PROJECT STATUS MEMORANDUM

TO: Pamela Tames, USEPA

FROM: Mark M. Goldberg, P.E.
Tunde H. Komuves-Sandor, PG, CPG

SUBJECT: Rowe Industries Superfund Site
NYS Site ID No. 152106
Groundwater Recovery and Treatment System
DRAFT March 2020 Status Report

DATE: May 12, 2020

WSP USA (WSP) commenced operation of the Full-Scale Pump and Treat (FSP&T) groundwater remediation system at the above-referenced site on December 17, 2002. Starting in September 2008, the groundwater recovered by the Focus Pump and Treat (FP&T) system was routed to the FSP&T system for treatment. As of 2014, the FSP&T system only treats water extracted from RW-2 and FRW-1, 2, 3 and 4; the other FSP&T recovery wells (RW-1, 3, 4, 5, 6, 7, 8, and 9) have been shut down with USEPA approval after achieving remediation standards. This status report presents a summary of performance, operation and maintenance for both systems and monitoring activities for the site from March 1, 2020 through March 31, 2020. The report includes a summary of system performance parameters, system operation parameters, and analytical results for groundwater, system effluent samples, and air quality results.

SUMMARY OF SYSTEM PERFORMANCE AND OPERATION

(March 1, 2020 through March 31, 2020)

1. Hours of operation during the reporting period:	714 hours (96.0%)
2. Alarm conditions during the reporting period:	See Table 1
3. Were the State Pollutant Discharge Elimination System (SPDES) volatile organic compounds (VOC) discharge permit criteria achieved:	Yes, (see Table 2)
4. Total volume of water pumped during the reporting period:	1,084,567 gal.
5. Was the system effluent flow below the SPDES limit of 1,023,000 gpd:	Yes, (see Graph 1)
6. Mass of VOCs recovered during the reporting period:	0.02 pound (see Graph 2)
7. Cumulative mass of VOCs recovered since startup on 12/17/02: (calculations can be provided upon request)	230.0 pounds

WSP USA
Formerly
Leggette, Brashears & Graham
4 Research Drive Suite 204
Shelton, CT 06484

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PUMP AND TREAT SYSTEM STATUS SUMMARY

FRW-1, 2, 3 and 4 were shut off in February following injection of products in the Former Drum Storage Area (FDSA) in accordance with the 2019 FDSA In-situ Groundwater Remediation Work Plan. Monthly sampling of FRW-1, 2, 3 and 4 has discontinued and an approved post-injection monitoring program for the Site has been approved by the EPA. RW-2 continues to remain in operation.

On March 2, 2020, the leaks in the roof were repaired by a roof contractor. The remaining O&M activities for March 2020 are included in Table 1.

SUMMARY OF SAMPLING ACTIVITIES

March 2020 groundwater quality sampling was completed for the following wells:

- A monthly groundwater sample was collected from RW-2 on March 2, 2020.

Table 3 presents a summary of the quality results for water samples collected from downgradient recovery well RW-2. Graph 3 presents tetrachloroethylene (PCE) concentrations for samples collected from RW-2 for the last 24 months. Laboratory analytical reports for the water sample collected from the recovery well is included as Appendix II.

The PCE, trichloroethylene (TCE), cis-1,2-dichloroethylene (cis-DCE), vinyl chloride (VC) and trichloroethane (TCA) concentrations in the groundwater sample collected from RW-2 were below the respective Applicable or Relevant and Appropriate Requirements (ARARs); concentrations at RW-2 have been below the ARARs for over ten years.

A groundwater sample from RW-2 will continue to be collected and analyzed monthly.

FUTURE O&M ACTIVITIES

O&M activities scheduled for April 2020 include:

- Evaluation of the transfer pumps; and,
- normal bi-weekly/monthly O&M activities.

Attachments
cc: Brian Shuttleworth - Kraft Heinz Foods Company (as successor to Kraft Foods Group, Inc.) -.pdf
Kevin Kyrias-Gann, Ramboll -.pdf
Rebecca Spellissy, Ramboll -.pdf
Payson Long, NYSDEC-.pdf
Chief-Operation Maintenance and Support Section, NYSDEC-.pdf
Anthony Leung, RWM, R-1, NYSDEC-.pdf
Sundy Schermeyer, Town of Southampton, Town Clerk-.pdf
Mark Sergott, NYSDOH-.pdf
H:\NABIS\2020\Monthly Rpts\March\Draft Status Report.docx

TABLES

TABLE 1

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

MAINTENANCE LOG
(March 1, 2020 through March 31, 2020)

Date	Time	System Changes/Modifications	Personnel
3/2/20		Repaired leaks in the roof.	OCC, SP
		No leaks observed from the EQ tank and the system is operating normally.	SP
3/12/20	6:35 AM	Communication and Power Failure Alarms; system shut down	
	9:37 AM	Reset the alarms and restarted the system with RW-2 operating.	JF
3/19/20		Changed the multi-bag filter bags (400 um) in Banks 1 and 2, seven of eight housings used. Banks 1 and 2 left open. Bank 3 closed. Left System running normally.	SP
		Reduced flow setpoint for RW-2 pump from 23 gpm to 21 gpm because of iron accumulation. Well rehabilitation work is scheduled for May 2020. EQ tank continues to show no signs of leaking.	SP
3/21/20	4:55 PM	System shut down due to COVID-19 concerns.	JF
3/22/20	7:30 PM	System restarted.	JF

Notes:

SP	Scott Philbrick, WSP USA
JF	Jamie Forrester, WSP USA
OCC	Outer County Construction (Roof Contractor)

H:\NABIS\2020\Monthly Rpts\March\Table 1 Maintenance Record.docx

TABLE 2

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

Effluent Water Quality Results

Date Sampled [2/]	pH [1/]	TDS [4/] (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-Feb-19	6.9	126	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	0.641	ND<0.278
1-Mar-19	6.9	142	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	6.31	ND<0.278
2-Apr-19	6.9	153	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	1.27	ND<0.278
6-May-19	6.9	175	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	0.374	ND<0.278
4-Jun-19	6.0	139	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	0.620	ND<0.278
2-Jul-19	6.0	145	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	1.82 C,Q,B	ND<0.5	0.766	ND<0.278
1-Aug-19	6.8	168	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	1.30	1.24
5-Sep-19	6.8	172	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	0.291	ND<0.278
3-Oct-19	6.5	165	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	0.612	ND<0.278
4-Nov-19	6.0	102	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	0.536	ND<0.278
5-Dec-19	6.8	129	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	NA	NA
7-Jan-20	6.8	175	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	NA	NA
4-Feb-20	7.0	122	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	NA	NA
2-Mar-20	7.0	137	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	NA	NA

SPDES: State Pollutant Discharge Elimination System
mg/l: Milligrams per liter
ug/l: Micrograms per liter
----: Not established
NM: Not Measured
TDS: Total dissolved solids
PCE: Tetrachloroethylene
1,1,1-TCA: 1,1,1-Trichloroethane
TCE: Trichloroethene
1,1-DCA: 1,1-Dichlorothane
1,1-DCE: 1,1-Dichloroethene
cis-1,2-DCE: cis-1,2-Dichloroethene
trans-1,2,-DCE: trans-1,2-Dichloroethene

J: Analyte detected below quantitation limits, value shown is a laboratory estimate.
B: Analyte was found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
ND: Not detected NA: Not Analyzed
C = CCV-E: The value reported is estimated The value is estimated due to its behavior during continuing calibration verification.
Q = QL-02: This LCS analyte is outside Laboratory Recovery limits due to the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

Notes:
1. Based on the SPDES criteria from an NYSDEC letter dated on May 6, 2016, the allowable pH range for the Rowe Site is between 6.5 and 8.5. The effluent pH was 7.0 on March 19, 2020. Historic pH measurements from recovery wells indicate that natural background pH concentrations are less than 6.5.
2. "Effluent" samples were collected from sample port labeled NP2-10 unless otherwise noted.
3. Starting in October 2016, FSP&T system samples are collected monthly instead of once every two weeks. The pH of the effluent water is measured two times per month in accordance with the SPDES requirements.

TABLE 3

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

Recovery Well Water Quality Results

Recovery Well [1/]	Date Sampled	PCE (ug/L)	TCE (ug/L)	TCA (ug/L)	Chloroform (ug/L)	MTBE (ug/L)	1,1-Dichloro-ethane (ug/L)	cis-1,2-Dichloro-ethene (ug/L)	1,1-Dichloro-ethene (ug/L)	Methylene Chloride (ug/L)	Toluene (ug/L)	Benzene (ug/L)	m,p-Xylene (ug/L)	o-Xylene (ug/L)
	ARAR's	**5**	**5**	**5**	**7**	**NE**	**5**	**5**	**5**	**5**	**NE**	**NE**	**5**	**5**
RW-2	1-Feb-19	0.380	0.36	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	1-Mar-19	0.320	0.200	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	2-Apr-19	0.27	0.320	ND<0.5	0.280	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	0.220	ND<0.5	ND<1	ND<0.5
	6-May-19	0.340	0.270	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	4-Jun-19	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	2-Jul-19	0.250	0.210	ND<0.5	0.210	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	1-Aug-19	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	5-Sep-19	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	3-Oct-19	ND<0.5	0.220	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	4-Nov-19	0.400	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	5-Dec-19	0.270	0.300	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	7-Jan-20	0.250	0.380	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	4-Feb-20	0.270 Q	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	2-Mar-20	1.67 C	0.250	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5

PCE: Tetrachloroethylene
TCE: Trichloroethylene
TCA: 1,1,1-Trichloroethane
MTBE: Methyl-tertiary-butyl-ether
NS: Not sampled

ND: Not detected
<#: Less than method detection limit
ug/L: Micrograms per liter
-: Not analyzed

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.

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

S = SCAL-E: The value reported is estimated. The value is estimated due to its behavior during initial calibration.

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

ARAR's are chemical specific aquifer restoration goals for ground water at the Former Rowe Industries Superfund Site.

NE indicates that the ARAR goal was not established for this compound by the EPA.

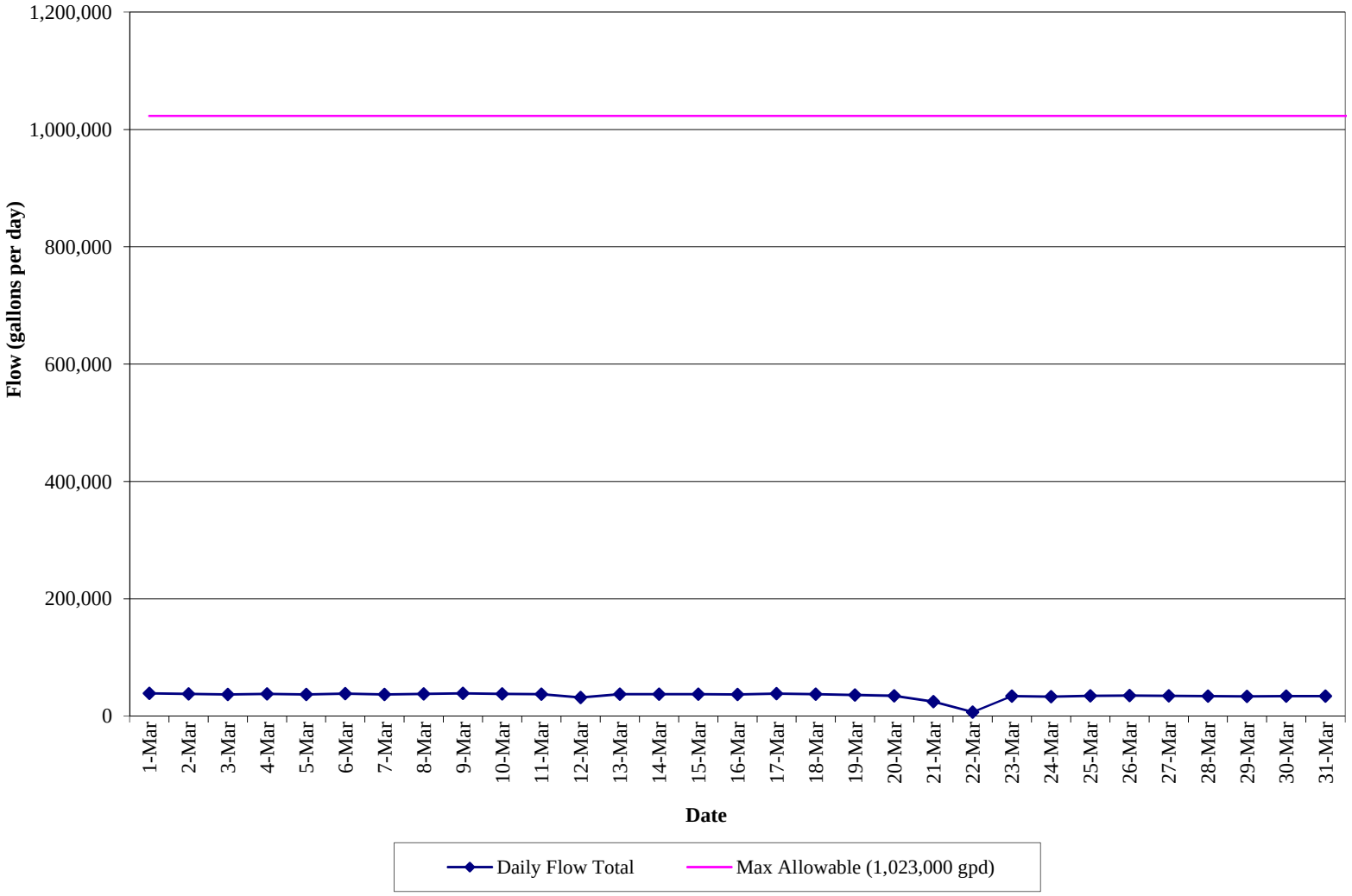
Bold values indicate an exceedance of the ARAR standard established for the site.

[1/] In September 2016, the EPA granted approval to discontinue groundwater sampling at RW-1, RW-5, RW-7, RW-8 and RW-9.

GRAPHS

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

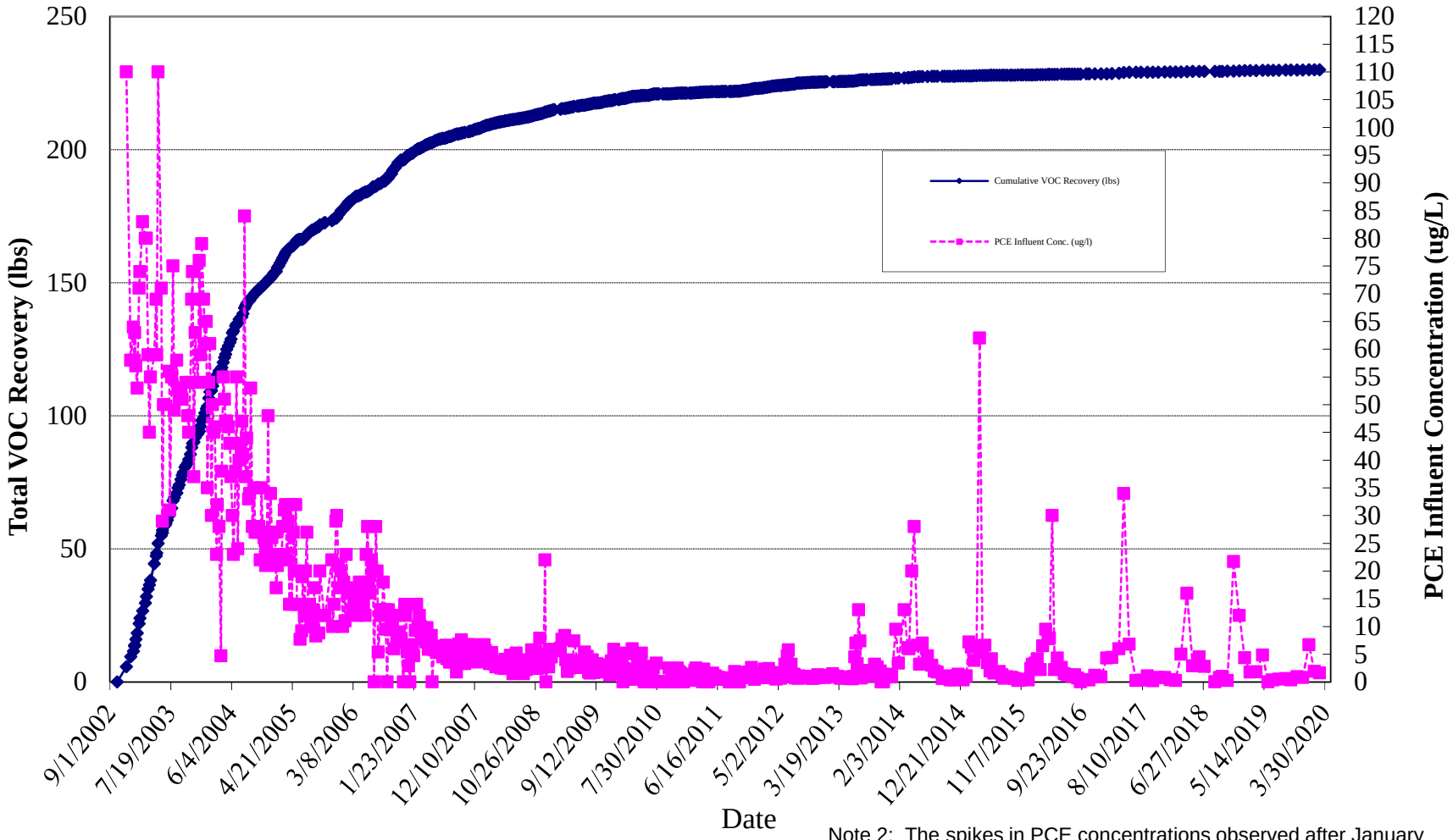
Effluent Flow Data
(March 1, 2020 to March 31, 2020)



WSP USA

GRAPH 2
GROUNDWATER REMEDIAL ACTION
ROWE INDUSTRIES SUPERFUND SITE
SAG HARBOR, NEW YORK

FSP&T System Cumulative VOC Recovery and Influent PCE Concentraions vs. Time



Note 1 : After September 22, 2008, the water recovered from the FP&T System is included in the results shown in this graph.

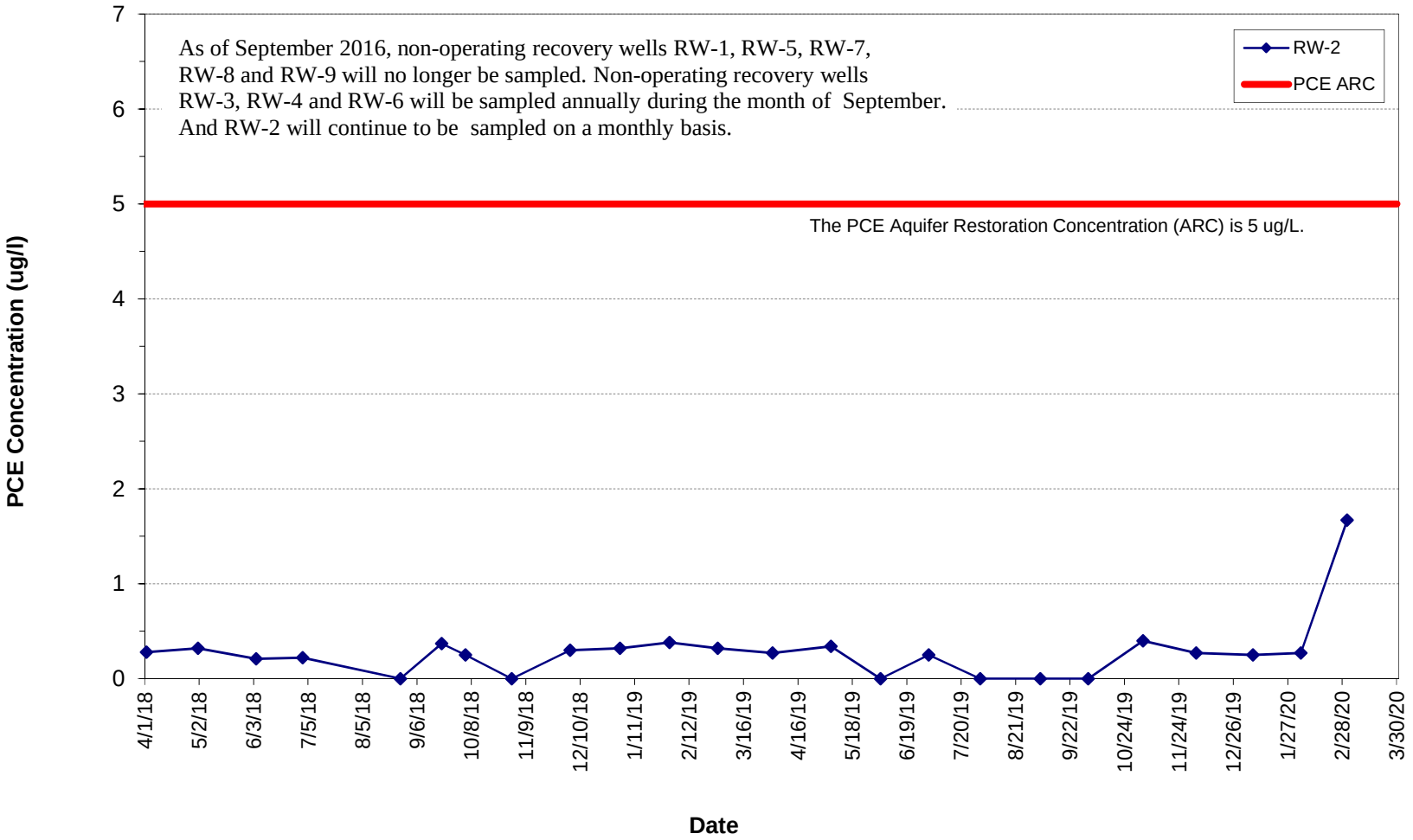
Note 2: The spikes in PCE concentrations observed after January 2014 coincide with well rehabilitation and annual maintenance events. During well rehabilitation and annual maintenance work, FSP&T system samples are collected when water from the FP&T system is not diluted with water extracted from RW-2.

WSP USA

GRAPH 3

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

FSP&T Recovery Well PCE Concentration



WSP USA

APPENDIX I

MARCH 2020 LABORATORY ANALYTICAL REPORT

FOR FSP&T SYSTEM

Technical Report

prepared for:

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

Report Date: 03/09/2020
Client Project ID: 31401451.000 Task 01.00 Rowe Industries
York Project (SDG) No.: 20C0057

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 STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 03/09/2020
Client Project ID: 31401451.000 Task 01.00 Rowe Industries
York Project (SDG) No.: 20C0057

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

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 02, 2020 and listed below. The project was identified as your project: **31401451.000 Task 01.00 Rowe Industries**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
20C0057-01	WQ030220:0825 NP2-6	Water	03/02/2020	03/02/2020
20C0057-02	WQ030220:0830 NP2-10	Water	03/02/2020	03/02/2020

General Notes for York Project (SDG) No.: 20C0057

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 03/09/2020

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: WQ030220:0825 NP2-6 **York Sample ID:** 20C0057-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20C0057	31401451.000 Task 01.00 Rowe Industries	Water	March 2, 2020 8:25 am	03/02/2020

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:28	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:28	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:28	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:28	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:28	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:28	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:28	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 NELAC-NY10854,NELAC-NY12058,NJDEP	03/07/2020 06:28	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:28	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:28	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:28	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:28	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:28	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:28	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:28	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:28	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:28	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:28	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:28	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:28	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:28	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:28	SS

Sample Information

Client Sample ID: WQ030220:0825 NP2-6 **York Sample ID:** 20C0057-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20C0057	31401451.000 Task 01.00 Rowe Industries	Water	March 2, 2020 8:25 am	03/02/2020

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:28	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:28	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:28	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:28	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:28	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:28	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:28	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:28	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:28	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:28	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:28	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:28	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:28	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:28	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:28	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:28	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:28	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:28	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:28	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:28	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:28	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:28	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:28	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP

Sample Information

Client Sample ID: WQ030220:0825 NP2-6 **York Sample ID:** 20C0057-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20C0057	31401451.000 Task 01.00 Rowe Industries	Water	March 2, 2020 8:25 am	03/02/2020

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:28 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:28 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:28 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:28 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:28 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:28 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:28 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:28 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:28 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:28 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:28 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
127-18-4	**Tetrachloroethylene**	**1.66**	CCV-E	ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:28 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:28 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:28 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:28 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
79-01-6	**Trichloroethylene**	**0.220**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:28 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:28 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:28 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:28 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*97.7 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*98.9 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*106 %*	*79-122*

Sample Information

Client Sample ID: WQ030220:0830 NP2-10 **York Sample ID:** 20C0057-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20C0057	31401451.000 Task 01.00 Rowe Industries	Water	March 2, 2020 8:30 am	03/02/2020

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:57 NELAC-NY10854,NELAC-NY12058,NJDEP	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:57 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:57 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:57 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:57 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:57 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS

Sample Information

Client Sample ID: WQ030220:0830 NP2-10 **York Sample ID:** 20C0057-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20C0057	31401451.000 Task 01.00 Rowe Industries	Water	March 2, 2020 8:30 am	03/02/2020

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:57	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:57	SS
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:57	SS
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:57	SS
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:57	SS
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:57	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:57	SS
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:57	SS
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:57	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:57	SS
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:57	SS
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:57	SS
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:57	SS
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:57	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:57	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:57	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:57	SS
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:57	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:57	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:57	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:57	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:57	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 06:57	SS

Sample Information

Client Sample ID: WQ030220:0830 NP2-10 **York Sample ID:** 20C0057-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20C0057	31401451.000 Task 01.00 Rowe Industries	Water	March 2, 2020 8:30 am	03/02/2020

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:57 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 06:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*96.6 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*99.9 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*108 %*	*79-122*

Total Dissolved Solids

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: **WQ030220:0830 NP2-10** **York Sample ID:** **20C0057-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20C0057	31401451.000 Task 01.00 Rowe Industries	Water	March 2, 2020 8:30 am	03/02/2020

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	**137**		mg/L	10.0	1	SM 2540C	03/04/2020 17:05	03/06/2020 21:35	AA
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

Analytical Batch Summary

Batch ID: BC00231 **Preparation Method:** % Solids Prep **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
20C0057-02	WQ030220:0830 NP2-10	03/04/20
BC00231-BLK1	Blank	03/04/20

Batch ID: BC00345 **Preparation Method:** EPA 5030B **Prepared By:** MAT

YORK Sample ID	Client Sample ID	Preparation Date
20C0057-01	WQ030220:0825 NP2-6	03/06/20
20C0057-02	WQ030220:0830 NP2-10	03/06/20
BC00345-BLK1	Blank	03/06/20
BC00345-BS1	LCS	03/06/20
BC00345-BS2	LCS	03/06/20
BC00345-BSD1	LCS Dup	03/06/20
BC00345-BSD2	LCS Dup	03/06/20

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 BC00345 - EPA 5030B											
Blank (BC00345-BLK1)											
1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,1-Dichloropropylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,3-Dichloropropane	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
2,2-Dichloropropane	ND	0.500	"								
2-Chlorotoluene	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Chlorotoluene	ND	0.500	"								
Acetone	ND	2.00	"								
Benzene	ND	0.500	"								
Bromobenzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Bromoform	ND	0.500	"								
Bromomethane	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylene chloride	ND	2.00	"								
Naphthalene	ND	2.00	"								
n-Butylbenzene	ND	0.500	"								

Prepared: 03/06/2020 Analyzed: 03/07/2020

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 BC00345 - EPA 5030B											
Blank (BC00345-BLK1)											Prepared: 03/06/2020 Analyzed: 03/07/2020
n-Propylbenzene	ND	0.500	ug/L								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.92*		*"*	*10.0*		*99.2*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.93*		*"*	*10.0*		*99.3*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.4*		*"*	*10.0*		*104*	*79-122*				
LCS (BC00345-BS1)											Prepared & Analyzed: 03/06/2020
1,1,1,2-Tetrachloroethane	11.4		ug/L	10.0		114	82-126				
1,1,1-Trichloroethane	10.6		"	10.0		106	78-136				
1,1,2,2-Tetrachloroethane	9.32		"	10.0		93.2	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.1		"	10.0		111	54-165				
1,1,2-Trichloroethane	9.70		"	10.0		97.0	82-123				
1,1-Dichloroethane	10.0		"	10.0		100	82-129				
1,1-Dichloroethylene	11.9		"	10.0		119	68-138				
1,1-Dichloropropylene	10.3		"	10.0		103	83-133				
1,2,3-Trichlorobenzene	9.49		"	10.0		94.9	76-136				
1,2,3-Trichloropropane	9.44		"	10.0		94.4	77-128				
1,2,4-Trichlorobenzene	9.50		"	10.0		95.0	76-137				
1,2,4-Trimethylbenzene	9.91		"	10.0		99.1	82-132				
1,2-Dibromo-3-chloropropane	8.68		"	10.0		86.8	45-147				
1,2-Dibromoethane	10.1		"	10.0		101	83-124				
1,2-Dichlorobenzene	9.48		"	10.0		94.8	79-123				
1,2-Dichloroethane	10.2		"	10.0		102	73-132				
1,2-Dichloropropane	9.96		"	10.0		99.6	78-126				
1,3,5-Trimethylbenzene	10.0		"	10.0		100	80-131				
1,3-Dichlorobenzene	9.34		"	10.0		93.4	86-122				
1,3-Dichloropropane	10.1		"	10.0		101	81-125				
1,4-Dichlorobenzene	10.9		"	10.0		109	85-124				
2,2-Dichloropropane	8.00		"	10.0		80.0	56-150				
2-Chlorotoluene	9.73		"	10.0		97.3	79-130				
2-Hexanone	9.69		"	10.0		96.9	51-146				
4-Chlorotoluene	9.70		"	10.0		97.0	79-128				
Acetone	7.99		"	10.0		79.9	14-150				
Benzene	10.6		"	10.0		106	85-126				
Bromobenzene	9.70		"	10.0		97.0	78-129				
Bromochloromethane	10.6		"	10.0		106	77-128				
Bromodichloromethane	10.3		"	10.0		103	79-128				

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 BC00345 - EPA 5030B											
LCS (BC00345-BS1)								Prepared & Analyzed: 03/06/2020			
Bromoform	9.46		ug/L	10.0		94.6	78-133				
Bromomethane	13.2		"	10.0		132	43-168				
Carbon tetrachloride	10.3		"	10.0		103	77-141				
Chlorobenzene	9.83		"	10.0		98.3	88-120				
Chloroethane	15.1		"	10.0		151	65-136	High Bias			
Chloroform	10.5		"	10.0		105	82-128				
Chloromethane	11.4		"	10.0		114	43-155				
cis-1,2-Dichloroethylene	10.0		"	10.0		100	83-129				
cis-1,3-Dichloropropylene	9.73		"	10.0		97.3	80-131				
Dibromochloromethane	9.87		"	10.0		98.7	80-130				
Dibromomethane	9.96		"	10.0		99.6	72-134				
Dichlorodifluoromethane	12.8		"	10.0		128	44-144				
Ethyl Benzene	10.2		"	10.0		102	80-131				
Hexachlorobutadiene	9.32		"	10.0		93.2	67-146				
Isopropylbenzene	9.78		"	10.0		97.8	76-140				
Methyl tert-butyl ether (MTBE)	10.3		"	10.0		103	76-135				
Methylene chloride	11.8		"	10.0		118	55-137				
Naphthalene	9.53		"	10.0		95.3	70-147				
n-Butylbenzene	10.2		"	10.0		102	79-132				
n-Propylbenzene	9.90		"	10.0		99.0	78-133				
o-Xylene	9.81		"	10.0		98.1	78-130				
p- & m- Xylenes	21.1		"	20.0		106	77-133				
p-Isopropyltoluene	9.86		"	10.0		98.6	81-136				
sec-Butylbenzene	10.5		"	10.0		105	79-137				
Styrene	10.7		"	10.0		107	67-132				
tert-Butylbenzene	9.53		"	10.0		95.3	77-138				
Tetrachloroethylene	8.47		"	10.0		84.7	82-131				
Toluene	10.3		"	10.0		103	80-127				
trans-1,2-Dichloroethylene	11.4		"	10.0		114	80-132				
trans-1,3-Dichloropropylene	9.73		"	10.0		97.3	78-131				
Trichloroethylene	10.4		"	10.0		104	82-128				
Trichlorofluoromethane	12.6		"	10.0		126	67-139				
Vinyl Chloride	13.9		"	10.0		139	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.30*		*"*	*10.0*		*93.0*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.0*		*"*	*10.0*		*100*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.0*		*"*	*10.0*		*100*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC00345 - EPA 5030B											
LCS (BC00345-BS2)								Prepared: 03/06/2020 Analyzed: 03/07/2020			
1,1,1,2-Tetrachloroethane	11.3		ug/L	10.0		113	82-126				
1,1,1-Trichloroethane	10.4		"	10.0		104	78-136				
1,1,2,2-Tetrachloroethane	9.24		"	10.0		92.4	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.2		"	10.0		112	54-165				
1,1,2-Trichloroethane	9.94		"	10.0		99.4	82-123				
1,1-Dichloroethane	9.98		"	10.0		99.8	82-129				
1,1-Dichloroethylene	11.8		"	10.0		118	68-138				
1,1-Dichloropropylene	10.3		"	10.0		103	83-133				
1,2,3-Trichlorobenzene	9.01		"	10.0		90.1	76-136				
1,2,3-Trichloropropane	9.38		"	10.0		93.8	77-128				
1,2,4-Trichlorobenzene	8.85		"	10.0		88.5	76-137				
1,2,4-Trimethylbenzene	9.45		"	10.0		94.5	82-132				
1,2-Dibromo-3-chloropropane	8.66		"	10.0		86.6	45-147				
1,2-Dibromoethane	9.81		"	10.0		98.1	83-124				
1,2-Dichlorobenzene	9.15		"	10.0		91.5	79-123				
1,2-Dichloroethane	10.2		"	10.0		102	73-132				
1,2-Dichloropropane	9.91		"	10.0		99.1	78-126				
1,3,5-Trimethylbenzene	9.60		"	10.0		96.0	80-131				
1,3-Dichlorobenzene	8.93		"	10.0		89.3	86-122				
1,3-Dichloropropane	10.2		"	10.0		102	81-125				
1,4-Dichlorobenzene	10.6		"	10.0		106	85-124				
2,2-Dichloropropane	7.71		"	10.0		77.1	56-150				
2-Chlorotoluene	9.36		"	10.0		93.6	79-130				
2-Hexanone	9.91		"	10.0		99.1	51-146				
4-Chlorotoluene	9.43		"	10.0		94.3	79-128				
Acetone	8.37		"	10.0		83.7	14-150				
Benzene	10.8		"	10.0		108	85-126				
Bromobenzene	9.51		"	10.0		95.1	78-129				
Bromochloromethane	10.5		"	10.0		105	77-128				
Bromodichloromethane	10.3		"	10.0		103	79-128				
Bromoform	9.42		"	10.0		94.2	78-133				
Bromomethane	12.3		"	10.0		123	43-168				
Carbon tetrachloride	10.2		"	10.0		102	77-141				
Chlorobenzene	9.78		"	10.0		97.8	88-120				
Chloroethane	11.7		"	10.0		117	65-136				
Chloroform	10.6		"	10.0		106	82-128				
Chloromethane	11.6		"	10.0		116	43-155				
cis-1,2-Dichloroethylene	10.2		"	10.0		102	83-129				
cis-1,3-Dichloropropylene	9.60		"	10.0		96.0	80-131				
Dibromochloromethane	10.0		"	10.0		100	80-130				
Dibromomethane	9.51		"	10.0		95.1	72-134				
Dichlorodifluoromethane	12.0		"	10.0		120	44-144				
Ethyl Benzene	10.1		"	10.0		101	80-131				
Hexachlorobutadiene	9.23		"	10.0		92.3	67-146				
Isopropylbenzene	9.46		"	10.0		94.6	76-140				
Methyl tert-butyl ether (MTBE)	10.3		"	10.0		103	76-135				
Methylene chloride	12.0		"	10.0		120	55-137				
Naphthalene	9.19		"	10.0		91.9	70-147				
n-Butylbenzene	9.49		"	10.0		94.9	79-132				
n-Propylbenzene	9.57		"	10.0		95.7	78-133				

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 BC00345 - EPA 5030B											
LCS (BC00345-BS2)								Prepared: 03/06/2020 Analyzed: 03/07/2020			
o-Xylene	9.76		ug/L	10.0		97.6	78-130				
p- & m- Xylenes	20.6		"	20.0		103	77-133				
p-Isopropyltoluene	9.43		"	10.0		94.3	81-136				
sec-Butylbenzene	10.1		"	10.0		101	79-137				
Styrene	10.7		"	10.0		107	67-132				
tert-Butylbenzene	9.19		"	10.0		91.9	77-138				
Tetrachloroethylene	8.16		"	10.0		81.6	82-131	Low Bias			
Toluene	10.3		"	10.0		103	80-127				
trans-1,2-Dichloroethylene	11.6		"	10.0		116	80-132				
trans-1,3-Dichloropropylene	9.73		"	10.0		97.3	78-131				
Trichloroethylene	10.1		"	10.0		101	82-128				
Trichlorofluoromethane	10.2		"	10.0		102	67-139				
Vinyl Chloride	10.3		"	10.0		103	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.31*		*"*	*10.0*		*93.1*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.92*		*"*	*10.0*		*99.2*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.74*		*"*	*10.0*		*97.4*	*79-122*				
LCS Dup (BC00345-BSD1)								Prepared: 03/06/2020 Analyzed: 03/07/2020			
1,1,1,2-Tetrachloroethane	11.2		ug/L	10.0		112	82-126		1.94	30	
1,1,1-Trichloroethane	10.2		"	10.0		102	78-136		3.83	30	
1,1,2,2-Tetrachloroethane	8.93		"	10.0		89.3	76-129		4.27	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.8		"	10.0		108	54-165		2.55	30	
1,1,2-Trichloroethane	9.76		"	10.0		97.6	82-123		0.617	30	
1,1-Dichloroethane	9.87		"	10.0		98.7	82-129		1.61	30	
1,1-Dichloroethylene	11.5		"	10.0		115	68-138		3.59	30	
1,1-Dichloropropylene	10.1		"	10.0		101	83-133		2.35	30	
1,2,3-Trichlorobenzene	8.84		"	10.0		88.4	76-136		7.09	30	
1,2,3-Trichloropropane	9.15		"	10.0		91.5	77-128		3.12	30	
1,2,4-Trichlorobenzene	8.75		"	10.0		87.5	76-137		8.22	30	
1,2,4-Trimethylbenzene	9.22		"	10.0		92.2	82-132		7.21	30	
1,2-Dibromo-3-chloropropane	8.13		"	10.0		81.3	45-147		6.54	30	
1,2-Dibromoethane	9.81		"	10.0		98.1	83-124		2.91	30	
1,2-Dichlorobenzene	8.92		"	10.0		89.2	79-123		6.09	30	
1,2-Dichloroethane	10.2		"	10.0		102	73-132		0.196	30	
1,2-Dichloropropane	9.77		"	10.0		97.7	78-126		1.93	30	
1,3,5-Trimethylbenzene	9.43		"	10.0		94.3	80-131		5.87	30	
1,3-Dichlorobenzene	8.82		"	10.0		88.2	86-122		5.73	30	
1,3-Dichloropropane	9.86		"	10.0		98.6	81-125		2.01	30	
1,4-Dichlorobenzene	10.4		"	10.0		104	85-124		4.52	30	
2,2-Dichloropropane	7.71		"	10.0		77.1	56-150		3.69	30	
2-Chlorotoluene	9.06		"	10.0		90.6	79-130		7.13	30	
2-Hexanone	9.65		"	10.0		96.5	51-146		0.414	30	
4-Chlorotoluene	9.09		"	10.0		90.9	79-128		6.49	30	
Acetone	8.31		"	10.0		83.1	14-150		3.93	30	
Benzene	10.6		"	10.0		106	85-126		0.283	30	
Bromobenzene	9.17		"	10.0		91.7	78-129		5.62	30	
Bromochloromethane	10.5		"	10.0		105	77-128		0.853	30	
Bromodichloromethane	10.0		"	10.0		100	79-128		2.76	30	
Bromoform	9.55		"	10.0		95.5	78-133		0.947	30	
Bromomethane	11.9		"	10.0		119	43-168		10.6	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 BC00345 - EPA 5030B											
LCS Dup (BC00345-BSD1)									Prepared: 03/06/2020 Analyzed: 03/07/2020		
Carbon tetrachloride	9.93		ug/L	10.0		99.3	77-141		3.56	30	
Chlorobenzene	9.42		"	10.0		94.2	88-120		4.26	30	
Chloroethane	11.5		"	10.0		115	65-136		27.1	30	
Chloroform	10.3		"	10.0		103	82-128		1.15	30	
Chloromethane	11.3		"	10.0		113	43-155		0.968	30	
cis-1,2-Dichloroethylene	9.97		"	10.0		99.7	83-129		0.300	30	
cis-1,3-Dichloropropylene	9.42		"	10.0		94.2	80-131		3.24	30	
Dibromochloromethane	9.75		"	10.0		97.5	80-130		1.22	30	
Dibromomethane	9.29		"	10.0		92.9	72-134		6.96	30	
Dichlorodifluoromethane	12.0		"	10.0		120	44-144		7.10	30	
Ethyl Benzene	9.61		"	10.0		96.1	80-131		6.05	30	
Hexachlorobutadiene	8.82		"	10.0		88.2	67-146		5.51	30	
Isopropylbenzene	9.23		"	10.0		92.3	76-140		5.79	30	
Methyl tert-butyl ether (MTBE)	10.4		"	10.0		104	76-135		0.965	30	
Methylene chloride	11.6		"	10.0		116	55-137		2.14	30	
Naphthalene	9.16		"	10.0		91.6	70-147		3.96	30	
n-Butylbenzene	9.22		"	10.0		92.2	79-132		10.1	30	
n-Propylbenzene	9.17		"	10.0		91.7	78-133		7.66	30	
o-Xylene	9.37		"	10.0		93.7	78-130		4.59	30	
p- & m- Xylenes	19.9		"	20.0		99.4	77-133		6.05	30	
p-Isopropyltoluene	9.17		"	10.0		91.7	81-136		7.25	30	
sec-Butylbenzene	9.86		"	10.0		98.6	79-137		6.67	30	
Styrene	10.4		"	10.0		104	67-132		2.65	30	
tert-Butylbenzene	8.90		"	10.0		89.0	77-138		6.84	30	
Tetrachloroethylene	8.04		"	10.0		80.4	82-131	Low Bias	5.21	30	
Toluene	9.87		"	10.0		98.7	80-127		4.55	30	
trans-1,2-Dichloroethylene	11.1		"	10.0		111	80-132		2.50	30	
trans-1,3-Dichloropropylene	9.62		"	10.0		96.2	78-131		1.14	30	
Trichloroethylene	9.89		"	10.0		98.9	82-128		5.51	30	
Trichlorofluoromethane	10.1		"	10.0		101	67-139		21.8	30	
Vinyl Chloride	10.3		"	10.0		103	58-145		30.3	30	Non-dir.
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.73*		*"*	*10.0*		*97.3*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.0*		*"*	*10.0*		*100*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.94*		*"*	*10.0*		*99.4*	*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 BC00345 - EPA 5030B											
LCS Dup (BC00345-BSD2)								Prepared: 03/06/2020 Analyzed: 03/07/2020			
1,1,1,2-Tetrachloroethane	11.2		ug/L	10.0		112	82-126		0.710	30	
1,1,1-Trichloroethane	10.3		"	10.0		103	78-136		0.290	30	
1,1,2,2-Tetrachloroethane	9.50		"	10.0		95.0	76-129		2.77	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.9		"	10.0		109	54-165		1.99	30	
1,1,2-Trichloroethane	10.0		"	10.0		100	82-123		0.702	30	
1,1-Dichloroethane	10.0		"	10.0		100	82-129		0.200	30	
1,1-Dichloroethylene	11.6		"	10.0		116	68-138		1.54	30	
1,1-Dichloropropylene	10.3		"	10.0		103	83-133		0.388	30	
1,2,3-Trichlorobenzene	9.34		"	10.0		93.4	76-136		3.60	30	
1,2,3-Trichloropropane	9.36		"	10.0		93.6	77-128		0.213	30	
1,2,4-Trichlorobenzene	9.32		"	10.0		93.2	76-137		5.17	30	
1,2,4-Trimethylbenzene	9.48		"	10.0		94.8	82-132		0.317	30	
1,2-Dibromo-3-chloropropane	8.83		"	10.0		88.3	45-147		1.94	30	
1,2-Dibromoethane	10.2		"	10.0		102	83-124		4.19	30	
1,2-Dichlorobenzene	9.27		"	10.0		92.7	79-123		1.30	30	
1,2-Dichloroethane	10.2		"	10.0		102	73-132		0.196	30	
1,2-Dichloropropane	10.1		"	10.0		101	78-126		2.29	30	
1,3,5-Trimethylbenzene	9.75		"	10.0		97.5	80-131		1.55	30	
1,3-Dichlorobenzene	9.24		"	10.0		92.4	86-122		3.41	30	
1,3-Dichloropropane	10.3		"	10.0		103	81-125		0.780	30	
1,4-Dichlorobenzene	10.7		"	10.0		107	85-124		1.31	30	
2,2-Dichloropropane	7.74		"	10.0		77.4	56-150		0.388	30	
2-Chlorotoluene	9.41		"	10.0		94.1	79-130		0.533	30	
2-Hexanone	10.1		"	10.0		101	51-146		2.20	30	
4-Chlorotoluene	9.52		"	10.0		95.2	79-128		0.950	30	
Acetone	8.46		"	10.0		84.6	14-150		1.07	30	
Benzene	10.5		"	10.0		105	85-126		2.81	30	
Bromobenzene	9.53		"	10.0		95.3	78-129		0.210	30	
Bromochloromethane	10.7		"	10.0		107	77-128		2.07	30	
Bromodichloromethane	10.3		"	10.0		103	79-128		0.0970	30	
Bromoform	9.33		"	10.0		93.3	78-133		0.960	30	
Bromomethane	12.5		"	10.0		125	43-168		1.77	30	
Carbon tetrachloride	9.93		"	10.0		99.3	77-141		2.39	30	
Chlorobenzene	9.85		"	10.0		98.5	88-120		0.713	30	
Chloroethane	11.0		"	10.0		110	65-136		5.91	30	
Chloroform	10.5		"	10.0		105	82-128		0.759	30	
Chloromethane	11.4		"	10.0		114	43-155		1.30	30	
cis-1,2-Dichloroethylene	10.2		"	10.0		102	83-129		0.687	30	
cis-1,3-Dichloropropylene	9.79		"	10.0		97.9	80-131		1.96	30	
Dibromochloromethane	10.0		"	10.0		100	80-130		0.300	30	
Dibromomethane	9.84		"	10.0		98.4	72-134		3.41	30	
Dichlorodifluoromethane	11.9		"	10.0		119	44-144		0.754	30	
Ethyl Benzene	10.1		"	10.0		101	80-131		0.494	30	
Hexachlorobutadiene	9.01		"	10.0		90.1	67-146		2.41	30	
Isopropylbenzene	9.48		"	10.0		94.8	76-140		0.211	30	
Methyl tert-butyl ether (MTBE)	10.6		"	10.0		106	76-135		2.68	30	
Methylene chloride	11.7		"	10.0		117	55-137		2.28	30	
Naphthalene	9.33		"	10.0		93.3	70-147		1.51	30	
n-Butylbenzene	10.2		"	10.0		102	79-132		7.51	30	
n-Propylbenzene	9.59		"	10.0		95.9	78-133		0.209	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 BC00345 - EPA 5030B											
LCS Dup (BC00345-BSD2)									Prepared: 03/06/2020 Analyzed: 03/07/2020		
o-Xylene	9.76		ug/L	10.0		97.6	78-130		0.00	30	
p- & m- Xylenes	20.5		"	20.0		102	77-133		0.681	30	
p-Isopropyltoluene	9.56		"	10.0		95.6	81-136		1.37	30	
sec-Butylbenzene	10.3		"	10.0		103	79-137		1.37	30	
Styrene	10.6		"	10.0		106	67-132		0.659	30	
tert-Butylbenzene	9.34		"	10.0		93.4	77-138		1.62	30	
Tetrachloroethylene	8.18		"	10.0		81.8	82-131	Low Bias	0.245	30	
Toluene	10.3		"	10.0		103	80-127		0.194	30	
trans-1,2-Dichloroethylene	11.2		"	10.0		112	80-132		3.51	30	
trans-1,3-Dichloropropylene	9.92		"	10.0		99.2	78-131		1.93	30	
Trichloroethylene	9.98		"	10.0		99.8	82-128		1.10	30	
Trichlorofluoromethane	9.42		"	10.0		94.2	67-139		7.85	30	
Vinyl Chloride	9.63		"	10.0		96.3	58-145		7.01	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.12*		*"*	*10.0*		*91.2*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.96*		*"*	*10.0*		*99.6*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.98*		*"*	*10.0*		*99.8*	*79-122*				

Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC00231 - % Solids Prep											
Blank (BC00231-BLK1)											Prepared: 03/04/2020 Analyzed: 03/06/2020
Total Dissolved Solids	ND	10.0	mg/L								

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
20C0057-01	WQ030220:0825 NP2-6	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20C0057-02	WQ030220:0830 NP2-10	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

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.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

Definitions and Other Explanations

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

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

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

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

Certification for pH is no longer offered by NYDOH ELAP.

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

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

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615
132-02 89th Ave, Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 20C0057

YOUR Information	Report To:	Invoice To:
Company: WSP USA	Company: Same	Company: WSP USA Accounting
Address: 4 Research Drive, Suite 204 Shelton, CT 06484	Address:	Address:
Phone.: 203-929-8555	Phone.:	Phone.:
Contact: Tunde Komuves-Sandor	Contact:	Contact:
E-mail: tunde.sandor@wsp.com	E-mail:	E-mail:

YOUR Project Number: 31401451.000 Task 01.00

YOUR Project Name: Rowe Industries

YOUR PO#: 31401451.000 Task 01.00

Turn-Around Time

RUSH - Next Day	
RUSH - Two Day	
RUSH - Three Day	
RUSH - Four Day	
Standard (5-7 Day)	X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below)

Scott Philbrick

Matrix Codes

S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From

New York	X
New Jersey	
Connecticut	
Pennsylvania	
Other	

Report / EDD Type (circle selections)

(Summary Report) (QA Report) NY ASP A Package (NY ASP B Package) CT RCP CT RCP DQA/DUE NJDEP Reduced Deliverables NJDKQP (Standard Excel EDD) EQuIS (Standard) NYSDEC EQuIS NJDEP SRP HazSite Other:

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
WQ03022000825 NP2-6	GW	3-2-20 8:25	VOCs 8260 full list + freon 113	3 HCl VOA
WQ03022000830 NP2-10	GW	3-2-20 8:30	VOCs 8260 full list + freon 113: TDS	3 HCl VOA; 1 plastic

Comments:

Preservation: (check all that apply)
HCl ✓ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: Cool

Special Instruction
Field Filtered ____
Lab to Filter ____

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Scott Philbrick	3-2-20 16:25				
Samples Received by / Company	**Date/Time**	**Samples Relinquished by / Company**	**Date/Time**	**Samples Received by / Company**	**Date/Time**
Samples Relinquished by / Company	**Date/Time**	**Samples Received by / Company**	**Date/Time**	**Samples Received in LAB by** Date/Time	**Temp. Received at Lab**
				K Blocker 3/2/20 16:25	4.0 Degrees C

APPENDIX II

MARCH 2020 LABORATORY ANALYTICAL REPORTS

FOR FSP&T RECOVERY WELL

Technical Report

prepared for:

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

Report Date: 03/09/2020
Client Project ID: 31401451.000 Task 01.00 Rowe Industries
York Project (SDG) No.: 20C0056

Report Date: 03/09/2020
Client Project ID: 31401451.000 Task 01.00 Rowe Industries
York Project (SDG) No.: 20C0056

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

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 02, 2020 and listed below. The project was identified as your project: **31401451.000 Task 01.00 Rowe Industries**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
20C0056-01	WQ030220:0845 NP1-1-2	Water	03/02/2020	03/02/2020

General Notes for York Project (SDG) No.: 20C0056

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 03/09/2020

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: WQ030220:0845 NP1-1-2 **York Sample ID:** 20C0056-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20C0056	31401451.000 Task 01.00 Rowe Industries	Water	March 2, 2020 8:45 am	03/02/2020

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 05:58	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 05:58	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 05:58	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 05:58	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 05:58	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 05:58	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 05:58	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 NELAC-NY10854,NELAC-NY12058,NJDEP	03/07/2020 05:58	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 05:58	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 05:58	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 05:58	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 05:58	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 05:58	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 05:58	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 05:58	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 05:58	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 05:58	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 05:58	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 05:58	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 05:58	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 05:58	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/07/2020 05:58	SS

Sample Information

Client Sample ID: WQ030220:0845 NP1-1-2 **York Sample ID:** 20C0056-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20C0056	31401451.000 Task 01.00 Rowe Industries	Water	March 2, 2020 8:45 am	03/02/2020

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 05:58	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 05:58	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 05:58	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 05:58	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 05:58	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 05:58	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 05:58	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 05:58	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 05:58	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 05:58	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 05:58	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 05:58	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 05:58	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 05:58	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 05:58	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 05:58	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 05:58	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 05:58	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 05:58	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 05:58	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 05:58	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 05:58	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 05:58	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP

Sample Information

Client Sample ID: WQ030220:0845 NP1-1-2 **York Sample ID:** 20C0056-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20C0056	31401451.000 Task 01.00 Rowe Industries	Water	March 2, 2020 8:45 am	03/02/2020

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 05:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 05:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 05:58 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 05:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 05:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 05:58 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 05:58 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 05:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 05:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 05:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 05:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
127-18-4	**Tetrachloroethylene**	**1.67**	CCV-E	ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 05:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 05:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 05:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 05:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
79-01-6	**Trichloroethylene**	**0.250**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 05:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 05:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 05:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	03/06/2020 12:30	03/07/2020 05:58 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*96.0 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*99.8 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*105 %*	*79-122*

Analytical Batch Summary

Batch ID: BC00345 **Preparation Method:** EPA 5030B **Prepared By:** MAT

YORK Sample ID	Client Sample ID	Preparation Date
20C0056-01	WQ030220:0845 NP1-1-2	03/06/20
BC00345-BLK1	Blank	03/06/20
BC00345-BS1	LCS	03/06/20
BC00345-BS2	LCS	03/06/20
BC00345-BSD1	LCS Dup	03/06/20
BC00345-BSD2	LCS Dup	03/06/20

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 BC00345 - EPA 5030B											
Blank (BC00345-BLK1)											
1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,1-Dichloropropylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,3-Dichloropropane	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
2,2-Dichloropropane	ND	0.500	"								
2-Chlorotoluene	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Chlorotoluene	ND	0.500	"								
Acetone	ND	2.00	"								
Benzene	ND	0.500	"								
Bromobenzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Bromoform	ND	0.500	"								
Bromomethane	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylene chloride	ND	2.00	"								
Naphthalene	ND	2.00	"								
n-Butylbenzene	ND	0.500	"								

Prepared: 03/06/2020 Analyzed: 03/07/2020

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC00345 - EPA 5030B											
Blank (BC00345-BLK1)											Prepared: 03/06/2020 Analyzed: 03/07/2020
n-Propylbenzene	ND	0.500	ug/L								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.92*		*"*	*10.0*		*99.2*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.93*		*"*	*10.0*		*99.3*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.4*		*"*	*10.0*		*104*	*79-122*				
LCS (BC00345-BS1)											Prepared & Analyzed: 03/06/2020
1,1,1,2-Tetrachloroethane	11.4		ug/L	10.0		114	82-126				
1,1,1-Trichloroethane	10.6		"	10.0		106	78-136				
1,1,2,2-Tetrachloroethane	9.32		"	10.0		93.2	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.1		"	10.0		111	54-165				
1,1,2-Trichloroethane	9.70		"	10.0		97.0	82-123				
1,1-Dichloroethane	10.0		"	10.0		100	82-129				
1,1-Dichloroethylene	11.9		"	10.0		119	68-138				
1,1-Dichloropropylene	10.3		"	10.0		103	83-133				
1,2,3-Trichlorobenzene	9.49		"	10.0		94.9	76-136				
1,2,3-Trichloropropane	9.44		"	10.0		94.4	77-128				
1,2,4-Trichlorobenzene	9.50		"	10.0		95.0	76-137				
1,2,4-Trimethylbenzene	9.91		"	10.0		99.1	82-132				
1,2-Dibromo-3-chloropropane	8.68		"	10.0		86.8	45-147				
1,2-Dibromoethane	10.1		"	10.0		101	83-124				
1,2-Dichlorobenzene	9.48		"	10.0		94.8	79-123				
1,2-Dichloroethane	10.2		"	10.0		102	73-132				
1,2-Dichloropropane	9.96		"	10.0		99.6	78-126				
1,3,5-Trimethylbenzene	10.0		"	10.0		100	80-131				
1,3-Dichlorobenzene	9.34		"	10.0		93.4	86-122				
1,3-Dichloropropane	10.1		"	10.0		101	81-125				
1,4-Dichlorobenzene	10.9		"	10.0		109	85-124				
2,2-Dichloropropane	8.00		"	10.0		80.0	56-150				
2-Chlorotoluene	9.73		"	10.0		97.3	79-130				
2-Hexanone	9.69		"	10.0		96.9	51-146				
4-Chlorotoluene	9.70		"	10.0		97.0	79-128				
Acetone	7.99		"	10.0		79.9	14-150				
Benzene	10.6		"	10.0		106	85-126				
Bromobenzene	9.70		"	10.0		97.0	78-129				
Bromochloromethane	10.6		"	10.0		106	77-128				
Bromodichloromethane	10.3		"	10.0		103	79-128				

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 BC00345 - EPA 5030B											
LCS (BC00345-BS1)								Prepared & Analyzed: 03/06/2020			
Bromoform	9.46		ug/L	10.0		94.6	78-133				
Bromomethane	13.2		"	10.0		132	43-168				
Carbon tetrachloride	10.3		"	10.0		103	77-141				
Chlorobenzene	9.83		"	10.0		98.3	88-120				
Chloroethane	15.1		"	10.0		151	65-136	High Bias			
Chloroform	10.5		"	10.0		105	82-128				
Chloromethane	11.4		"	10.0		114	43-155				
cis-1,2-Dichloroethylene	10.0		"	10.0		100	83-129				
cis-1,3-Dichloropropylene	9.73		"	10.0		97.3	80-131				
Dibromochloromethane	9.87		"	10.0		98.7	80-130				
Dibromomethane	9.96		"	10.0		99.6	72-134				
Dichlorodifluoromethane	12.8		"	10.0		128	44-144				
Ethyl Benzene	10.2		"	10.0		102	80-131				
Hexachlorobutadiene	9.32		"	10.0		93.2	67-146				
Isopropylbenzene	9.78		"	10.0		97.8	76-140				
Methyl tert-butyl ether (MTBE)	10.3		"	10.0		103	76-135				
Methylene chloride	11.8		"	10.0		118	55-137				
Naphthalene	9.53		"	10.0		95.3	70-147				
n-Butylbenzene	10.2		"	10.0		102	79-132				
n-Propylbenzene	9.90		"	10.0		99.0	78-133				
o-Xylene	9.81		"	10.0		98.1	78-130				
p- & m- Xylenes	21.1		"	20.0		106	77-133				
p-Isopropyltoluene	9.86		"	10.0		98.6	81-136				
sec-Butylbenzene	10.5		"	10.0		105	79-137				
Styrene	10.7		"	10.0		107	67-132				
tert-Butylbenzene	9.53		"	10.0		95.3	77-138				
Tetrachloroethylene	8.47		"	10.0		84.7	82-131				
Toluene	10.3		"	10.0		103	80-127				
trans-1,2-Dichloroethylene	11.4		"	10.0		114	80-132				
trans-1,3-Dichloropropylene	9.73		"	10.0		97.3	78-131				
Trichloroethylene	10.4		"	10.0		104	82-128				
Trichlorofluoromethane	12.6		"	10.0		126	67-139				
Vinyl Chloride	13.9		"	10.0		139	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.30*		*"*	*10.0*		*93.0*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.0*		*"*	*10.0*		*100*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.0*		*"*	*10.0*		*100*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC00345 - EPA 5030B											
LCS (BC00345-BS2)									Prepared: 03/06/2020 Analyzed: 03/07/2020		
1,1,1,2-Tetrachloroethane	11.3		ug/L	10.0		113	82-126				
1,1,1-Trichloroethane	10.4		"	10.0		104	78-136				
1,1,2,2-Tetrachloroethane	9.24		"	10.0		92.4	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.2		"	10.0		112	54-165				
1,1,2-Trichloroethane	9.94		"	10.0		99.4	82-123				
1,1-Dichloroethane	9.98		"	10.0		99.8	82-129				
1,1-Dichloroethylene	11.8		"	10.0		118	68-138				
1,1-Dichloropropylene	10.3		"	10.0		103	83-133				
1,2,3-Trichlorobenzene	9.01		"	10.0		90.1	76-136				
1,2,3-Trichloropropane	9.38		"	10.0		93.8	77-128				
1,2,4-Trichlorobenzene	8.85		"	10.0		88.5	76-137				
1,2,4-Trimethylbenzene	9.45		"	10.0		94.5	82-132				
1,2-Dibromo-3-chloropropane	8.66		"	10.0		86.6	45-147				
1,2-Dibromoethane	9.81		"	10.0		98.1	83-124				
1,2-Dichlorobenzene	9.15		"	10.0		91.5	79-123				
1,2-Dichloroethane	10.2		"	10.0		102	73-132				
1,2-Dichloropropane	9.91		"	10.0		99.1	78-126				
1,3,5-Trimethylbenzene	9.60		"	10.0		96.0	80-131				
1,3-Dichlorobenzene	8.93		"	10.0		89.3	86-122				
1,3-Dichloropropane	10.2		"	10.0		102	81-125				
1,4-Dichlorobenzene	10.6		"	10.0		106	85-124				
2,2-Dichloropropane	7.71		"	10.0		77.1	56-150				
2-Chlorotoluene	9.36		"	10.0		93.6	79-130				
2-Hexanone	9.91		"	10.0		99.1	51-146				
4-Chlorotoluene	9.43		"	10.0		94.3	79-128				
Acetone	8.37		"	10.0		83.7	14-150				
Benzene	10.8		"	10.0		108	85-126				
Bromobenzene	9.51		"	10.0		95.1	78-129				
Bromochloromethane	10.5		"	10.0		105	77-128				
Bromodichloromethane	10.3		"	10.0		103	79-128				
Bromoform	9.42		"	10.0		94.2	78-133				
Bromomethane	12.3		"	10.0		123	43-168				
Carbon tetrachloride	10.2		"	10.0		102	77-141				
Chlorobenzene	9.78		"	10.0		97.8	88-120				
Chloroethane	11.7		"	10.0		117	65-136				
Chloroform	10.6		"	10.0		106	82-128				
Chloromethane	11.6		"	10.0		116	43-155				
cis-1,2-Dichloroethylene	10.2		"	10.0		102	83-129				
cis-1,3-Dichloropropylene	9.60		"	10.0		96.0	80-131				
Dibromochloromethane	10.0		"	10.0		100	80-130				
Dibromomethane	9.51		"	10.0		95.1	72-134				
Dichlorodifluoromethane	12.0		"	10.0		120	44-144				
Ethyl Benzene	10.1		"	10.0		101	80-131				
Hexachlorobutadiene	9.23		"	10.0		92.3	67-146				
Isopropylbenzene	9.46		"	10.0		94.6	76-140				
Methyl tert-butyl ether (MTBE)	10.3		"	10.0		103	76-135				
Methylene chloride	12.0		"	10.0		120	55-137				
Naphthalene	9.19		"	10.0		91.9	70-147				
n-Butylbenzene	9.49		"	10.0		94.9	79-132				
n-Propylbenzene	9.57		"	10.0		95.7	78-133				

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 BC00345 - EPA 5030B											
LCS (BC00345-BS2)								Prepared: 03/06/2020 Analyzed: 03/07/2020			
o-Xylene	9.76		ug/L	10.0		97.6	78-130				
p- & m- Xylenes	20.6		"	20.0		103	77-133				
p-Isopropyltoluene	9.43		"	10.0		94.3	81-136				
sec-Butylbenzene	10.1		"	10.0		101	79-137				
Styrene	10.7		"	10.0		107	67-132				
tert-Butylbenzene	9.19		"	10.0		91.9	77-138				
Tetrachloroethylene	8.16		"	10.0		81.6	82-131	Low Bias			
Toluene	10.3		"	10.0		103	80-127				
trans-1,2-Dichloroethylene	11.6		"	10.0		116	80-132				
trans-1,3-Dichloropropylene	9.73		"	10.0		97.3	78-131				
Trichloroethylene	10.1		"	10.0		101	82-128				
Trichlorofluoromethane	10.2		"	10.0		102	67-139				
Vinyl Chloride	10.3		"	10.0		103	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.31*		*"*	*10.0*		*93.1*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.92*		*"*	*10.0*		*99.2*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.74*		*"*	*10.0*		*97.4*	*79-122*				
LCS Dup (BC00345-BSD1)								Prepared: 03/06/2020 Analyzed: 03/07/2020			
1,1,1,2-Tetrachloroethane	11.2		ug/L	10.0		112	82-126		1.94	30	
1,1,1-Trichloroethane	10.2		"	10.0		102	78-136		3.83	30	
1,1,2,2-Tetrachloroethane	8.93		"	10.0		89.3	76-129		4.27	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.8		"	10.0		108	54-165		2.55	30	
1,1,2-Trichloroethane	9.76		"	10.0		97.6	82-123		0.617	30	
1,1-Dichloroethane	9.87		"	10.0		98.7	82-129		1.61	30	
1,1-Dichloroethylene	11.5		"	10.0		115	68-138		3.59	30	
1,1-Dichloropropylene	10.1		"	10.0		101	83-133		2.35	30	
1,2,3-Trichlorobenzene	8.84		"	10.0		88.4	76-136		7.09	30	
1,2,3-Trichloropropane	9.15		"	10.0		91.5	77-128		3.12	30	
1,2,4-Trichlorobenzene	8.75		"	10.0		87.5	76-137		8.22	30	
1,2,4-Trimethylbenzene	9.22		"	10.0		92.2	82-132		7.21	30	
1,2-Dibromo-3-chloropropane	8.13		"	10.0		81.3	45-147		6.54	30	
1,2-Dibromoethane	9.81		"	10.0		98.1	83-124		2.91	30	
1,2-Dichlorobenzene	8.92		"	10.0		89.2	79-123		6.09	30	
1,2-Dichloroethane	10.2		"	10.0		102	73-132		0.196	30	
1,2-Dichloropropane	9.77		"	10.0		97.7	78-126		1.93	30	
1,3,5-Trimethylbenzene	9.43		"	10.0		94.3	80-131		5.87	30	
1,3-Dichlorobenzene	8.82		"	10.0		88.2	86-122		5.73	30	
1,3-Dichloropropane	9.86		"	10.0		98.6	81-125		2.01	30	
1,4-Dichlorobenzene	10.4		"	10.0		104	85-124		4.52	30	
2,2-Dichloropropane	7.71		"	10.0		77.1	56-150		3.69	30	
2-Chlorotoluene	9.06		"	10.0		90.6	79-130		7.13	30	
2-Hexanone	9.65		"	10.0		96.5	51-146		0.414	30	
4-Chlorotoluene	9.09		"	10.0		90.9	79-128		6.49	30	
Acetone	8.31		"	10.0		83.1	14-150		3.93	30	
Benzene	10.6		"	10.0		106	85-126		0.283	30	
Bromobenzene	9.17		"	10.0		91.7	78-129		5.62	30	
Bromochloromethane	10.5		"	10.0		105	77-128		0.853	30	
Bromodichloromethane	10.0		"	10.0		100	79-128		2.76	30	
Bromoform	9.55		"	10.0		95.5	78-133		0.947	30	
Bromomethane	11.9		"	10.0		119	43-168		10.6	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 BC00345 - EPA 5030B											
LCS Dup (BC00345-BSD1)									Prepared: 03/06/2020 Analyzed: 03/07/2020		
Carbon tetrachloride	9.93		ug/L	10.0		99.3	77-141		3.56	30	
Chlorobenzene	9.42		"	10.0		94.2	88-120		4.26	30	
Chloroethane	11.5		"	10.0		115	65-136		27.1	30	
Chloroform	10.3		"	10.0		103	82-128		1.15	30	
Chloromethane	11.3		"	10.0		113	43-155		0.968	30	
cis-1,2-Dichloroethylene	9.97		"	10.0		99.7	83-129		0.300	30	
cis-1,3-Dichloropropylene	9.42		"	10.0		94.2	80-131		3.24	30	
Dibromochloromethane	9.75		"	10.0		97.5	80-130		1.22	30	
Dibromomethane	9.29		"	10.0		92.9	72-134		6.96	30	
Dichlorodifluoromethane	12.0		"	10.0		120	44-144		7.10	30	
Ethyl Benzene	9.61		"	10.0		96.1	80-131		6.05	30	
Hexachlorobutadiene	8.82		"	10.0		88.2	67-146		5.51	30	
Isopropylbenzene	9.23		"	10.0		92.3	76-140		5.79	30	
Methyl tert-butyl ether (MTBE)	10.4		"	10.0		104	76-135		0.965	30	
Methylene chloride	11.6		"	10.0		116	55-137		2.14	30	
Naphthalene	9.16		"	10.0		91.6	70-147		3.96	30	
n-Butylbenzene	9.22		"	10.0		92.2	79-132		10.1	30	
n-Propylbenzene	9.17		"	10.0		91.7	78-133		7.66	30	
o-Xylene	9.37		"	10.0		93.7	78-130		4.59	30	
p- & m- Xylenes	19.9		"	20.0		99.4	77-133		6.05	30	
p-Isopropyltoluene	9.17		"	10.0		91.7	81-136		7.25	30	
sec-Butylbenzene	9.86		"	10.0		98.6	79-137		6.67	30	
Styrene	10.4		"	10.0		104	67-132		2.65	30	
tert-Butylbenzene	8.90		"	10.0		89.0	77-138		6.84	30	
Tetrachloroethylene	8.04		"	10.0		80.4	82-131	Low Bias	5.21	30	
Toluene	9.87		"	10.0		98.7	80-127		4.55	30	
trans-1,2-Dichloroethylene	11.1		"	10.0		111	80-132		2.50	30	
trans-1,3-Dichloropropylene	9.62		"	10.0		96.2	78-131		1.14	30	
Trichloroethylene	9.89		"	10.0		98.9	82-128		5.51	30	
Trichlorofluoromethane	10.1		"	10.0		101	67-139		21.8	30	
Vinyl Chloride	10.3		"	10.0		103	58-145		30.3	30	Non-dir.
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.73*		*"*	*10.0*		*97.3*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.0*		*"*	*10.0*		*100*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.94*		*"*	*10.0*		*99.4*	*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 BC00345 - EPA 5030B											
LCS Dup (BC00345-BSD2)								Prepared: 03/06/2020 Analyzed: 03/07/2020			
1,1,1,2-Tetrachloroethane	11.2		ug/L	10.0		112	82-126		0.710	30	
1,1,1-Trichloroethane	10.3		"	10.0		103	78-136		0.290	30	
1,1,2,2-Tetrachloroethane	9.50		"	10.0		95.0	76-129		2.77	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.9		"	10.0		109	54-165		1.99	30	
1,1,2-Trichloroethane	10.0		"	10.0		100	82-123		0.702	30	
1,1-Dichloroethane	10.0		"	10.0		100	82-129		0.200	30	
1,1-Dichloroethylene	11.6		"	10.0		116	68-138		1.54	30	
1,1-Dichloropropylene	10.3		"	10.0		103	83-133		0.388	30	
1,2,3-Trichlorobenzene	9.34		"	10.0		93.4	76-136		3.60	30	
1,2,3-Trichloropropane	9.36		"	10.0		93.6	77-128		0.213	30	
1,2,4-Trichlorobenzene	9.32		"	10.0		93.2	76-137		5.17	30	
1,2,4-Trimethylbenzene	9.48		"	10.0		94.8	82-132		0.317	30	
1,2-Dibromo-3-chloropropane	8.83		"	10.0		88.3	45-147		1.94	30	
1,2-Dibromoethane	10.2		"	10.0		102	83-124		4.19	30	
1,2-Dichlorobenzene	9.27		"	10.0		92.7	79-123		1.30	30	
1,2-Dichloroethane	10.2		"	10.0		102	73-132		0.196	30	
1,2-Dichloropropane	10.1		"	10.0		101	78-126		2.29	30	
1,3,5-Trimethylbenzene	9.75		"	10.0		97.5	80-131		1.55	30	
1,3-Dichlorobenzene	9.24		"	10.0		92.4	86-122		3.41	30	
1,3-Dichloropropane	10.3		"	10.0		103	81-125		0.780	30	
1,4-Dichlorobenzene	10.7		"	10.0		107	85-124		1.31	30	
2,2-Dichloropropane	7.74		"	10.0		77.4	56-150		0.388	30	
2-Chlorotoluene	9.41		"	10.0		94.1	79-130		0.533	30	
2-Hexanone	10.1		"	10.0		101	51-146		2.20	30	
4-Chlorotoluene	9.52		"	10.0		95.2	79-128		0.950	30	
Acetone	8.46		"	10.0		84.6	14-150		1.07	30	
Benzene	10.5		"	10.0		105	85-126		2.81	30	
Bromobenzene	9.53		"	10.0		95.3	78-129		0.210	30	
Bromochloromethane	10.7		"	10.0		107	77-128		2.07	30	
Bromodichloromethane	10.3		"	10.0		103	79-128		0.0970	30	
Bromoform	9.33		"	10.0		93.3	78-133		0.960	30	
Bromomethane	12.5		"	10.0		125	43-168		1.77	30	
Carbon tetrachloride	9.93		"	10.0		99.3	77-141		2.39	30	
Chlorobenzene	9.85		"	10.0		98.5	88-120		0.713	30	
Chloroethane	11.0		"	10.0		110	65-136		5.91	30	
Chloroform	10.5		"	10.0		105	82-128		0.759	30	
Chloromethane	11.4		"	10.0		114	43-155		1.30	30	
cis-1,2-Dichloroethylene	10.2		"	10.0		102	83-129		0.687	30	
cis-1,3-Dichloropropylene	9.79		"	10.0		97.9	80-131		1.96	30	
Dibromochloromethane	10.0		"	10.0		100	80-130		0.300	30	
Dibromomethane	9.84		"	10.0		98.4	72-134		3.41	30	
Dichlorodifluoromethane	11.9		"	10.0		119	44-144		0.754	30	
Ethyl Benzene	10.1		"	10.0		101	80-131		0.494	30	
Hexachlorobutadiene	9.01		"	10.0		90.1	67-146		2.41	30	
Isopropylbenzene	9.48		"	10.0		94.8	76-140		0.211	30	
Methyl tert-butyl ether (MTBE)	10.6		"	10.0		106	76-135		2.68	30	
Methylene chloride	11.7		"	10.0		117	55-137		2.28	30	
Naphthalene	9.33		"	10.0		93.3	70-147		1.51	30	
n-Butylbenzene	10.2		"	10.0		102	79-132		7.51	30	
n-Propylbenzene	9.59		"	10.0		95.9	78-133		0.209	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 BC00345 - EPA 5030B											
LCS Dup (BC00345-BSD2)									Prepared: 03/06/2020 Analyzed: 03/07/2020		
o-Xylene	9.76		ug/L	10.0		97.6	78-130		0.00	30	
p- & m- Xylenes	20.5		"	20.0		102	77-133		0.681	30	
p-Isopropyltoluene	9.56		"	10.0		95.6	81-136		1.37	30	
sec-Butylbenzene	10.3		"	10.0		103	79-137		1.37	30	
Styrene	10.6		"	10.0		106	67-132		0.659	30	
tert-Butylbenzene	9.34		"	10.0		93.4	77-138		1.62	30	
Tetrachloroethylene	8.18		"	10.0		81.8	82-131	Low Bias	0.245	30	
Toluene	10.3		"	10.0		103	80-127		0.194	30	
trans-1,2-Dichloroethylene	11.2		"	10.0		112	80-132		3.51	30	
trans-1,3-Dichloropropylene	9.92		"	10.0		99.2	78-131		1.93	30	
Trichloroethylene	9.98		"	10.0		99.8	82-128		1.10	30	
Trichlorofluoromethane	9.42		"	10.0		94.2	67-139		7.85	30	
Vinyl Chloride	9.63		"	10.0		96.3	58-145		7.01	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.12*		*"*	*10.0*		*91.2*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.96*		*"*	*10.0*		*99.6*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.98*		*"*	*10.0*		*99.8*	*79-122*				

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
20C0056-01	WQ030220:0845 NP1-1-2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

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.

CCV-E The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

Definitions and Other Explanations

* Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.

ND NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)

RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.

LOQ LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.

LOD LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.

MDL METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.

Reported to This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.

NR Not reported

RPD Relative Percent Difference

Wet The data has been reported on an as-received (wet weight) basis

Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

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

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

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

Certification for pH is no longer offered by NYDOH ELAP.

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

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

A0182 L0038 20A0763 A0959 B0915 G0184 G0195

York Analytical Laboratories, Inc.
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clientservices@yorklab.com
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Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 20C0056

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: WSP USA	Company: Same	Company: WSP USA Accounting	31401451.000 Task 01.00	RUSH - Next Day
Address: 4 Research Drive, Suite 204 Shelton, CT 06484	Address:	Address:	**YOUR Project Name**: Rowe Industries	RUSH - Two Day
Phone.: 203-929-8555	Phone.:	Phone.:		RUSH - Three Day
Contact: Tunde Komuves-Sandor	Contact:	Contact:		RUSH - Four Day
E-mail: tunde.sandor@wsp.com	E-mail:	E-mail:	**YOUR PO#:** 31401451.000 Task 01.00	**Standard (5-7 Day)** X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below)

Scott Philbrick

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

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
WQ030220:0845NP1-1-2	GW	3-2-20 8:45	VOCs 8260 full list + freon 113	3 HCl VOA

Comments:

Preservation: (check all that apply)
HCl ✓ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: Cool

Special Instruction
Field Filtered ____
Lab to Filter ____

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Scott Philbrick	3-2-20 16:25				
Samples Received by / Company	**Date/Time**	**Samples Relinquished by / Company**	**Date/Time**	**Samples Received by / Company**	**Date/Time**
Samples Relinquished by / Company	**Date/Time**	**Samples Received by / Company**	**Date/Time**	**Samples Received in LAB by** / Date/Time	**Temp. Received at Lab**
				KBlackman 3/2/20 1625	4.0 Degrees C