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 October 2020 Status Report

DATE: November 30, 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; 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. In February 2020, the FP&T system, which consists of four focused recover wells (FRW-1, FRW-2, FRW-3 and FRW-4), was turned off with EPA approval to conduct in-situ injection to treat contaminants in the former drum storage area (FDSA). This status report presents a summary of performance, operation and maintenance for the FSP&T system and monitoring activities for the site from October 1, 2020 through October 31, 2020. The report includes a summary of system performance parameters, system operation parameters, and analytical results for groundwater, system effluent samples and air quality results.

SUMMARY OF SYSTEM PERFORMANCE AND OPERATION

(October 1, 2020 through October 31, 2020)

1. Hours of operation during the reporting period:	570 hours (76.7%)
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, App. I)
4. Total volume of water pumped during the reporting period:	1,027,789 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

WSP USA
4 Research Drive, Suite 204
Shelton, CT 06484

Phone: +1 (203) 929-8555
Fax: +1 (203) 926-9140
wsp.com

8. Effluent VOC vapor concentration for the reporting period: 0.09 mg/m^3 (see Table 4, App. II)

9. Was the effluent VOC vapor emission rate below 0.022 lbs./hr.: (calculations can be provided upon request) Yes (0.00116 lbs./hr.)

PUMP AND TREAT SYSTEM STATUS SUMMARY

On October 1, 2020, the upstairs heater unit was repaired. On October 23, 2020, the RW-2 drive would not operate and the system would not restart. Initial troubleshooting could not resolve the problem. Further troubleshooting will be conducted in November. The remaining O&M activities for the FSP&T system are included in Table 1.

SUMMARY OF SAMPLING ACTIVITIES

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

- A monthly groundwater sample was collected from RW-2 on October 1, 2020.

Table 3 presents a summary of the quality results for water samples collected from downgradient recovery well RW-2. Graph 3 presents tetrachloroethylene (PCE) concentrations for samples collected from RW-2 for the last 24 months. The laboratory analytical report for the water sample collected from the recovery well is included as Appendix I. Because RW-2 is the only well operating, the sample from that well also serves as the influent system sample.

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.

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

FUTURE O&M ACTIVITIES

O&M activities scheduled for November 2020 include:

- Troubleshoot the RW-2 drive; and
- normal bi-weekly/monthly O&M activities.

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

H:\NABIS\2020\Monthly Rpts\October\Draft Status Report - Oct 2020.docx

TABLES

TABLE 1

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

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

Date	Time	System Changes/Modifications	Personnel
10/1/20		Upstairs heater unit repaired. Upstairs heater is working properly.	Absolute, SP
		Collect system water samples.	SP
10/15/20		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. Cleaned filter baskets and housings.	SP
		RW-1 vault door was not opening; the dirt around the vault door seams was removed. The RW-1 vault door opens properly.	SP
10/23/20		RW-2 pump fault alarm; system shuts down. After trying to reset the drive and restart the system, the drive would not reactivate. System remains off until further troubleshooting can be conducted in November.	JF

Notes:

SP	Scott Philbrick, WSP USA
JF	Jamie Forrester, WSP USA
Absolute	Absolute Controls (Contractor)

H:\NABIS\2020\Monthly Rpts\October\Table 1 Maintenance Record - Oct 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**	**---**	**---**
3-Oct-19	6.5	165	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	0.612	ND<0.278
4-Nov-19	6.0	102	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	0.536	ND<0.278
5-Dec-19	6.8	129	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	NA	NA
7-Jan-20	6.8	175	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	NA	NA
4-Feb-20	7.0	122	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	NA	NA
2-Mar-20	7.0	137	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	NA	NA
2-Apr-20	7.0	161	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-May-20	7.0	299	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	NA	NA
2-Jun-20	6.8	174	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-Jul-20	7.0	125	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-Aug-20	6.8	178	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
1-Sep-20	6.8	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	ND<0.5	ND<0.5	NA	NA
1-Oct-20	6.8	148	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 October 15, 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-Aug-19	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	5-Sep-19	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	3-Oct-19	ND<0.5	0.220	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	4-Nov-19	0.400	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	5-Dec-19	0.270	0.300	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	7-Jan-20	0.250	0.380	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	4-Feb-20	0.270 Q	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	2-Mar-20	1.67 C	0.250	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	2-Apr-20	0.230	0.230 Q	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-May-20	0.240	ND<0.5	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
	2-Jun-20	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
	7-Jul-20	0.220	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
	7-Aug-20	ND<0.5	ND<0.5	ND<0.5	0.260	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-Sep-20	ND<0.5	0.310	ND<0.5	0.330	ND<0.5	ND<0.5	0.260	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	1-Oct-20	ND<0.5	0.330	ND<0.5	0.210	ND<0.5	ND<0.5	0.210	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5

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

ND: Not detected
<#: Less than method detection limit
ug/L: Micrograms per liter
-: Not analyzed
J: Analyte detected below quantitation limits, value shown is a laboratory estimate.
B: Analyte was found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
C = CCV-E: The value reported is estimated. The value is estimated due to its behavior during continuing calibration verification.
S = SCAL-E: The value reported is estimated. The value is estimated due to its behavior during initial calibration.
Q = QL-02: This LCS analyte is outside Laboratory Recovery limits due to the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
ARAR's are chemical specific aquifer restoration goals for ground water at the Former Rowe Industries Superfund Site.
NE indicates that the ARAR goal was not established for this compound by the EPA.
Bold values indicate an exceedance of the ARAR standard established for the site.
[1/] In September 2016, the EPA granted approval to discontinue groundwater sampling at RW-1, RW-5, RW-7, RW-8 and RW-9.

TABLE 4

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

Carbon Unit System Air Quality Results

Precarbon			Parameters (mg/m3)													TOTAL
Sample Name	Date	Time	PCE	TCE	TCA	DCA	cis-DCE	trans-DCE	Toluene	m&p-Xylenes	o-Xylene	CF	MC	EB	Freon 113	VOCs
AQ011519:1300NP4-1	1/15/2019	13:00	0.0260	0.0110	0.0016	ND	0.0096	ND	0.0015	ND	ND	0.0019	0.0027	ND	0.0012	0.08
AQ041619:1300NP4-1	4/16/2019	13:00	0.0056	0.0047	0.0011	ND	0.0010	ND	ND	ND	ND	0.0047	0.0008	ND	ND	0.03
AQ071919:1055NP4-1	7/19/2019	10:55	0.0290	0.0074	ND	ND	0.0006	ND	0.0079	0.0050	0.0017	0.0017	0.0420	0.0019	ND	0.17
AQ101519:0812NP4-1	10/15/2019	8:12	ND	ND	ND	ND	ND	ND	0.0390	0.0041	0.0014	ND	ND	0.0013	ND	0.09
AQ012120NP4-1	1/21/2020		0.0290	0.0036	0.0085	ND	0.0022	ND	0.0009	ND	ND	0.0015	0.0011	ND	ND	1.09
AQ041620:930NP4-1	4/16/2020	9:30	ND	ND	ND	ND	ND	ND	0.0006	ND	ND	ND	ND	ND	ND	0.04
AQ072120:930NP4-1	7/21/2020	9:30	0.0190	0.0009	ND	ND	0.00077	ND	0.0099	0.0035	0.0011	ND	0.0026	0.0011	ND	0.18
AQ101520:815NP4-1	10/15/2020	8:15	ND	ND	ND	ND	0.00166	ND	ND	ND	ND	ND	ND	ND	ND	0.05

Postcarbon			Parameters (mg/m3)													TOTAL
Sample Name	Date	Time	PCE	TCE	TCA	DCA	cis-DCE	trans-DCE	Toluene	m&p-Xylenes	o-Xylene	CF	MC	EB	Freon 113	VOCs
AQ011519:1305NP4-3	1/15/2019	13:05	ND	ND	0.0008	ND	0.0015	ND	0.0009	0.0016	ND	ND	0.0100	ND	ND	0.02
AQ041619:1305:NP4-3	4/16/2019	13:05	0.0031	ND	0.0009	ND	0.0030	ND	0.0210	0.0120	0.0047	0.0011	0.0045	0.0035	ND	0.10
AQ071919:1100NP4-3	7/19/2019	11:00	ND	ND	ND	ND	0.0011	ND	0.0032	0.0013	0.0006	ND	0.0037	ND	ND	0.05
AQ101519:0814NP4-3	10/15/2019	8:14	ND	ND	0.0013	ND	0.0029	ND	0.0420	0.0120	0.0040	0.0009	0.0036	0.0040	0.0013	0.13
AQ01210NP4-3	1/21/2020		ND	ND	ND	ND	0.0012	ND	ND	ND	ND	ND	0.0027	ND	ND	0.07
AQ041620:940NP4-3	4/16/2020	9:40	0.0021	0.00024	ND	ND	0.0014	ND	0.0050	0.0035	0.0009	ND	ND	0.0011	ND	0.14
AQ072120:935NP4-3	7/21/2020	9:35	0.0051	ND	ND	ND	0.00089	ND	0.0220	0.0074	0.0020	ND	0.0011	0.0023	ND	0.50
AQ101520:0822NP4-3	10/15/2020	8:22	0.0004	ND	ND	ND	ND	ND	0.0020	0.0011	ND	ND	ND	ND	ND	0.09

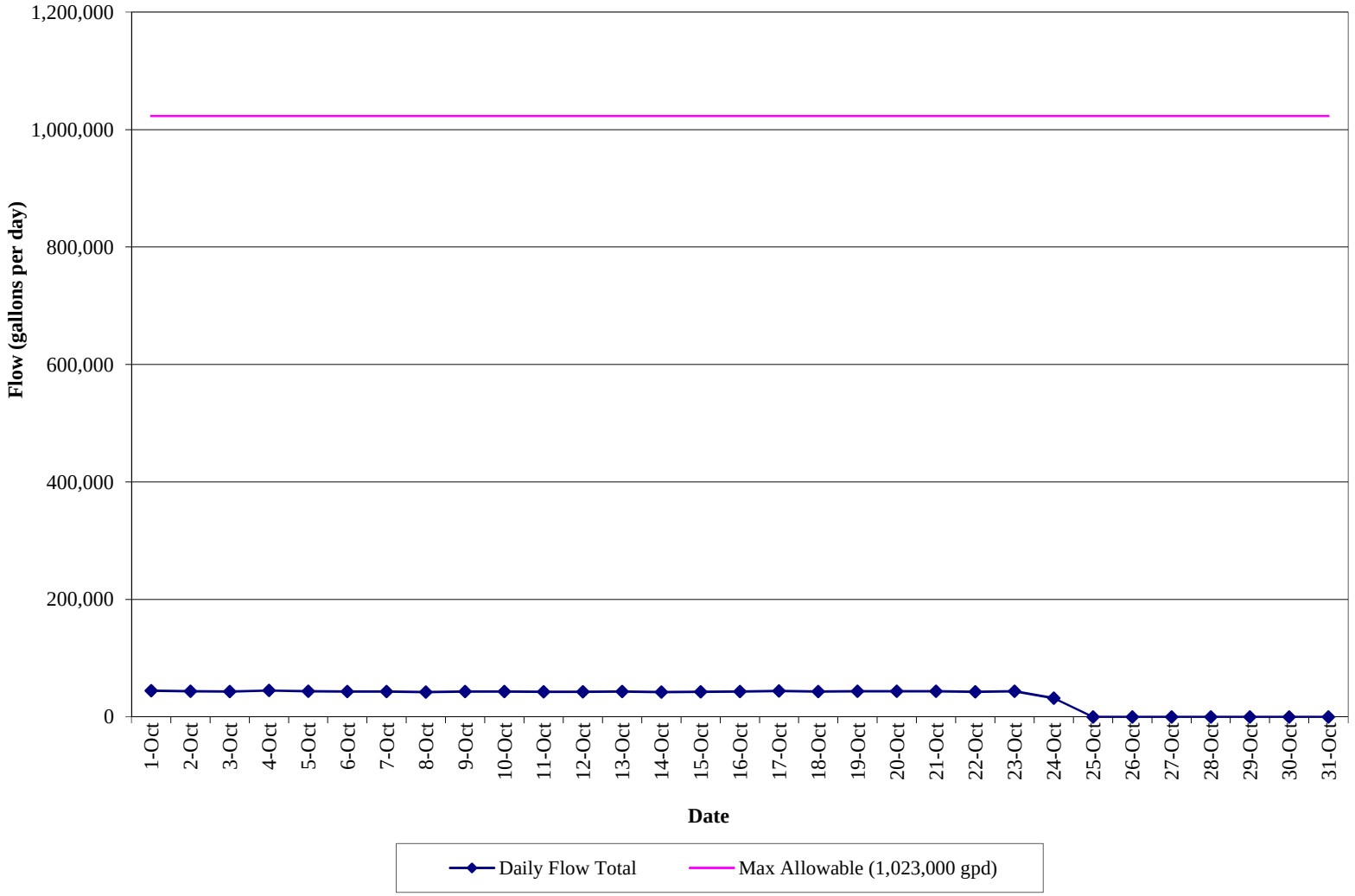
PCE: Tetrachloroethylene
TCE: Trichloroethene
TCA: 1,1,1-Trichloroethane
DCE: 1,1-Dichloroethene
DCA: 1,1-Dichloroethane
cis-DCE: cis-1,2-Dichloroethene
trans-DCE: trans-1,2-Dichloroethylene
CF: Chloroform
MC: Methylene Chloride
EB: Ethylbenzene

Notes: NA - Not Applicable.
NS - Not Sampled
ND - Not Detected
B - Method blank contamination, the associated method blank contains the target analyte at a reportable level.
The air quality results summarized above are for the compounds listed in the FSP&T groundwater discharge permit. Low concentrations of additional compounds are accounted for in the Total VOCs column, however, are not listed.

GRAPHS

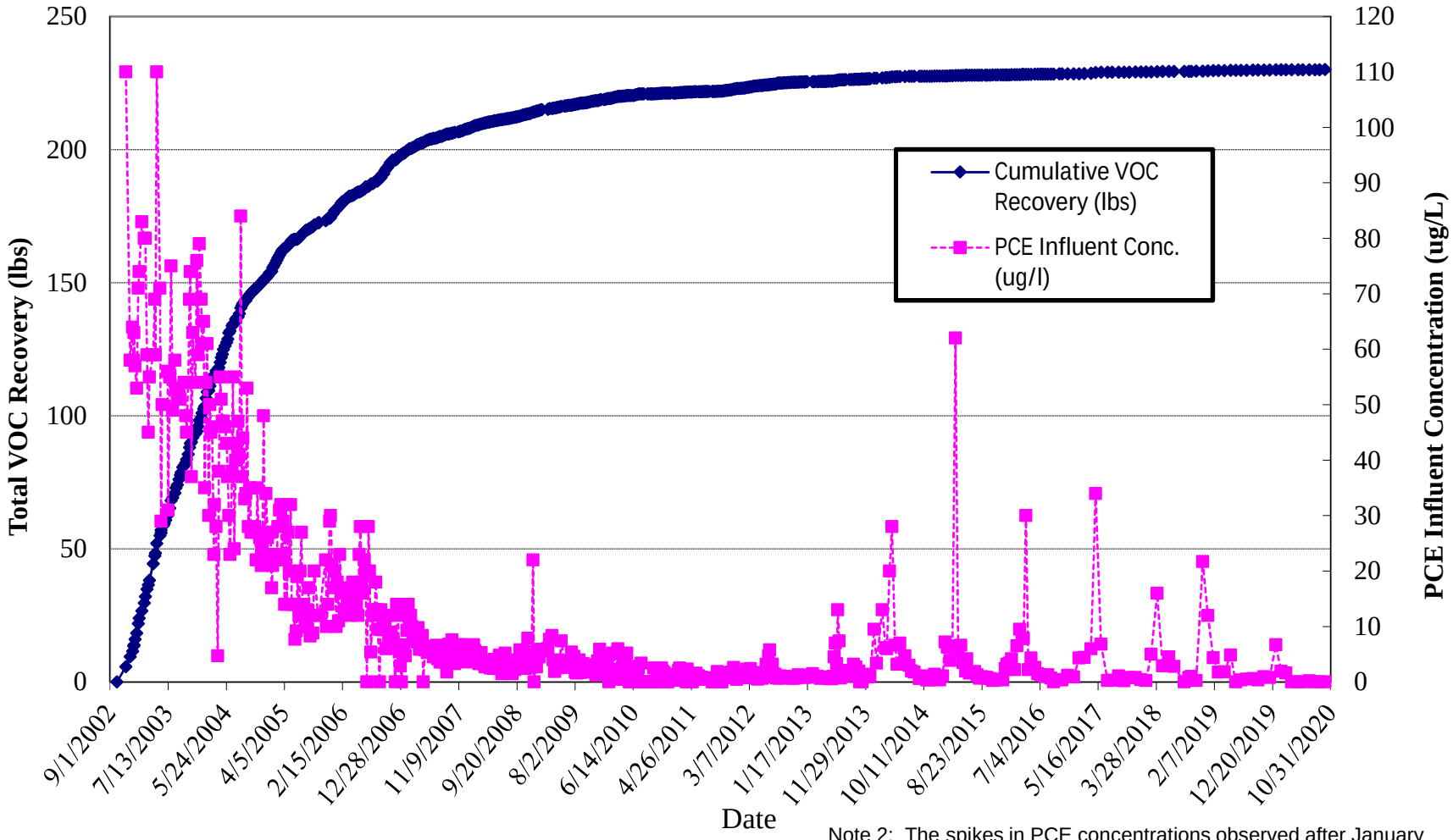
GRAPH 1
GROUNDWATER REMEDIAL ACTION
ROWE INDUSTRIES SUPERFUND SITE
SAG HARBOR, NEW YORK

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



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

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



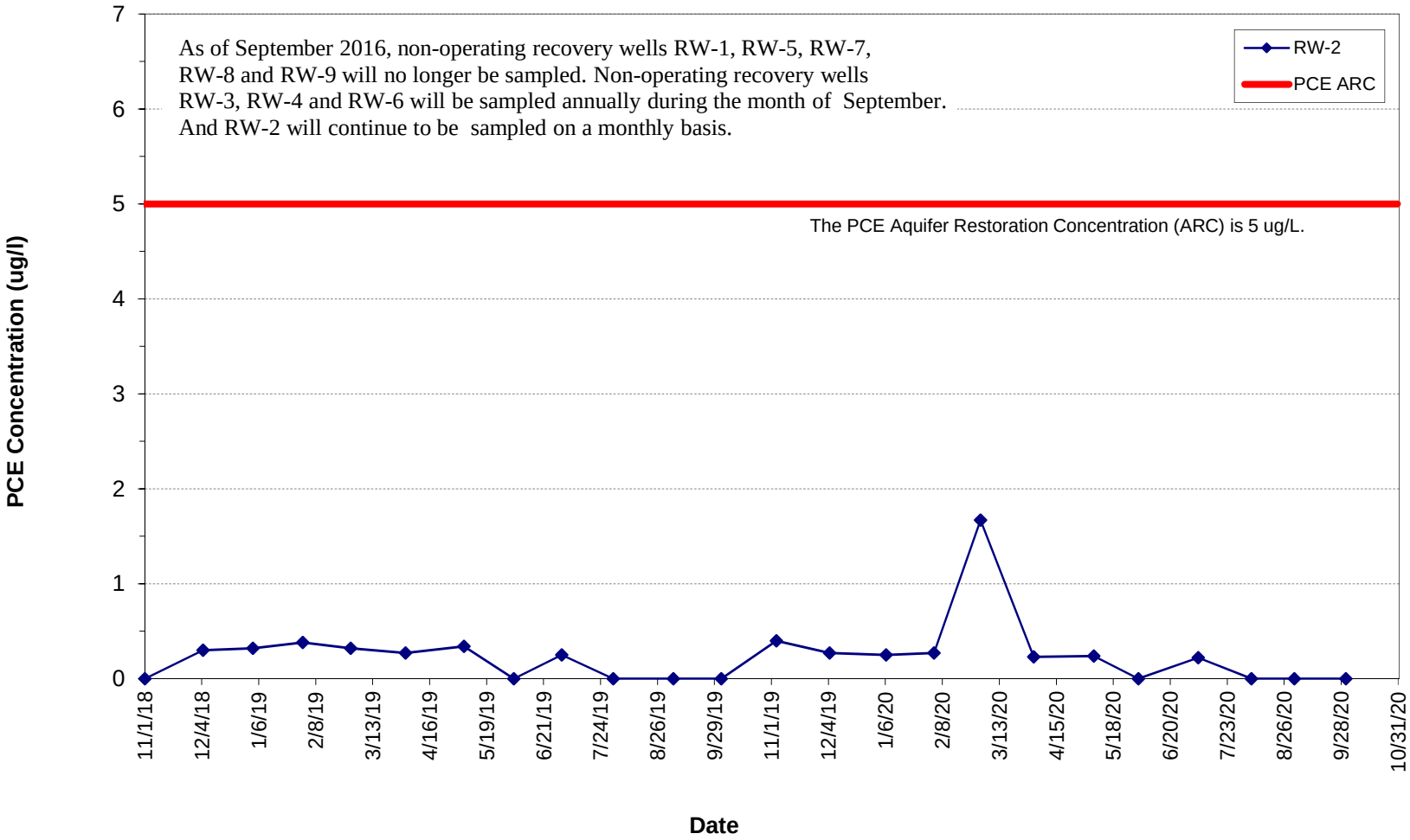
Note 1 : After September 22, 2008, the water recovered from the FP&T System is included in the results shown in this graph.

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



APPENDIX I

OCTOBER 2020 LABORATORY ANALYTICAL REPORT

FOR FSP&T SYSTEM AND RW-2

Technical Report

prepared for:

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

Report Date: 10/13/2020
Client Project ID: 31401451.000 Task 01.00 Rowe Industries
York Project (SDG) No.: 20J0075

Report Date: 10/13/2020
Client Project ID: 31401451.000 Task 01.00 Rowe Industries
York Project (SDG) No.: 20J0075

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 October 01, 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
20J0075-01	WQ100120:0900 NP1-1-2	Water	10/01/2020	10/01/2020
20J0075-02	WQ100120:0915 NP2-10	Water	10/01/2020	10/01/2020

General Notes for York Project (SDG) No.: 20J0075

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: 10/13/2020

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: WQ100120:0900 NP1-1-2 **York Sample ID:** 20J0075-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20J0075	31401451.000 Task 01.00 Rowe Industries	Water	October 1, 2020 9:00 am	10/01/2020

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:	10/09/2020 09:30	10/09/2020 16:57	CLO CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 16:57	CLO CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 16:57	CLO CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 16:57	CLO CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 16:57	CLO CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 16:57	CLO CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 16:57	CLO CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 16:57	CLO NELAC-NY10854,NELAC-NY12058,NJDEP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 16:57	CLO NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 16:57	CLO NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 16:57	CLO NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 16:57	CLO CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 16:57	CLO CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 16:57	CLO CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 16:57	CLO CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 16:57	CLO CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 16:57	CLO CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 16:57	CLO CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 16:57	CLO CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 16:57	CLO NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 16:57	CLO CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 16:57	CLO NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP

Sample Information

Client Sample ID: WQ100120:0900 NP1-1-2 **York Sample ID:** 20J0075-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20J0075	31401451.000 Task 01.00 Rowe Industries	Water	October 1, 2020 9:00 am	10/01/2020

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:	10/09/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/09/2020 16:57	CLO
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/09/2020 16:57	CLO
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/09/2020 16:57	CLO
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	10/09/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/09/2020 16:57	CLO
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/09/2020 16:57	CLO
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/09/2020 16:57	CLO
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/09/2020 16:57	CLO
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/09/2020 16:57	CLO
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/09/2020 16:57	CLO
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/09/2020 16:57	CLO
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/09/2020 16:57	CLO
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/09/2020 16:57	CLO
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/09/2020 16:57	CLO
67-66-3	**Chloroform**	**0.210**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/09/2020 16:57	CLO
74-87-3	**Chloromethane**	**0.770**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/09/2020 16:57	CLO
156-59-2	**cis-1,2-Dichloroethylene**	**0.210**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/09/2020 16:57	CLO
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/09/2020 16:57	CLO
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/09/2020 16:57	CLO
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/09/2020 16:57	CLO
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/09/2020 16:57	CLO
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/09/2020 16:57	CLO
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/09/2020 16:57	CLO
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/09/2020 16:57	CLO

Sample Information

Client Sample ID: WQ100120:0900 NP1-1-2 **York Sample ID:** 20J0075-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20J0075	31401451.000 Task 01.00 Rowe Industries	Water	October 1, 2020 9:00 am	10/01/2020

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:	10/09/2020 09:30	10/09/2020 16:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 16:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 16:57 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 16:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 16:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 16:57 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	CLO
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 16:57 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	CLO
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 16:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 16:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 16:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 16:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 16:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 16:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 16:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 16:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
79-01-6	**Trichloroethylene**	**0.330**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 16:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 16:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 16:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 16:57 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	CLO

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*102 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*115 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*114 %*	*79-122*

Sample Information

Client Sample ID: WQ100120:0915 NP2-10 **York Sample ID:** 20J0075-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20J0075	31401451.000 Task 01.00 Rowe Industries	Water	October 1, 2020 9:15 am	10/01/2020

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:	10/09/2020 09:30	10/09/2020 17:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26 NELAC-NY10854,NELAC-NY12058,NJDEP	CLO
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO

Sample Information

Client Sample ID: WQ100120:0915 NP2-10 **York Sample ID:** 20J0075-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20J0075	31401451.000 Task 01.00 Rowe Industries	Water	October 1, 2020 9:15 am	10/01/2020

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:	10/09/2020 09:30	10/09/2020 17:26	CLO CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26	CLO CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26	CLO CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26	CLO CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26	CLO NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26	CLO NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26	CLO CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26	CLO CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26	CLO CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26	CLO CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26	CLO CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26	CLO CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26	CLO CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-87-3	**Chloromethane**	**0.260**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26	CLO 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:	10/09/2020 09:30	10/09/2020 17:26	CLO 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:	10/09/2020 09:30	10/09/2020 17:26	CLO CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26	CLO CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26	CLO NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26	CLO NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26	CLO CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26	CLO NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26	CLO 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:	10/09/2020 09:30	10/09/2020 17:26	CLO CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP

Sample Information

Client Sample ID: WQ100120:0915 NP2-10 **York Sample ID:** 20J0075-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20J0075	31401451.000 Task 01.00 Rowe Industries	Water	October 1, 2020 9:15 am	10/01/2020

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:	10/09/2020 09:30	10/09/2020 17:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	CLO
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	CLO
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	CLO
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	10/09/2020 09:30	10/09/2020 17:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	CLO

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*101 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*114 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*113 %*	*79-122*

Total Dissolved Solids

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: **WQ100120:0915 NP2-10** **York Sample ID:** **20J0075-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20J0075	31401451.000 Task 01.00 Rowe Industries	Water	October 1, 2020 9:15 am	10/01/2020

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	**148**		mg/L	10.0	1	SM 2540C	10/02/2020 23:03	10/02/2020 23:03	AA
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

Analytical Batch Summary

Batch ID: BJ00178 **Preparation Method:** % Solids Prep **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
20J0075-02	WQ100120:0915 NP2-10	10/02/20
BJ00178-BLK1	Blank	10/02/20
BJ00178-DUP2	Duplicate	10/02/20

Batch ID: BJ00517 **Preparation Method:** EPA 5030B **Prepared By:** AH

YORK Sample ID	Client Sample ID	Preparation Date
20J0075-01	WQ100120:0900 NP1-1-2	10/09/20
20J0075-02	WQ100120:0915 NP2-10	10/09/20
BJ00517-BLK1	Blank	10/09/20
BJ00517-BS1	LCS	10/09/20
BJ00517-BSD1	LCS Dup	10/09/20

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 BJ00517 - EPA 5030B											
Blank (BJ00517-BLK1)											Prepared & Analyzed: 10/09/2020
1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,1-Dichloropropylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,3-Dichloropropane	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
2,2-Dichloropropane	ND	0.500	"								
2-Chlorotoluene	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Chlorotoluene	ND	0.500	"								
Acetone	ND	2.00	"								
Benzene	ND	0.500	"								
Bromobenzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Bromoform	ND	0.500	"								
Bromomethane	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylene chloride	ND	2.00	"								
Naphthalene	ND	2.00	"								
n-Butylbenzene	ND	0.500	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ00517 - EPA 5030B											
Blank (BJ00517-BLK1)								Prepared & Analyzed: 10/09/2020			
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	*10.1*		*"*	*10.0*		*101*	*69-130*				
Surrogate: SURR: Toluene-d8	*11.4*		*"*	*10.0*		*114*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*11.4*		*"*	*10.0*		*114*	*79-122*				
LCS (BJ00517-BS1)								Prepared & Analyzed: 10/09/2020			
1,1,1,2-Tetrachloroethane	11.4		ug/L	10.0		114	82-126				
1,1,1-Trichloroethane	8.72		"	10.0		87.2	78-136				
1,1,2,2-Tetrachloroethane	13.4		"	10.0		134	76-129	High Bias			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	15.0		"	10.0		150	54-165				
1,1,2-Trichloroethane	11.5		"	10.0		115	82-123				
1,1-Dichloroethane	8.83		"	10.0		88.3	82-129				
1,1-Dichloroethylene	9.83		"	10.0		98.3	68-138				
1,1-Dichloropropylene	9.39		"	10.0		93.9	83-133				
1,2,3-Trichlorobenzene	11.0		"	10.0		110	76-136				
1,2,3-Trichloropropane	12.4		"	10.0		124	77-128				
1,2,4-Trichlorobenzene	10.7		"	10.0		107	76-137				
1,2,4-Trimethylbenzene	12.0		"	10.0		120	82-132				
1,2-Dibromo-3-chloropropane	12.6		"	10.0		126	45-147				
1,2-Dibromoethane	12.0		"	10.0		120	83-124				
1,2-Dichlorobenzene	11.7		"	10.0		117	79-123				
1,2-Dichloroethane	9.23		"	10.0		92.3	73-132				
1,2-Dichloropropane	12.0		"	10.0		120	78-126				
1,3,5-Trimethylbenzene	12.3		"	10.0		123	80-131				
1,3-Dichlorobenzene	11.1		"	10.0		111	86-122				
1,3-Dichloropropane	12.4		"	10.0		124	81-125				
1,4-Dichlorobenzene	11.1		"	10.0		111	85-124				
2,2-Dichloropropane	8.72		"	10.0		87.2	56-150				
2-Chlorotoluene	12.3		"	10.0		123	79-130				
2-Hexanone	13.2		"	10.0		132	51-146				
4-Chlorotoluene	12.1		"	10.0		121	79-128				
Acetone	7.63		"	10.0		76.3	14-150				
Benzene	9.42		"	10.0		94.2	85-126				
Bromobenzene	12.2		"	10.0		122	78-129				
Bromochloromethane	9.48		"	10.0		94.8	77-128				
Bromodichloromethane	12.1		"	10.0		121	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 BJ00517 - EPA 5030B											
LCS (BJ00517-BS1)								Prepared & Analyzed: 10/09/2020			
Bromoform	11.4		ug/L	10.0		114	78-133				
Bromomethane	9.98		"	10.0		99.8	43-168				
Carbon tetrachloride	8.37		"	10.0		83.7	77-141				
Chlorobenzene	11.2		"	10.0		112	88-120				
Chloroethane	12.2		"	10.0		122	65-136				
Chloroform	9.12		"	10.0		91.2	82-128				
Chloromethane	11.1		"	10.0		111	43-155				
cis-1,2-Dichloroethylene	9.03		"	10.0		90.3	83-129				
cis-1,3-Dichloropropylene	11.9		"	10.0		119	80-131				
Dibromochloromethane	11.3		"	10.0		113	80-130				
Dibromomethane	11.7		"	10.0		117	72-134				
Dichlorodifluoromethane	7.72		"	10.0		77.2	44-144				
Ethyl Benzene	12.3		"	10.0		123	80-131				
Hexachlorobutadiene	10.9		"	10.0		109	67-146				
Isopropylbenzene	11.3		"	10.0		113	76-140				
Methyl tert-butyl ether (MTBE)	8.64		"	10.0		86.4	76-135				
Methylene chloride	10.5		"	10.0		105	55-137				
Naphthalene	11.8		"	10.0		118	70-147				
n-Butylbenzene	16.1		"	10.0		161	79-132	High Bias			
n-Propylbenzene	11.8		"	10.0		118	78-133				
o-Xylene	11.8		"	10.0		118	78-130				
p- & m- Xylenes	24.7		"	20.0		124	77-133				
p-Isopropyltoluene	11.5		"	10.0		115	81-136				
sec-Butylbenzene	12.5		"	10.0		125	79-137				
Styrene	12.5		"	10.0		125	67-132				
tert-Butylbenzene	11.0		"	10.0		110	77-138				
Tetrachloroethylene	9.45		"	10.0		94.5	82-131				
Toluene	11.8		"	10.0		118	80-127				
trans-1,2-Dichloroethylene	9.83		"	10.0		98.3	80-132				
trans-1,3-Dichloropropylene	11.8		"	10.0		118	78-131				
Trichloroethylene	11.7		"	10.0		117	82-128				
Trichlorofluoromethane	10.6		"	10.0		106	67-139				
Vinyl Chloride	12.0		"	10.0		120	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.99*		*"*	*10.0*		*99.9*	*69-130*				
Surrogate: SURR: Toluene-d8	*11.6*		*"*	*10.0*		*116*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.98*		*"*	*10.0*		*99.8*	*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 BJ00517 - EPA 5030B											
LCS Dup (BJ00517-BSD1)								Prepared & Analyzed: 10/09/2020			
1,1,1,2-Tetrachloroethane	11.2		ug/L	10.0		112	82-126		1.32	30	
1,1,1-Trichloroethane	8.48		"	10.0		84.8	78-136		2.79	30	
1,1,2,2-Tetrachloroethane	13.4		"	10.0		134	76-129	High Bias	0.746	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	14.7		"	10.0		147	54-165		1.68	30	
1,1,2-Trichloroethane	11.7		"	10.0		117	82-123		1.12	30	
1,1-Dichloroethane	8.82		"	10.0		88.2	82-129		0.113	30	
1,1-Dichloroethylene	9.62		"	10.0		96.2	68-138		2.16	30	
1,1-Dichloropropylene	9.09		"	10.0		90.9	83-133		3.25	30	
1,2,3-Trichlorobenzene	11.1		"	10.0		111	76-136		1.36	30	
1,2,3-Trichloropropane	12.4		"	10.0		124	77-128		0.161	30	
1,2,4-Trichlorobenzene	11.0		"	10.0		110	76-137		2.76	30	
1,2,4-Trimethylbenzene	12.2		"	10.0		122	82-132		1.41	30	
1,2-Dibromo-3-chloropropane	12.8		"	10.0		128	45-147		2.13	30	
1,2-Dibromoethane	12.2		"	10.0		122	83-124		1.49	30	
1,2-Dichlorobenzene	11.7		"	10.0		117	79-123		0.427	30	
1,2-Dichloroethane	9.07		"	10.0		90.7	73-132		1.75	30	
1,2-Dichloropropane	12.0		"	10.0		120	78-126		0.167	30	
1,3,5-Trimethylbenzene	12.5		"	10.0		125	80-131		1.70	30	
1,3-Dichlorobenzene	11.2		"	10.0		112	86-122		0.894	30	
1,3-Dichloropropane	12.5		"	10.0		125	81-125		0.802	30	
1,4-Dichlorobenzene	11.2		"	10.0		112	85-124		1.07	30	
2,2-Dichloropropane	8.38		"	10.0		83.8	56-150		3.98	30	
2-Chlorotoluene	12.4		"	10.0		124	79-130		1.14	30	
2-Hexanone	13.0		"	10.0		130	51-146		1.83	30	
4-Chlorotoluene	12.3		"	10.0		123	79-128		1.56	30	
Acetone	7.42		"	10.0		74.2	14-150		2.79	30	
Benzene	9.40		"	10.0		94.0	85-126		0.213	30	
Bromobenzene	12.4		"	10.0		124	78-129		1.46	30	
Bromochloromethane	9.33		"	10.0		93.3	77-128		1.59	30	
Bromodichloromethane	12.0		"	10.0		120	79-128		0.914	30	
Bromoform	11.2		"	10.0		112	78-133		2.39	30	
Bromomethane	10.0		"	10.0		100	43-168		0.300	30	
Carbon tetrachloride	7.98		"	10.0		79.8	77-141		4.77	30	
Chlorobenzene	11.2		"	10.0		112	88-120		0.357	30	
Chloroethane	12.1		"	10.0		121	65-136		0.821	30	
Chloroform	9.00		"	10.0		90.0	82-128		1.32	30	
Chloromethane	10.6		"	10.0		106	43-155		4.32	30	
cis-1,2-Dichloroethylene	8.90		"	10.0		89.0	83-129		1.45	30	
cis-1,3-Dichloropropylene	12.0		"	10.0		120	80-131		0.503	30	
Dibromochloromethane	11.1		"	10.0		111	80-130		1.79	30	
Dibromomethane	11.6		"	10.0		116	72-134		0.343	30	
Dichlorodifluoromethane	7.65		"	10.0		76.5	44-144		0.911	30	
Ethyl Benzene	12.4		"	10.0		124	80-131		1.21	30	
Hexachlorobutadiene	11.2		"	10.0		112	67-146		2.53	30	
Isopropylbenzene	11.4		"	10.0		114	76-140		0.791	30	
Methyl tert-butyl ether (MTBE)	8.51		"	10.0		85.1	76-135		1.52	30	
Methylene chloride	10.3		"	10.0		103	55-137		1.73	30	
Naphthalene	11.8		"	10.0		118	70-147		0.509	30	
n-Butylbenzene	12.6		"	10.0		126	79-132		24.5	30	
n-Propylbenzene	11.8		"	10.0		118	78-133		0.0846	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 BJ00517 - EPA 5030B											
LCS Dup (BJ00517-BSD1)								Prepared & Analyzed: 10/09/2020			
o-Xylene	11.8		ug/L	10.0		118	78-130		0.170	30	
p- & m- Xylenes	24.5		"	20.0		122	77-133		0.936	30	
p-Isopropyltoluene	11.7		"	10.0		117	81-136		1.21	30	
sec-Butylbenzene	12.7		"	10.0		127	79-137		1.50	30	
Styrene	12.6		"	10.0		126	67-132		0.637	30	
tert-Butylbenzene	11.2		"	10.0		112	77-138		1.71	30	
Tetrachloroethylene	9.42		"	10.0		94.2	82-131		0.318	30	
Toluene	11.8		"	10.0		118	80-127		0.679	30	
trans-1,2-Dichloroethylene	9.64		"	10.0		96.4	80-132		1.95	30	
trans-1,3-Dichloropropylene	11.8		"	10.0		118	78-131		0.508	30	
Trichloroethylene	11.6		"	10.0		116	82-128		1.12	30	
Trichlorofluoromethane	10.4		"	10.0		104	67-139		2.48	30	
Vinyl Chloride	11.6		"	10.0		116	58-145		3.30	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.88*		*"*	*10.0*		*98.8*	*69-130*				
Surrogate: SURR: Toluene-d8	*11.7*		*"*	*10.0*		*117*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.2*		*"*	*10.0*		*102*	*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 BJ00178 - % Solids Prep											
Blank (BJ00178-BLK1)								Prepared & Analyzed: 10/02/2020			
Total Dissolved Solids	ND	10.0	mg/L								
Duplicate (BJ00178-DUP2)	*Source sample: 20J0075-02 (WQ100120:0915 NP2-10)							Prepared & Analyzed: 10/02/2020			
Total Dissolved Solids	161	10.0	mg/L		148				8.41	15	

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
20J0075-01	WQ100120:0900 NP1-1-2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20J0075-02	WQ100120:0915 NP2-10	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. 20J0075

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.

Scott Philbrick

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

Scott Philbrick

Matrix Codes

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

Samples From

New York	X
New Jersey	
Connecticut	
Pennsylvania	
Other	

Report / EDD Type (circle selections)

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

YORK Reg. Comp.

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

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
WQ100120:0900 NP1-1-2	GW	10.1.20 9:00	VOCs 8260 full list + freon 113	3 HCl VOA
WQ100120:0915 NP2-10	GW	10.1.20 9:15	VOCs 8260 full list + freon 113: TDS	3 HCl VOA; 1 plastic

Comments:

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

Special Instruction
Field Filtered ____
Lab to Filter ____

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
WSP	10/1/20 1500				
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 Mahr 10/1/20 1500	5.3 Degrees C

APPENDIX II

OCTOBER 2020 LABORATORY ANALYTICAL REPORT

FOR AIR SAMPLES

PHOENIX
Environmental Laboratories, Inc.

Wednesday, October 21, 2020

Attn: Mr. Mark Goldberg
WSP USA
4 Research Dr Suite 204
Shelton, CT 06484

Project ID: **ROWE INDUSTRIES**
SDG ID: **GCG98148**
Sample ID#s: CG98148 - CG98149

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

SDG Comments

October 21, 2020

SDG I.D.: GCG98148

Any compound that is not detected above the MDL/LOD is reported as ND on the report and is reported in the electronic deliverables (EDD) as <RL or U at the RL per state and EPA guidance.

Version 1: Analysis results minus raw data.

Version 2: Complete report with raw data.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Sample Id Cross Reference

October 21, 2020

SDG I.D.: GCG98148

Project ID: ROWE INDUSTRIES

Client Id	Lab Id	Matrix
AQ101520 0815NP4-1	CG98148	AIR
AQ101520 0822NP4-3	CG98149	AIR

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

October 21, 2020

FOR: Attn: Mr. Mark Goldberg
WSP USA
4 Research Dr Suite 204
Shelton, CT 06484

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	SP	10/15/20	8:15
Location Code:	WSP	Received by:	LB	10/16/20	11:06
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					
Canister Id:	727				

Laboratory Data

SDG ID: GCG98148
Phoenix ID: CG98148

Project ID: ROWE INDUSTRIES
Client ID: AQ101520 0815NP4-1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
Volatiles (TO15)										
1,1,1,2-Tetrachloroethane	ND	*0.146*	0.146	ND	*1.00*	1.00	10/20/20	KCA	1	1
1,1,1-Trichloroethane	ND	*0.183*	0.183	ND	*1.00*	1.00	10/20/20	KCA	1	
1,1,2,2-Tetrachloroethane	ND	*0.146*	0.146	ND	*1.00*	1.00	10/20/20	KCA	1	
1,1,2-Trichloroethane	ND	*0.183*	0.183	ND	*1.00*	1.00	10/20/20	KCA	1	
1,1-Dichloroethane	ND	*0.247*	0.247	ND	*1.00*	1.00	10/20/20	KCA	1	
1,1-Dichloroethene	ND	*0.051*	0.051	ND	*0.20*	0.20	10/20/20	KCA	1	
1,2,4-Trichlorobenzene	ND	*0.135*	0.135	ND	*1.00*	1.00	10/20/20	KCA	1	
1,2,4-Trimethylbenzene	ND	*0.204*	0.204	ND	*1.00*	1.00	10/20/20	KCA	1	
1,2-Dibromoethane(EDB)	ND	*0.130*	0.130	ND	*1.00*	1.00	10/20/20	KCA	1	
1,2-Dichlorobenzene	ND	*0.166*	0.166	ND	*1.00*	1.00	10/20/20	KCA	1	
1,2-Dichloroethane	ND	*0.247*	0.247	ND	*1.00*	1.00	10/20/20	KCA	1	
1,2-dichloropropane	ND	*0.217*	0.217	ND	*1.00*	1.00	10/20/20	KCA	1	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	0.143	ND	*1.00*	1.00	10/20/20	KCA	1	
1,3,5-Trimethylbenzene	ND	*0.204*	0.204	ND	*1.00*	1.00	10/20/20	KCA	1	
1,3-Butadiene	ND	*0.452*	0.452	ND	*1.00*	1.00	10/20/20	KCA	1	
1,3-Dichlorobenzene	ND	*0.166*	0.166	ND	*1.00*	1.00	10/20/20	KCA	1	
1,4-Dichlorobenzene	ND	*0.166*	0.166	ND	*1.00*	1.00	10/20/20	KCA	1	
1,4-Dioxane	ND	*0.278*	0.278	ND	*1.00*	1.00	10/20/20	KCA	1	
2-Hexanone(MBK)	ND	*0.244*	0.244	ND	*1.00*	1.00	10/20/20	KCA	1	1
4-Ethyltoluene	ND	*0.204*	0.204	ND	*1.00*	1.00	10/20/20	KCA	1	1
4-Isopropyltoluene	ND	*0.182*	0.182	ND	*1.00*	1.00	10/20/20	KCA	1	1
4-Methyl-2-pentanone(MIBK)	ND	*0.244*	0.244	ND	*1.00*	1.00	10/20/20	KCA	1	
Acetone	1.72	*0.421*	0.421	4.08	*1.00*	1.00	10/20/20	KCA	1	
Acrylonitrile	ND	*0.461*	0.461	ND	*1.00*	1.00	10/20/20	KCA	1	
Benzene	ND	*0.313*	0.313	ND	*1.00*	1.00	10/20/20	KCA	1	
Benzyl chloride	ND	*0.193*	0.193	ND	*1.00*	1.00	10/20/20	KCA	1	

Project ID: ROWE INDUSTRIES
Client ID: AQ101520 0815NP4-1

Phoenix I.D.: CG98148

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By		
Bromodichloromethane	ND	*0.149*	0.149	ND	*1.00*	1.00	10/20/20	KCA	1	
Bromoform	ND	*0.097*	0.097	ND	*1.00*	1.00	10/20/20	KCA	1	
Bromomethane	ND	*0.258*	0.258	ND	*1.00*	1.00	10/20/20	KCA	1	
Carbon Disulfide	ND	*0.321*	0.321	ND	*1.00*	1.00	10/20/20	KCA	1	
Carbon Tetrachloride	0.067	*0.032*	0.032	0.42	*0.20*	0.20	10/20/20	KCA	1	
Chlorobenzene	ND	*0.217*	0.217	ND	*1.00*	1.00	10/20/20	KCA	1	
Chloroethane	ND	*0.379*	0.379	ND	*1.00*	1.00	10/20/20	KCA	1	
Chloroform	ND	*0.205*	0.205	ND	*1.00*	1.00	10/20/20	KCA	1	
Chloromethane	0.487	*0.485*	0.485	1.01	*1.00*	1.00	10/20/20	KCA	1	
Cis-1,2-Dichloroethene	0.420	*0.051*	0.051	1.66	*0.20*	0.20	10/20/20	KCA	1	
cis-1,3-Dichloropropene	ND	*0.221*	0.221	ND	*1.00*	1.00	10/20/20	KCA	1	
Cyclohexane	ND	*0.291*	0.291	ND	*1.00*	1.00	10/20/20	KCA	1	
Dibromochloromethane	ND	*0.118*	0.118	ND	*1.00*	1.00	10/20/20	KCA	1	
Dichlorodifluoromethane	0.357	*0.202*	0.202	1.76	*1.00*	1.00	10/20/20	KCA	1	
Ethanol	20.6	*0.531*	0.531	38.8	*1.00*	1.00	10/20/20	KCA	1	1
Ethyl acetate	ND	*0.278*	0.278	ND	*1.00*	1.00	10/20/20	KCA	1	1
Ethylbenzene	ND	*0.230*	0.230	ND	*1.00*	1.00	10/20/20	KCA	1	
Heptane	ND	*0.244*	0.244	ND	*1.00*	1.00	10/20/20	KCA	1	
Hexachlorobutadiene	ND	*0.094*	0.094	ND	*1.00*	1.00	10/20/20	KCA	1	
Hexane	ND	*0.284*	0.284	ND	*1.00*	1.00	10/20/20	KCA	1	
Isopropylalcohol	1.90	*0.407*	0.407	4.67	*1.00*	1.00	10/20/20	KCA	1	
Isopropylbenzene	ND	*0.204*	0.204	ND	*1.00*	1.00	10/20/20	KCA	1	
m,p-Xylene	ND	*0.230*	0.230	ND	*1.00*	1.00	10/20/20	KCA	1	
Methyl Ethyl Ketone	ND	*0.339*	0.339	ND	*1.00*	1.00	10/20/20	KCA	1	
Methyl tert-butyl ether(MTBE)	ND	*0.278*	0.278	ND	*1.00*	1.00	10/20/20	KCA	1	
Methylene Chloride	ND	*0.864*	0.864	ND	*3.00*	3.00	10/20/20	KCA	1	
n-Butylbenzene	ND	*0.182*	0.182	ND	*1.00*	1.00	10/20/20	KCA	1	1
o-Xylene	ND	*0.230*	0.230	ND	*1.00*	1.00	10/20/20	KCA	1	
Propylene	ND	*0.581*	0.581	ND	*1.00*	1.00	10/20/20	KCA	1	1
sec-Butylbenzene	ND	*0.182*	0.182	ND	*1.00*	1.00	10/20/20	KCA	1	1
Styrene	ND	*0.235*	0.235	ND	*1.00*	1.00	10/20/20	KCA	1	
Tetrachloroethene	ND	*0.037*	0.037	ND	*0.25*	0.25	10/20/20	KCA	1	
Tetrahydrofuran	ND	*0.339*	0.339	ND	*1.00*	1.00	10/20/20	KCA	1	1
Toluene	ND	*0.266*	0.266	ND	*1.00*	1.00	10/20/20	KCA	1	
Trans-1,2-Dichloroethene	ND	*0.252*	0.252	ND	*1.00*	1.00	10/20/20	KCA	1	
trans-1,3-Dichloropropene	ND	*0.221*	0.221	ND	*1.00*	1.00	10/20/20	KCA	1	
Trichloroethene	ND	*0.037*	0.037	ND	*0.20*	0.20	10/20/20	KCA	1	
Trichlorofluoromethane	0.214	*0.178*	0.178	1.20	*1.00*	1.00	10/20/20	KCA	1	
Trichlorotrifluoroethane	ND	*0.131*	0.131	ND	*1.00*	1.00	10/20/20	KCA	1	
Vinyl Chloride	ND	*0.078*	0.078	ND	*0.20*	0.20	10/20/20	KCA	1	
QA/QC Surrogates/Internals										
% Bromofluorobenzene	103	*%*	%	103	*%*	%	10/20/20	KCA	1	
% IS-1,4-Difluorobenzene	98	*%*	%	98	*%*	%	10/20/20	KCA	1	
% IS-Bromochloromethane	98	*%*	%	98	*%*	%	10/20/20	KCA	1	
% IS-Chlorobenzene-d5	98	*%*	%	98	*%*	%	10/20/20	KCA	1	

Project ID: ROWE INDUSTRIES
Client ID: AQ101520 0815NP4-1

Phoenix I.D.: CG98148

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

October 21, 2020

Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

October 21, 2020

FOR: Attn: Mr. Mark Goldberg
WSP USA
4 Research Dr Suite 204
Shelton, CT 06484

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	SP	10/15/20	8:22
Location Code:	WSP	Received by:	LB	10/16/20	11:06
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					
Canister Id:	782				

Laboratory Data

SDG ID: GCG98148
Phoenix ID: CG98149

Project ID: ROWE INDUSTRIES
Client ID: AQ101520 0822NP4-3

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
Volatiles (TO15)										
1,1,1,2-Tetrachloroethane	ND	*0.146*	0.146	ND	*1.00*	1.00	10/20/20	KCA	1	1
1,1,1-Trichloroethane	ND	*0.183*	0.183	ND	*1.00*	1.00	10/20/20	KCA	1	
1,1,2,2-Tetrachloroethane	ND	*0.146*	0.146	ND	*1.00*	1.00	10/20/20	KCA	1	
1,1,2-Trichloroethane	ND	*0.183*	0.183	ND	*1.00*	1.00	10/20/20	KCA	1	
1,1-Dichloroethane	ND	*0.247*	0.247	ND	*1.00*	1.00	10/20/20	KCA	1	
1,1-Dichloroethene	ND	*0.051*	0.051	ND	*0.20*	0.20	10/20/20	KCA	1	
1,2,4-Trichlorobenzene	ND	*0.135*	0.135	ND	*1.00*	1.00	10/20/20	KCA	1	
1,2,4-Trimethylbenzene	ND	*0.204*	0.204	ND	*1.00*	1.00	10/20/20	KCA	1	
1,2-Dibromoethane(EDB)	ND	*0.130*	0.130	ND	*1.00*	1.00	10/20/20	KCA	1	
1,2-Dichlorobenzene	ND	*0.166*	0.166	ND	*1.00*	1.00	10/20/20	KCA	1	
1,2-Dichloroethane	ND	*0.247*	0.247	ND	*1.00*	1.00	10/20/20	KCA	1	
1,2-dichloropropane	ND	*0.217*	0.217	ND	*1.00*	1.00	10/20/20	KCA	1	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	0.143	ND	*1.00*	1.00	10/20/20	KCA	1	
1,3,5-Trimethylbenzene	ND	*0.204*	0.204	ND	*1.00*	1.00	10/20/20	KCA	1	
1,3-Butadiene	ND	*0.452*	0.452	ND	*1.00*	1.00	10/20/20	KCA	1	
1,3-Dichlorobenzene	ND	*0.166*	0.166	ND	*1.00*	1.00	10/20/20	KCA	1	
1,4-Dichlorobenzene	ND	*0.166*	0.166	ND	*1.00*	1.00	10/20/20	KCA	1	
1,4-Dioxane	ND	*0.278*	0.278	ND	*1.00*	1.00	10/20/20	KCA	1	
2-Hexanone(MBK)	ND	*0.244*	0.244	ND	*1.00*	1.00	10/20/20	KCA	1	1
4-Ethyltoluene	ND	*0.204*	0.204	ND	*1.00*	1.00	10/20/20	KCA	1	1
4-Isopropyltoluene	ND	*0.182*	0.182	ND	*1.00*	1.00	10/20/20	KCA	1	1
4-Methyl-2-pentanone(MIBK)	ND	*0.244*	0.244	ND	*1.00*	1.00	10/20/20	KCA	1	
Acetone	9.86	*0.421*	0.421	23.4	*1.00*	1.00	10/20/20	KCA	1	
Acrylonitrile	ND	*0.461*	0.461	ND	*1.00*	1.00	10/20/20	KCA	1	
Benzene	0.853	*0.313*	0.313	2.72	*1.00*	1.00	10/20/20	KCA	1	
Benzyl chloride	ND	*0.193*	0.193	ND	*1.00*	1.00	10/20/20	KCA	1	

Project ID: ROWE INDUSTRIES
Client ID: AQ101520 0822NP4-3

Phoenix I.D.: CG98149

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By		
Bromodichloromethane	ND	*0.149*	0.149	ND	*1.00*	1.00	10/20/20	KCA	1	
Bromoform	ND	*0.097*	0.097	ND	*1.00*	1.00	10/20/20	KCA	1	
Bromomethane	ND	*0.258*	0.258	ND	*1.00*	1.00	10/20/20	KCA	1	
Carbon Disulfide	ND	*0.321*	0.321	ND	*1.00*	1.00	10/20/20	KCA	1	
Carbon Tetrachloride	0.082	*0.032*	0.032	0.52	*0.20*	0.20	10/20/20	KCA	1	
Chlorobenzene	ND	*0.217*	0.217	ND	*1.00*	1.00	10/20/20	KCA	1	
Chloroethane	ND	*0.379*	0.379	ND	*1.00*	1.00	10/20/20	KCA	1	
Chloroform	ND	*0.205*	0.205	ND	*1.00*	1.00	10/20/20	KCA	1	
Chloromethane	0.818	*0.485*	0.485	1.69	*1.00*	1.00	10/20/20	KCA	1	
Cis-1,2-Dichloroethene	ND	*0.051*	0.051	ND	*0.20*	0.20	10/20/20	KCA	1	
cis-1,3-Dichloropropene	ND	*0.221*	0.221	ND	*1.00*	1.00	10/20/20	KCA	1	
Cyclohexane	ND	*0.291*	0.291	ND	*1.00*	1.00	10/20/20	KCA	1	
Dibromochloromethane	ND	*0.118*	0.118	ND	*1.00*	1.00	10/20/20	KCA	1	
Dichlorodifluoromethane	0.431	*0.202*	0.202	2.13	*1.00*	1.00	10/20/20	KCA	1	
Ethanol	17.7	*0.531*	0.531	33.3	*1.00*	1.00	10/20/20	KCA	1	1
Ethyl acetate	ND	*0.278*	0.278	ND	*1.00*	1.00	10/20/20	KCA	1	1
Ethylbenzene	ND	*0.230*	0.230	ND	*1.00*	1.00	10/20/20	KCA	1	
Heptane	ND	*0.244*	0.244	ND	*1.00*	1.00	10/20/20	KCA	1	
Hexachlorobutadiene	ND	*0.094*	0.094	ND	*1.00*	1.00	10/20/20	KCA	1	
Hexane	0.474	*0.284*	0.284	1.67	*1.00*	1.00	10/20/20	KCA	1	
Isopropylalcohol	1.72	*0.407*	0.407	4.23	*1.00*	1.00	10/20/20	KCA	1	
Isopropylbenzene	3.02	*0.204*	0.204	14.8	*1.00*	1.00	10/20/20	KCA	1	
m,p-Xylene	0.259	*0.230*	0.230	1.12	*1.00*	1.00	10/20/20	KCA	1	
Methyl Ethyl Ketone	0.892	*0.339*	0.339	2.63	*1.00*	1.00	10/20/20	KCA	1	
Methyl tert-butyl ether(MTBE)	ND	*0.278*	0.278	ND	*1.00*	1.00	10/20/20	KCA	1	
Methylene Chloride	ND	*0.864*	0.864	ND	*3.00*	3.00	10/20/20	KCA	1	
n-Butylbenzene	ND	*0.182*	0.182	ND	*1.00*	1.00	10/20/20	KCA	1	1
o-Xylene	ND	*0.230*	0.230	ND	*1.00*	1.00	10/20/20	KCA	1	
Propylene	ND	*0.581*	0.581	ND	*1.00*	1.00	10/20/20	KCA	1	1
sec-Butylbenzene	ND	*0.182*	0.182	ND	*1.00*	1.00	10/20/20	KCA	1	1
Styrene	ND	*0.235*	0.235	ND	*1.00*	1.00	10/20/20	KCA	1	
Tetrachloroethene	0.057	*0.037*	0.037	0.39	*0.25*	0.25	10/20/20	KCA	1	
Tetrahydrofuran	ND	*0.339*	0.339	ND	*1.00*	1.00	10/20/20	KCA	1	1
Toluene	0.521	*0.266*	0.266	1.96	*1.00*	1.00	10/20/20	KCA	1	
Trans-1,2-Dichloroethene	ND	*0.252*	0.252	ND	*1.00*	1.00	10/20/20	KCA	1	
trans-1,3-Dichloropropene	ND	*0.221*	0.221	ND	*1.00*	1.00	10/20/20	KCA	1	
Trichloroethene	ND	*0.037*	0.037	ND	*0.20*	0.20	10/20/20	KCA	1	
Trichlorofluoromethane	0.251	*0.178*	0.178	1.41	*1.00*	1.00	10/20/20	KCA	1	
Trichlorotrifluoroethane	ND	*0.131*	0.131	ND	*1.00*	1.00	10/20/20	KCA	1	
Vinyl Chloride	ND	*0.078*	0.078	ND	*0.20*	0.20	10/20/20	KCA	1	
QA/QC Surrogates/Internals										
% Bromofluorobenzene	104	%	%	104	%	%	10/20/20	KCA	1	
% IS-1,4-Difluorobenzene	98	%	%	98	%	%	10/20/20	KCA	1	
% IS-Bromochloromethane	92	%	%	92	%	%	10/20/20	KCA	1	
% IS-Chlorobenzene-d5	97	%	%	97	%	%	10/20/20	KCA	1	

Project ID: ROWE INDUSTRIES
Client ID: AQ101520 0822NP4-3

Phoenix I.D.: CG98149

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
October 21, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

Wednesday, October 21, 2020

Criteria: None

State: NY

Sample Criteria Exceedances Report

GCG98148 - WSP

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

PHOENIX
Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone: 860.645.1102 • Fax: 860.645.0823

CHAIN OF CUSTODY RECORD
AIR ANALYSES

800-827-5426
email: greg@phoenixlabs.com

P.O. # | Page 1 of 1

Data Delivery:
☐ Fax #:
☑ Email: Tunde.Sandore@WSP.com
☒ Phone #: 203-929-8555

Report to: Scott Philbrick / Mark Goldberg	Project Name: Rowe Industries	Data Format: (Circle) Equis Excel EDD Other:
Customer: WSP	Invoice to: WSP USA Accounting	Requested Deliverable: RCP ASP CAT B
Address: 4 Research Dr. Suite 204		NY ASP B Package MCP NJ Deliverables
Shelton, CT 06484	Sampled by: SP	Quote Number:

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure (" Hg)	Incoming Canister Pressure ("Hg)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start (" Hg)	Canister Pressure at End ("Hg)	Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)	TO-15	APH
	THIS SECTION FOR LAB USE ONLY												MATRIX			ANALYSES	
98148	AQ101520: ~~NP4-1~~ 0815 NP4-6	727	1.4	-30	-1.0	NA	NA	8:15	8:15	10.15.20	-30	-2			G	X	
98149	AQ101520: ~~NP4-3~~ 0822 NP4-4	782	1.4	-30	0	NA	NA	8:22	8:22	10.15.20	-30	-3.5			G	X	

Relinquished by:	Accepted by:	Date:	Time:
Scott Philbrick		10/16/20	805
		10/16/20	1106

I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document:

Signature: Scott Philbrick Date: 10-15-20

State Where Samples Collected: NY

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:
(2)(1.4)
GRAB
Gauge

Turnaround Time:
1 Day ☐
2 Day ☐
3 Day ☐
4 Day ☐
5 Day ☒

Requested Criteria: (Please Circle)

CT:	MA:	NJ:	NY:	PA:	VT:
TAC I/C	Indoor Air:	Indoor Air:	Vapor Intrusion	Indoor Air	Indoor Air
TAC RES	Residential	Residential	ASP B Package	Residential	Residential
SVVC I/C	Ind/Commercial	Ind/Commercial	QA Report	Non-residential	Industrial
SVVC RES	Soil Gas:	Soil Gas:	Summary Report		Sub-slab
GWV I/C	Residential	Residential			Residential
GWV CES	Ind/Commercial	Ind/Commercial			Industrial

PEL-115 Rev. 9/2019