
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 16:28	02/09/2017 05:56	SS



Sample Information

Client Sample ID: WQ020217:1310 NP2-10

York Sample ID: 17B0199-01

York Project (SDG) No.
17B0199

Client Project ID
Rowe Industries

Matrix
Water

Collection Date/Time
February 2, 2017 1:10 pm

Date Received
02/06/2017

Iron by EPA 200.7

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	2.17		mg/L	0.0162	0.0222	1	EPA 200.7	02/07/2017 10:45	02/07/2017 15:33	KV
Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP											

Iron, Dissolved by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	0.0505		mg/L	0.0222	0.0222	1	EPA 6010C	02/07/2017 07:53	02/07/2017 11:39	ALD
Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP											

Total Dissolved Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	120		mg/L	10.0	10.0	1	SM 2540C	02/09/2017 18:45	02/09/2017 18:45	AA
Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP											



Analytical Batch Summary

Batch ID: BB70303 **Preparation Method:** EPA 3015A **Prepared By:** ALD

YORK Sample ID	Client Sample ID	Preparation Date
17B0199-01	WQ020217:1310 NP2-10	02/07/17
BB70303-BLK1	Blank	02/07/17
BB70303-SRM1	Reference	02/07/17

Batch ID: BB70324 **Preparation Method:** EPA 200.7 **Prepared By:** ALD

YORK Sample ID	Client Sample ID	Preparation Date
17B0199-01	WQ020217:1310 NP2-10	02/07/17
BB70324-BLK1	Blank	02/07/17
BB70324-SRM1	Reference	02/07/17

Batch ID: BB70412 **Preparation Method:** EPA 5030B **Prepared By:** RDS

YORK Sample ID	Client Sample ID	Preparation Date
17B0199-01	WQ020217:1310 NP2-10	02/08/17
BB70412-BLK1	Blank	02/08/17
BB70412-BS1	LCS	02/08/17
BB70412-BSD1	LCS Dup	02/08/17

Batch ID: BB70545 **Preparation Method:** EPA 5030B **Prepared By:** RDS

YORK Sample ID	Client Sample ID	Preparation Date
17B0187-01	WQ020217:1305 NP2-6	02/11/17
BB70545-BLK1	Blank	02/11/17
BB70545-BS1	LCS	02/11/17
BB70545-BSD1	LCS Dup	02/11/17

Batch ID: BB70630 **Preparation Method:** % Solids Prep **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
17B0199-01	WQ020217:1310 NP2-10	02/09/17
BB70630-BLK1	Blank	02/09/17
BB70630-DUP1	Duplicate	02/09/17



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 BB70412 - EPA 5030B

Blank (BB70412-BLK1)

Prepared: 02/08/2017 Analyzed: 02/09/2017

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 Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BB70412 - EPA 5030B

Blank (BB70412-BLK1)

Prepared: 02/08/2017 Analyzed: 02/09/2017

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	"

Surrogate: 1,2-Dichloroethane-d4	9.56	"	10.0	95.6	69-130
Surrogate: Toluene-d8	9.75	"	10.0	97.5	81-117
Surrogate: p-Bromofluorobenzene	9.69	"	10.0	96.9	79-122

LCS (BB70412-BS1)

Prepared & Analyzed: 02/08/2017

1,1,1,2-Tetrachloroethane	10.3	ug/L	10.0	103	82-126
1,1,1-Trichloroethane	11.0	"	10.0	110	78-136
1,1,2,2-Tetrachloroethane	8.97	"	10.0	89.7	76-129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.5	"	10.0	125	54-165
1,1,2-Trichloroethane	9.78	"	10.0	97.8	82-123
1,1-Dichloroethane	11.1	"	10.0	111	82-129
1,1-Dichloroethylene	11.6	"	10.0	116	68-138
1,1-Dichloropropylene	11.4	"	10.0	114	83-133
1,2,3-Trichlorobenzene	9.54	"	10.0	95.4	76-136
1,2,3-Trichloropropane	10.3	"	10.0	103	77-128
1,2,4-Trichlorobenzene	10.2	"	10.0	102	76-137
1,2,4-Trimethylbenzene	10.8	"	10.0	108	82-132
1,2-Dibromo-3-chloropropane	9.15	"	10.0	91.5	45-147
1,2-Dibromoethane	9.88	"	10.0	98.8	83-124
1,2-Dichlorobenzene	10.4	"	10.0	104	79-123
1,2-Dichloroethane	9.93	"	10.0	99.3	73-132
1,2-Dichloropropane	10.2	"	10.0	102	78-126
1,3,5-Trimethylbenzene	10.7	"	10.0	107	80-131
1,3-Dichlorobenzene	10.9	"	10.0	109	86-122
1,3-Dichloropropane	9.89	"	10.0	98.9	81-125
1,4-Dichlorobenzene	10.5	"	10.0	105	85-124
2,2-Dichloropropane	10.3	"	10.0	103	56-150
2-Chlorotoluene	11.1	"	10.0	111	79-130
2-Hexanone	9.78	"	10.0	97.8	51-146
4-Chlorotoluene	10.8	"	10.0	108	79-128
Acetone	11.6	"	10.0	116	14-150
Benzene	11.2	"	10.0	112	85-126
Bromobenzene	10.4	"	10.0	104	78-129
Bromochloromethane	10.4	"	10.0	104	77-128
Bromodichloromethane	9.89	"	10.0	98.9	79-128
Bromoform	9.20	"	10.0	92.0	78-133
Bromomethane	10.3	"	10.0	103	43-168



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 BB70412 - EPA 5030B

LCS (BB70412-BS1)

Prepared & Analyzed: 02/08/2017

Carbon tetrachloride	11.5		ug/L	10.0		115	77-141				
Chlorobenzene	10.6		"	10.0		106	88-120				
Chloroethane	10.3		"	10.0		103	65-136				
Chloroform	11.0		"	10.0		110	82-128				
Chloromethane	10.5		"	10.0		105	43-155				
cis-1,2-Dichloroethylene	11.0		"	10.0		110	83-129				
cis-1,3-Dichloropropylene	10.1		"	10.0		101	80-131				
Dibromochloromethane	9.37		"	10.0		93.7	80-130				
Dibromomethane	9.93		"	10.0		99.3	72-134				
Dichlorodifluoromethane	11.2		"	10.0		112	44-144				
Ethyl Benzene	10.8		"	10.0		108	80-131				
Hexachlorobutadiene	10.2		"	10.0		102	67-146				
Isopropylbenzene	11.1		"	10.0		111	76-140				
Methyl tert-butyl ether (MTBE)	10.2		"	10.0		102	76-135				
Methylene chloride	10.1		"	10.0		101	55-137				
Naphthalene	9.26		"	10.0		92.6	70-147				
n-Butylbenzene	11.2		"	10.0		112	79-132				
n-Propylbenzene	11.3		"	10.0		113	78-133				
o-Xylene	10.7		"	10.0		107	78-130				
p- & m- Xylenes	21.6		"	20.0		108	77-133				
p-Isopropyltoluene	11.2		"	10.0		112	81-136				
sec-Butylbenzene	11.4		"	10.0		114	79-137				
Styrene	10.5		"	10.0		105	67-132				
tert-Butylbenzene	11.2		"	10.0		112	77-138				
Tetrachloroethylene	14.4		"	10.0		144	82-131	High Bias			
Toluene	10.6		"	10.0		106	80-127				
trans-1,2-Dichloroethylene	11.2		"	10.0		112	80-132				
trans-1,3-Dichloropropylene	9.54		"	10.0		95.4	78-131				
Trichloroethylene	11.2		"	10.0		112	82-128				
Trichlorofluoromethane	10.4		"	10.0		104	67-139				
Vinyl Chloride	10.6		"	10.0		106	58-145				
Surrogate: 1,2-Dichloroethane-d4	9.19		"	10.0		91.9	69-130				
Surrogate: Toluene-d8	9.77		"	10.0		97.7	81-117				
Surrogate: p-Bromofluorobenzene	10.1		"	10.0		101	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
Batch BB70412 - EPA 5030B											
LCS Dup (BB70412-BSD1)						Prepared: 02/08/2017 Analyzed: 02/09/2017					
1,1,1,2-Tetrachloroethane	10.7		ug/L	10.0		107	82-126		4.19	30	
1,1,1-Trichloroethane	11.5		"	10.0		115	78-136		4.18	30	
1,1,2,2-Tetrachloroethane	9.35		"	10.0		93.5	76-129		4.15	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.8		"	10.0		128	54-165		2.14	30	
1,1,2-Trichloroethane	10.3		"	10.0		103	82-123		5.28	30	
1,1-Dichloroethane	11.9		"	10.0		119	82-129		7.48	30	
1,1-Dichloroethylene	12.0		"	10.0		120	68-138		3.65	30	
1,1-Dichloropropylene	12.1		"	10.0		121	83-133		6.06	30	
1,2,3-Trichlorobenzene	10.5		"	10.0		105	76-136		9.58	30	
1,2,3-Trichloropropane	10.6		"	10.0		106	77-128		2.86	30	
1,2,4-Trichlorobenzene	10.2		"	10.0		102	76-137		0.589	30	
1,2,4-Trimethylbenzene	11.4		"	10.0		114	82-132		5.12	30	
1,2-Dibromo-3-chloropropane	9.82		"	10.0		98.2	45-147		7.06	30	
1,2-Dibromoethane	10.3		"	10.0		103	83-124		4.26	30	
1,2-Dichlorobenzene	11.0		"	10.0		110	79-123		5.77	30	
1,2-Dichloroethane	10.7		"	10.0		107	73-132		7.84	30	
1,2-Dichloropropane	10.6		"	10.0		106	78-126		4.42	30	
1,3,5-Trimethylbenzene	11.1		"	10.0		111	80-131		4.31	30	
1,3-Dichlorobenzene	11.5		"	10.0		115	86-122		5.38	30	
1,3-Dichloropropane	10.3		"	10.0		103	81-125		4.35	30	
1,4-Dichlorobenzene	10.9		"	10.0		109	85-124		3.37	30	
2,2-Dichloropropane	10.4		"	10.0		104	56-150		1.45	30	
2-Chlorotoluene	11.5		"	10.0		115	79-130		3.98	30	
2-Hexanone	10.8		"	10.0		108	51-146		9.64	30	
4-Chlorotoluene	11.6		"	10.0		116	79-128		7.34	30	
Acetone	14.1		"	10.0		141	14-150		19.7	30	
Benzene	11.8		"	10.0		118	85-126		5.30	30	
Bromobenzene	11.0		"	10.0		110	78-129		4.95	30	
Bromochloromethane	11.2		"	10.0		112	77-128		7.24	30	
Bromodichloromethane	10.5		"	10.0		105	79-128		5.98	30	
Bromoform	9.91		"	10.0		99.1	78-133		7.43	30	
Bromomethane	11.4		"	10.0		114	43-168		10.4	30	
Carbon tetrachloride	12.1		"	10.0		121	77-141		4.92	30	
Chlorobenzene	10.8		"	10.0		108	88-120		2.52	30	
Chloroethane	10.9		"	10.0		109	65-136		6.23	30	
Chloroform	11.6		"	10.0		116	82-128		5.05	30	
Chloromethane	11.4		"	10.0		114	43-155		8.76	30	
cis-1,2-Dichloroethylene	11.6		"	10.0		116	83-129		5.50	30	
cis-1,3-Dichloropropylene	10.5		"	10.0		105	80-131		3.69	30	
Dibromochloromethane	10.2		"	10.0		102	80-130		8.19	30	
Dibromomethane	10.3		"	10.0		103	72-134		3.46	30	
Dichlorodifluoromethane	11.5		"	10.0		115	44-144		2.83	30	
Ethyl Benzene	11.2		"	10.0		112	80-131		3.62	30	
Hexachlorobutadiene	10.8		"	10.0		108	67-146		5.15	30	
Isopropylbenzene	11.6		"	10.0		116	76-140		3.88	30	
Methyl tert-butyl ether (MTBE)	11.0		"	10.0		110	76-135		7.35	30	
Methylene chloride	10.7		"	10.0		107	55-137		6.15	30	
Naphthalene	9.98		"	10.0		99.8	70-147		7.48	30	
n-Butylbenzene	11.6		"	10.0		116	79-132		3.69	30	
n-Propylbenzene	11.9		"	10.0		119	78-133		4.91	30	
o-Xylene	11.2		"	10.0		112	78-130		4.67	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 BB70412 - EPA 5030B

LCS Dup (BB70412-BSD1)

Prepared: 02/08/2017 Analyzed: 02/09/2017

p- & m- Xylenes	22.1		ug/L	20.0		111	77-133		2.24	30	
p-Isopropyltoluene	11.5		"	10.0		115	81-136		2.64	30	
sec-Butylbenzene	11.8		"	10.0		118	79-137		3.19	30	
Styrene	11.0		"	10.0		110	67-132		5.02	30	
tert-Butylbenzene	11.6		"	10.0		116	77-138		3.50	30	
Tetrachloroethylene	14.8		"	10.0		148	82-131	High Bias	2.87	30	
Toluene	11.0		"	10.0		110	80-127		3.25	30	
trans-1,2-Dichloroethylene	11.7		"	10.0		117	80-132		4.11	30	
trans-1,3-Dichloropropylene	10.1		"	10.0		101	78-131		5.90	30	
Trichloroethylene	11.8		"	10.0		118	82-128		5.57	30	
Trichlorofluoromethane	10.6		"	10.0		106	67-139		2.09	30	
Vinyl Chloride	11.2		"	10.0		112	58-145		5.34	30	
Surrogate: 1,2-Dichloroethane-d4	9.63		"	10.0		96.3	69-130				
Surrogate: Toluene-d8	9.75		"	10.0		97.5	81-117				
Surrogate: p-Bromofluorobenzene	10.3		"	10.0		103	79-122				

Batch BB70545 - EPA 5030B

Blank (BB70545-BLK1)

Prepared & Analyzed: 02/11/2017

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	1.2	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	"



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 BB70545 - EPA 5030B

Blank (BB70545-BLK1)

Prepared & Analyzed: 02/11/2017

Carbon tetrachloride	ND	0.50	ug/L								
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	"								
o-Xylene	ND	0.50	"								
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	"								
Surrogate: 1,2-Dichloroethane-d4	10.1		"	10.0		101	69-130				
Surrogate: Toluene-d8	10.3		"	10.0		103	81-117				
Surrogate: p-Bromofluorobenzene	9.65		"	10.0		96.5	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
Batch BB70545 - EPA 5030B											
LCS (BB70545-BS1)						Prepared & Analyzed: 02/11/2017					
1,1,1,2-Tetrachloroethane	11.0		ug/L	10.0		110	82-126				
1,1,1-Trichloroethane	10.7		"	10.0		107	78-136				
1,1,2,2-Tetrachloroethane	11.0		"	10.0		110	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.1		"	10.0		121	54-165				
1,1,2-Trichloroethane	11.4		"	10.0		114	82-123				
1,1-Dichloroethane	10.7		"	10.0		107	82-129				
1,1-Dichloroethylene	10.9		"	10.0		109	68-138				
1,1-Dichloropropylene	10.7		"	10.0		107	83-133				
1,2,3-Trichlorobenzene	22.3		"	10.0		223	76-136	High Bias			
1,2,3-Trichloropropane	11.4		"	10.0		114	77-128				
1,2,4-Trichlorobenzene	16.1		"	10.0		161	76-137	High Bias			
1,2,4-Trimethylbenzene	11.3		"	10.0		113	82-132				
1,2-Dibromo-3-chloropropane	12.3		"	10.0		123	45-147				
1,2-Dibromoethane	11.2		"	10.0		112	83-124				
1,2-Dichlorobenzene	11.2		"	10.0		112	79-123				
1,2-Dichloroethane	10.5		"	10.0		105	73-132				
1,2-Dichloropropane	11.0		"	10.0		110	78-126				
1,3,5-Trimethylbenzene	11.2		"	10.0		112	80-131				
1,3-Dichlorobenzene	11.2		"	10.0		112	86-122				
1,3-Dichloropropane	11.2		"	10.0		112	81-125				
1,4-Dichlorobenzene	11.2		"	10.0		112	85-124				
2,2-Dichloropropane	10.6		"	10.0		106	56-150				
2-Chlorotoluene	11.2		"	10.0		112	79-130				
2-Hexanone	10.7		"	10.0		107	51-146				
4-Chlorotoluene	11.1		"	10.0		111	79-128				
Acetone	10.9		"	10.0		109	14-150				
Benzene	10.8		"	10.0		108	85-126				
Bromobenzene	11.0		"	10.0		110	78-129				
Bromochloromethane	10.7		"	10.0		107	77-128				
Bromodichloromethane	10.8		"	10.0		108	79-128				
Bromoform	10.4		"	10.0		104	78-133				
Bromomethane	5.38		"	10.0		53.8	43-168				
Carbon tetrachloride	10.5		"	10.0		105	77-141				
Chlorobenzene	11.0		"	10.0		110	88-120				
Chloroethane	10.0		"	10.0		100	65-136				
Chloroform	10.2		"	10.0		102	82-128				
Chloromethane	8.45		"	10.0		84.5	43-155				
cis-1,2-Dichloroethylene	10.6		"	10.0		106	83-129				
cis-1,3-Dichloropropylene	11.3		"	10.0		113	80-131				
Dibromochloromethane	10.8		"	10.0		108	80-130				
Dibromomethane	11.0		"	10.0		110	72-134				
Dichlorodifluoromethane	12.9		"	10.0		129	44-144				
Ethyl Benzene	11.2		"	10.0		112	80-131				
Hexachlorobutadiene	13.4		"	10.0		134	67-146				
Isopropylbenzene	11.4		"	10.0		114	76-140				
Methyl tert-butyl ether (MTBE)	10.7		"	10.0		107	76-135				
Methylene chloride	10.4		"	10.0		104	55-137				
Naphthalene	18.8		"	10.0		188	70-147	High Bias			
n-Butylbenzene	11.2		"	10.0		112	79-132				
n-Propylbenzene	11.2		"	10.0		112	78-133				
o-Xylene	11.1		"	10.0		111	78-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BB70545 - EPA 5030B

LCS (BB70545-BS1)

Prepared & Analyzed: 02/11/2017

p- & m- Xylenes	22.7		ug/L	20.0		113	77-133				
p-Isopropyltoluene	11.4		"	10.0		114	81-136				
sec-Butylbenzene	11.2		"	10.0		112	79-137				
Styrene	11.1		"	10.0		111	67-132				
tert-Butylbenzene	11.2		"	10.0		112	77-138				
Tetrachloroethylene	10.5		"	10.0		105	82-131				
Toluene	11.3		"	10.0		113	80-127				
trans-1,2-Dichloroethylene	10.7		"	10.0		107	80-132				
trans-1,3-Dichloropropylene	10.9		"	10.0		109	78-131				
Trichloroethylene	11.1		"	10.0		111	82-128				
Trichlorofluoromethane	10.8		"	10.0		108	67-139				
Vinyl Chloride	10.1		"	10.0		101	58-145				
Surrogate: 1,2-Dichloroethane-d4	9.62		"	10.0		96.2	69-130				
Surrogate: Toluene-d8	10.4		"	10.0		104	81-117				
Surrogate: p-Bromofluorobenzene	9.71		"	10.0		97.1	79-122				

LCS Dup (BB70545-BSD1)

Prepared & Analyzed: 02/11/2017

1,1,1,2-Tetrachloroethane	11.1		ug/L	10.0		111	82-126		0.272	30	
1,1,1-Trichloroethane	10.9		"	10.0		109	78-136		2.04	30	
1,1,2,2-Tetrachloroethane	11.1		"	10.0		111	76-129		0.181	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.5		"	10.0		125	54-165		2.68	30	
1,1,2-Trichloroethane	11.2		"	10.0		112	82-123		1.50	30	
1,1-Dichloroethane	10.9		"	10.0		109	82-129		2.22	30	
1,1-Dichloroethylene	11.3		"	10.0		113	68-138		3.61	30	
1,1-Dichloropropylene	11.0		"	10.0		110	83-133		2.85	30	
1,2,3-Trichlorobenzene	21.8		"	10.0		218	76-136	High Bias	2.17	30	
1,2,3-Trichloropropane	11.4		"	10.0		114	77-128		0.176	30	
1,2,4-Trichlorobenzene	16.0		"	10.0		160	76-137	High Bias	0.249	30	
1,2,4-Trimethylbenzene	11.2		"	10.0		112	82-132		0.267	30	
1,2-Dibromo-3-chloropropane	12.4		"	10.0		124	45-147		1.29	30	
1,2-Dibromoethane	11.5		"	10.0		115	83-124		2.03	30	
1,2-Dichlorobenzene	11.2		"	10.0		112	79-123		0.178	30	
1,2-Dichloroethane	10.7		"	10.0		107	73-132		1.69	30	
1,2-Dichloropropane	11.4		"	10.0		114	78-126		3.13	30	
1,3,5-Trimethylbenzene	11.2		"	10.0		112	80-131		0.0892	30	
1,3-Dichlorobenzene	11.1		"	10.0		111	86-122		0.448	30	
1,3-Dichloropropane	11.3		"	10.0		113	81-125		0.889	30	
1,4-Dichlorobenzene	11.1		"	10.0		111	85-124		0.985	30	
2,2-Dichloropropane	10.8		"	10.0		108	56-150		1.50	30	
2-Chlorotoluene	11.1		"	10.0		111	79-130		0.448	30	
2-Hexanone	10.8		"	10.0		108	51-146		0.372	30	
4-Chlorotoluene	11.0		"	10.0		110	79-128		0.999	30	
Acetone	9.92		"	10.0		99.2	14-150		9.78	30	
Benzene	11.0		"	10.0		110	85-126		1.75	30	
Bromobenzene	10.9		"	10.0		109	78-129		1.09	30	
Bromochloromethane	10.9		"	10.0		109	77-128		2.13	30	
Bromodichloromethane	10.9		"	10.0		109	79-128		0.461	30	
Bromoform	10.7		"	10.0		107	78-133		1.99	30	
Bromomethane	6.34		"	10.0		63.4	43-168		16.4	30	
Carbon tetrachloride	10.9		"	10.0		109	77-141		3.36	30	
Chlorobenzene	11.0		"	10.0		110	88-120		0.455	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 BB70545 - EPA 5030B

LCS Dup (BB70545-BSD1)

Prepared & Analyzed: 02/11/2017

Chloroethane	10.8		ug/L	10.0		108	65-136		6.92	30	
Chloroform	10.5		"	10.0		105	82-128		3.29	30	
Chloromethane	8.87		"	10.0		88.7	43-155		4.85	30	
cis-1,2-Dichloroethylene	10.6		"	10.0		106	83-129		0.00	30	
cis-1,3-Dichloropropylene	11.4		"	10.0		114	80-131		1.32	30	
Dibromochloromethane	11.0		"	10.0		110	80-130		1.47	30	
Dibromomethane	11.3		"	10.0		113	72-134		1.97	30	
Dichlorodifluoromethane	13.3		"	10.0		133	44-144		3.21	30	
Ethyl Benzene	11.3		"	10.0		113	80-131		1.07	30	
Hexachlorobutadiene	13.6		"	10.0		136	67-146		1.63	30	
Isopropylbenzene	11.3		"	10.0		113	76-140		0.793	30	
Methyl tert-butyl ether (MTBE)	11.2		"	10.0		112	76-135		4.02	30	
Methylene chloride	10.7		"	10.0		107	55-137		2.74	30	
Naphthalene	18.6		"	10.0		186	70-147	High Bias	1.50	30	
n-Butylbenzene	11.3		"	10.0		113	79-132		0.178	30	
n-Propylbenzene	11.2		"	10.0		112	78-133		0.178	30	
o-Xylene	11.2		"	10.0		112	78-130		1.08	30	
p- & m- Xylenes	22.9		"	20.0		114	77-133		0.966	30	
p-Isopropyltoluene	11.4		"	10.0		114	81-136		0.262	30	
sec-Butylbenzene	11.3		"	10.0		113	79-137		1.15	30	
Styrene	11.2		"	10.0		112	67-132		0.629	30	
tert-Butylbenzene	11.3		"	10.0		113	77-138		0.624	30	
Tetrachloroethylene	10.5		"	10.0		105	82-131		0.286	30	
Toluene	11.4		"	10.0		114	80-127		0.528	30	
trans-1,2-Dichloroethylene	10.9		"	10.0		109	80-132		1.76	30	
trans-1,3-Dichloropropylene	11.2		"	10.0		112	78-131		2.17	30	
Trichloroethylene	11.4		"	10.0		114	82-128		2.93	30	
Trichlorofluoromethane	10.9		"	10.0		109	67-139		0.184	30	
Vinyl Chloride	10.5		"	10.0		105	58-145		4.08	30	
Surrogate: 1,2-Dichloroethane-d4	10.0		"	10.0		100	69-130				
Surrogate: Toluene-d8	10.2		"	10.0		102	81-117				
Surrogate: p-Bromofluorobenzene	9.60		"	10.0		96.0	79-122				



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
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Batch BB70303 - EPA 3015A

Blank (BB70303-BLK1)

Prepared & Analyzed: 02/07/2017

Iron - Dissolved	ND	0.0200	mg/L
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Reference (BB70303-SRM1)

Prepared & Analyzed: 02/07/2017

Iron - Dissolved	1.61		ug/mL	1.52		106	85-115
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Batch BB70324 - EPA 200.7

Blank (BB70324-BLK1)

Prepared & Analyzed: 02/07/2017

Iron	ND	0.0200	mg/L
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Reference (BB70324-SRM1)

Prepared & Analyzed: 02/07/2017

Iron	1.57		ug/mL	1.52		103	85-115
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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
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Batch BB70630 - % Solids Prep

Blank (BB70630-BLK1)

Prepared & Analyzed: 02/09/2017

Total Dissolved Solids ND 10.0 mg/L

Duplicate (BB70630-DUP1)

*Source sample: 17B0199-01 (WQ020217:1310 NP2-10)

Prepared & Analyzed: 02/09/2017

Total Dissolved Solids 125 10.0 mg/L 120 4.08 15



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
17B0187-01	WQ020217:1305 NP2-6	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
17B0199-01	WQ020217:1310 NP2-10	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



Notes and Definitions

QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

*	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.

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.

YOUR INFORMATION

Company: LB6
Address: 4 Research Dr. Suite 301
Shelton, CT 06484
Phone No. 203-929-8555
Contact Person: Tunde Sandor
E-Mail Address: TSandor@LB6CT.com

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)

Ivan Foster
Name (printed)

Name (printed)

Report To:

Company: Same
Address: _____
Phone No. _____
Attention: _____
E-Mail Address: _____

Invoice To:

Company: Same
Address: _____
Phone No. _____
Attention: _____
E-Mail Address: _____

YOUR Project ID

Howe Industries.

Purchase Order No.:

YABSA6

Samples from: CT__ NY X NJ__

Turn-Around Time

☐ RUSH - Same Day
☐ RUSH - Next Day
☐ RUSH - Two Day
☐ RUSH - Three Day
☐ RUSH - Four Day

Standard(5-7 Days) ☒ X

Report Type

Summary Report X, pdf
 Summary w/ QA Summary X, pdf
 CT RCP Package _____
 CTRCP DQA/DUE Pkg _____
 NY ASP A Package _____
 NY ASP B Package NY2-10 only
 NUDEP Red. Deliv. _____

Electronic Data Deliverables (EDD)

E-Mail Address: TSandorf@LB6LT.com

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.

Matrix Codes

S -	soil
Other -	specify (oil etc.)
WW -	wastewater
GW -	groundwater
DW -	drinking water
Air-A -	ambient air
Air-SV -	soil vapor

Samples Collected/Authorized By (Signature)

Ivan Foster

Name (printed)

Sample Identification	Date Sampled	Sample Matrix
-----------------------	--------------	---------------

17. 12. 05. 103-1	2-2-17	EW
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WY 17.12.10	NOV-10	2-7-17	2W
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[illegible][illegible][illegible]

Preparation	Preparation
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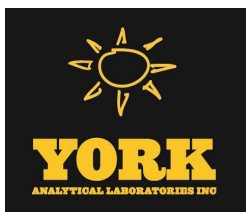
Comments	Check those Applicable	FILED VERSION

Instructions

Field Filtered ☐

Lab to Filter ☐

APPENDIX II
FEBRUARY 2017 LABORATORY ANALYTICAL REPORTS
FOR FSP&T AND FP&T RECOVERY WELLS



Technical Report

prepared for:

Leggette Brashears & Graham Shelton Office

4 Research Drive, Suite 204

Shelton CT, 06484

Attention: Tunde Komuves-Sandor

Report Date: 02/10/2017

Client Project ID: Rowe Industries

York Project (SDG) No.: 17B0185

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

STRATFORD, CT 06615
(203) 325-1371



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

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 02/10/2017
Client Project ID: Rowe Industries
York Project (SDG) No.: 17B0185

Leggette Brashears & Graham Shelton Office

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 February 06, 2017 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 Notes 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 attachment to 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>
17B0185-01	WQ020217:1300 NP1-1-2	Water	02/02/2017	02/06/2017

General Notes for York Project (SDG) No.: 17B0185

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 samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
9. 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: 02/10/2017





Sample Information

Client Sample ID: WQ020217:1300 NP1-1-2

York Sample ID: 17B0185-01

York Project (SDG) No.

17B0185

Client Project ID

Rowe Industries

Matrix

Water

Collection Date/Time

February 2, 2017 1:00 pm

Date Received

02/06/2017

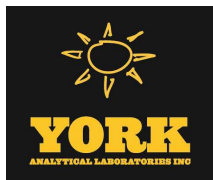
Volatile Organics, 8260 List - Low Level

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	02/08/2017 13:04	02/08/2017 19:58	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	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	02/08/2017 13:04	02/08/2017 19:58	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS



Sample Information

Client Sample ID: WQ020217:1300 NP1-1-2

York Sample ID: 17B0185-01

York Project (SDG) No.
17B0185

Client Project ID
Rowe Industries

Matrix
Water

Collection Date/Time
February 2, 2017 1:00 pm

Date Received
02/06/2017

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS



Sample Information

Client Sample ID: WQ020217:1300 NP1-1-2

York Sample ID: 17B0185-01

York Project (SDG) No.
17B0185

Client Project ID
Rowe Industries

Matrix
Water

Collection Date/Time
February 2, 2017 1:00 pm

Date Received
02/06/2017

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	02/08/2017 13:04	02/08/2017 19:58	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	02/08/2017 13:04	02/08/2017 19:58	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	02/08/2017 13:04	02/08/2017 19:58	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	92.8 %	69-130								
2037-26-5	Surrogate: Toluene-d8	96.3 %	81-117								
460-00-4	Surrogate: p-Bromofluorobenzene	94.6 %	79-122								



Analytical Batch Summary

Batch ID: BB70373

Preparation Method: EPA 5030B

Prepared By: RDS

YORK Sample ID	Client Sample ID	Preparation Date
17B0185-01	WQ020217:1300 NP1-1-2	02/08/17
BB70373-BLK1	Blank	02/08/17
BB70373-BS1	LCS	02/08/17
BB70373-BSD1	LCS Dup	02/08/17



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
Batch BB70373 - EPA 5030B											
Blank (BB70373-BLK1)										Prepared & Analyzed: 02/08/2017	
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	1.4	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 Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BB70373 - EPA 5030B

Blank (BB70373-BLK1)

Prepared & Analyzed: 02/08/2017

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	"

Surrogate: 1,2-Dichloroethane-d4	9.60	"	10.0	96.0	69-130
Surrogate: Toluene-d8	9.95	"	10.0	99.5	81-117
Surrogate: p-Bromofluorobenzene	9.37	"	10.0	93.7	79-122

LCS (BB70373-BS1)

Prepared & Analyzed: 02/08/2017

1,1,1,2-Tetrachloroethane	10.1	ug/L	10.0	101	82-126
1,1,1-Trichloroethane	11.0	"	10.0	110	78-136
1,1,2,2-Tetrachloroethane	10.8	"	10.0	108	76-129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	13.1	"	10.0	131	54-165
1,1,2-Trichloroethane	10.2	"	10.0	102	82-123
1,1-Dichloroethane	11.3	"	10.0	113	82-129
1,1-Dichloroethylene	11.7	"	10.0	117	68-138
1,1-Dichloropropylene	11.8	"	10.0	118	83-133
1,2,3-Trichlorobenzene	10.3	"	10.0	103	76-136
1,2,3-Trichloropropane	11.3	"	10.0	113	77-128
1,2,4-Trichlorobenzene	10.5	"	10.0	105	76-137
1,2,4-Trimethylbenzene	10.7	"	10.0	107	82-132
1,2-Dibromo-3-chloropropane	8.79	"	10.0	87.9	45-147
1,2-Dibromoethane	10.6	"	10.0	106	83-124
1,2-Dichlorobenzene	10.5	"	10.0	105	79-123
1,2-Dichloroethane	10.6	"	10.0	106	73-132
1,2-Dichloropropane	10.5	"	10.0	105	78-126
1,3,5-Trimethylbenzene	10.5	"	10.0	105	80-131
1,3-Dichlorobenzene	10.8	"	10.0	108	86-122
1,3-Dichloropropane	10.5	"	10.0	105	81-125
1,4-Dichlorobenzene	10.6	"	10.0	106	85-124
2,2-Dichloropropane	13.2	"	10.0	132	56-150
2-Chlorotoluene	10.6	"	10.0	106	79-130
2-Hexanone	11.0	"	10.0	110	51-146
4-Chlorotoluene	10.5	"	10.0	105	79-128
Acetone	10.1	"	10.0	101	14-150
Benzene	11.3	"	10.0	113	85-126
Bromobenzene	10.7	"	10.0	107	78-129
Bromochloromethane	10.9	"	10.0	109	77-128
Bromodichloromethane	10.1	"	10.0	101	79-128
Bromoform	9.78	"	10.0	97.8	78-133
Bromomethane	12.3	"	10.0	123	43-168



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 BB70373 - EPA 5030B

LCS (BB70373-BS1)

Prepared & Analyzed: 02/08/2017

Carbon tetrachloride	11.4		ug/L	10.0		114	77-141				
Chlorobenzene	10.3		"	10.0		103	88-120				
Chloroethane	11.2		"	10.0		112	65-136				
Chloroform	10.7		"	10.0		107	82-128				
Chloromethane	11.4		"	10.0		114	43-155				
cis-1,2-Dichloroethylene	11.4		"	10.0		114	83-129				
cis-1,3-Dichloropropylene	10.7		"	10.0		107	80-131				
Dibromochloromethane	10.0		"	10.0		100	80-130				
Dibromomethane	10.2		"	10.0		102	72-134				
Dichlorodifluoromethane	12.1		"	10.0		121	44-144				
Ethyl Benzene	10.8		"	10.0		108	80-131				
Hexachlorobutadiene	10.7		"	10.0		107	67-146				
Isopropylbenzene	10.8		"	10.0		108	76-140				
Methyl tert-butyl ether (MTBE)	11.0		"	10.0		110	76-135				
Methylene chloride	10.4		"	10.0		104	55-137				
Naphthalene	10.2		"	10.0		102	70-147				
n-Butylbenzene	11.2		"	10.0		112	79-132				
n-Propylbenzene	11.3		"	10.0		113	78-133				
o-Xylene	10.6		"	10.0		106	78-130				
p- & m- Xylenes	21.3		"	20.0		107	77-133				
p-Isopropyltoluene	11.2		"	10.0		112	81-136				
sec-Butylbenzene	11.2		"	10.0		112	79-137				
Styrene	10.7		"	10.0		107	67-132				
tert-Butylbenzene	11.1		"	10.0		111	77-138				
Tetrachloroethylene	7.81		"	10.0		78.1	82-131	Low Bias			
Toluene	10.4		"	10.0		104	80-127				
trans-1,2-Dichloroethylene	11.4		"	10.0		114	80-132				
trans-1,3-Dichloropropylene	10.4		"	10.0		104	78-131				
Trichloroethylene	10.2		"	10.0		102	82-128				
Trichlorofluoromethane	10.9		"	10.0		109	67-139				
Vinyl Chloride	11.2		"	10.0		112	58-145				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>9.69</i>		<i>"</i>	<i>10.0</i>		<i>96.9</i>	<i>69-130</i>				
<i>Surrogate: Toluene-d8</i>	<i>9.59</i>		<i>"</i>	<i>10.0</i>		<i>95.9</i>	<i>81-117</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>9.95</i>		<i>"</i>	<i>10.0</i>		<i>99.5</i>	<i>79-122</i>				



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
Batch BB70373 - EPA 5030B											
LCS Dup (BB70373-BSD1)						Prepared & Analyzed: 02/08/2017					
1,1,1,2-Tetrachloroethane	10.4		ug/L	10.0		104	82-126		3.51	30	
1,1,1-Trichloroethane	11.5		"	10.0		115	78-136		5.07	30	
1,1,2,2-Tetrachloroethane	11.0		"	10.0		110	76-129		1.19	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	13.3		"	10.0		133	54-165		1.52	30	
1,1,2-Trichloroethane	10.2		"	10.0		102	82-123		0.293	30	
1,1-Dichloroethane	11.7		"	10.0		117	82-129		3.65	30	
1,1-Dichloroethylene	12.2		"	10.0		122	68-138		4.09	30	
1,1-Dichloropropylene	11.9		"	10.0		119	83-133		1.44	30	
1,2,3-Trichlorobenzene	10.8		"	10.0		108	76-136		5.01	30	
1,2,3-Trichloropropane	11.0		"	10.0		110	77-128		2.86	30	
1,2,4-Trichlorobenzene	10.9		"	10.0		109	76-137		3.93	30	
1,2,4-Trimethylbenzene	11.1		"	10.0		111	82-132		3.48	30	
1,2-Dibromo-3-chloropropane	9.19		"	10.0		91.9	45-147		4.45	30	
1,2-Dibromoethane	10.0		"	10.0		100	83-124		5.71	30	
1,2-Dichlorobenzene	10.7		"	10.0		107	79-123		2.45	30	
1,2-Dichloroethane	10.7		"	10.0		107	73-132		0.845	30	
1,2-Dichloropropane	10.5		"	10.0		105	78-126		0.0955	30	
1,3,5-Trimethylbenzene	11.1		"	10.0		111	80-131		5.84	30	
1,3-Dichlorobenzene	11.3		"	10.0		113	86-122		4.53	30	
1,3-Dichloropropane	10.5		"	10.0		105	81-125		0.666	30	
1,4-Dichlorobenzene	10.9		"	10.0		109	85-124		3.63	30	
2,2-Dichloropropane	13.5		"	10.0		135	56-150		2.63	30	
2-Chlorotoluene	11.4		"	10.0		114	79-130		6.90	30	
2-Hexanone	10.2		"	10.0		102	51-146		7.42	30	
4-Chlorotoluene	11.3		"	10.0		113	79-128		7.33	30	
Acetone	10.4		"	10.0		104	14-150		3.51	30	
Benzene	11.8		"	10.0		118	85-126		4.23	30	
Bromobenzene	10.9		"	10.0		109	78-129		1.94	30	
Bromochloromethane	11.4		"	10.0		114	77-128		5.29	30	
Bromodichloromethane	10.1		"	10.0		101	79-128		0.495	30	
Bromoform	10.1		"	10.0		101	78-133		2.82	30	
Bromomethane	13.0		"	10.0		130	43-168		5.07	30	
Carbon tetrachloride	11.7		"	10.0		117	77-141		2.43	30	
Chlorobenzene	10.7		"	10.0		107	88-120		3.90	30	
Chloroethane	11.1		"	10.0		111	65-136		0.449	30	
Chloroform	11.3		"	10.0		113	82-128		5.92	30	
Chloromethane	11.0		"	10.0		110	43-155		2.77	30	
cis-1,2-Dichloroethylene	12.0		"	10.0		120	83-129		5.31	30	
cis-1,3-Dichloropropylene	10.9		"	10.0		109	80-131		2.22	30	
Dibromochloromethane	10.0		"	10.0		100	80-130		0.199	30	
Dibromomethane	10.3		"	10.0		103	72-134		0.585	30	
Dichlorodifluoromethane	12.2		"	10.0		122	44-144		0.905	30	
Ethyl Benzene	11.0		"	10.0		110	80-131		1.84	30	
Hexachlorobutadiene	10.5		"	10.0		105	67-146		1.88	30	
Isopropylbenzene	11.5		"	10.0		115	76-140		5.56	30	
Methyl tert-butyl ether (MTBE)	11.3		"	10.0		113	76-135		2.34	30	
Methylene chloride	11.0		"	10.0		110	55-137		5.52	30	
Naphthalene	10.6		"	10.0		106	70-147		4.15	30	
n-Butylbenzene	11.6		"	10.0		116	79-132		3.86	30	
n-Propylbenzene	11.7		"	10.0		117	78-133		3.82	30	
o-Xylene	10.8		"	10.0		108	78-130		1.78	30	



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

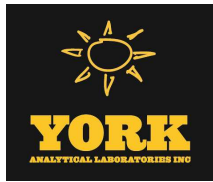
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BB70373 - EPA 5030B

LCS Dup (BB70373-BSD1)

Prepared & Analyzed: 02/08/2017

p- & m- Xylenes	21.7		ug/L	20.0		109	77-133		1.91	30
p-Isopropyltoluene	11.6		"	10.0		116	81-136		3.86	30
sec-Butylbenzene	11.7		"	10.0		117	79-137		4.27	30
Styrene	10.7		"	10.0		107	67-132		0.281	30
tert-Butylbenzene	11.5		"	10.0		115	77-138		3.54	30
Tetrachloroethylene	8.08		"	10.0		80.8	82-131	Low Bias	3.40	30
Toluene	10.7		"	10.0		107	80-127		2.74	30
trans-1,2-Dichloroethylene	11.8		"	10.0		118	80-132		4.06	30
trans-1,3-Dichloropropylene	10.6		"	10.0		106	78-131		2.38	30
Trichloroethylene	10.5		"	10.0		105	82-128		2.91	30
Trichlorofluoromethane	10.6		"	10.0		106	67-139		3.16	30
Vinyl Chloride	11.5		"	10.0		115	58-145		3.17	30
Surrogate: 1,2-Dichloroethane-d4	9.76		"	10.0		97.6	69-130			
Surrogate: Toluene-d8	9.52		"	10.0		95.2	81-117			
Surrogate: p-Bromofluorobenzene	9.99		"	10.0		99.9	79-122			



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
17B0185-01	WQ020217:1300 NP1-1-2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



Notes and Definitions

QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
*	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.

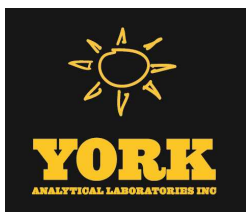
Certification for pH is no longer offered by NYDOH ELAP.

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.





Technical Report

prepared for:

Leggette Brashears & Graham Shelton Office

4 Research Drive, Suite 204

Shelton CT, 06484

Attention: Tunde Komuves-Sandor

Report Date: 02/13/2017

Client Project ID: Rowe Industries

York Project (SDG) No.: 17B0190

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE
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132-02 89th AVENUE
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RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 02/13/2017
Client Project ID: Rowe Industries
York Project (SDG) No.: 17B0190

Leggette Brashears & Graham Shelton Office

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 February 06, 2017 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 Notes 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 attachment to 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>
17B0190-01	WQ020217:1130 FRW-1	Water	02/02/2017	02/06/2017
17B0190-02	WQ020217:1135 FRW-2	Water	02/02/2017	02/06/2017
17B0190-03	WQ020217:1140 FRW-3	Water	02/02/2017	02/06/2017
17B0190-04	WQ020217:1145 FRW-4	Water	02/02/2017	02/06/2017

General Notes for York Project (SDG) No.: 17B0190

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 samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
9. 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: 02/13/2017





Sample Information

Client Sample ID: WQ020217:1130 FRW-1

York Sample ID: 17B0190-01

York Project (SDG) No.

17B0190

Client Project ID

Rowe Industries

Matrix

Water

Collection Date/Time

February 2, 2017 11:30 am

Date Received

02/06/2017

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	02/08/2017 08:08	02/08/2017 17:13	BK
71-55-6	1,1,1-Trichloroethane	3.5		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
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	02/08/2017 08:08	02/08/2017 17:13	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
75-34-3	1,1-Dichloroethane	0.59		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.80	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK



Sample Information

Client Sample ID: WQ020217:1130 FRW-1

York Sample ID: 17B0190-01

York Project (SDG) No.
17B0190

Client Project ID
Rowe Industries

Matrix
Water

Collection Date/Time
February 2, 2017 11:30 am

Date Received
02/06/2017

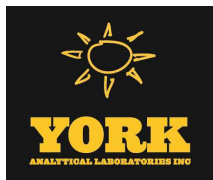
Volatile Organics, 8260 List - Low Level

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	02/08/2017 08:08	02/08/2017 17:13	BK
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
74-83-9	Bromomethane	ND		ug/L	0.80	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
75-00-3	Chloroethane	ND		ug/L	0.80	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
156-59-2	cis-1,2-Dichloroethylene	20		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK



Sample Information

Client Sample ID: WQ020217:1130 FRW-1

York Sample ID: 17B0190-01

York Project (SDG) No.
17B0190

Client Project ID
Rowe Industries

Matrix
Water

Collection Date/Time
February 2, 2017 11:30 am

Date Received
02/06/2017

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	02/08/2017 08:08	02/08/2017 17:13	BK
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	02/08/2017 08:08	02/08/2017 17:13	BK
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	02/08/2017 08:08	02/08/2017 17:13	BK
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
127-18-4	Tetrachloroethylene	460		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/11/2017 15:02	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
79-01-6	Trichloroethylene	8.5	CCV-E	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	02/08/2017 08:08	02/08/2017 17:13	BK
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	89.4 %	69-130								
2037-26-5	Surrogate: Toluene-d8	97.5 %	81-117								
460-00-4	Surrogate: p-Bromofluorobenzene	95.8 %	79-122								



Sample Information

Client Sample ID: WQ020217:1135 FRW-2

York Sample ID: 17B0190-02

York Project (SDG) No.
17B0190

Client Project ID
Rowe Industries

Matrix
Water

Collection Date/Time
February 2, 2017 11:35 am

Date Received
02/06/2017

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	02/08/2017 08:08	02/08/2017 16:45	BK
71-55-6	1,1,1-Trichloroethane	0.63		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
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	02/08/2017 08:08	02/08/2017 16:45	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.80	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK



Sample Information

Client Sample ID: WQ020217:1135 FRW-2

York Sample ID: 17B0190-02

York Project (SDG) No.
17B0190

Client Project ID
Rowe Industries

Matrix
Water

Collection Date/Time
February 2, 2017 11:35 am

Date Received
02/06/2017

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
67-64-1	Acetone	2.2		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
74-83-9	Bromomethane	ND		ug/L	0.80	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
75-00-3	Chloroethane	ND		ug/L	0.80	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
156-59-2	cis-1,2-Dichloroethylene	39		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK



Sample Information

Client Sample ID: WQ020217:1135 FRW-2

York Sample ID: 17B0190-02

York Project (SDG) No.
17B0190

Client Project ID
Rowe Industries

Matrix
Water

Collection Date/Time
February 2, 2017 11:35 am

Date Received
02/06/2017

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	02/08/2017 08:08	02/08/2017 16:45	BK
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	02/08/2017 08:08	02/08/2017 16:45	BK
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
127-18-4	Tetrachloroethylene	100		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/11/2017 15:27	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
79-01-6	Trichloroethylene	10		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
75-01-4	Vinyl Chloride	1.4		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	02/08/2017 08:08	02/08/2017 16:45	BK
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>86.9 %</i>	<i>69-130</i>								
2037-26-5	<i>Surrogate: Toluene-d8</i>	<i>99.3 %</i>	<i>81-117</i>								
460-00-4	<i>Surrogate: p-Bromofluorobenzene</i>	<i>88.1 %</i>	<i>79-122</i>								



Sample Information

Client Sample ID: WQ020217:1140 FRW-3

York Sample ID: 17B0190-03

York Project (SDG) No.
17B0190

Client Project ID
Rowe Industries

Matrix
Water

Collection Date/Time
February 2, 2017 11:40 am

Date Received
02/06/2017

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	02/08/2017 08:08	02/08/2017 16:17	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
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	02/08/2017 08:08	02/08/2017 16:17	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.80	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK



Sample Information

Client Sample ID: WQ020217:1140 FRW-3

York Sample ID: 17B0190-03

York Project (SDG) No.
17B0190

Client Project ID
Rowe Industries

Matrix
Water

Collection Date/Time
February 2, 2017 11:40 am

Date Received
02/06/2017

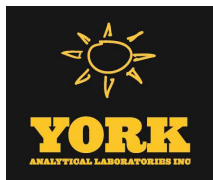
Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
74-83-9	Bromomethane	ND		ug/L	0.80	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
75-00-3	Chloroethane	ND		ug/L	0.80	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
156-59-2	cis-1,2-Dichloroethylene	24		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
98-82-8	Isopropylbenzene	0.76		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK



Sample Information

Client Sample ID: WQ020217:1140 FRW-3

York Sample ID: 17B0190-03

York Project (SDG) No.
17B0190

Client Project ID
Rowe Industries

Matrix
Water

Collection Date/Time
February 2, 2017 11:40 am

Date Received
02/06/2017

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
103-65-1	n-Propylbenzene	0.63	CCV-E	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	02/08/2017 08:08	02/08/2017 16:17	BK
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	02/08/2017 08:08	02/08/2017 16:17	BK
99-87-6	p-Isopropyltoluene	0.33	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
127-18-4	Tetrachloroethylene	18	CCV-E	ug/L	0.80	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
79-01-6	Trichloroethylene	3.7		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	02/08/2017 08:08	02/08/2017 16:17	BK
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	88.8 %	69-130								
2037-26-5	Surrogate: Toluene-d8	97.0 %	81-117								
460-00-4	Surrogate: p-Bromofluorobenzene	91.6 %	79-122								



Sample Information

Client Sample ID: WQ020217:1145 FRW-4

York Sample ID: 17B0190-04

York Project (SDG) No.
17B0190

Client Project ID
Rowe Industries

Matrix
Water

Collection Date/Time
February 2, 2017 11:45 am

Date Received
02/06/2017

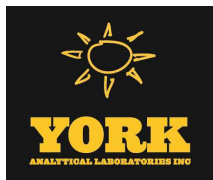
Volatile Organics, 8260 List - Low Level

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	02/08/2017 08:08	02/08/2017 15:50	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
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	02/08/2017 08:08	02/08/2017 15:50	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.80	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK



Sample Information

Client Sample ID: WQ020217:1145 FRW-4

York Sample ID: 17B0190-04

York Project (SDG) No.
17B0190

Client Project ID
Rowe Industries

Matrix
Water

Collection Date/Time
February 2, 2017 11:45 am

Date Received
02/06/2017

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
74-83-9	Bromomethane	ND		ug/L	0.80	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
75-00-3	Chloroethane	ND		ug/L	0.80	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
156-59-2	cis-1,2-Dichloroethylene	17		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK



Sample Information

Client Sample ID: WQ020217:1145 FRW-4

York Sample ID: 17B0190-04

York Project (SDG) No.
17B0190

Client Project ID
Rowe Industries

Matrix
Water

Collection Date/Time
February 2, 2017 11:45 am

Date Received
02/06/2017

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	02/08/2017 08:08	02/08/2017 15:50	BK
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	02/08/2017 08:08	02/08/2017 15:50	BK
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
127-18-4	Tetrachloroethylene	5.1	CCV-E	ug/L	0.80	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
79-01-6	Trichloroethylene	1.4		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	02/08/2017 08:08	02/08/2017 15:50	BK
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	87.8 %	69-130								
2037-26-5	Surrogate: Toluene-d8	97.5 %	81-117								
460-00-4	Surrogate: p-Bromofluorobenzene	97.4 %	79-122								



Analytical Batch Summary

Batch ID: BB70375

Preparation Method: EPA 5030B

Prepared By: RDS

YORK Sample ID	Client Sample ID	Preparation Date
17B0190-01	WQ020217:1130 FRW-1	02/08/17
17B0190-02	WQ020217:1135 FRW-2	02/08/17
17B0190-03	WQ020217:1140 FRW-3	02/08/17
17B0190-04	WQ020217:1145 FRW-4	02/08/17
BB70375-BLK1	Blank	02/08/17
BB70375-BS1	LCS	02/08/17
BB70375-BSD1	LCS Dup	02/08/17

Batch ID: BB70545

Preparation Method: EPA 5030B

Prepared By: RDS

YORK Sample ID	Client Sample ID	Preparation Date
17B0190-01RE1	WQ020217:1130 FRW-1	02/11/17
17B0190-02RE1	WQ020217:1135 FRW-2	02/11/17
BB70545-BLK1	Blank	02/11/17
BB70545-BS1	LCS	02/11/17
BB70545-BSD1	LCS Dup	02/11/17



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
Batch BB70375 - EPA 5030B											
Blank (BB70375-BLK1)										Prepared & Analyzed: 02/08/2017	
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	1.9	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	0.32	2.0	"								
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	0.82	2.0	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	2.0	"								
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	1.5	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 Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BB70375 - EPA 5030B

Blank (BB70375-BLK1)

Prepared & Analyzed: 02/08/2017

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	2.0	"
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	"

Surrogate: 1,2-Dichloroethane-d4	8.14	"	10.0	81.4	69-130
Surrogate: Toluene-d8	9.96	"	10.0	99.6	81-117
Surrogate: p-Bromofluorobenzene	9.70	"	10.0	97.0	79-122

LCS (BB70375-BS1)

Prepared & Analyzed: 02/08/2017

1,1,1,2-Tetrachloroethane	10.2	ug/L	10.0	102	82-126	
1,1,1-Trichloroethane	11.0	"	10.0	110	78-136	
1,1,2,2-Tetrachloroethane	10.9	"	10.0	109	76-129	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.2	"	10.0	112	54-165	
1,1,2-Trichloroethane	9.48	"	10.0	94.8	82-123	
1,1-Dichloroethane	12.2	"	10.0	122	82-129	
1,1-Dichloroethylene	12.7	"	10.0	127	68-138	
1,1-Dichloropropylene	12.1	"	10.0	121	83-133	
1,2,3-Trichlorobenzene	14.2	"	10.0	142	76-136	High Bias
1,2,3-Trichloropropane	9.08	"	10.0	90.8	77-128	
1,2,4-Trichlorobenzene	12.8	"	10.0	128	76-137	
1,2,4-Trimethylbenzene	12.1	"	10.0	121	82-132	
1,2-Dibromo-3-chloropropane	9.88	"	10.0	98.8	45-147	
1,2-Dibromoethane	8.92	"	10.0	89.2	83-124	
1,2-Dichlorobenzene	10.2	"	10.0	102	79-123	
1,2-Dichloroethane	9.70	"	10.0	97.0	73-132	
1,2-Dichloropropane	11.8	"	10.0	118	78-126	
1,3,5-Trimethylbenzene	11.6	"	10.0	116	80-131	
1,3-Dichlorobenzene	10.6	"	10.0	106	86-122	
1,3-Dichloropropane	10.0	"	10.0	100	81-125	
1,4-Dichlorobenzene	10.6	"	10.0	106	85-124	
2,2-Dichloropropane	12.0	"	10.0	120	56-150	
2-Chlorotoluene	12.9	"	10.0	129	79-130	
2-Hexanone	8.88	"	10.0	88.8	51-146	
4-Chlorotoluene	13.7	"	10.0	137	79-128	High Bias
Acetone	10.2	"	10.0	102	14-150	
Benzene	11.8	"	10.0	118	85-126	
Bromobenzene	12.3	"	10.0	123	78-129	
Bromochloromethane	11.1	"	10.0	111	77-128	
Bromodichloromethane	10.6	"	10.0	106	79-128	
Bromoform	8.32	"	10.0	83.2	78-133	
Bromomethane	6.52	"	10.0	65.2	43-168	



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 BB70375 - EPA 5030B

LCS (BB70375-BS1)

Prepared & Analyzed: 02/08/2017

Carbon tetrachloride	10.7		ug/L	10.0		107	77-141				
Chlorobenzene	10.9		"	10.0		109	88-120				
Chloroethane	10.2		"	10.0		102	65-136				
Chloroform	11.1		"	10.0		111	82-128				
Chloromethane	11.2		"	10.0		112	43-155				
cis-1,2-Dichloroethylene	11.8		"	10.0		118	83-129				
cis-1,3-Dichloropropylene	10.9		"	10.0		109	80-131				
Dibromochloromethane	9.35		"	10.0		93.5	80-130				
Dibromomethane	10.1		"	10.0		101	72-134				
Dichlorodifluoromethane	11.4		"	10.0		114	44-144				
Ethyl Benzene	11.5		"	10.0		115	80-131				
Hexachlorobutadiene	11.8		"	10.0		118	67-146				
Isopropylbenzene	12.3		"	10.0		123	76-140				
Methyl tert-butyl ether (MTBE)	8.99		"	10.0		89.9	76-135				
Methylene chloride	11.1		"	10.0		111	55-137				
Naphthalene	15.1		"	10.0		151	70-147	High Bias			
n-Butylbenzene	14.1		"	10.0		141	79-132	High Bias			
n-Propylbenzene	13.4		"	10.0		134	78-133	High Bias			
o-Xylene	11.4		"	10.0		114	78-130				
p- & m- Xylenes	22.6		"	20.0		113	77-133				
p-Isopropyltoluene	13.4		"	10.0		134	81-136				
sec-Butylbenzene	12.8		"	10.0		128	79-137				
Styrene	10.7		"	10.0		107	67-132				
tert-Butylbenzene	13.7		"	10.0		137	77-138				
Tetrachloroethylene	6.73		"	10.0		67.3	82-131	Low Bias			
Toluene	11.6		"	10.0		116	80-127				
trans-1,2-Dichloroethylene	12.2		"	10.0		122	80-132				
trans-1,3-Dichloropropylene	9.70		"	10.0		97.0	78-131				
Trichloroethylene	11.5		"	10.0		115	82-128				
Trichlorofluoromethane	10.4		"	10.0		104	67-139				
Vinyl Chloride	9.42		"	10.0		94.2	58-145				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>8.49</i>		<i>"</i>	<i>10.0</i>		<i>84.9</i>	<i>69-130</i>				
<i>Surrogate: Toluene-d8</i>	<i>10.1</i>		<i>"</i>	<i>10.0</i>		<i>101</i>	<i>81-117</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>9.62</i>		<i>"</i>	<i>10.0</i>		<i>96.2</i>	<i>79-122</i>				



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
Batch BB70375 - EPA 5030B											
LCS Dup (BB70375-BSD1)						Prepared & Analyzed: 02/08/2017					
1,1,1,2-Tetrachloroethane	9.48		ug/L	10.0		94.8	82-126		7.22	30	
1,1,1-Trichloroethane	10.3		"	10.0		103	78-136		6.65	30	
1,1,2,2-Tetrachloroethane	10.5		"	10.0		105	76-129		3.93	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.4		"	10.0		114	54-165		2.39	30	
1,1,2-Trichloroethane	9.47		"	10.0		94.7	82-123		0.106	30	
1,1-Dichloroethane	12.2		"	10.0		122	82-129		0.164	30	
1,1-Dichloroethylene	12.3		"	10.0		123	68-138		3.51	30	
1,1-Dichloropropylene	11.7		"	10.0		117	83-133		3.61	30	
1,2,3-Trichlorobenzene	16.0		"	10.0		160	76-136	High Bias	12.3	30	
1,2,3-Trichloropropane	9.63		"	10.0		96.3	77-128		5.88	30	
1,2,4-Trichlorobenzene	13.8		"	10.0		138	76-137	High Bias	7.66	30	
1,2,4-Trimethylbenzene	11.5		"	10.0		115	82-132		4.75	30	
1,2-Dibromo-3-chloropropane	11.4		"	10.0		114	45-147		14.5	30	
1,2-Dibromoethane	8.92		"	10.0		89.2	83-124		0.00	30	
1,2-Dichlorobenzene	10.2		"	10.0		102	79-123		0.00	30	
1,2-Dichloroethane	9.83		"	10.0		98.3	73-132		1.33	30	
1,2-Dichloropropane	11.0		"	10.0		110	78-126		6.73	30	
1,3,5-Trimethylbenzene	11.0		"	10.0		110	80-131		5.92	30	
1,3-Dichlorobenzene	10.4		"	10.0		104	86-122		2.28	30	
1,3-Dichloropropane	9.92		"	10.0		99.2	81-125		1.10	30	
1,4-Dichlorobenzene	10.3		"	10.0		103	85-124		2.96	30	
2,2-Dichloropropane	11.7		"	10.0		117	56-150		3.20	30	
2-Chlorotoluene	12.1		"	10.0		121	79-130		6.71	30	
2-Hexanone	8.99		"	10.0		89.9	51-146		1.23	30	
4-Chlorotoluene	12.7		"	10.0		127	79-128		7.59	30	
Acetone	10.4		"	10.0		104	14-150		1.95	30	
Benzene	11.8		"	10.0		118	85-126		0.00	30	
Bromobenzene	11.8		"	10.0		118	78-129		4.49	30	
Bromochloromethane	11.1		"	10.0		111	77-128		0.541	30	
Bromodichloromethane	10.4		"	10.0		104	79-128		2.28	30	
Bromoform	8.24		"	10.0		82.4	78-133		0.966	30	
Bromomethane	6.43		"	10.0		64.3	43-168		1.39	30	
Carbon tetrachloride	10.6		"	10.0		106	77-141		0.750	30	
Chlorobenzene	10.5		"	10.0		105	88-120		3.18	30	
Chloroethane	9.00		"	10.0		90.0	65-136		13.0	30	
Chloroform	11.2		"	10.0		112	82-128		0.990	30	
Chloromethane	11.9		"	10.0		119	43-155		6.13	30	
cis-1,2-Dichloroethylene	11.6		"	10.0		116	83-129		1.45	30	
cis-1,3-Dichloropropylene	10.4		"	10.0		104	80-131		5.16	30	
Dibromochloromethane	9.00		"	10.0		90.0	80-130		3.81	30	
Dibromomethane	10.0		"	10.0		100	72-134		0.596	30	
Dichlorodifluoromethane	11.1		"	10.0		111	44-144		2.49	30	
Ethyl Benzene	10.8		"	10.0		108	80-131		6.45	30	
Hexachlorobutadiene	12.6		"	10.0		126	67-146		6.74	30	
Isopropylbenzene	11.4		"	10.0		114	76-140		7.35	30	
Methyl tert-butyl ether (MTBE)	9.63		"	10.0		96.3	76-135		6.87	30	
Methylene chloride	10.9		"	10.0		109	55-137		1.73	30	
Naphthalene	17.4		"	10.0		174	70-147	High Bias	13.9	30	
n-Butylbenzene	13.5		"	10.0		135	79-132	High Bias	4.28	30	
n-Propylbenzene	12.3		"	10.0		123	78-133		8.61	30	
o-Xylene	10.8		"	10.0		108	78-130		5.13	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 BB70375 - EPA 5030B

LCS Dup (BB70375-BSD1)

Prepared & Analyzed: 02/08/2017

p- & m- Xylenes	21.4		ug/L	20.0		107	77-133		5.64	30	
p-Isopropyltoluene	12.5		"	10.0		125	81-136		6.33	30	
sec-Butylbenzene	12.0		"	10.0		120	79-137		5.80	30	
Styrene	10.3		"	10.0		103	67-132		4.01	30	
tert-Butylbenzene	12.1		"	10.0		121	77-138		12.4	30	
Tetrachloroethylene	6.18		"	10.0		61.8	82-131	Low Bias	8.52	30	
Toluene	10.9		"	10.0		109	80-127		5.97	30	
trans-1,2-Dichloroethylene	12.1		"	10.0		121	80-132		0.826	30	
trans-1,3-Dichloropropylene	9.81		"	10.0		98.1	78-131		1.13	30	
Trichloroethylene	10.9		"	10.0		109	82-128		5.62	30	
Trichlorofluoromethane	9.73		"	10.0		97.3	67-139		6.18	30	
Vinyl Chloride	9.25		"	10.0		92.5	58-145		1.82	30	
Surrogate: 1,2-Dichloroethane-d4	8.59		"	10.0		85.9	69-130				
Surrogate: Toluene-d8	9.85		"	10.0		98.5	81-117				
Surrogate: p-Bromofluorobenzene	9.21		"	10.0		92.1	79-122				

Batch BB70545 - EPA 5030B

Blank (BB70545-BLK1)

Prepared & Analyzed: 02/11/2017

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	1.2	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	"



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 BB70545 - EPA 5030B

Blank (BB70545-BLK1)

Prepared & Analyzed: 02/11/2017

Carbon tetrachloride	ND	0.50	ug/L								
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	"								
o-Xylene	ND	0.50	"								
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	"								
Surrogate: 1,2-Dichloroethane-d4	10.1		"	10.0		101	69-130				
Surrogate: Toluene-d8	10.3		"	10.0		103	81-117				
Surrogate: p-Bromofluorobenzene	9.65		"	10.0		96.5	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
Batch BB70545 - EPA 5030B											
LCS (BB70545-BS1)						Prepared & Analyzed: 02/11/2017					
1,1,1,2-Tetrachloroethane	11.0		ug/L	10.0		110	82-126				
1,1,1-Trichloroethane	10.7		"	10.0		107	78-136				
1,1,2,2-Tetrachloroethane	11.0		"	10.0		110	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.1		"	10.0		121	54-165				
1,1,2-Trichloroethane	11.4		"	10.0		114	82-123				
1,1-Dichloroethane	10.7		"	10.0		107	82-129				
1,1-Dichloroethylene	10.9		"	10.0		109	68-138				
1,1-Dichloropropylene	10.7		"	10.0		107	83-133				
1,2,3-Trichlorobenzene	22.3		"	10.0		223	76-136	High Bias			
1,2,3-Trichloropropane	11.4		"	10.0		114	77-128				
1,2,4-Trichlorobenzene	16.1		"	10.0		161	76-137	High Bias			
1,2,4-Trimethylbenzene	11.3		"	10.0		113	82-132				
1,2-Dibromo-3-chloropropane	12.3		"	10.0		123	45-147				
1,2-Dibromoethane	11.2		"	10.0		112	83-124				
1,2-Dichlorobenzene	11.2		"	10.0		112	79-123				
1,2-Dichloroethane	10.5		"	10.0		105	73-132				
1,2-Dichloropropane	11.0		"	10.0		110	78-126				
1,3,5-Trimethylbenzene	11.2		"	10.0		112	80-131				
1,3-Dichlorobenzene	11.2		"	10.0		112	86-122				
1,3-Dichloropropane	11.2		"	10.0		112	81-125				
1,4-Dichlorobenzene	11.2		"	10.0		112	85-124				
2,2-Dichloropropane	10.6		"	10.0		106	56-150				
2-Chlorotoluene	11.2		"	10.0		112	79-130				
2-Hexanone	10.7		"	10.0		107	51-146				
4-Chlorotoluene	11.1		"	10.0		111	79-128				
Acetone	10.9		"	10.0		109	14-150				
Benzene	10.8		"	10.0		108	85-126				
Bromobenzene	11.0		"	10.0		110	78-129				
Bromochloromethane	10.7		"	10.0		107	77-128				
Bromodichloromethane	10.8		"	10.0		108	79-128				
Bromoform	10.4		"	10.0		104	78-133				
Bromomethane	5.38		"	10.0		53.8	43-168				
Carbon tetrachloride	10.5		"	10.0		105	77-141				
Chlorobenzene	11.0		"	10.0		110	88-120				
Chloroethane	10.0		"	10.0		100	65-136				
Chloroform	10.2		"	10.0		102	82-128				
Chloromethane	8.45		"	10.0		84.5	43-155				
cis-1,2-Dichloroethylene	10.6		"	10.0		106	83-129				
cis-1,3-Dichloropropylene	11.3		"	10.0		113	80-131				
Dibromochloromethane	10.8		"	10.0		108	80-130				
Dibromomethane	11.0		"	10.0		110	72-134				
Dichlorodifluoromethane	12.9		"	10.0		129	44-144				
Ethyl Benzene	11.2		"	10.0		112	80-131				
Hexachlorobutadiene	13.4		"	10.0		134	67-146				
Isopropylbenzene	11.4		"	10.0		114	76-140				
Methyl tert-butyl ether (MTBE)	10.7		"	10.0		107	76-135				
Methylene chloride	10.4		"	10.0		104	55-137				
Naphthalene	18.8		"	10.0		188	70-147	High Bias			
n-Butylbenzene	11.2		"	10.0		112	79-132				
n-Propylbenzene	11.2		"	10.0		112	78-133				
o-Xylene	11.1		"	10.0		111	78-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BB70545 - EPA 5030B

LCS (BB70545-BS1)

Prepared & Analyzed: 02/11/2017

p- & m- Xylenes	22.7		ug/L	20.0		113	77-133				
p-Isopropyltoluene	11.4		"	10.0		114	81-136				
sec-Butylbenzene	11.2		"	10.0		112	79-137				
Styrene	11.1		"	10.0		111	67-132				
tert-Butylbenzene	11.2		"	10.0		112	77-138				
Tetrachloroethylene	10.5		"	10.0		105	82-131				
Toluene	11.3		"	10.0		113	80-127				
trans-1,2-Dichloroethylene	10.7		"	10.0		107	80-132				
trans-1,3-Dichloropropylene	10.9		"	10.0		109	78-131				
Trichloroethylene	11.1		"	10.0		111	82-128				
Trichlorofluoromethane	10.8		"	10.0		108	67-139				
Vinyl Chloride	10.1		"	10.0		101	58-145				
Surrogate: 1,2-Dichloroethane-d4	9.62		"	10.0		96.2	69-130				
Surrogate: Toluene-d8	10.4		"	10.0		104	81-117				
Surrogate: p-Bromofluorobenzene	9.71		"	10.0		97.1	79-122				

LCS Dup (BB70545-BSD1)

Prepared & Analyzed: 02/11/2017

1,1,1,2-Tetrachloroethane	11.1		ug/L	10.0		111	82-126		0.272	30	
1,1,1-Trichloroethane	10.9		"	10.0		109	78-136		2.04	30	
1,1,2,2-Tetrachloroethane	11.1		"	10.0		111	76-129		0.181	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.5		"	10.0		125	54-165		2.68	30	
1,1,2-Trichloroethane	11.2		"	10.0		112	82-123		1.50	30	
1,1-Dichloroethane	10.9		"	10.0		109	82-129		2.22	30	
1,1-Dichloroethylene	11.3		"	10.0		113	68-138		3.61	30	
1,1-Dichloropropylene	11.0		"	10.0		110	83-133		2.85	30	
1,2,3-Trichlorobenzene	21.8		"	10.0		218	76-136	High Bias	2.17	30	
1,2,3-Trichloropropane	11.4		"	10.0		114	77-128		0.176	30	
1,2,4-Trichlorobenzene	16.0		"	10.0		160	76-137	High Bias	0.249	30	
1,2,4-Trimethylbenzene	11.2		"	10.0		112	82-132		0.267	30	
1,2-Dibromo-3-chloropropane	12.4		"	10.0		124	45-147		1.29	30	
1,2-Dibromoethane	11.5		"	10.0		115	83-124		2.03	30	
1,2-Dichlorobenzene	11.2		"	10.0		112	79-123		0.178	30	
1,2-Dichloroethane	10.7		"	10.0		107	73-132		1.69	30	
1,2-Dichloropropane	11.4		"	10.0		114	78-126		3.13	30	
1,3,5-Trimethylbenzene	11.2		"	10.0		112	80-131		0.0892	30	
1,3-Dichlorobenzene	11.1		"	10.0		111	86-122		0.448	30	
1,3-Dichloropropane	11.3		"	10.0		113	81-125		0.889	30	
1,4-Dichlorobenzene	11.1		"	10.0		111	85-124		0.985	30	
2,2-Dichloropropane	10.8		"	10.0		108	56-150		1.50	30	
2-Chlorotoluene	11.1		"	10.0		111	79-130		0.448	30	
2-Hexanone	10.8		"	10.0		108	51-146		0.372	30	
4-Chlorotoluene	11.0		"	10.0		110	79-128		0.999	30	
Acetone	9.92		"	10.0		99.2	14-150		9.78	30	
Benzene	11.0		"	10.0		110	85-126		1.75	30	
Bromobenzene	10.9		"	10.0		109	78-129		1.09	30	
Bromochloromethane	10.9		"	10.0		109	77-128		2.13	30	
Bromodichloromethane	10.9		"	10.0		109	79-128		0.461	30	
Bromoform	10.7		"	10.0		107	78-133		1.99	30	
Bromomethane	6.34		"	10.0		63.4	43-168		16.4	30	
Carbon tetrachloride	10.9		"	10.0		109	77-141		3.36	30	
Chlorobenzene	11.0		"	10.0		110	88-120		0.455	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
Batch BB70545 - EPA 5030B											
LCS Dup (BB70545-BSD1)						Prepared & Analyzed: 02/11/2017					
Chloroethane	10.8		ug/L	10.0		108	65-136		6.92	30	
Chloroform	10.5		"	10.0		105	82-128		3.29	30	
Chloromethane	8.87		"	10.0		88.7	43-155		4.85	30	
cis-1,2-Dichloroethylene	10.6		"	10.0		106	83-129		0.00	30	
cis-1,3-Dichloropropylene	11.4		"	10.0		114	80-131		1.32	30	
Dibromochloromethane	11.0		"	10.0		110	80-130		1.47	30	
Dibromomethane	11.3		"	10.0		113	72-134		1.97	30	
Dichlorodifluoromethane	13.3		"	10.0		133	44-144		3.21	30	
Ethyl Benzene	11.3		"	10.0		113	80-131		1.07	30	
Hexachlorobutadiene	13.6		"	10.0		136	67-146		1.63	30	
Isopropylbenzene	11.3		"	10.0		113	76-140		0.793	30	
Methyl tert-butyl ether (MTBE)	11.2		"	10.0		112	76-135		4.02	30	
Methylene chloride	10.7		"	10.0		107	55-137		2.74	30	
Naphthalene	18.6		"	10.0		186	70-147	High Bias	1.50	30	
n-Butylbenzene	11.3		"	10.0		113	79-132		0.178	30	
n-Propylbenzene	11.2		"	10.0		112	78-133		0.178	30	
o-Xylene	11.2		"	10.0		112	78-130		1.08	30	
p- & m- Xylenes	22.9		"	20.0		114	77-133		0.966	30	
p-Isopropyltoluene	11.4		"	10.0		114	81-136		0.262	30	
sec-Butylbenzene	11.3		"	10.0		113	79-137		1.15	30	
Styrene	11.2		"	10.0		112	67-132		0.629	30	
tert-Butylbenzene	11.3		"	10.0		113	77-138		0.624	30	
Tetrachloroethylene	10.5		"	10.0		105	82-131		0.286	30	
Toluene	11.4		"	10.0		114	80-127		0.528	30	
trans-1,2-Dichloroethylene	10.9		"	10.0		109	80-132		1.76	30	
trans-1,3-Dichloropropylene	11.2		"	10.0		112	78-131		2.17	30	
Trichloroethylene	11.4		"	10.0		114	82-128		2.93	30	
Trichlorofluoromethane	10.9		"	10.0		109	67-139		0.184	30	
Vinyl Chloride	10.5		"	10.0		105	58-145		4.08	30	
Surrogate: 1,2-Dichloroethane-d4	10.0		"	10.0		100	69-130				
Surrogate: Toluene-d8	10.2		"	10.0		102	81-117				
Surrogate: p-Bromofluorobenzene	9.60		"	10.0		96.0	79-122				



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
17B0190-01	WQ020217:1130 FRW-1	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
17B0190-02	WQ020217:1135 FRW-2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
17B0190-03	WQ020217:1140 FRW-3	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
17B0190-04	WQ020217:1145 FRW-4	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



Notes and Definitions

QR-04	The RPD exceeded control limits for the LCS/LCSD QC.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
*	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.

ANALYTICAL LABORATORIES, INC.
20 RESEARCH DR. STRATFORD, CT 06611
(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. signature binds you to York's Std. Terms & Conditions

York Project No. 17B0190

YOUR Information		Report To:		Invoice To:		YOUR Project ID		Turn-Around Time		Report Type																																																																																											
Company: <u>LBG</u> Address: <u>4 Rosewood Dr, Suite 301</u> <u>Shelton, CT 06484</u> Phone No. <u>203-929-8555</u> Contact Person: <u>Tonde Sander</u> E-Mail Address: <u>T.Sander@LBGCT.com</u>		Company: <u>Same</u> Address: _____ Phone No. _____ Attention: _____ E-Mail Address: _____		Company: <u>Same</u> Address: _____ Phone No. _____ Attention: _____ E-Mail Address: _____		<u>Rowe Industries.</u> Purchase Order No. <u>HABSA6</u> Samples from: CT <u>NY</u> X NJ _____		☐ RUSH - Same Day ☐ RUSH - Next Day ☐ RUSH - Two Day ☐ RUSH - Three Day ☐ RUSH - Four Day ☒ Standard (5-7 Days)		Summary Report <u>X</u> pdf Summary w/ QA Summary <u>X</u> pdf CT RCP Package CTRCP DOA/DUE Pkg NY ASP A Package NY ASP B Package <u>X</u> pdf NIDEP Red. Deliv. Electronic Data Deliverables (EDD) Simple Excel <u>X</u> NYSDEC EQuls EQuls (std) EZ-EDD (EQuls) NIDEP SRP HazSite EDD GIS/KEY (std) Other _____ York Regulatory Comparison Excel Spreadsheet Compare to the following Regs. (please fill in)																																																																																											
Choose Analyses Needed from the Menu Above and Enter Below																																																																																																					
Sample Identification		Date Sampled		Sample Matrix		<table border="1"> <thead> <tr> <th>Volatiles</th> <th>Semi-Volatiles</th> <th>Metals</th> <th>Misc. Org.</th> <th>Full Lists</th> <th>Misc.</th> </tr> </thead> <tbody> <tr> <td>8260 full</td> <td>TICs</td> <td>8082 PCB</td> <td>TPH GRO</td> <td>PH Poll</td> <td>Carcinogen</td> </tr> <tr> <td>624</td> <td>Slits Spec.</td> <td>8081 PCB</td> <td>TPH DRO</td> <td>TCL Oganics</td> <td>Reactivity</td> </tr> <tr> <td>STAN list</td> <td>Nassau Co.</td> <td>815 Herb</td> <td>CT ETPH</td> <td>TAL Metals</td> <td>Ignitability</td> </tr> <tr> <td>BTEX</td> <td>Suffolk Co.</td> <td>CT RCP</td> <td>CT15 list</td> <td>Full TCLP</td> <td>Flash Point</td> </tr> <tr> <td>MTBE</td> <td>Kerones</td> <td>App. IX</td> <td>TAGM list</td> <td>Full App. IX</td> <td>Solvent Anal.</td> </tr> <tr> <td>TCL list</td> <td>Oxygenates</td> <td>Site Spec.</td> <td>NIDEP list</td> <td>Air TO14A</td> <td>Per 360 HazSite</td> </tr> <tr> <td>TAGM list</td> <td>TCLP list</td> <td>CT RCP list</td> <td>SELP for TCLP</td> <td>Air TO15</td> <td>Per 360 HazSite</td> </tr> <tr> <td>CT RCP list</td> <td>524.2</td> <td>TCL list</td> <td>TCLP Herb</td> <td>Air STARS</td> <td>Per 360 HazSite</td> </tr> <tr> <td>Arom. only</td> <td>502.2</td> <td>NIDEP list</td> <td>TCLP BNA</td> <td>Air VPH</td> <td>Per 360 HazSite</td> </tr> <tr> <td>Halog. only</td> <td>NIDEP list</td> <td>App. IX</td> <td>Chlordane</td> <td>Air TICs</td> <td>NYDEC Spec</td> </tr> <tr> <td>Air-A - ambient air</td> <td>SELP for TCLP</td> <td>TCLP BNA</td> <td>608 Pest</td> <td>Indic. Metals</td> <td>NYDEC Spec</td> </tr> <tr> <td>Air-SV - soil vapor</td> <td>8021B list</td> <td>SELP for TCLP</td> <td>608 PCB</td> <td>List Below</td> <td>Madison</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>Helium</td> <td>Adhesives</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>TAGM</td> <td>Silica</td> </tr> </tbody> </table>						Volatiles	Semi-Volatiles	Metals	Misc. Org.	Full Lists	Misc.	8260 full	TICs	8082 PCB	TPH GRO	PH Poll	Carcinogen	624	Slits Spec.	8081 PCB	TPH DRO	TCL Oganics	Reactivity	STAN list	Nassau Co.	815 Herb	CT ETPH	TAL Metals	Ignitability	BTEX	Suffolk Co.	CT RCP	CT15 list	Full TCLP	Flash Point	MTBE	Kerones	App. IX	TAGM list	Full App. IX	Solvent Anal.	TCL list	Oxygenates	Site Spec.	NIDEP list	Air TO14A	Per 360 HazSite	TAGM list	TCLP list	CT RCP list	SELP for TCLP	Air TO15	Per 360 HazSite	CT RCP list	524.2	TCL list	TCLP Herb	Air STARS	Per 360 HazSite	Arom. only	502.2	NIDEP list	TCLP BNA	Air VPH	Per 360 HazSite	Halog. only	NIDEP list	App. IX	Chlordane	Air TICs	NYDEC Spec	Air-A - ambient air	SELP for TCLP	TCLP BNA	608 Pest	Indic. Metals	NYDEC Spec	Air-SV - soil vapor	8021B list	SELP for TCLP	608 PCB	List Below	Madison					Helium	Adhesives					TAGM	Silica
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Comments: _____ Preservation _____ Check three applicable Special Instructions:		4°C _____ Frozen _____ HCl _____ MeOH _____ Ascorbic Acid _____ ZnAc _____ Other _____ HNO ₃ _____ NaOH _____		Temperature on Receipt <u>3.2</u> °C																																																																																																	
Print Clearly and Legibly. All information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.		Samples Collected/Authorized By (Signature) <u>Evan Foster</u> Name (printed)		Container Description(s) <u>200a's</u> <u>VOC 8260 full list (EPA SW846-8260s) plus from #13</u> <u>"</u> <u>"</u> <u>"</u>																																																																																																	

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