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 February 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 February 1, 2020 through February 29, 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

(February 1, 2020 through February 29, 2020)

1. Hours of operation during the reporting period:	120 hours (17.2%)
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:	88,153 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:	<0.01 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

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PUMP AND TREAT SYSTEM STATUS SUMMARY

The following table summarizes recovery well parameters for the operating recovery wells.

Well	Volume pumped (gal)	Total VOC Concentration (ug/L)
RW-2 [1/]	62,797	0.3
FRW-1 [2/]	0	33.8
FRW-2 [2]	0	3.1
FRW-3 [2/]	0	12.8
FRW-4 [2/]	0	<0.5

[1/] The above table summarizes the parameters for RW-2 from February 1 to February 29, 2020. The RW-2 flow meter totalizer value is lower than the effluent flow total because the RW-2 flow meter was not advancing properly from February 1 to February 4. RW-2 was not operating from February 4 to February 28 because of a leak in the EQ tank. Upon restarting on February 28, the issue corrected itself.

[2/] The above table summarizes the parameters for the FRWs from February 4, 2020 to February 29, 2020.

On February 4, 2020, the fault condition for the RW-2 drive was reset following an alarm condition that occurred for that pump (drive) on January 27, 2020. A leak in the EQ tank was observed; therefore, the system was shut down and the water level in the tank was partially drained until the tank could be repaired. On February 28, 2020, the EQ tank was repaired and tested successfully. The FSP&T system operation with RW-2 resumed without issue. No leaks from the tank were observed. The FRWs will remain off following enhanced reductive dechlorination injection work conducted in the FDSA from February 24 to 27, 2020. A leak was observed coming from the roof of the FSP&T building. Roof repair work has been scheduled for March. The remaining O&M activities for February 2020 are included in Table 1.

SUMMARY OF SAMPLING ACTIVITIES

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

- Monthly groundwater samples were collected from RW-2, FRW-1, FRW-2, FRW-3 and FRW-4 on February 4, 2020;

Tables 3 to 7 present a summary of the quality results for water samples collected from downgradient recovery well RW-2 and FRW-1, 2, 3, and 4. Graphs 3 to 7 present tetrachloroethylene (PCE) concentrations for samples collected from RW-2 and FRW-1, 2, 3, and 4 for the last 24 months. Laboratory analytical reports for the water samples collected from the recovery wells are 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 10 years.

PCE concentrations in the groundwater samples collected from FRW-1 and FRW-3 were above the ARAR in February. The PCE concentration in the groundwater samples collected at FRW-2 and 4 were below the ARAR in February. The TCE, cis-DCE, TCA and VC concentrations in the groundwater samples collected at FRW-1, 2, 3 and 4 were below their respective ARARs in February, as applicable.

A groundwater sample from RW-2 will continue to be collected and analyzed monthly. The FRWs will be sampled in accordance with the 2019 FDSA In-situ Groundwater Remediation Work Plan.

FUTURE O&M ACTIVITIES

O&M activities scheduled for March 2020 include:

- Repairing the roof of the FSP&T building; and,
- normal bi-weekly/monthly O&M activities for RW-2 and the treatment system.

MMG:cmm
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\February\Draft Status Report - Feb 2020.docx

TABLES

TABLE 1

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

MAINTENANCE LOG
(February 1, 2020 through February 29, 2020)

Date	Time	System Changes/Modifications	Personnel
2/4/20		Reset the RW-2 drive from the pump fault condition observed on 1/27/20. Restarted RW-2 without issue.	SP
		Cleaned FRW-1, 2, 3 and 4 and FP&T effluent flow meter paddle wheels.	SP
		A small leak was observed from the EQ tank. The system was shut down and the EQ tank was pumped to a low water level until the tank repair can be completed.	SP
2/28/20		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
	11:00 AM	Repaired EQ tank and tested system operation. No leaks observed. Resumed RW-2 and FSP&T system operation without issue. FRWs to remain off following FDSA injection work earlier this week.	Burt, Cisco, SP
		Leak in roof of FSP&T building observed. Contacted roof repair company.	SP

Notes:

SP	Scott Philbrick, WSP USA
Burt	Burt Process (Tank Repair)
Cisco	Cisco Geotechnical (water management for tank repair)

H:\NABIS\2020\Monthly Rpts\February\Table 1 Maintenance Record Feb 2020.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

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 February 28, 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

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 exceedence 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.

TABLE 4

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

Recovery Well FRW-1 VOC Concentrations, micrograms per liter

FRW-1										
Date	**PCE**	**TCE**	**cis12DCE**	**VC**	**TCA**	**11DCA**	**124TCB**	**Toluene**	**Bromomethane**	**Acetone**
ARARs	**5**	**5**	**5**	**2 [1/]**	**5**	**5**	**5 [1/]**	**5**	**5 [1/]**	**NE**
1-Feb-18	**63**	**7.4**	**28**	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
1-Mar-18	**110**	2.7	1.8	ND<0.5	1.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off between March 15 and 26, 2018 and March 27 and 29, 2018										
2-Apr-18	**83**	0.31 J	ND<0.5	ND<0.5	0.25 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.2 C,S,J
The FRWs were off between April 17 and 23, 2018 and April 26 and May 2, 2018										
2-May-18	**97**	0.86	0.46 J	ND<0.5	0.75	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from May 20 to June 5, 2018 and June 18 to 20, 2018										
20-Jun-18	**25**	0.76	0.68	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
2-Jul-18	**22**	0.66	0.60	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from July 2 to September 21, 2018										
28-Aug-18 [3/4]	**7.26**	4.16	**9.05 C**	0.220	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	11.1 I
21-Sep-18	**20.2**	1.25	2.43	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
5-Oct-18	1.19	ND<0.5	0.280	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from October 27 to October 29, 2018										
1-Nov-18	**5.12**	0.780	3.30	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
5-Dec-18	**43.0 C,S**	1.06	0.74	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
3-Jan-19	**18.8**	0.450	0.290	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from January 5 to January 15, 2019										
1-Feb-19	**61.2**	0.550	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from February 18 to March 1, 2019										
19-Mar-19	**13.4 I**	0.770	0.450	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
2-Apr-19	**48.9**	1.28	2.16	0.260	0.230	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from May 1, 2019 to May 3, 2019										
6-May-19	**32.2**	0.24	0.250	ND<0.5	ND<0.5	ND<0.5	0.470	0.210	ND<0.5	ND<2
4-Jun-19	**11.3 C**	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
FRW-1 was off from June 18, 2019 to October 15, 2019										
2-Jul-19	**26.4**	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
1-Aug-19	**9.39 Q**	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
5-Sep-19	**21.3**	0.360	0.390	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.30 C
3-Oct-19	**10.7**	1.67	4.47	1.46	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
FRW-1 was off from October 17, 2019 to November 14, 2019										
4-Nov-19	3.55	2.33	**5.63**	**2.99**	ND<0.5	ND<0.5	ND<0.5	0.290	ND<0.5	ND<2
5-Dec-19	**8.10**	0.270	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.40 C
The FRWs were off from December 10, 2019 to December 11, 2019 and December 25 to January 7, 2020										
7-Jan-20	**78.0**	0.620	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
4-Feb-20	**30.2 Q**	0.900	1.19	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.18
The FRWs were turned off indefinitely on February 4, 2020 for FDSA injection work										

1. NYSDEC ambient water quality standards for these compounds are presented because site-specific ARARs for these compounds were not established.
2. The FP&T system was not operating because of a malfunctioning transfer pump. The FRWs were turned on manually to collect a groundwater sample.
3. Tetrahydrofuran, a common industrial solvent for polyvinyl chloride (PVC) and a component in varnishes, and a popular solvent used in laboratories was detected in the groundwater sample at 278 ug/L. However it was not detected in the laboratory blank or the laboratory duplicates. This is not a compound typically detected in groundwater samples from the site. Turned wells on only long enough to collect sample.
4. Other non-target COCs (tert-butyl alcohol, 2-butanone and/or acetone) were detected in the August 28, 2018 sample. For the case of acetone, this is a common laboratory artifact. The detections of the remaining non-target COCs is most likely attributed to collecting the sample that remained in close contact with PVC pipes for an extended time (i.e. from July 2 to August 28, 2018). Other than acetone, non-target COCs were not detected to any significant degree in the groundwater sample collected on September 21, 2018.

J : Analyte detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
B: Method blank contamination, the associated method blank contains the target analyte at a reportable level.
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 (average RF>20%).
I = ICV-E: The value reported is estimated. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
Q = QL-02: The analyte is outside Laboratory Recovery limits due to the analyte behavior using the reference method. The reference method has certain limitations with respect to analytes of this nature.
ND: Not detected
ARARs -

Comments:
As of September 1, 2011 the water samples are analyzed by York Analytical Laboratories, Inc. The laboratory typically uses a reporting limit (RL) for water of 5 ug/l for VOC. York reports

PCE: Tetracholoethylene
cis12DCE: cis-1,2-Dichloroethene
TCA: 1,1,1-Trichloroethane
124TCB: 1,2,4-Trimethylbenzene
TCE: Trichloroethene
VC: Vinyl Chloride
11DCA: 1,1-Dichloroethane

TABLE 5

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

Recovery Well FRW-2 VOC Concentrations, micrograms per liter

FRW-2								
Date	**PCE**	**TCE**	**cis12DCE**	**VC**	**TCA**	**Toluene**	**2-Hexanone**	**Acetone**
ARARs	**5**	**5**	**5**	**2** [1/]	**5**	**5**	**NE**	**NE**
1-Feb-18	**37**	3.2	1.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.8
1-Mar-18	**48**	0.68	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off between March 15 and 26, 2018 and March 27 and 29, 2018								
2-Apr-18	**140**	1.2	0.36 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off between April 17 and 23, 2018 and April 26 and May 2, 2018								
2-May-18	**29**	0.92	0.29 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4.6
The FRWs were off from May 20 to June 5, 2018 and June 18 to 20, 2018								
20-Jun-18	3.8	1.4	0.44 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
2-Jul-18	3.8	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from July 2 to September 21, 2018								
28-Aug-18 [3/4]	ND<0.5	0.300	**29.0 C**	**2.48**	ND<0.5	0.510	ND<0.5	ND<2
21-Sep-18	**11.9**	1.83	**14.5**	0.730	ND<0.5	ND<0.5	ND<0.5	2.06
5-Oct-18	1.86	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from October 27 to October 29, 2018								
1-Nov-18	3.20	0.610	0.950	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
5-Dec-18	**19.1 C,S**	0.590	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.00 C
3-Jan-19	**13.8**	0.670	1.69	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from January 5 to January 15, 2019								
1-Feb-19	**16.2**	0.980	1.00	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from February 18 to March 1, 2019								
19-Mar-19	**15.2 I**	0.950	1.54	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
2-Apr-19	**13.8 Q**	0.470	0.990	ND<0.5	ND<0.5	0.280	ND<0.5	ND<2
The FRWs were off from May 1, 2019 to May 3, 2019								
6-May-19	3.46	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
4-Jun-19	3.75 C	0.980	1.46	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
2-Jul-19	4.11	0.290	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
1-Aug-19	1.58 Q	ND<0.5	0.800 C	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
5-Sep-19	2.18	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
FRW-2 was not operating from approximately September 10, 2019 to October 15, 2019								
15-Oct-19	**5.86 C**	0.360	0.670	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.23
4-Nov-19	**5.06**	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.220	ND<0.5	ND<2
4-Dec-19	3.72	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from December 10, 2019 to December 11, 2019 and December 25 to January 7, 2020								
7-Jan-20	3.92	0.710	1.16	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
4-Feb-20	2.77 Q	ND<0.5	0.350	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were turned off indefinitely on February 4, 2020 for FDSA injection work								

ARARs - Applicable Relevant and Appropriate Requirements for aquifer restoration established for the Site.

1. NYSDEC ambient water quality standards for these compounds are presented because site-specific ARARs for these compounds were not established.

2. The FP&T system was not operating because of a malfunctioning transfer pump. The FRWs were turned on manually to collect a groundwater sample.

3. Tetrahydrofuran, a common industrial solvent for polyvinyl chloride (PVC) and a component in varnishes, and a popular solvent used in laboratories was detected in the groundwater sample at 204 ug/L. However it was not detected in the laboratory blank or the laboratory duplicates. This is not a compound typically detected in groundwater samples from the site. Turned wells on only temporarily to collect groundwater sample.

4. Other non-target COCs (tert-butyl alcohol, 2-butanone and/or acetone) were detected in the August 28, 2018 sample. For the case of acetone, this is a common laboratory artifact. The detections of the remaining non-target COCs is most likely attributed to collecting the sample that remained in close contact with PVC pipes for an extended time (i.e. from July 2 to August 28, 2018). Other than acetone, non-target COCs were not detected to any significant degree in the groundwater sample collected on September 21, 2018.

J : Analyte detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.

B: Method blank contamination, the associated method blank contains the target analyte at a reportable level.

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 (average RF>20%)..

I = ICV-E: The value reported is estimated. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).

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

ND: Not detected

Comments:

As of September 1, 2011 the water samples are analyzed by York Analytical Laboratories, Inc. The laboratory typically uses a reporting limit (RL) for water of 5 ug/l for VOC. York reports detections below 0.5 ug/l as an estimated value; these values are below the RL but greater than or equal to the method detection limit (MDL). A value reported below the RL but above the MDL is considered an estimated value and flagged with a "J". The calibration curve was adjusted to a reporting limit of 0.5 ug/l during October 2011.

PCE: Tetrachloroethylene
cis12DCE: cis-1,2-Dichloroethene
TCA: 1,1,1-Trichloroethane
TCE: Trichloroethene
VC: Vinyl chloride

TABLE 6

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

Recovery Well FRW-3 VOC Concentrations, micrograms per liter

FRW-3												
Date	**PCE**	**TCE**	**cis12DCE**	**VC**	**11DCA**	**TCA**	**135TMB**	**IPB**	**NPB**	**Toluene**	**2-Hexanone**	**Acetone**
ARARs	**5**	**5**	**5**	**2** [1/]	**5**	**5**	**5** [1/]	**5** [1/]	**5** [1/]	**5**	**NE**	**NE**
1-Feb-18	**22**	2.0	3.3	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.32 J	ND<0.5	ND<0.5	ND<0.5	ND<2
1-Mar-18	**120**	**7.9**	**18**	ND<0.5	0.26 J	0.65	ND<0.5	0.49 J	0.34 J	ND<0.5	ND<0.5	ND<2
The FRWs were off between March 15 and 26, 2018 and March 27 and 29, 2018												
2-Apr-18	**170**	4.5	**7.9**	0.25 C,J	ND<0.5	0.71	ND<0.5	0.20 J	ND<0.5	ND<0.5	ND<0.5	1.2 C,S,J
The FRWs were off between April 17 and 23, 2018 and April 26 and May 2, 2018												
2-May-18	**140**	**9.4**	**11**	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.2
The FRWs were off from May 20 to June 5, 2018 and June 18 to 20, 2018												
20-Jun-18	**39**	**6.8**	4.3	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.5 J
2-Jul-18	**49**	1.4	1.4	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
The FRWs were off from July 2 to September 21, 2018												
28-Aug-18 [3/]	**6.16**	0.990	**20.3 C**	0.840	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.77 I
21-Sep-18	**19.6**	2.99	**19.8**	**2.04**	ND<0.5	ND<0.5	ND<0.5	0.220 J	0.300 J	ND<0.5	ND<0.5	1.53
5-Oct-18	0.730	0.530	4.31	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
The FRWs were off from October 27 to October 29, 2018												
1-Nov-18	2.89	0.810	3.37	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
5-Dec-18	**109 C,S**	**6.83**	**6.98**	ND<0.5	ND<0.5	0.570	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.97 C
3-Jan-19	**89.4**	2.41	**7.30**	ND<0.5	ND<0.5	0.420	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from January 5 to January 15, 2019												
1-Feb-19	**76.4**	1.41	3.69	ND<0.5	ND<0.5	0.330	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
FRW-3 was off from February 18 to April 30, 2019												
19-Mar-19 [4/]	**38.8 I**	1.03	3.93	ND<0.5	ND<0.5	0.240	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
29-Apr-19 [4/]	**20.2 I**	0.550	1.17	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.24
The FRWs were off from May 1, 2019 to May 3, 2019												
6-May-19	**44.4**	1.20	2.82	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.200	0.500	ND<0.5	ND<2
4-Jun-19	**32.7 C**	0.940	1.55	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
2-Jul-19	**19.4**	0.900	2.81	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.490	ND<0.5	ND<2
1-Aug-19	**10.7 Q**	0.620	3.38 C	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.35	ND<0.5	ND<2
5-Sep-19	**6.57**	0.360	1.64	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
3-Oct-19	**5.77**	0.300	2.02	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
4-Nov-19	**12.2**	0.510	1.90	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
5-Dec-19	**9.83**	0.400	0.830	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.50 C
The FRWs were off from December 10, 2019 to December 11, 2019 and December 25 to January 7, 2020												
7-Jan-20	**55.70**	2.27	4.68	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.28
4-Feb-20	**11.9 Q**	0.310	0.590	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
The FRWs were turned off indefinitely on February 4, 2020 for FDSA injection work												

ARARs - Applicable Relevant and Appropriate Requirements for aquifer restoration established for the Site.

1. NYSDEC ambient water quality standards for these compounds are presented because site-specific ARARs for these compounds were not established.

2. The FP&T system was not operating because of a malfunctioning transfer pump. The FRWs were turned on manually to collect a groundwater sample.

3. Other non-target COCs (tert-butyl alcohol, 2-butanone and/or acetone) were detected in the August 28, 2018 sample. For the case of acetone, this is a common laboratory artifact. The detections of the remaining non-target COCs is most likely attributed to collecting the sample that remained in close contact with PVC pipes for an extended time (i.e. from July 2 to August 28, 2018). Other than acetone, non-target COCs were not detected to any significant degree in the groundwater sample collected on September 21, 2018.

4. The FRW-3 pump is inoperable; therefore, the groundwater sample was collected using low-flow sampling techniques during the March and April 2019 groundwater sampling events.

J : Analyte detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.

B: Method blank contamination, the associated method blank contains the target analyte at a reportable level.

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 (average RF>20%).

I = ICV-E: The value reported is estimated. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).

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

ND: Not detected

Comments:

As of September 1, 2011 the water samples are analyzed by York Analytical Laboratories, Inc. The laboratory typically uses a reporting limit (RL) for water of 5 ug/l for VOC. York reports detections below 0.5 ug/l as an estimated value; these values are below the RL but greater than or equal to the method detection limit (MDL). A value reported below the RL but above the MDL is considered an estimated value and flagged with a "J". The calibration curve was adjusted to a reporting limit of 0.5 ug/l during October 2011.

PCE: Tetrachloroethylene
cis12DCE: cis-1,2-Dichloroethene
11DCA: 1,1-Dichloroethane
135TMB: 1,3,5-Trimethylbenzene
NPB: n-Propyl benzene
TCE: Trichloroethene
VC: Vinyl Chloride
TCA: 1,1,1-Trichloroethane
IPB: Isopropyl benzene

TABLE 7

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

Recovery Well FRW-4 VOC Concentrations, micrograms per liter

FRW-4						
Date	**PCE**	**TCE**	**cis12DCE**	**VC**	**TCA**	**Acetone**
ARARs	**5**	**5**	**5**	**2** [1/]	**5**	**NE**
1-Feb-18	**21**	2.5	**7.0**	ND<0.5	0.27 J	2.5 S
1-Mar-18	3.0	ND<0.5	0.47 J	ND<0.5	ND<0.5	ND<2
The FRWs were off between March 15 and 26, 2018 and March 27 and 29, 2018						
2-Apr-18	3.2	0.32 J	1.0	ND<0.5	ND<0.5	ND<2
The FRWs were off between April 17 and 23, 2018 and April 26 and May 2, 2018						
2-May-18	**19**	ND<0.5	1.1	ND<0.5	ND<0.5	ND<2
The FRWs were off from May 20 to June 5, 2018 and June 18 to 20, 2018						
20-Jun-18	1.4	0.22 J	ND<0.5	ND<0.5	ND<0.5	1.5 J
2-Jul-18	1.7	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from July 2 to September 21, 2018						
28-Aug-18 [3/4]	ND<0.5	0.450	4.95 C	ND<0.5	ND<0.5	10.3 I
21-Sep-18	4.21	1.02	1.38	ND<0.5	ND<0.5	ND<2
5-Oct-18	0.260	ND<0.5	0.630	ND<0.5	ND<0.5	1.23 C,S
The FRWs were off from October 27 to October 29, 2018						
1-Nov-18	0.870	0.280	1.49	ND<0.5	ND<0.5	ND<2
5-Dec-18	2.36 C,S	0.45	0.650	ND<0.5	ND<0.5	ND<2
3-Jan-19	1.28	ND<0.5	0.960	ND<0.5	ND<0.5	ND<2
The FRWs were off from January 5 to January 15, 2019						
1-Feb-19	1.22	ND<0.5	0.200	ND<0.5	ND<0.5	ND<2
The FRWs were off from February 18 to March 1, 2019						
19-Mar-19	1.02 I	ND<0.5	0.490	ND<0.5	ND<0.5	ND<2
2-Apr-19	1.38 Q	ND<0.5	2.05	ND<0.5	ND<0.5	ND<2
The FRWs were off from May 1, 2019 to May 3, 2019						
6-May-19	0.800	ND<0.5	0.230	ND<0.5	ND<0.5	ND<2
4-Jun-19	0.620 C	ND<0.5	1.01	ND<0.5	ND<0.5	ND<2
2-Jul-19	0.480	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
1-Aug-19	0.450 Q	ND<0.5	0.210 C	ND<0.5	ND<0.5	ND<2
5-Sep-19	0.820	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
3-Oct-19	1.07	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
4-Nov-19	1.12	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
5-Dec-19	0.400	ND<0.5	ND<0.5	ND<0.5	ND<0.5	279 C - Note 2
The FRWs were off from December 10, 2019 to December 11, 2019 and December 25 to January 7, 2020						
7-Jan-20	1.41	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.10
4-Feb-20	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were turned off indefinitely on February 4, 2020 for FDSA injection work						

ARARs - Applicable Relevant and Appropriate Requirements for aquifer restoration established for the Site.

1. NYSDEC ambient water quality standards for these compounds are presented because site-specific ARARs for these compounds were not established.

2. The high acetone concentration detected in FRW-4 on December 5, 2019 is suspected to be a laboratory contaminant. The concentration of acetone from the groundwater sample collected from FRW-4 on Jan. 7, 2020, was 1.10 ug/L.

3. Tetrahydrofuran, a common industrial solvent for polyvinyl chloride (PVC) and a component in varnishes, and a popular solvent used in laboratories was detected in the groundwater sample at 308 ug/L. However it was not detected in the laboratory blank or the laboratory duplicates. This is not a compound typically detected in groundwater samples from the site.

4. Other non-target COCs (tert-butyl alcohol, 2-butanone and/or acetone) were detected in the August 28, 2018 sample. For the case of acetone, this is a common laboratory artifact. The detections of the remaining non-target COCs is most likely attributed to collecting the sample that remained in close contact with PVC pipes for an extended time (i.e. from July 2 to August 28, 2018). Other than acetone, non-target COCs were not detected to any significant degree in the groundwater sample collected on September 21, 2018.

J : Analyte detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.

B: Method blank contamination, the associated method blank contains the target analyte at a reportable level.

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 (average RF>20%).

I = ICV-E: The value reported is estimated. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).

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

ND: Not detected

Comments:

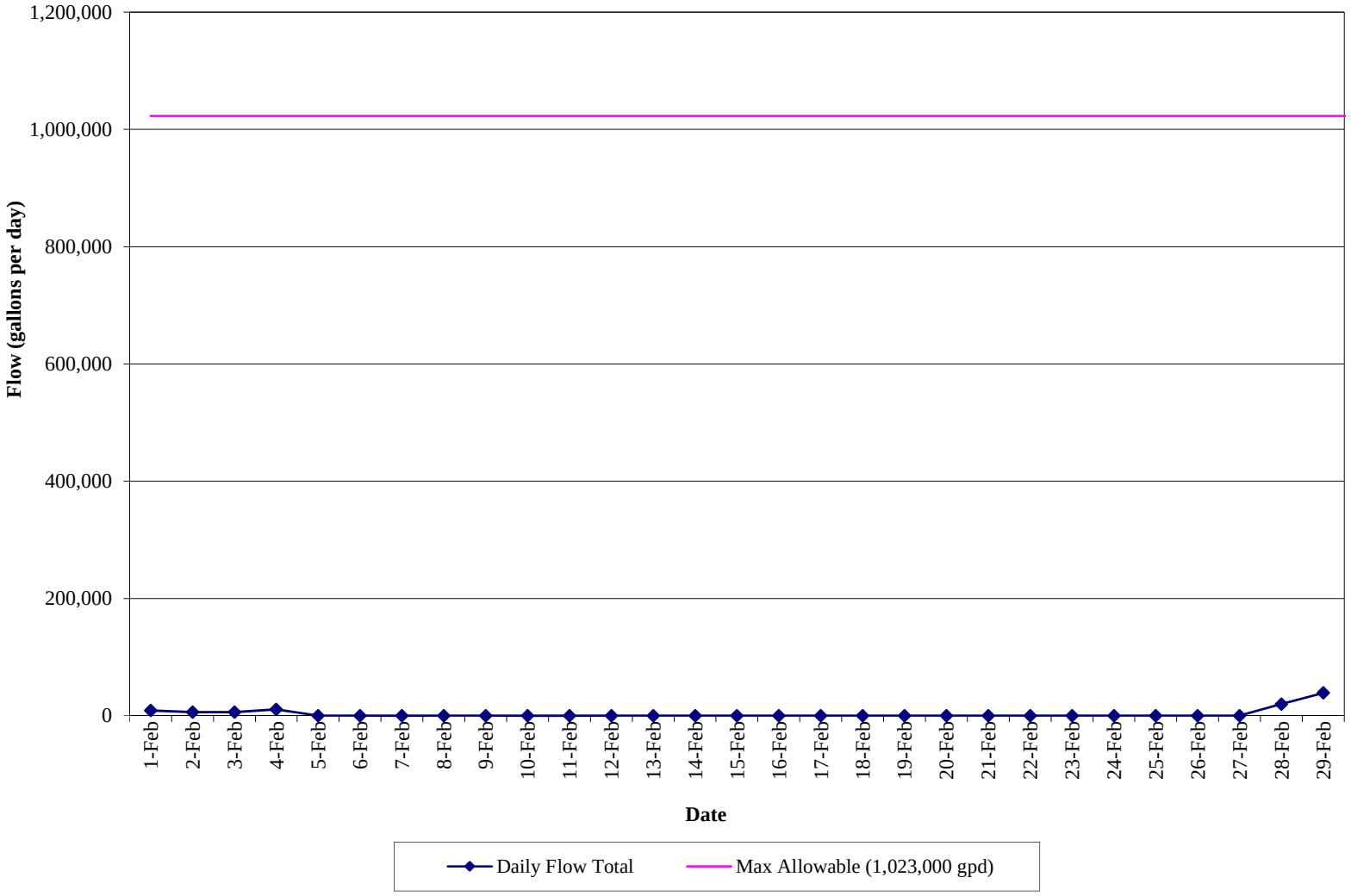
As of September 1, 2011 the water samples are analyzed by York Analytical Laboratories, Inc. The laboratory typically uses a reporting limit (RL) for water of 5 ug/l for VOC. York reports detections below 0.5 ug/l as an estimated value; these values are below the RL but greater than or equal to the method detection limit (MDL). A value reported below the RL but above the MDL is considered an estimated value and flagged with a "J". The calibration curve was adjusted to a reporting limit of 0.5 ug/l during October 2011.

PCE: Tetrachloroethylene
TCE: Trichloroethene
cis12DCE: cis-1,2-Dichloroethene
VC: Vinyl Chloride
TCA: 1,1,1-Trichloroethane

GRAPHS

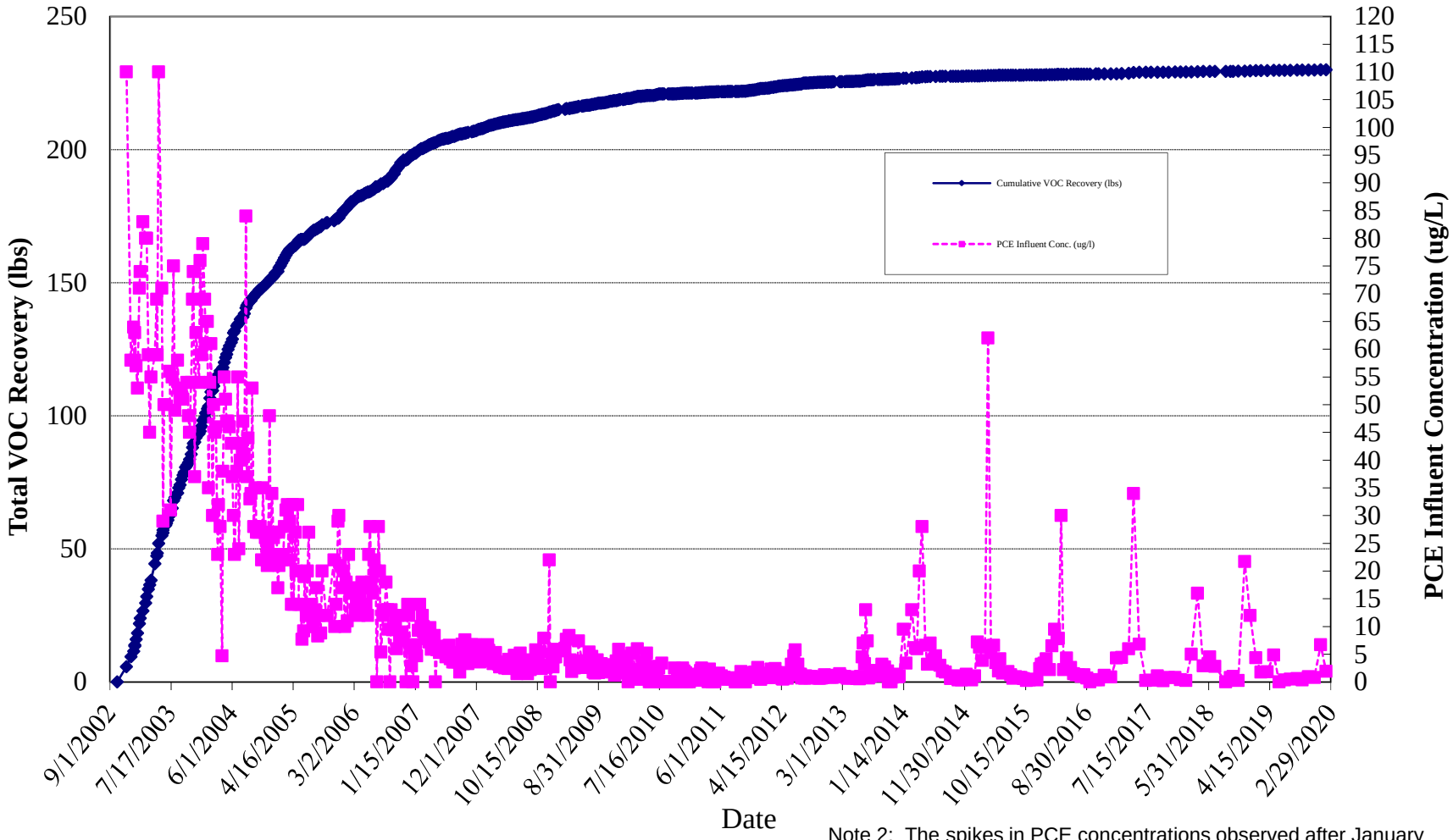
GRAPH 1
GROUNDWATER REMEDIAL ACTION
ROWE INDUSTRIES SUPERFUND SITE
SAG HARBOR, NEW YORK

Effluent Flow Data
(February 1, 2020 to February 29, 2020)



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



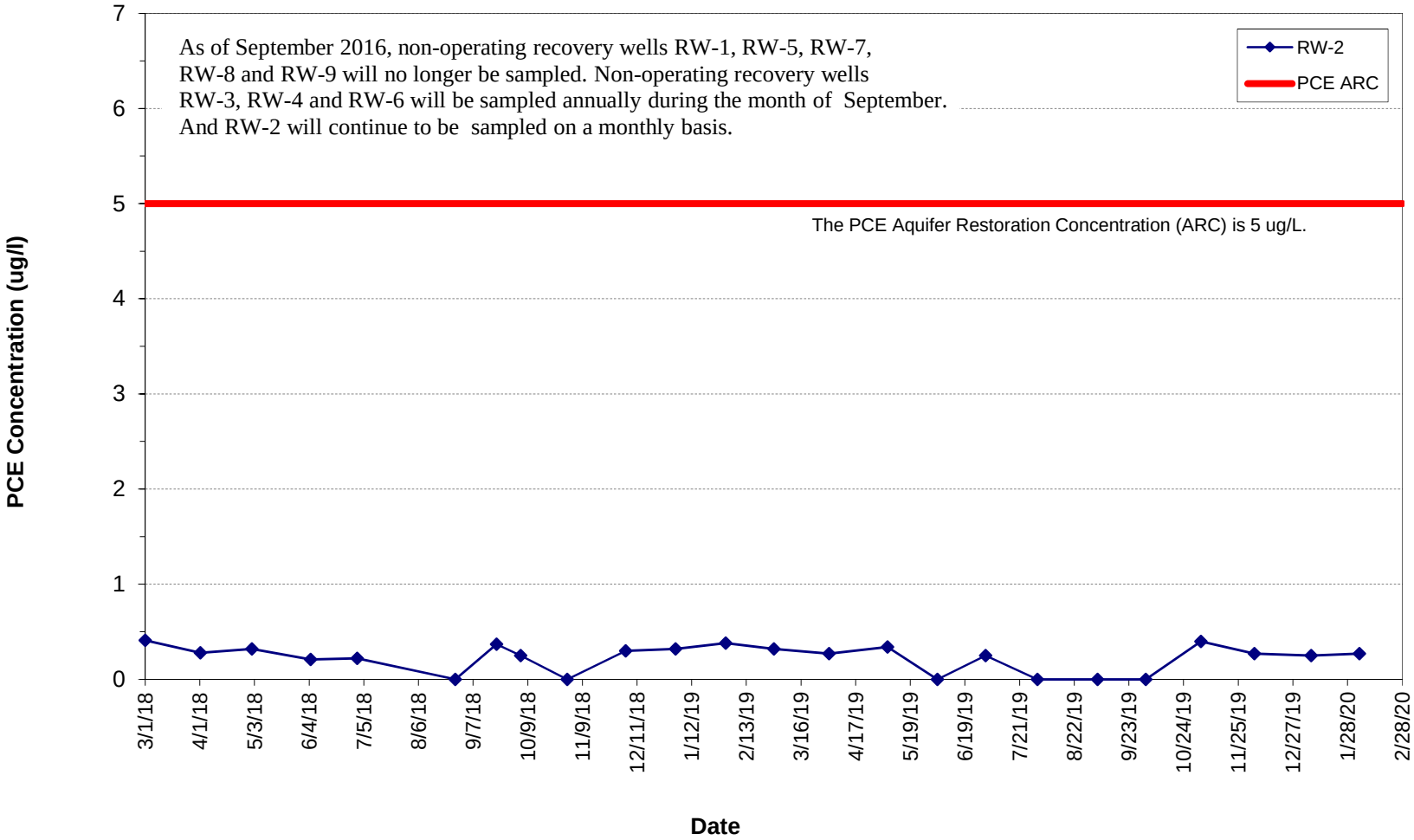
Note 1 : After September 22, 2008, the water recovered from the FP&T System is included in the results shown in this graph.

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.

GRAPH 3

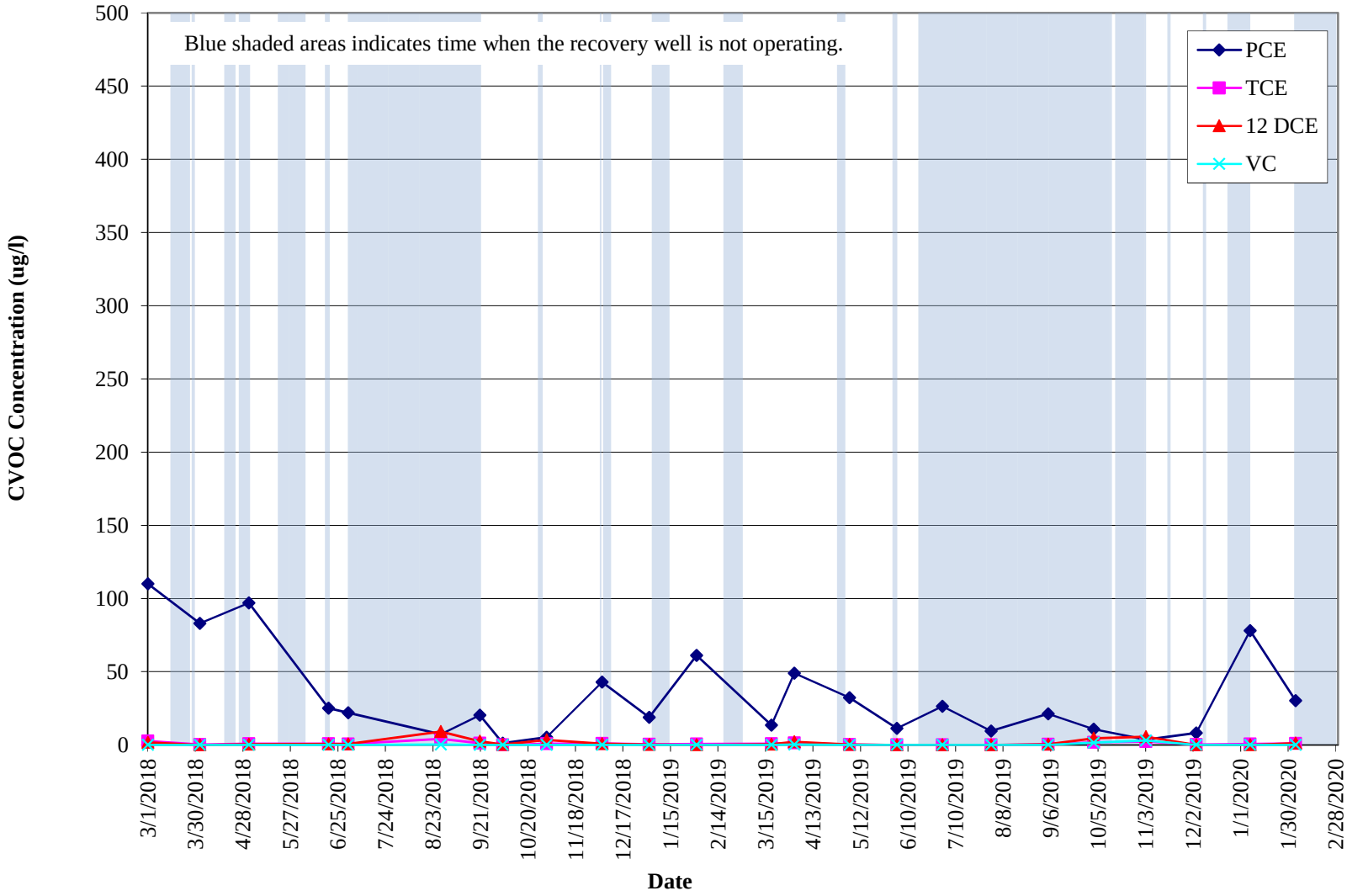
GROUNDWATER REMEDIAL ACTION
ROWE INDUSTRIES SUPERFUND SITE
SAG HARBOR, NEW YORK

FSP&T Recovery Well PCE Concentration



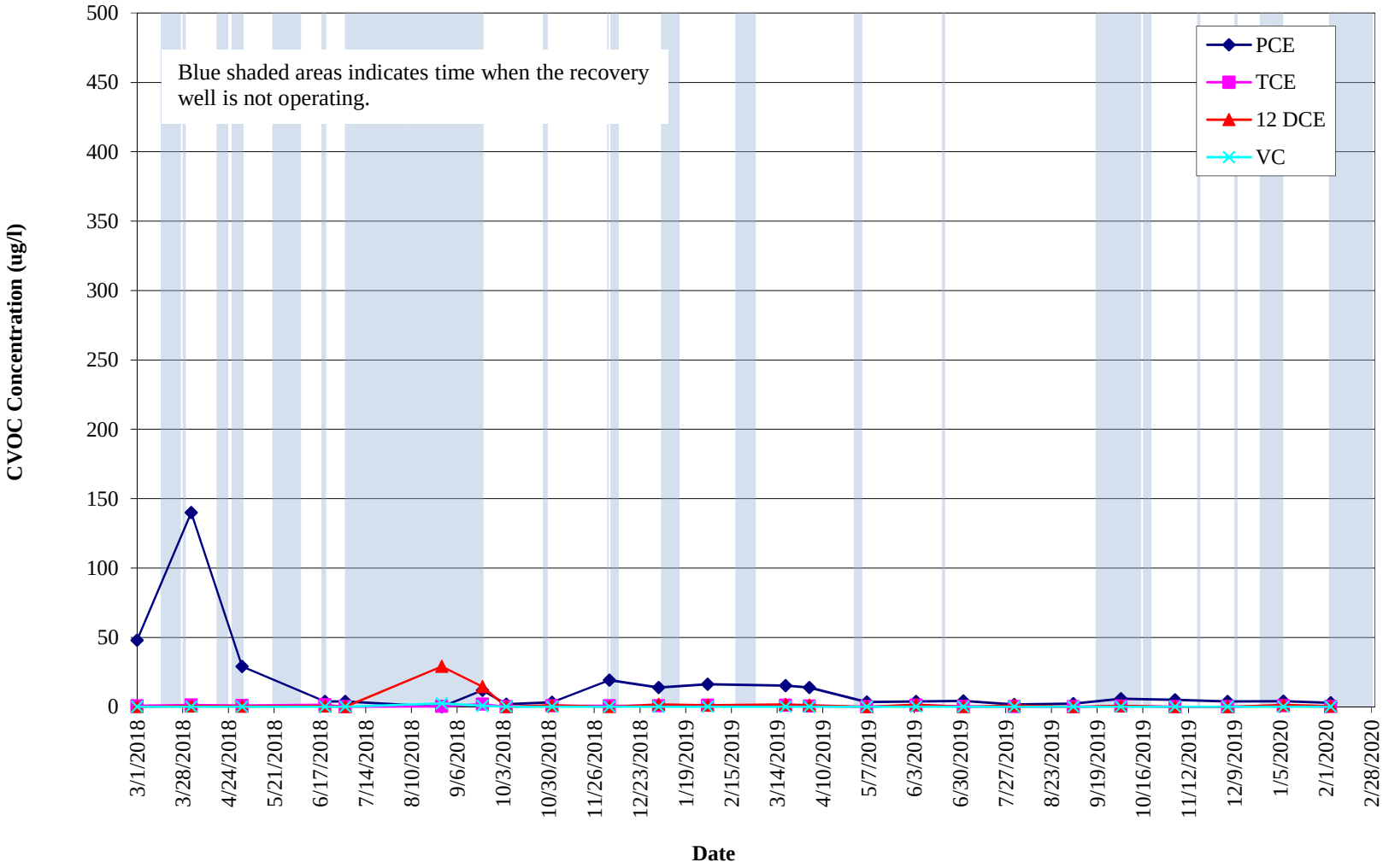
GRAPH 4
GROUNDWATER REMEDIAL ACTION
ROWE INDUSTRIES SUPERFUND SITE
SAG HARBOR, NEW YORK

FP&T Recovery Well VOC Concentrations for FRW-1



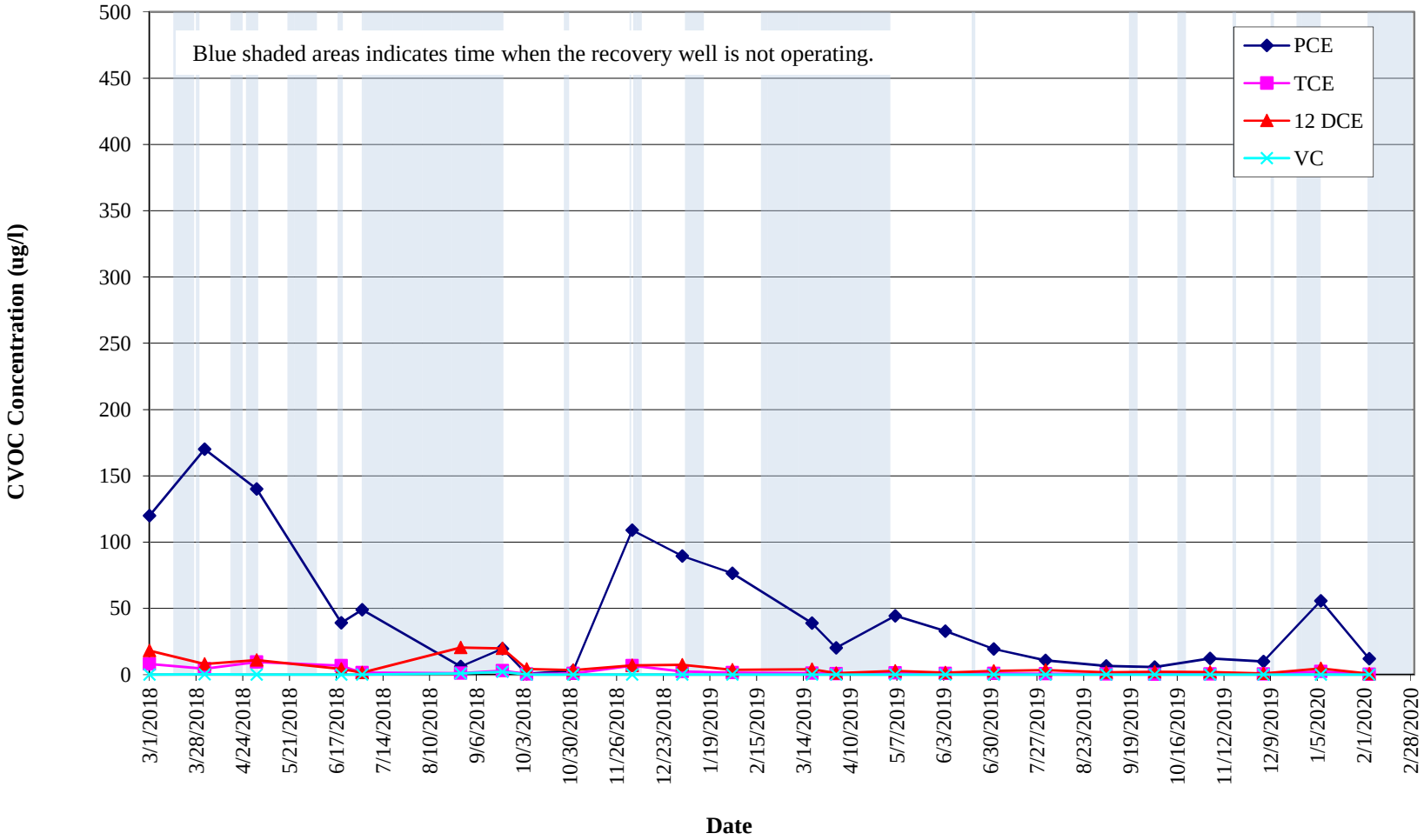
GRAPH 5
GROUNDWATER REMEDIAL ACTION
ROWE INDUSTRIES SUPERFUND SITE
SAG HARBOR, NEW YORK

FP&T Recovery Well VOC Concentrations for FRW-2



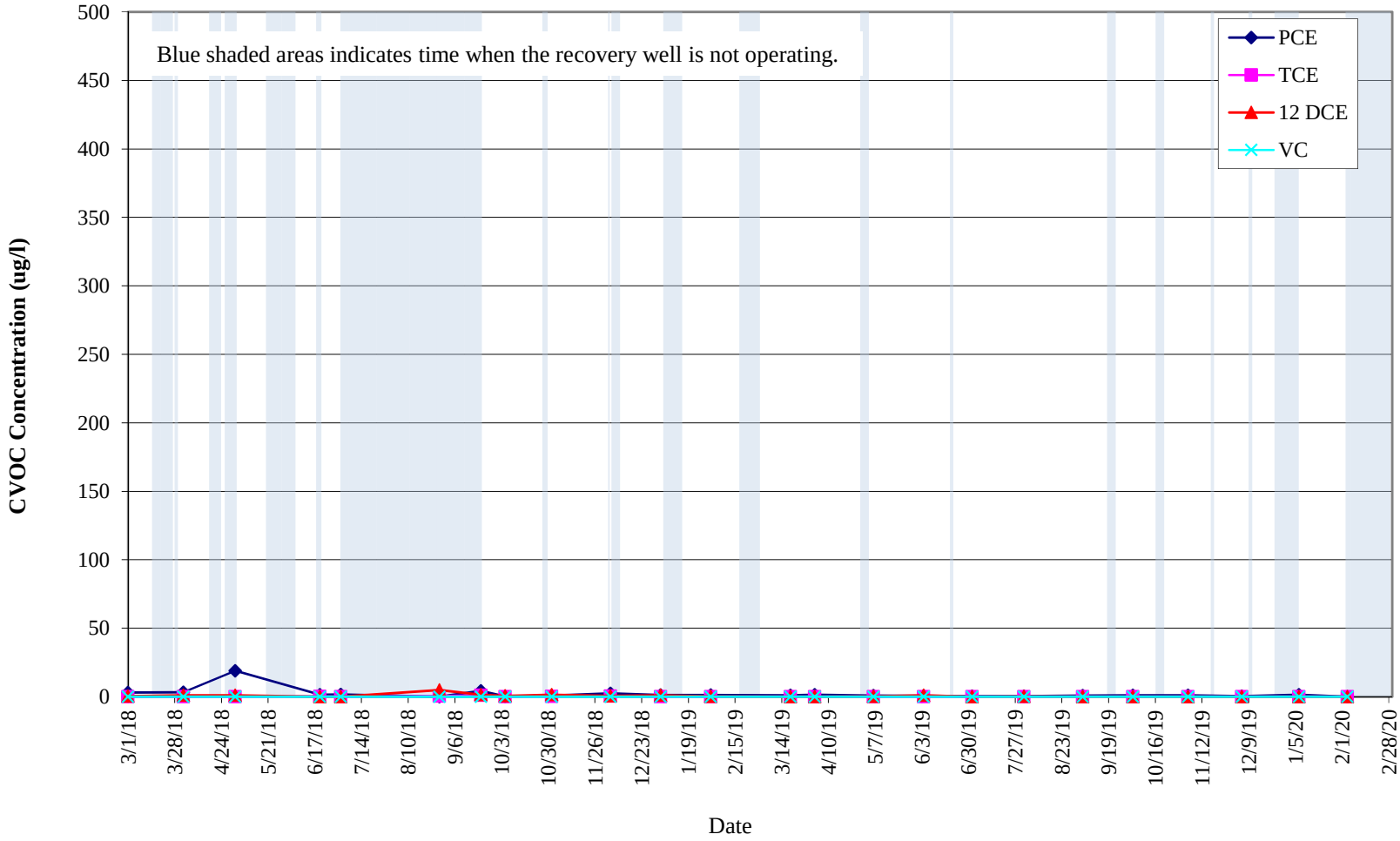
GRAPH 6
GROUNDWATER REMEDIAL ACTION
ROWE INDUSTRIES SUPERFUND SITE
SAG HARBOR, NEW YORK

FP&T Recovery Well VOC Concentrations for FRW-3



GRAPH 7
GROUNDWATER REMEDIAL ACTION
ROWE INDUSTRIES SUPERFUND SITE
SAG HARBOR, NEW YORK

FP&T Recovery Well VOC Concentrations for FRW-4



APPENDIX I

FEBURARY 2020 LABORATORY ANALYTICAL REPORTS

FOR FSP&T SYSTEM

Technical Report

prepared for:

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

Report Date: 02/11/2020
Client Project ID: 31401451.000 Task 01.00 Rowe Industries
York Project (SDG) No.: 20B0085

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: 02/11/2020
Client Project ID: 31401451.000 Task 01.00 Rowe Industries
York Project (SDG) No.: 20B0085

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 February 04, 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
20B0085-01	WQ020420: 1020NP2-6	Water	02/04/2020	02/04/2020
20B0085-02	WQ020420: 1025NP2-10	Water	02/04/2020	02/04/2020

General Notes for York Project (SDG) No.: 20B0085

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: 02/11/2020

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: WQ020420: 1020NP2-6 **York Sample ID:** 20B0085-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0085	31401451.000 Task 01.00 Rowe Industries	Water	February 4, 2020 10:20 am	02/04/2020

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:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:30	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:30	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:30	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:30	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:30	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:30	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:30	LLJ
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP	02/08/2020 04:30	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:30	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:30	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:30	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:30	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:30	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:30	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:30	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:30	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:30	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:30	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:30	LLJ
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:30	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:30	LLJ
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:30	LLJ

Sample Information

Client Sample ID: WQ020420: 1020NP2-6 **York Sample ID:** 20B0085-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0085	31401451.000 Task 01.00 Rowe Industries	Water	February 4, 2020 10:20 am	02/04/2020

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:	02/07/2020 12:12	02/08/2020 04:30	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:30	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:30	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:30	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:30	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:30	LLJ NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:30	LLJ NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:30	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:30	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:30	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:30	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:30	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:30	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:30	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:30	LLJ 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:	02/07/2020 12:12	02/08/2020 04:30	LLJ 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:	02/07/2020 12:12	02/08/2020 04:30	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:30	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:30	LLJ NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:30	LLJ NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:30	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:30	LLJ NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:30	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP

Sample Information

Client Sample ID: WQ020420: 1020NP2-6 **York Sample ID:** 20B0085-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0085	31401451.000 Task 01.00 Rowe Industries	Water	February 4, 2020 10:20 am	02/04/2020

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:	02/07/2020 12:12	02/08/2020 04:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
127-18-4	**Tetrachloroethylene**	**1.91**	QL-02	ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	LLJ

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*111 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*98.4 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*104 %*	*79-122*

Sample Information

Client Sample ID: WQ020420: 1025NP2-10 **York Sample ID:** 20B0085-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0085	31401451.000 Task 01.00 Rowe Industries	Water	February 4, 2020 10:25 am	02/04/2020

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:	02/07/2020 12:12	02/08/2020 04:59 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:59 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:59 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:59 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:59 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:59 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:59 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:59 NELAC-NY10854,NELAC-NY12058,NJDEP	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:59 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:59 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:59 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:59 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:59 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:59 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:59 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:59 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:59 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:59 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:59 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:59 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:59 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:59 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 04:59 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ

Sample Information

Client Sample ID: WQ020420: 1025NP2-10 **York Sample ID:** 20B0085-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0085	31401451.000 Task 01.00 Rowe Industries	Water	February 4, 2020 10:25 am	02/04/2020

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:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:59	LLJ
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:59	LLJ
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:59	LLJ
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:59	LLJ
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:59	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:59	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:59	LLJ
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:59	LLJ
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:59	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:59	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:59	LLJ
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:59	LLJ
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:59	LLJ
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:59	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:59	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:59	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:59	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:59	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:59	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:59	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:59	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:59	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:59	LLJ

Sample Information

Client Sample ID: WQ020420: 1025NP2-10 **York Sample ID:** 20B0085-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0085	31401451.000 Task 01.00 Rowe Industries	Water	February 4, 2020 10:25 am	02/04/2020

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:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:59	LLJ
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:59	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:59	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:59	LLJ
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	02/08/2020 04:59	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	02/08/2020 04:59	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:59	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:59	LLJ
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:59	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:59	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:59	LLJ
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:59	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:59	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:59	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:59	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:59	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 04:59	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	02/08/2020 04:59	LLJ

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*116 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*93.2 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*104 %*	*79-122*

Total Dissolved Solids

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: **WQ020420: 1025NP2-10** **York Sample ID:** **20B0085-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0085	31401451.000 Task 01.00 Rowe Industries	Water	February 4, 2020 10:25 am	02/04/2020

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	**122**		mg/L	1.00	1	SM 2540C	02/06/2020 10:44	02/07/2020 16:29	TJM
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

Analytical Batch Summary

Batch ID: BB00240 **Preparation Method:** % Solids Prep **Prepared By:** TJM

YORK Sample ID	Client Sample ID	Preparation Date
20B0085-02	WQ020420: 1025NP2-10	02/06/20
BB00240-BLK1	Blank	02/06/20

Batch ID: BB00314 **Preparation Method:** EPA 5030B **Prepared By:** LLJ

YORK Sample ID	Client Sample ID	Preparation Date
20B0085-01	WQ020420: 1020NP2-6	02/07/20
20B0085-02	WQ020420: 1025NP2-10	02/07/20
BB00314-BLK1	Blank	02/07/20
BB00314-BS1	LCS	02/07/20
BB00314-BSD1	LCS Dup	02/07/20

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 BB00314 - EPA 5030B											
Blank (BB00314-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: 02/07/2020 Analyzed: 02/08/2020

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 BB00314 - EPA 5030B											
Blank (BB00314-BLK1)								Prepared: 02/07/2020 Analyzed: 02/08/2020			
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	*11.2*		*"*	*10.0*		*112*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.59*		*"*	*10.0*		*95.9*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.4*		*"*	*10.0*		*104*	*79-122*				
LCS (BB00314-BS1)								Prepared: 02/07/2020 Analyzed: 02/08/2020			
1,1,1,2-Tetrachloroethane	9.54		ug/L	10.0		95.4	82-126				
1,1,1-Trichloroethane	10.7		"	10.0		107	78-136				
1,1,2,2-Tetrachloroethane	8.59		"	10.0		85.9	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.80		"	10.0		98.0	54-165				
1,1,2-Trichloroethane	8.49		"	10.0		84.9	82-123				
1,1-Dichloroethane	9.21		"	10.0		92.1	82-129				
1,1-Dichloroethylene	9.05		"	10.0		90.5	68-138				
1,1-Dichloropropylene	9.38		"	10.0		93.8	83-133				
1,2,3-Trichlorobenzene	6.03		"	10.0		60.3	76-136	Low Bias			
1,2,3-Trichloropropane	9.18		"	10.0		91.8	77-128				
1,2,4-Trichlorobenzene	6.96		"	10.0		69.6	76-137	Low Bias			
1,2,4-Trimethylbenzene	9.07		"	10.0		90.7	82-132				
1,2-Dibromo-3-chloropropane	8.75		"	10.0		87.5	45-147				
1,2-Dibromoethane	8.58		"	10.0		85.8	83-124				
1,2-Dichlorobenzene	8.88		"	10.0		88.8	79-123				
1,2-Dichloroethane	10.7		"	10.0		107	73-132				
1,2-Dichloropropane	7.98		"	10.0		79.8	78-126				
1,3,5-Trimethylbenzene	9.05		"	10.0		90.5	80-131				
1,3-Dichlorobenzene	8.91		"	10.0		89.1	86-122				
1,3-Dichloropropane	8.68		"	10.0		86.8	81-125				
1,4-Dichlorobenzene	8.63		"	10.0		86.3	85-124				
2,2-Dichloropropane	8.01		"	10.0		80.1	56-150				
2-Chlorotoluene	8.74		"	10.0		87.4	79-130				
2-Hexanone	8.21		"	10.0		82.1	51-146				
4-Chlorotoluene	8.90		"	10.0		89.0	79-128				
Acetone	8.36		"	10.0		83.6	14-150				
Benzene	9.09		"	10.0		90.9	85-126				
Bromobenzene	8.50		"	10.0		85.0	78-129				
Bromochloromethane	9.29		"	10.0		92.9	77-128				
Bromodichloromethane	9.47		"	10.0		94.7	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 BB00314 - EPA 5030B											
LCS (BB00314-BS1)								Prepared: 02/07/2020 Analyzed: 02/08/2020			
Bromoform	8.94		ug/L	10.0		89.4	78-133				
Bromomethane	16.6		"	10.0		166	43-168				
Carbon tetrachloride	10.6		"	10.0		106	77-141				
Chlorobenzene	8.50		"	10.0		85.0	88-120	Low Bias			
Chloroethane	9.03		"	10.0		90.3	65-136				
Chloroform	10.0		"	10.0		100	82-128				
Chloromethane	8.17		"	10.0		81.7	43-155				
cis-1,2-Dichloroethylene	9.40		"	10.0		94.0	83-129				
cis-1,3-Dichloropropylene	8.44		"	10.0		84.4	80-131				
Dibromochloromethane	9.36		"	10.0		93.6	80-130				
Dibromomethane	8.86		"	10.0		88.6	72-134				
Dichlorodifluoromethane	9.67		"	10.0		96.7	44-144				
Ethyl Benzene	8.93		"	10.0		89.3	80-131				
Hexachlorobutadiene	7.03		"	10.0		70.3	67-146				
Isopropylbenzene	8.59		"	10.0		85.9	76-140				
Methyl tert-butyl ether (MTBE)	9.78		"	10.0		97.8	76-135				
Methylene chloride	8.77		"	10.0		87.7	55-137				
Naphthalene	6.14		"	10.0		61.4	70-147	Low Bias			
n-Butylbenzene	9.23		"	10.0		92.3	79-132				
n-Propylbenzene	8.61		"	10.0		86.1	78-133				
o-Xylene	9.31		"	10.0		93.1	78-130				
p- & m- Xylenes	17.9		"	20.0		89.4	77-133				
p-Isopropyltoluene	8.99		"	10.0		89.9	81-136				
sec-Butylbenzene	9.02		"	10.0		90.2	79-137				
Styrene	9.07		"	10.0		90.7	67-132				
tert-Butylbenzene	7.77		"	10.0		77.7	77-138				
Tetrachloroethylene	7.70		"	10.0		77.0	82-131	Low Bias			
Toluene	8.41		"	10.0		84.1	80-127				
trans-1,2-Dichloroethylene	9.06		"	10.0		90.6	80-132				
trans-1,3-Dichloropropylene	8.51		"	10.0		85.1	78-131				
Trichloroethylene	8.79		"	10.0		87.9	82-128				
Trichlorofluoromethane	10.9		"	10.0		109	67-139				
Vinyl Chloride	11.3		"	10.0		113	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*11.4*		*"*	*10.0*		*114*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.40*		*"*	*10.0*		*94.0*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.92*		*"*	*10.0*		*99.2*	*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 BB00314 - EPA 5030B											
LCS Dup (BB00314-BSD1)								Prepared: 02/07/2020 Analyzed: 02/08/2020			
1,1,1,2-Tetrachloroethane	10.1		ug/L	10.0		101	82-126		6.00	30	
1,1,1-Trichloroethane	11.6		"	10.0		116	78-136		7.91	30	
1,1,2,2-Tetrachloroethane	9.06		"	10.0		90.6	76-129		5.33	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.6		"	10.0		106	54-165		7.75	30	
1,1,2-Trichloroethane	9.08		"	10.0		90.8	82-123		6.72	30	
1,1-Dichloroethane	9.71		"	10.0		97.1	82-129		5.29	30	
1,1-Dichloroethylene	9.87		"	10.0		98.7	68-138		8.67	30	
1,1-Dichloropropylene	9.96		"	10.0		99.6	83-133		6.00	30	
1,2,3-Trichlorobenzene	7.22		"	10.0		72.2	76-136	Low Bias	18.0	30	
1,2,3-Trichloropropane	9.82		"	10.0		98.2	77-128		6.74	30	
1,2,4-Trichlorobenzene	7.67		"	10.0		76.7	76-137		9.71	30	
1,2,4-Trimethylbenzene	9.14		"	10.0		91.4	82-132		0.769	30	
1,2-Dibromo-3-chloropropane	9.44		"	10.0		94.4	45-147		7.59	30	
1,2-Dibromoethane	9.38		"	10.0		93.8	83-124		8.91	30	
1,2-Dichlorobenzene	9.17		"	10.0		91.7	79-123		3.21	30	
1,2-Dichloroethane	11.7		"	10.0		117	73-132		9.55	30	
1,2-Dichloropropane	8.68		"	10.0		86.8	78-126		8.40	30	
1,3,5-Trimethylbenzene	9.27		"	10.0		92.7	80-131		2.40	30	
1,3-Dichlorobenzene	8.92		"	10.0		89.2	86-122		0.112	30	
1,3-Dichloropropane	9.46		"	10.0		94.6	81-125		8.60	30	
1,4-Dichlorobenzene	8.79		"	10.0		87.9	85-124		1.84	30	
2,2-Dichloropropane	8.85		"	10.0		88.5	56-150		9.96	30	
2-Chlorotoluene	9.09		"	10.0		90.9	79-130		3.93	30	
2-Hexanone	9.67		"	10.0		96.7	51-146		16.3	30	
4-Chlorotoluene	9.19		"	10.0		91.9	79-128		3.21	30	
Acetone	9.50		"	10.0		95.0	14-150		12.8	30	
Benzene	9.45		"	10.0		94.5	85-126		3.88	30	
Bromobenzene	8.84		"	10.0		88.4	78-129		3.92	30	
Bromochloromethane	9.94		"	10.0		99.4	77-128		6.76	30	
Bromodichloromethane	10.0		"	10.0		100	79-128		5.64	30	
Bromoform	10.5		"	10.0		105	78-133		15.9	30	
Bromomethane	19.5		"	10.0		195	43-168	High Bias	15.8	30	
Carbon tetrachloride	11.8		"	10.0		118	77-141		10.5	30	
Chlorobenzene	9.06		"	10.0		90.6	88-120		6.38	30	
Chloroethane	12.1		"	10.0		121	65-136		29.1	30	
Chloroform	10.7		"	10.0		107	82-128		6.46	30	
Chloromethane	10.8		"	10.0		108	43-155		27.7	30	
cis-1,2-Dichloroethylene	10.0		"	10.0		100	83-129		6.48	30	
cis-1,3-Dichloropropylene	9.20		"	10.0		92.0	80-131		8.62	30	
Dibromochloromethane	10.0		"	10.0		100	80-130		6.91	30	
Dibromomethane	9.63		"	10.0		96.3	72-134		8.33	30	
Dichlorodifluoromethane	11.1		"	10.0		111	44-144		14.0	30	
Ethyl Benzene	9.61		"	10.0		96.1	80-131		7.34	30	
Hexachlorobutadiene	7.56		"	10.0		75.6	67-146		7.27	30	
Isopropylbenzene	8.81		"	10.0		88.1	76-140		2.53	30	
Methyl tert-butyl ether (MTBE)	10.6		"	10.0		106	76-135		8.33	30	
Methylene chloride	9.93		"	10.0		99.3	55-137		12.4	30	
Naphthalene	7.13		"	10.0		71.3	70-147		14.9	30	
n-Butylbenzene	9.21		"	10.0		92.1	79-132		0.217	30	
n-Propylbenzene	8.73		"	10.0		87.3	78-133		1.38	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 BB00314 - EPA 5030B											
LCS Dup (BB00314-BSD1)									Prepared: 02/07/2020 Analyzed: 02/08/2020		
o-Xylene	9.80		ug/L	10.0		98.0	78-130		5.13	30	
p- & m- Xylenes	19.2		"	20.0		96.1	77-133		7.17	30	
p-Isopropyltoluene	9.27		"	10.0		92.7	81-136		3.07	30	
sec-Butylbenzene	9.38		"	10.0		93.8	79-137		3.91	30	
Styrene	9.82		"	10.0		98.2	67-132		7.94	30	
tert-Butylbenzene	7.95		"	10.0		79.5	77-138		2.29	30	
Tetrachloroethylene	8.15		"	10.0		81.5	82-131	Low Bias	5.68	30	
Toluene	8.86		"	10.0		88.6	80-127		5.21	30	
trans-1,2-Dichloroethylene	9.73		"	10.0		97.3	80-132		7.13	30	
trans-1,3-Dichloropropylene	9.41		"	10.0		94.1	78-131		10.0	30	
Trichloroethylene	9.22		"	10.0		92.2	82-128		4.78	30	
Trichlorofluoromethane	12.9		"	10.0		129	67-139		16.2	30	
Vinyl Chloride	13.6		"	10.0		136	58-145		18.3	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*12.1*		*"*	*10.0*		*121*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.39*		*"*	*10.0*		*93.9*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.87*		*"*	*10.0*		*98.7*	*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 BB00240 - % Solids Prep											
Blank (BB00240-BLK1)											Prepared & Analyzed: 02/06/2020
Total Dissolved Solids	ND	1.00	mg/L								

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
20B0085-01	WQ020420: 1020NP2-6	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20B0085-02	WQ020420: 1025NP2-10	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
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. 20B0085

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); CT RCP; (Standard Excel EDD); (QA Report); CT RCP DQA/DUE; EQuIS (Standard); NY ASP A Package; NJDEP Reduced Deliverables; NYSDEC EQuIS; (NY ASP B Package); NJDKQP; 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
WQ020420: 1020 NP2-6	GW	2-4-20 10:20	VOCs 8260 full list + freon 113	3 HCl VOA
WQ020420: 1025 NP2-10	GW	2-4-20 10:25	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: Cold

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
WSP	2-4-20 14:55				
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**
				TC 2/4/20 1455	5.4 Degrees C

APPENDIX II

FEBRUARY 2020 LABORATORY ANALYTICAL REPORTS

FOR FSP&T AND FP&T RECOVERY WELLS

Technical Report

prepared for:

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

Report Date: 02/11/2020
Client Project ID: 31401451.000 Task 01.00 Rowe Industries
York Project (SDG) No.: 20B0088

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: 02/11/2020
Client Project ID: 31401451.000 Task 01.00 Rowe Industries
York Project (SDG) No.: 20B0088

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 February 04, 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
20B0088-01	WQ020420: 1010FRW-1	Water	02/04/2020	02/04/2020
20B0088-02	WQ020420: 1014FRW-2	Water	02/04/2020	02/04/2020
20B0088-03	WQ020420: 1018FRW-3	Water	02/04/2020	02/04/2020
20B0088-04	WQ020420: 1005FRW-4	Water	02/04/2020	02/04/2020
20B0088-05	WQ020420: 1030NP1-1-2	Water	02/04/2020	02/04/2020

General Notes for York Project (SDG) No.: 20B0088

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: 02/11/2020

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: WQ020420: 1010FRW-1 **York Sample ID:** 20B0088-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0088	31401451.000 Task 01.00 Rowe Industries	Water	February 4, 2020 10:10 am	02/04/2020

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:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP	02/08/2020 08:34	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ
95-63-6	**1,2,4-Trimethylbenzene**	**0.290**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ

Sample Information

Client Sample ID: WQ020420: 1010FRW-1 **York Sample ID:** 20B0088-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0088	31401451.000 Task 01.00 Rowe Industries	Water	February 4, 2020 10:10 am	02/04/2020

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:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ
67-64-1	**Acetone**	**1.18**		ug/L	1.00	2.00	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ
156-59-2	**cis-1,2-Dichloroethylene**	**1.19**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 08:34	LLJ

Sample Information

Client Sample ID: WQ020420: 1010FRW-1 **York Sample ID:** 20B0088-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0088	31401451.000 Task 01.00 Rowe Industries	Water	February 4, 2020 10:10 am	02/04/2020

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:	02/07/2020 12:12	02/08/2020 08:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 08:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 08:34 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 08:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 08:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 08:34 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 08:34 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 08:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 08:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 08:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 08:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
127-18-4	**Tetrachloroethylene**	**30.2**	QL-02	ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 08:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 08:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 08:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 08:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
79-01-6	**Trichloroethylene**	**0.900**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 08:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 08:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 08:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 08:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	LLJ

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*104 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*96.5 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*96.6 %*	*79-122*

Sample Information

Client Sample ID: WQ020420: 1014FRW-2 **York Sample ID:** 20B0088-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0088	31401451.000 Task 01.00 Rowe Industries	Water	February 4, 2020 10:14 am	02/04/2020

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:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:01	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:01	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:01	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:01	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:01	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:01	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:01	LLJ
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP	02/08/2020 09:01	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:01	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:01	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:01	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:01	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:01	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:01	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:01	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:01	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:01	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:01	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:01	LLJ
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:01	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:01	LLJ
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:01	LLJ
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:01	LLJ

Sample Information

Client Sample ID: WQ020420: 1014FRW-2 **York Sample ID:** 20B0088-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0088	31401451.000 Task 01.00 Rowe Industries	Water	February 4, 2020 10:14 am	02/04/2020

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:	02/07/2020 12:12	02/08/2020 09:01	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:01	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:01	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:01	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:01	LLJ NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:01	LLJ NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:01	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:01	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:01	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:01	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:01	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:01	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:01	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:01	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
156-59-2	**cis-1,2-Dichloroethylene**	**0.350**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:01	LLJ 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:	02/07/2020 12:12	02/08/2020 09:01	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:01	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:01	LLJ NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:01	LLJ NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:01	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:01	LLJ NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:01	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:01	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP

Sample Information

Client Sample ID: WQ020420: 1014FRW-2 **York Sample ID:** 20B0088-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0088	31401451.000 Task 01.00 Rowe Industries	Water	February 4, 2020 10:14 am	02/04/2020

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:	02/07/2020 12:12	02/08/2020 09:01	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:01	LLJ NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:01	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:01	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:01	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:01	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:01	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:01	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:01	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:01	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
127-18-4	**Tetrachloroethylene**	**2.77**	QL-02	ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:01	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:01	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:01	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:01	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:01	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:01	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:01	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:01	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*98.1 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*97.1 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*101 %*	*79-122*

Sample Information

Client Sample ID: WQ020420: 1018FRW-3 **York Sample ID:** 20B0088-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0088	31401451.000 Task 01.00 Rowe Industries	Water	February 4, 2020 10:18 am	02/04/2020

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:	02/07/2020 12:12	02/08/2020 09:28 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28 NELAC-NY10854,NELAC-NY12058,NJDEP	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ

Sample Information

Client Sample ID: WQ020420: 1018FRW-3 **York Sample ID:** 20B0088-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0088	31401451.000 Task 01.00 Rowe Industries	Water	February 4, 2020 10:18 am	02/04/2020

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:	02/07/2020 12:12	02/08/2020 09:28	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28	LLJ NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28	LLJ NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
156-59-2	**cis-1,2-Dichloroethylene**	**0.590**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28	LLJ 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:	02/07/2020 12:12	02/08/2020 09:28	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28	LLJ NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28	LLJ NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28	LLJ NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP

Sample Information

Client Sample ID: WQ020420: 1018FRW-3 **York Sample ID:** 20B0088-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0088	31401451.000 Task 01.00 Rowe Industries	Water	February 4, 2020 10:18 am	02/04/2020

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:	02/07/2020 12:12	02/08/2020 09:28	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28	LLJ NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
127-18-4	**Tetrachloroethylene**	**11.9**	QL-02	ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
79-01-6	**Trichloroethylene**	**0.310**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:28	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*99.9 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*97.8 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*100 %*	*79-122*

Sample Information

Client Sample ID: WQ020420: 1005FRW-4 **York Sample ID:** 20B0088-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0088	31401451.000 Task 01.00 Rowe Industries	Water	February 4, 2020 10:05 am	02/04/2020

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:	02/07/2020 12:12	02/08/2020 09:54 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:54 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:54 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:54 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:54 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:54 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:54 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:54 NELAC-NY10854,NELAC-NY12058,NJDEP	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:54 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:54 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:54 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:54 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:54 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:54 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:54 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:54 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:54 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:54 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:54 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:54 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:54 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:54 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 09:54 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	LLJ

Sample Information

Client Sample ID: WQ020420: 1005FRW-4 **York Sample ID:** 20B0088-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0088	31401451.000 Task 01.00 Rowe Industries	Water	February 4, 2020 10:05 am	02/04/2020

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:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:54	LLJ
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:54	LLJ
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:54	LLJ
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:54	LLJ
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:54	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:54	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:54	LLJ
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:54	LLJ
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:54	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:54	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:54	LLJ
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:54	LLJ
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:54	LLJ
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:54	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:54	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:54	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:54	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:54	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:54	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:54	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:54	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:54	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:54	LLJ

Sample Information

Client Sample ID: WQ020420: 1005FRW-4 **York Sample ID:** 20B0088-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0088	31401451.000 Task 01.00 Rowe Industries	Water	February 4, 2020 10:05 am	02/04/2020

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:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:54	LLJ
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:54	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:54	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:54	LLJ
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	02/08/2020 09:54	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	02/08/2020 09:54	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:54	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:54	LLJ
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:54	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:54	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:54	LLJ
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:54	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:54	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:54	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:54	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:54	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 09:54	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	02/08/2020 09:54	LLJ

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*102 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*96.3 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*104 %*	*79-122*

Sample Information

Client Sample ID: WQ020420: 1030NP1-1-2 **York Sample ID:** 20B0088-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0088	31401451.000 Task 01.00 Rowe Industries	Water	February 4, 2020 10:30 am	02/04/2020

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:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP	02/08/2020 10:21	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ

Sample Information

Client Sample ID: WQ020420: 1030NP1-1-2 **York Sample ID:** 20B0088-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0088	31401451.000 Task 01.00 Rowe Industries	Water	February 4, 2020 10:30 am	02/04/2020

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:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/08/2020 10:21	LLJ

Sample Information

Client Sample ID: WQ020420: 1030NP1-1-2 **York Sample ID:** 20B0088-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0088	31401451.000 Task 01.00 Rowe Industries	Water	February 4, 2020 10:30 am	02/04/2020

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:	02/07/2020 12:12	02/08/2020 10:21	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 10:21	LLJ NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 10:21	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 10:21	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 10:21	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 10:21	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 10:21	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 10:21	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 10:21	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 10:21	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
127-18-4	**Tetrachloroethylene**	**0.270**	QL-02	ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 10:21	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 10:21	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 10:21	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 10:21	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 10:21	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 10:21	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 10:21	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	02/07/2020 12:12	02/08/2020 10:21	LLJ CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*103 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*96.7 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*102 %*	*79-122*

Analytical Batch Summary

Batch ID: BB00314 **Preparation Method:** EPA 5030B **Prepared By:** LLJ

YORK Sample ID	Client Sample ID	Preparation Date
20B0088-01	WQ020420: 1010FRW-1	02/07/20
20B0088-02	WQ020420: 1014FRW-2	02/07/20
20B0088-03	WQ020420: 1018FRW-3	02/07/20
20B0088-04	WQ020420: 1005FRW-4	02/07/20
20B0088-05	WQ020420: 1030NP1-1-2	02/07/20
BB00314-BLK1	Blank	02/07/20
BB00314-BS1	LCS	02/07/20
BB00314-BSD1	LCS Dup	02/07/20

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 BB00314 - EPA 5030B											
Blank (BB00314-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: 02/07/2020 Analyzed: 02/08/2020

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 BB00314 - EPA 5030B											
Blank (BB00314-BLK1)								Prepared: 02/07/2020 Analyzed: 02/08/2020			
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	*11.2*		*"*	*10.0*		*112*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.59*		*"*	*10.0*		*95.9*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.4*		*"*	*10.0*		*104*	*79-122*				
LCS (BB00314-BS1)								Prepared: 02/07/2020 Analyzed: 02/08/2020			
1,1,1,2-Tetrachloroethane	9.54		ug/L	10.0		95.4	82-126				
1,1,1-Trichloroethane	10.7		"	10.0		107	78-136				
1,1,2,2-Tetrachloroethane	8.59		"	10.0		85.9	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.80		"	10.0		98.0	54-165				
1,1,2-Trichloroethane	8.49		"	10.0		84.9	82-123				
1,1-Dichloroethane	9.21		"	10.0		92.1	82-129				
1,1-Dichloroethylene	9.05		"	10.0		90.5	68-138				
1,1-Dichloropropylene	9.38		"	10.0		93.8	83-133				
1,2,3-Trichlorobenzene	6.03		"	10.0		60.3	76-136	Low Bias			
1,2,3-Trichloropropane	9.18		"	10.0		91.8	77-128				
1,2,4-Trichlorobenzene	6.96		"	10.0		69.6	76-137	Low Bias			
1,2,4-Trimethylbenzene	9.07		"	10.0		90.7	82-132				
1,2-Dibromo-3-chloropropane	8.75		"	10.0		87.5	45-147				
1,2-Dibromoethane	8.58		"	10.0		85.8	83-124				
1,2-Dichlorobenzene	8.88		"	10.0		88.8	79-123				
1,2-Dichloroethane	10.7		"	10.0		107	73-132				
1,2-Dichloropropane	7.98		"	10.0		79.8	78-126				
1,3,5-Trimethylbenzene	9.05		"	10.0		90.5	80-131				
1,3-Dichlorobenzene	8.91		"	10.0		89.1	86-122				
1,3-Dichloropropane	8.68		"	10.0		86.8	81-125				
1,4-Dichlorobenzene	8.63		"	10.0		86.3	85-124				
2,2-Dichloropropane	8.01		"	10.0		80.1	56-150				
2-Chlorotoluene	8.74		"	10.0		87.4	79-130				
2-Hexanone	8.21		"	10.0		82.1	51-146				
4-Chlorotoluene	8.90		"	10.0		89.0	79-128				
Acetone	8.36		"	10.0		83.6	14-150				
Benzene	9.09		"	10.0		90.9	85-126				
Bromobenzene	8.50		"	10.0		85.0	78-129				
Bromochloromethane	9.29		"	10.0		92.9	77-128				
Bromodichloromethane	9.47		"	10.0		94.7	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 BB00314 - EPA 5030B											
LCS (BB00314-BS1)								Prepared: 02/07/2020 Analyzed: 02/08/2020			
Bromoform	8.94		ug/L	10.0		89.4	78-133				
Bromomethane	16.6		"	10.0		166	43-168				
Carbon tetrachloride	10.6		"	10.0		106	77-141				
Chlorobenzene	8.50		"	10.0		85.0	88-120	Low Bias			
Chloroethane	9.03		"	10.0		90.3	65-136				
Chloroform	10.0		"	10.0		100	82-128				
Chloromethane	8.17		"	10.0		81.7	43-155				
cis-1,2-Dichloroethylene	9.40		"	10.0		94.0	83-129				
cis-1,3-Dichloropropylene	8.44		"	10.0		84.4	80-131				
Dibromochloromethane	9.36		"	10.0		93.6	80-130				
Dibromomethane	8.86		"	10.0		88.6	72-134				
Dichlorodifluoromethane	9.67		"	10.0		96.7	44-144				
Ethyl Benzene	8.93		"	10.0		89.3	80-131				
Hexachlorobutadiene	7.03		"	10.0		70.3	67-146				
Isopropylbenzene	8.59		"	10.0		85.9	76-140				
Methyl tert-butyl ether (MTBE)	9.78		"	10.0		97.8	76-135				
Methylene chloride	8.77		"	10.0		87.7	55-137				
Naphthalene	6.14		"	10.0		61.4	70-147	Low Bias			
n-Butylbenzene	9.23		"	10.0		92.3	79-132				
n-Propylbenzene	8.61		"	10.0		86.1	78-133				
o-Xylene	9.31		"	10.0		93.1	78-130				
p- & m- Xylenes	17.9		"	20.0		89.4	77-133				
p-Isopropyltoluene	8.99		"	10.0		89.9	81-136				
sec-Butylbenzene	9.02		"	10.0		90.2	79-137				
Styrene	9.07		"	10.0		90.7	67-132				
tert-Butylbenzene	7.77		"	10.0		77.7	77-138				
Tetrachloroethylene	7.70		"	10.0		77.0	82-131	Low Bias			
Toluene	8.41		"	10.0		84.1	80-127				
trans-1,2-Dichloroethylene	9.06		"	10.0		90.6	80-132				
trans-1,3-Dichloropropylene	8.51		"	10.0		85.1	78-131				
Trichloroethylene	8.79		"	10.0		87.9	82-128				
Trichlorofluoromethane	10.9		"	10.0		109	67-139				
Vinyl Chloride	11.3		"	10.0		113	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*11.4*		*"*	*10.0*		*114*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.40*		*"*	*10.0*		*94.0*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.92*		*"*	*10.0*		*99.2*	*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 BB00314 - EPA 5030B

LCS Dup (BB00314-BSD1) Prepared: 02/07/2020 Analyzed: 02/08/2020

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
1,1,1,2-Tetrachloroethane	10.1		ug/L	10.0		101	82-126		6.00	30	
1,1,1-Trichloroethane	11.6		"	10.0		116	78-136		7.91	30	
1,1,2,2-Tetrachloroethane	9.06		"	10.0		90.6	76-129		5.33	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.6		"	10.0		106	54-165		7.75	30	
1,1,2-Trichloroethane	9.08		"	10.0		90.8	82-123		6.72	30	
1,1-Dichloroethane	9.71		"	10.0		97.1	82-129		5.29	30	
1,1-Dichloroethylene	9.87		"	10.0		98.7	68-138		8.67	30	
1,1-Dichloropropylene	9.96		"	10.0		99.6	83-133		6.00	30	
1,2,3-Trichlorobenzene	7.22		"	10.0		72.2	76-136	Low Bias	18.0	30	
1,2,3-Trichloropropane	9.82		"	10.0		98.2	77-128		6.74	30	
1,2,4-Trichlorobenzene	7.67		"	10.0		76.7	76-137		9.71	30	
1,2,4-Trimethylbenzene	9.14		"	10.0		91.4	82-132		0.769	30	
1,2-Dibromo-3-chloropropane	9.44		"	10.0		94.4	45-147		7.59	30	
1,2-Dibromoethane	9.38		"	10.0		93.8	83-124		8.91	30	
1,2-Dichlorobenzene	9.17		"	10.0		91.7	79-123		3.21	30	
1,2-Dichloroethane	11.7		"	10.0		117	73-132		9.55	30	
1,2-Dichloropropane	8.68		"	10.0		86.8	78-126		8.40	30	
1,3,5-Trimethylbenzene	9.27		"	10.0		92.7	80-131		2.40	30	
1,3-Dichlorobenzene	8.92		"	10.0		89.2	86-122		0.112	30	
1,3-Dichloropropane	9.46		"	10.0		94.6	81-125		8.60	30	
1,4-Dichlorobenzene	8.79		"	10.0		87.9	85-124		1.84	30	
2,2-Dichloropropane	8.85		"	10.0		88.5	56-150		9.96	30	
2-Chlorotoluene	9.09		"	10.0		90.9	79-130		3.93	30	
2-Hexanone	9.67		"	10.0		96.7	51-146		16.3	30	
4-Chlorotoluene	9.19		"	10.0		91.9	79-128		3.21	30	
Acetone	9.50		"	10.0		95.0	14-150		12.8	30	
Benzene	9.45		"	10.0		94.5	85-126		3.88	30	
Bromobenzene	8.84		"	10.0		88.4	78-129		3.92	30	
Bromochloromethane	9.94		"	10.0		99.4	77-128		6.76	30	
Bromodichloromethane	10.0		"	10.0		100	79-128		5.64	30	
Bromoform	10.5		"	10.0		105	78-133		15.9	30	
Bromomethane	19.5		"	10.0		195	43-168	High Bias	15.8	30	
Carbon tetrachloride	11.8		"	10.0		118	77-141		10.5	30	
Chlorobenzene	9.06		"	10.0		90.6	88-120		6.38	30	
Chloroethane	12.1		"	10.0		121	65-136		29.1	30	
Chloroform	10.7		"	10.0		107	82-128		6.46	30	
Chloromethane	10.8		"	10.0		108	43-155		27.7	30	
cis-1,2-Dichloroethylene	10.0		"	10.0		100	83-129		6.48	30	
cis-1,3-Dichloropropylene	9.20		"	10.0		92.0	80-131		8.62	30	
Dibromochloromethane	10.0		"	10.0		100	80-130		6.91	30	
Dibromomethane	9.63		"	10.0		96.3	72-134		8.33	30	
Dichlorodifluoromethane	11.1		"	10.0		111	44-144		14.0	30	
Ethyl Benzene	9.61		"	10.0		96.1	80-131		7.34	30	
Hexachlorobutadiene	7.56		"	10.0		75.6	67-146		7.27	30	
Isopropylbenzene	8.81		"	10.0		88.1	76-140		2.53	30	
Methyl tert-butyl ether (MTBE)	10.6		"	10.0		106	76-135		8.33	30	
Methylene chloride	9.93		"	10.0		99.3	55-137		12.4	30	
Naphthalene	7.13		"	10.0		71.3	70-147		14.9	30	
n-Butylbenzene	9.21		"	10.0		92.1	79-132		0.217	30	
n-Propylbenzene	8.73		"	10.0		87.3	78-133		1.38	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 BB00314 - EPA 5030B											
LCS Dup (BB00314-BSD1)									Prepared: 02/07/2020 Analyzed: 02/08/2020		
o-Xylene	9.80		ug/L	10.0		98.0	78-130		5.13	30	
p- & m- Xylenes	19.2		"	20.0		96.1	77-133		7.17	30	
p-Isopropyltoluene	9.27		"	10.0		92.7	81-136		3.07	30	
sec-Butylbenzene	9.38		"	10.0		93.8	79-137		3.91	30	
Styrene	9.82		"	10.0		98.2	67-132		7.94	30	
tert-Butylbenzene	7.95		"	10.0		79.5	77-138		2.29	30	
Tetrachloroethylene	8.15		"	10.0		81.5	82-131	Low Bias	5.68	30	
Toluene	8.86		"	10.0		88.6	80-127		5.21	30	
trans-1,2-Dichloroethylene	9.73		"	10.0		97.3	80-132		7.13	30	
trans-1,3-Dichloropropylene	9.41		"	10.0		94.1	78-131		10.0	30	
Trichloroethylene	9.22		"	10.0		92.2	82-128		4.78	30	
Trichlorofluoromethane	12.9		"	10.0		129	67-139		16.2	30	
Vinyl Chloride	13.6		"	10.0		136	58-145		18.3	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*12.1*		*"*	*10.0*		*121*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.39*		*"*	*10.0*		*93.9*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.87*		*"*	*10.0*		*98.7*	*79-122*				

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
20B0088-01	WQ020420: 1010FRW-1	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20B0088-02	WQ020420: 1014FRW-2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20B0088-03	WQ020420: 1018FRW-3	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20B0088-04	WQ020420: 1005FRW-4	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20B0088-05	WQ020420: 1030NP1-1-2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

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

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.
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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. 20B0088

Page 1 of 1

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:		RUSH - Two Day
			YOUR Project Name	RUSH - Three Day
Phone: 203-929-8555	Phone:	Phone:	Rowe Industries	RUSH - Four Day
Contact: Tunde Komuves-Sandor	Contact:	Contact:		**Standard (5-7 Day)** X
E-mail: tunde.sandor@wsp.com	E-mail:	E-mail:	YOUR PO#: 31401451.000 Task 01.00	

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.

Scott Philbrick

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

[signature]

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
WQ020420:1010 FRW-1	GW	2-4-20 10:10	VOCs 8260 full list + freon 113	3 HCl VOA
" " 1014 FRW-2	↓	10:14	↓	↓
" " 1018 FRW-3	↓	10:18	↓	↓
" " 1005 FRW-4	↓	10:05	↓	↓
" " 1030 NP1-1-2	↓	10:30	↓	↓

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
[signature] WSP	2-4-20 14:55				

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
				TC [signature] 2/4/20 1455	5.4 Degrees C