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 July 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 July 1, 2020 through July 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

(July 1, 2020 through July 31, 2020)

1. Hours of operation during the reporting period:	586 hours (79%)
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:	1,168,522 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
8. Effluent VOC vapor concentration for the reporting period:	0.50 mg/m^3 (see Table 4)
9. Was the effluent VOC vapor emission rate below 0.022 lbs./hr.: (calculations can be provided upon request)	yes (0.00553 lbs./hr.)

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

T +1-203-929-8555
wsp.com

PUMP AND TREAT SYSTEM STATUS SUMMARY

On July 7, 2020, the air stripper and booster blower belts were replaced. An evaluation was completed for both blowers and the contractor indicated that the air stripper blower wheel was pitted and the silencer for the booster blower has corrosion. The blowers were operational following belt replacement and will be monitored during subsequent site visits. The remaining O&M activities for July 2020 are included in Table 1.

SUMMARY OF SAMPLING ACTIVITIES

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

- A monthly groundwater sample was collected from RW-2 on July 7, 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 August 2020 include:

- 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\July\Draft Status Report - July 2020.docx

TABLES

TABLE 1

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

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

Date	Time	System Changes/Modifications	Personnel
7/7/20		Replaced air stripper blower (ASB) and booster blower (BB) belts; balanced blowers and evaluated ASB and BB conditions. Tested both blowers and both appear to be functioning normally. The wheel of the ASB is pitted and replacement is recommended. The pitting may be causing increased vibration and noise and may promote quicker belt failure with time. The silencer on the booster blower is corroded and water is dripping from the blower onto the cover of the BB motor. Both items will be monitored during subsequent site visits.	SP, ACFM
	12:30 PM	Reset alarms and restarted the system without issue. The vibration noise coming from the ASB that was noticed last month has been reduced.	SP
		The frac tank used for the annual system cleaning event was cleaned out by the contractor. Waste was tested to be characteristically non-hazardous and disposed of as non-hazardous waste at an approved disposal facility.	Cisco, SP
7/16/20		The security monitoring company indicates they are not receiving a signal from our system. During the next scheduled site visit, WSP will investigate.	ATP
7/21/20		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
		After discussing with the security company, it was determined that the breaker for the security monitoring device was tripped and once the breaker was reset, the security company indicated that the security monitoring equipment was working.	SP, ATP

Notes:

SP	Scott Philbrick, WSP USA
ACFM	Dynamics, LLC (contractor)
Cisco	Cisco Geotechnical, LLC (contractor)
ATP	American Total Protection (security company)

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-Aug-19	6.8	168	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	1.30	1.24
5-Sep-19	6.8	172	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	0.291	ND<0.278
3-Oct-19	6.5	165	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	0.612	ND<0.278
4-Nov-19	6.0	102	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	0.536	ND<0.278
5-Dec-19	6.8	129	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	NA	NA
7-Jan-20	6.8	175	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	NA	NA
4-Feb-20	7.0	122	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	NA	NA
2-Mar-20	7.0	137	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	NA	NA
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

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 July 21, 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

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

Carbon Unit System Air Quality Results

Precarbon

Sample Name	Date	Time	Parameters (mg/m3) PCE	TCE	TCA	DCA	cis-DCE	trans-DCE	Toluene	m&p-Xylenes	o-Xylene	CF	MC	EB	Freon 113	TOTAL 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

Postcarbon

Sample Name	Date	Time	Parameters (mg/m3) PCE	TCE	TCA	DCA	cis-DCE	trans-DCE	Toluene	m&p-Xylenes	o-Xylene	CF	MC	EB	Freon 113	TOTAL 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

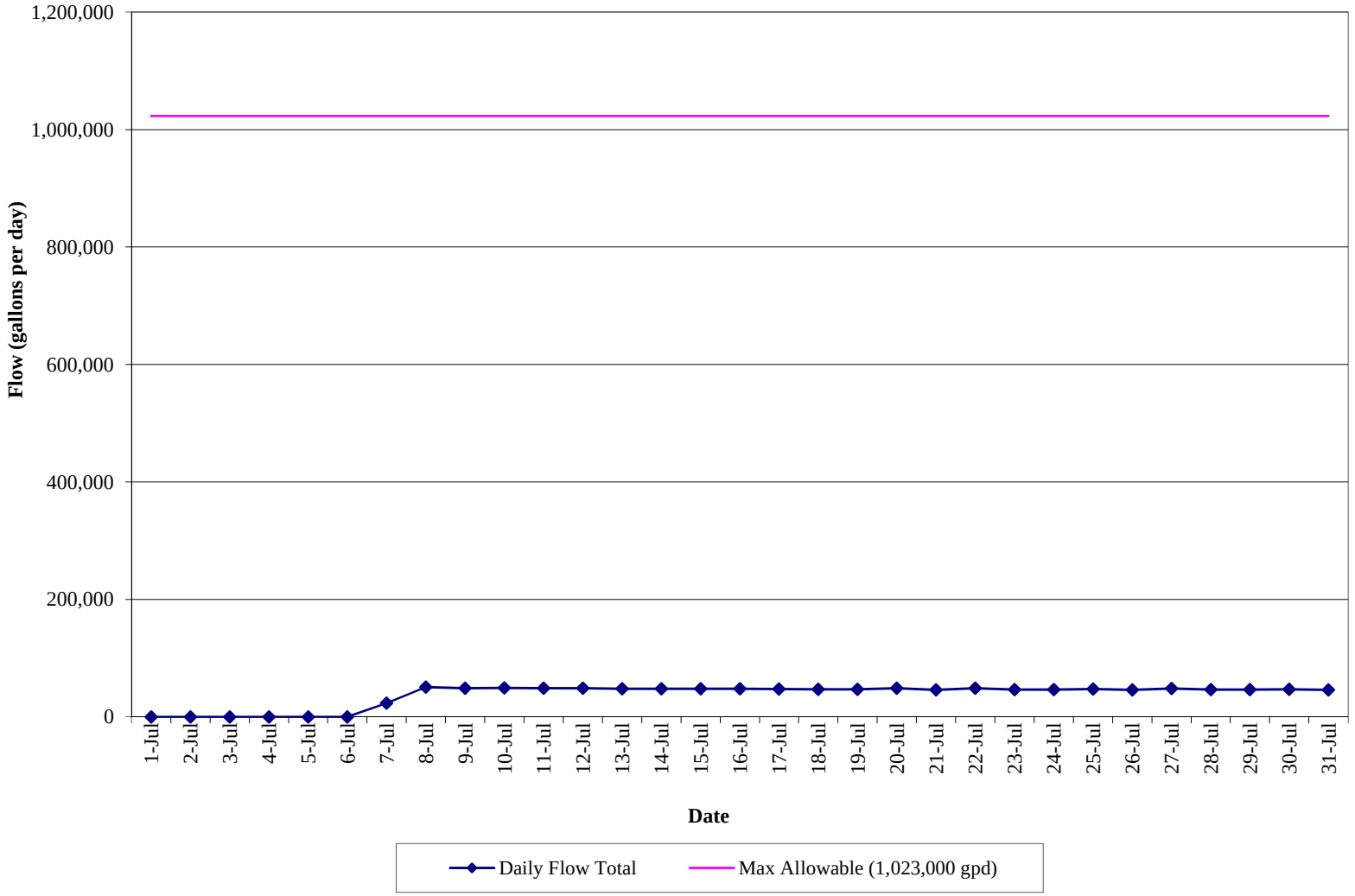
PCE: Tetrachloroethylene
TCE: Trichloroethene
TCA: 1,1,1-Trichloroethane
DCE: 1,1-Dichloroethene
DCA: 1,1-Dichloroethane
cis-DCE: cis-1,2-Dichloroethene
trans-DCE: trans-1,2-Dichloroethylene
CF: Chloroform
MC: Methylene Chloride
EB: Ethylbenzene

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

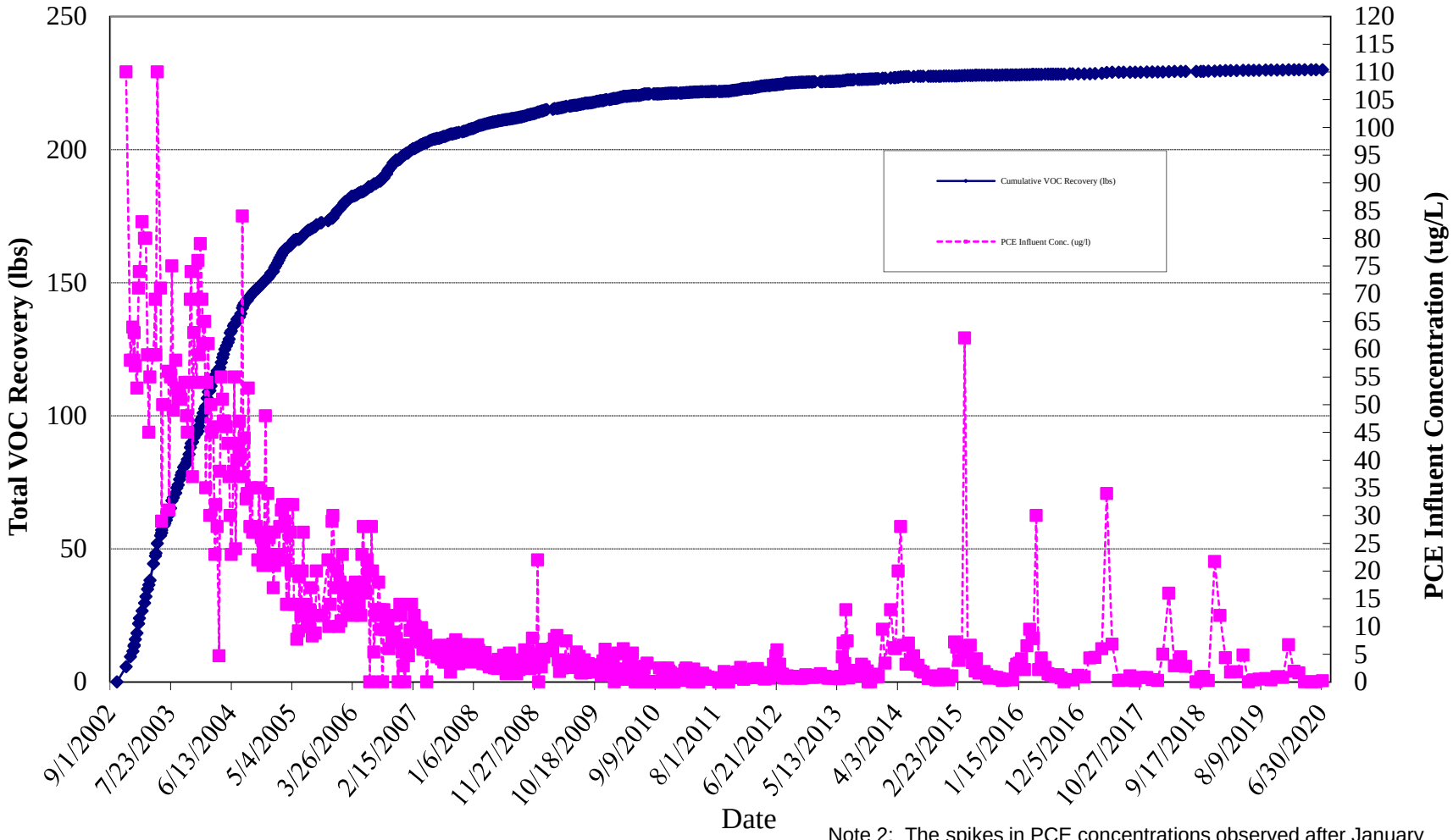
GRAPH 1
GROUNDWATER REMEDIAL ACTION
ROWE INDUSTRIES SUPERFUND SITE
SAG HARBOR, NEW YORK

Effluent Flow Data
(July 1, 2020 to July 30, 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



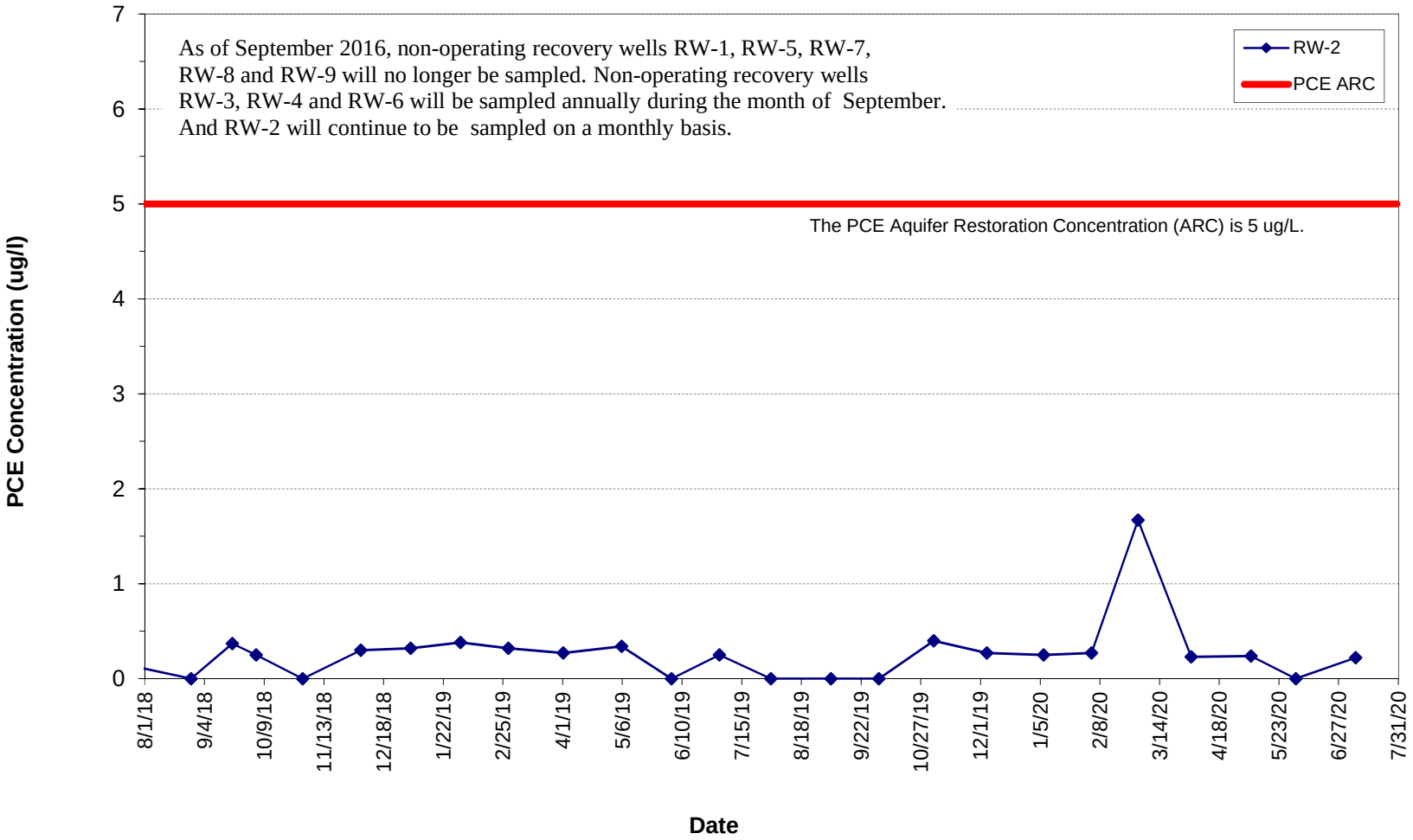
Note 1 : After September 22, 2008, the water recovered from the FP&T System is included in the results shown in this graph.

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



APPENDIX I

JULY 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: 07/14/2020
Client Project ID: 31401451.000 Task 01.00 Rowe Industries
York Project (SDG) No.: 20G0227

Report Date: 07/14/2020
Client Project ID: 31401451.000 Task 01.00 Rowe Industries
York Project (SDG) No.: 20G0227

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 July 07, 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
20G0227-01	WQ070720:1320 NP2-10	Water	07/07/2020	07/07/2020

General Notes for York Project (SDG) No.: 20G0227

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: 07/14/2020

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: WQ070720:1320 NP2-10 **York Sample ID:** 20G0227-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20G0227	31401451.000 Task 01.00 Rowe Industries	Water	July 7, 2020 1:20 pm	07/07/2020

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:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:26	TMP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:26	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:26	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:26	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:26	TMP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:26	TMP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:26	TMP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 NELAC-NY10854,NELAC-NY12058,NJDEP	07/10/2020 20:26	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:26	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:26	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:26	TMP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:26	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:26	TMP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:26	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:26	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:26	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:26	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:26	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:26	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:26	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:26	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:26	TMP

Sample Information

Client Sample ID: WQ070720:1320 NP2-10 **York Sample ID:** 20G0227-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20G0227	31401451.000 Task 01.00 Rowe Industries	Water	July 7, 2020 1:20 pm	07/07/2020

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:	07/08/2020 00:46	07/10/2020 20:26	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:26	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:26	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:26	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:26	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:26	TMP NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:26	TMP NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:26	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:26	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:26	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:26	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:26	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:26	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:26	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:26	TMP 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:	07/08/2020 00:46	07/10/2020 20:26	TMP 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:	07/08/2020 00:46	07/10/2020 20:26	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:26	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:26	TMP NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:26	TMP NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:26	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:26	TMP NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:26	TMP CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP

Sample Information

Client Sample ID: WQ070720:1320 NP2-10 **York Sample ID:** 20G0227-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20G0227	31401451.000 Task 01.00 Rowe Industries	Water	July 7, 2020 1:20 pm	07/07/2020

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:	07/08/2020 00:46	07/10/2020 20:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:26 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:26 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	TMP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:26 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	TMP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:26 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	TMP

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*103 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*93.2 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*102 %*	*79-122*

Total Dissolved Solids

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: **WQ070720:1320 NP2-10** **York Sample ID:** **20G0227-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20G0227	31401451.000 Task 01.00 Rowe Industries	Water	July 7, 2020 1:20 pm	07/07/2020

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	**125**		mg/L	10.0	1	SM 2540C	07/08/2020 18:01	07/10/2020 17:04	AA
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

Analytical Batch Summary

Batch ID: BG00374 **Preparation Method:** EPA 5030B **Prepared By:** TMP

YORK Sample ID	Client Sample ID	Preparation Date
20G0227-01	WQ070720:1320 NP2-10	07/08/20
BG00374-BLK1	Blank	07/10/20
BG00374-BS1	LCS	07/10/20
BG00374-BSD1	LCS Dup	07/10/20

Batch ID: BG00411 **Preparation Method:** % Solids Prep **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
20G0227-01	WQ070720:1320 NP2-10	07/08/20
BG00411-BLK1	Blank	07/08/20

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 BG00374 - EPA 5030B											
Blank (BG00374-BLK1)											Prepared & Analyzed: 07/10/2020
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 BG00374 - EPA 5030B											
Blank (BG00374-BLK1)								Prepared & Analyzed: 07/10/2020			
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	*9.34*		*"*	*10.0*		*93.4*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.3*		*"*	*10.0*		*103*	*79-122*				
LCS (BG00374-BS1)								Prepared & Analyzed: 07/10/2020			
1,1,1,2-Tetrachloroethane	8.50		ug/L	10.0		85.0	82-126				
1,1,1-Trichloroethane	9.64		"	10.0		96.4	78-136				
1,1,2,2-Tetrachloroethane	7.76		"	10.0		77.6	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.1		"	10.0		101	54-165				
1,1,2-Trichloroethane	7.85		"	10.0		78.5	82-123	Low Bias			
1,1-Dichloroethane	9.51		"	10.0		95.1	82-129				
1,1-Dichloroethylene	10.2		"	10.0		102	68-138				
1,1-Dichloropropylene	9.24		"	10.0		92.4	83-133				
1,2,3-Trichlorobenzene	5.12		"	10.0		51.2	76-136	Low Bias			
1,2,3-Trichloropropane	8.34		"	10.0		83.4	77-128				
1,2,4-Trichlorobenzene	6.59		"	10.0		65.9	76-137	Low Bias			
1,2,4-Trimethylbenzene	9.00		"	10.0		90.0	82-132				
1,2-Dibromo-3-chloropropane	7.15		"	10.0		71.5	45-147				
1,2-Dibromoethane	8.02		"	10.0		80.2	83-124	Low Bias			
1,2-Dichlorobenzene	8.77		"	10.0		87.7	79-123				
1,2-Dichloroethane	9.51		"	10.0		95.1	73-132				
1,2-Dichloropropane	7.74		"	10.0		77.4	78-126	Low Bias			
1,3,5-Trimethylbenzene	8.88		"	10.0		88.8	80-131				
1,3-Dichlorobenzene	8.91		"	10.0		89.1	86-122				
1,3-Dichloropropane	7.77		"	10.0		77.7	81-125	Low Bias			
1,4-Dichlorobenzene	9.08		"	10.0		90.8	85-124				
2,2-Dichloropropane	14.1		"	10.0		141	56-150				
2-Chlorotoluene	8.76		"	10.0		87.6	79-130				
2-Hexanone	6.84		"	10.0		68.4	51-146				
4-Chlorotoluene	8.82		"	10.0		88.2	79-128				
Acetone	8.84		"	10.0		88.4	14-150				
Benzene	9.19		"	10.0		91.9	85-126				
Bromobenzene	7.92		"	10.0		79.2	78-129				
Bromochloromethane	9.49		"	10.0		94.9	77-128				
Bromodichloromethane	7.95		"	10.0		79.5	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 BG00374 - EPA 5030B											
LCS (BG00374-BS1)								Prepared & Analyzed: 07/10/2020			
Bromoform	7.14		ug/L	10.0		71.4	78-133	Low Bias			
Bromomethane	3.67		"	10.0		36.7	43-168	Low Bias			
Carbon tetrachloride	8.90		"	10.0		89.0	77-141				
Chlorobenzene	8.65		"	10.0		86.5	88-120	Low Bias			
Chloroethane	10.9		"	10.0		109	65-136				
Chloroform	9.52		"	10.0		95.2	82-128				
Chloromethane	13.8		"	10.0		138	43-155				
cis-1,2-Dichloroethylene	10.0		"	10.0		100	83-129				
cis-1,3-Dichloropropylene	7.86		"	10.0		78.6	80-131	Low Bias			
Dibromochloromethane	7.82		"	10.0		78.2	80-130	Low Bias			
Dibromomethane	7.93		"	10.0		79.3	72-134				
Dichlorodifluoromethane	14.2		"	10.0		142	44-144				
Ethyl Benzene	8.59		"	10.0		85.9	80-131				
Hexachlorobutadiene	7.81		"	10.0		78.1	67-146				
Isopropylbenzene	8.25		"	10.0		82.5	76-140				
Methyl tert-butyl ether (MTBE)	8.73		"	10.0		87.3	76-135				
Methylene chloride	9.52		"	10.0		95.2	55-137				
Naphthalene	5.14		"	10.0		51.4	70-147	Low Bias			
n-Butylbenzene	8.02		"	10.0		80.2	79-132				
n-Propylbenzene	8.08		"	10.0		80.8	78-133				
o-Xylene	8.66		"	10.0		86.6	78-130				
p- & m- Xylenes	17.2		"	20.0		85.8	77-133				
p-Isopropyltoluene	8.42		"	10.0		84.2	81-136				
sec-Butylbenzene	8.12		"	10.0		81.2	79-137				
Styrene	8.82		"	10.0		88.2	67-132				
tert-Butylbenzene	6.70		"	10.0		67.0	77-138	Low Bias			
Tetrachloroethylene	8.60		"	10.0		86.0	82-131				
Toluene	8.32		"	10.0		83.2	80-127				
trans-1,2-Dichloroethylene	10.0		"	10.0		100	80-132				
trans-1,3-Dichloropropylene	7.53		"	10.0		75.3	78-131	Low Bias			
Trichloroethylene	8.29		"	10.0		82.9	82-128				
Trichlorofluoromethane	12.0		"	10.0		120	67-139				
Vinyl Chloride	12.5		"	10.0		125	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.3*		*"*	*10.0*		*103*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.38*		*"*	*10.0*		*93.8*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.2*		*"*	*10.0*		*102*	*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 BG00374 - EPA 5030B											
LCS Dup (BG00374-BSD1)								Prepared & Analyzed: 07/10/2020			
1,1,1,2-Tetrachloroethane	9.05		ug/L	10.0		90.5	82-126		6.27	30	
1,1,1-Trichloroethane	10.4		"	10.0		104	78-136		7.87	30	
1,1,2,2-Tetrachloroethane	8.58		"	10.0		85.8	76-129		10.0	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.2		"	10.0		112	54-165		10.5	30	
1,1,2-Trichloroethane	8.75		"	10.0		87.5	82-123		10.8	30	
1,1-Dichloroethane	9.96		"	10.0		99.6	82-129		4.62	30	
1,1-Dichloroethylene	11.2		"	10.0		112	68-138		9.57	30	
1,1-Dichloropropylene	10.1		"	10.0		101	83-133		9.19	30	
1,2,3-Trichlorobenzene	5.64		"	10.0		56.4	76-136	Low Bias	9.67	30	
1,2,3-Trichloropropane	9.41		"	10.0		94.1	77-128		12.1	30	
1,2,4-Trichlorobenzene	7.38		"	10.0		73.8	76-137	Low Bias	11.3	30	
1,2,4-Trimethylbenzene	9.64		"	10.0		96.4	82-132		6.87	30	
1,2-Dibromo-3-chloropropane	7.84		"	10.0		78.4	45-147		9.21	30	
1,2-Dibromoethane	8.90		"	10.0		89.0	83-124		10.4	30	
1,2-Dichlorobenzene	9.57		"	10.0		95.7	79-123		8.72	30	
1,2-Dichloroethane	10.3		"	10.0		103	73-132		8.36	30	
1,2-Dichloropropane	8.42		"	10.0		84.2	78-126		8.42	30	
1,3,5-Trimethylbenzene	9.51		"	10.0		95.1	80-131		6.85	30	
1,3-Dichlorobenzene	9.54		"	10.0		95.4	86-122		6.83	30	
1,3-Dichloropropane	8.60		"	10.0		86.0	81-125		10.1	30	
1,4-Dichlorobenzene	9.80		"	10.0		98.0	85-124		7.63	30	
2,2-Dichloropropane	14.8		"	10.0		148	56-150		4.57	30	
2-Chlorotoluene	9.45		"	10.0		94.5	79-130		7.58	30	
2-Hexanone	7.60		"	10.0		76.0	51-146		10.5	30	
4-Chlorotoluene	9.39		"	10.0		93.9	79-128		6.26	30	
Acetone	9.49		"	10.0		94.9	14-150		7.09	30	
Benzene	9.91		"	10.0		99.1	85-126		7.54	30	
Bromobenzene	9.05		"	10.0		90.5	78-129		13.3	30	
Bromochloromethane	10.3		"	10.0		103	77-128		8.28	30	
Bromodichloromethane	8.61		"	10.0		86.1	79-128		7.97	30	
Bromoform	7.89		"	10.0		78.9	78-133		9.98	30	
Bromomethane	3.45		"	10.0		34.5	43-168	Low Bias	6.18	30	
Carbon tetrachloride	9.74		"	10.0		97.4	77-141		9.01	30	
Chlorobenzene	9.39		"	10.0		93.9	88-120		8.20	30	
Chloroethane	11.7		"	10.0		117	65-136		6.64	30	
Chloroform	10.3		"	10.0		103	82-128		7.68	30	
Chloromethane	12.3		"	10.0		123	43-155		11.1	30	
cis-1,2-Dichloroethylene	10.6		"	10.0		106	83-129		5.24	30	
cis-1,3-Dichloropropylene	8.40		"	10.0		84.0	80-131		6.64	30	
Dibromochloromethane	8.54		"	10.0		85.4	80-130		8.80	30	
Dibromomethane	8.59		"	10.0		85.9	72-134		7.99	30	
Dichlorodifluoromethane	18.5		"	10.0		185	44-144	High Bias	26.3	30	
Ethyl Benzene	9.27		"	10.0		92.7	80-131		7.61	30	
Hexachlorobutadiene	7.96		"	10.0		79.6	67-146		1.90	30	
Isopropylbenzene	8.96		"	10.0		89.6	76-140		8.25	30	
Methyl tert-butyl ether (MTBE)	9.50		"	10.0		95.0	76-135		8.45	30	
Methylene chloride	10.2		"	10.0		102	55-137		7.09	30	
Naphthalene	5.84		"	10.0		58.4	70-147	Low Bias	12.8	30	
n-Butylbenzene	8.62		"	10.0		86.2	79-132		7.21	30	
n-Propylbenzene	8.88		"	10.0		88.8	78-133		9.43	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 BG00374 - EPA 5030B											
LCS Dup (BG00374-BSD1)								Prepared & Analyzed: 07/10/2020			
o-Xylene	9.37		ug/L	10.0		93.7	78-130		7.88	30	
p- & m- Xylenes	18.7		"	20.0		93.6	77-133		8.70	30	
p-Isopropyltoluene	9.19		"	10.0		91.9	81-136		8.75	30	
sec-Butylbenzene	8.98		"	10.0		89.8	79-137		10.1	30	
Styrene	9.55		"	10.0		95.5	67-132		7.95	30	
tert-Butylbenzene	7.38		"	10.0		73.8	77-138	Low Bias	9.66	30	
Tetrachloroethylene	9.41		"	10.0		94.1	82-131		8.99	30	
Toluene	8.97		"	10.0		89.7	80-127		7.52	30	
trans-1,2-Dichloroethylene	10.7		"	10.0		107	80-132		6.64	30	
trans-1,3-Dichloropropylene	8.15		"	10.0		81.5	78-131		7.91	30	
Trichloroethylene	8.96		"	10.0		89.6	82-128		7.77	30	
Trichlorofluoromethane	12.0		"	10.0		120	67-139		0.418	30	
Vinyl Chloride	12.5		"	10.0		125	58-145		0.160	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.5*		*"*	*10.0*		*105*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.34*		*"*	*10.0*		*93.4*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.0*		*"*	*10.0*		*100*	*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 BG00411 - % Solids Prep											
Blank (BG00411-BLK1)											Prepared: 07/08/2020 Analyzed: 07/10/2020
Total Dissolved Solids	ND	10.0	mg/L								

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
20G0227-01	WQ070720:1320 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. 20G0227

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

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

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

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
~~WQ 070720 : 1310 NP2-16~~	GW	7-7-20 13:10	~~VOCs 8260 full list + freon 113~~	~~3 HCl VOA~~
WQ 070720 : 1320 NP2-1D	GW	7-7-20 13:20	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	7-7-20 16:30				
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**
				KBlock 7/7/20 1616	4.5 Degrees C

Technical Report

prepared for:

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

Report Date: 07/14/2020
Client Project ID: 31401451.000 Task 01.00 Rowe Industries
York Project (SDG) No.: 20G0224

Report Date: 07/14/2020
Client Project ID: 31401451.000 Task 01.00 Rowe Industries
York Project (SDG) No.: 20G0224

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 July 07, 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
20G0224-01	WQ070720:1245 NP1-1-2	Water	07/07/2020	07/07/2020

General Notes for York Project (SDG) No.: 20G0224

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: 07/14/2020

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: WQ070720:1245 NP1-1-2 **York Sample ID:** 20G0224-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20G0224	31401451.000 Task 01.00 Rowe Industries	Water	July 7, 2020 12:45 pm	07/07/2020

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:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 NELAC-NY10854,NELAC-NY12058,NJDEP	07/10/2020 20:01	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP

Sample Information

Client Sample ID: WQ070720:1245 NP1-1-2 **York Sample ID:** 20G0224-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20G0224	31401451.000 Task 01.00 Rowe Industries	Water	July 7, 2020 12:45 pm	07/07/2020

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:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP
67-64-1	**Acetone**	**1.15**		ug/L	1.00	2.00	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/10/2020 20:01	TMP

Sample Information

Client Sample ID: WQ070720:1245 NP1-1-2 **York Sample ID:** 20G0224-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20G0224	31401451.000 Task 01.00 Rowe Industries	Water	July 7, 2020 12:45 pm	07/07/2020

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:	07/08/2020 00:46	07/10/2020 20:01 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:01 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:01 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:01 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:01 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:01 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	TMP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:01 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	TMP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:01 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:01 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:01 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:01 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
127-18-4	**Tetrachloroethylene**	**0.220**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:01 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:01 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:01 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:01 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:01 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:01 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:01 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	TMP
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	07/08/2020 00:46	07/10/2020 20:01 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	TMP

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*102 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*93.4 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*100 %*	*79-122*

Analytical Batch Summary

Batch ID: BG00374 **Preparation Method:** EPA 5030B **Prepared By:** TMP

YORK Sample ID	Client Sample ID	Preparation Date
20G0224-01	WQ070720:1245 NP1-1-2	07/08/20
BG00374-BLK1	Blank	07/10/20
BG00374-BS1	LCS	07/10/20
BG00374-BSD1	LCS Dup	07/10/20

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 BG00374 - EPA 5030B											
Blank (BG00374-BLK1)											Prepared & Analyzed: 07/10/2020
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 BG00374 - EPA 5030B											
Blank (BG00374-BLK1)								Prepared & Analyzed: 07/10/2020			
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	*9.34*		*"*	*10.0*		*93.4*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.3*		*"*	*10.0*		*103*	*79-122*				
LCS (BG00374-BS1)								Prepared & Analyzed: 07/10/2020			
1,1,1,2-Tetrachloroethane	8.50		ug/L	10.0		85.0	82-126				
1,1,1-Trichloroethane	9.64		"	10.0		96.4	78-136				
1,1,2,2-Tetrachloroethane	7.76		"	10.0		77.6	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.1		"	10.0		101	54-165				
1,1,2-Trichloroethane	7.85		"	10.0		78.5	82-123	Low Bias			
1,1-Dichloroethane	9.51		"	10.0		95.1	82-129				
1,1-Dichloroethylene	10.2		"	10.0		102	68-138				
1,1-Dichloropropylene	9.24		"	10.0		92.4	83-133				
1,2,3-Trichlorobenzene	5.12		"	10.0		51.2	76-136	Low Bias			
1,2,3-Trichloropropane	8.34		"	10.0		83.4	77-128				
1,2,4-Trichlorobenzene	6.59		"	10.0		65.9	76-137	Low Bias			
1,2,4-Trimethylbenzene	9.00		"	10.0		90.0	82-132				
1,2-Dibromo-3-chloropropane	7.15		"	10.0		71.5	45-147				
1,2-Dibromoethane	8.02		"	10.0		80.2	83-124	Low Bias			
1,2-Dichlorobenzene	8.77		"	10.0		87.7	79-123				
1,2-Dichloroethane	9.51		"	10.0		95.1	73-132				
1,2-Dichloropropane	7.74		"	10.0		77.4	78-126	Low Bias			
1,3,5-Trimethylbenzene	8.88		"	10.0		88.8	80-131				
1,3-Dichlorobenzene	8.91		"	10.0		89.1	86-122				
1,3-Dichloropropane	7.77		"	10.0		77.7	81-125	Low Bias			
1,4-Dichlorobenzene	9.08		"	10.0		90.8	85-124				
2,2-Dichloropropane	14.1		"	10.0		141	56-150				
2-Chlorotoluene	8.76		"	10.0		87.6	79-130				
2-Hexanone	6.84		"	10.0		68.4	51-146				
4-Chlorotoluene	8.82		"	10.0		88.2	79-128				
Acetone	8.84		"	10.0		88.4	14-150				
Benzene	9.19		"	10.0		91.9	85-126				
Bromobenzene	7.92		"	10.0		79.2	78-129				
Bromochloromethane	9.49		"	10.0		94.9	77-128				
Bromodichloromethane	7.95		"	10.0		79.5	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 BG00374 - EPA 5030B											
LCS (BG00374-BS1)								Prepared & Analyzed: 07/10/2020			
Bromoform	7.14		ug/L	10.0		71.4	78-133	Low Bias			
Bromomethane	3.67		"	10.0		36.7	43-168	Low Bias			
Carbon tetrachloride	8.90		"	10.0		89.0	77-141				
Chlorobenzene	8.65		"	10.0		86.5	88-120	Low Bias			
Chloroethane	10.9		"	10.0		109	65-136				
Chloroform	9.52		"	10.0		95.2	82-128				
Chloromethane	13.8		"	10.0		138	43-155				
cis-1,2-Dichloroethylene	10.0		"	10.0		100	83-129				
cis-1,3-Dichloropropylene	7.86		"	10.0		78.6	80-131	Low Bias			
Dibromochloromethane	7.82		"	10.0		78.2	80-130	Low Bias			
Dibromomethane	7.93		"	10.0		79.3	72-134				
Dichlorodifluoromethane	14.2		"	10.0		142	44-144				
Ethyl Benzene	8.59		"	10.0		85.9	80-131				
Hexachlorobutadiene	7.81		"	10.0		78.1	67-146				
Isopropylbenzene	8.25		"	10.0		82.5	76-140				
Methyl tert-butyl ether (MTBE)	8.73		"	10.0		87.3	76-135				
Methylene chloride	9.52		"	10.0		95.2	55-137				
Naphthalene	5.14		"	10.0		51.4	70-147	Low Bias			
n-Butylbenzene	8.02		"	10.0		80.2	79-132				
n-Propylbenzene	8.08		"	10.0		80.8	78-133				
o-Xylene	8.66		"	10.0		86.6	78-130				
p- & m- Xylenes	17.2		"	20.0		85.8	77-133				
p-Isopropyltoluene	8.42		"	10.0		84.2	81-136				
sec-Butylbenzene	8.12		"	10.0		81.2	79-137				
Styrene	8.82		"	10.0		88.2	67-132				
tert-Butylbenzene	6.70		"	10.0		67.0	77-138	Low Bias			
Tetrachloroethylene	8.60		"	10.0		86.0	82-131				
Toluene	8.32		"	10.0		83.2	80-127				
trans-1,2-Dichloroethylene	10.0		"	10.0		100	80-132				
trans-1,3-Dichloropropylene	7.53		"	10.0		75.3	78-131	Low Bias			
Trichloroethylene	8.29		"	10.0		82.9	82-128				
Trichlorofluoromethane	12.0		"	10.0		120	67-139				
Vinyl Chloride	12.5		"	10.0		125	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.3*		*"*	*10.0*		*103*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.38*		*"*	*10.0*		*93.8*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.2*		*"*	*10.0*		*102*	*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 BG00374 - EPA 5030B											
LCS Dup (BG00374-BSD1)								Prepared & Analyzed: 07/10/2020			
1,1,1,2-Tetrachloroethane	9.05		ug/L	10.0		90.5	82-126		6.27	30	
1,1,1-Trichloroethane	10.4		"	10.0		104	78-136		7.87	30	
1,1,2,2-Tetrachloroethane	8.58		"	10.0		85.8	76-129		10.0	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.2		"	10.0		112	54-165		10.5	30	
1,1,2-Trichloroethane	8.75		"	10.0		87.5	82-123		10.8	30	
1,1-Dichloroethane	9.96		"	10.0		99.6	82-129		4.62	30	
1,1-Dichloroethylene	11.2		"	10.0		112	68-138		9.57	30	
1,1-Dichloropropylene	10.1		"	10.0		101	83-133		9.19	30	
1,2,3-Trichlorobenzene	5.64		"	10.0		56.4	76-136	Low Bias	9.67	30	
1,2,3-Trichloropropane	9.41		"	10.0		94.1	77-128		12.1	30	
1,2,4-Trichlorobenzene	7.38		"	10.0		73.8	76-137	Low Bias	11.3	30	
1,2,4-Trimethylbenzene	9.64		"	10.0		96.4	82-132		6.87	30	
1,2-Dibromo-3-chloropropane	7.84		"	10.0		78.4	45-147		9.21	30	
1,2-Dibromoethane	8.90		"	10.0		89.0	83-124		10.4	30	
1,2-Dichlorobenzene	9.57		"	10.0		95.7	79-123		8.72	30	
1,2-Dichloroethane	10.3		"	10.0		103	73-132		8.36	30	
1,2-Dichloropropane	8.42		"	10.0		84.2	78-126		8.42	30	
1,3,5-Trimethylbenzene	9.51		"	10.0		95.1	80-131		6.85	30	
1,3-Dichlorobenzene	9.54		"	10.0		95.4	86-122		6.83	30	
1,3-Dichloropropane	8.60		"	10.0		86.0	81-125		10.1	30	
1,4-Dichlorobenzene	9.80		"	10.0		98.0	85-124		7.63	30	
2,2-Dichloropropane	14.8		"	10.0		148	56-150		4.57	30	
2-Chlorotoluene	9.45		"	10.0		94.5	79-130		7.58	30	
2-Hexanone	7.60		"	10.0		76.0	51-146		10.5	30	
4-Chlorotoluene	9.39		"	10.0		93.9	79-128		6.26	30	
Acetone	9.49		"	10.0		94.9	14-150		7.09	30	
Benzene	9.91		"	10.0		99.1	85-126		7.54	30	
Bromobenzene	9.05		"	10.0		90.5	78-129		13.3	30	
Bromochloromethane	10.3		"	10.0		103	77-128		8.28	30	
Bromodichloromethane	8.61		"	10.0		86.1	79-128		7.97	30	
Bromoform	7.89		"	10.0		78.9	78-133		9.98	30	
Bromomethane	3.45		"	10.0		34.5	43-168	Low Bias	6.18	30	
Carbon tetrachloride	9.74		"	10.0		97.4	77-141		9.01	30	
Chlorobenzene	9.39		"	10.0		93.9	88-120		8.20	30	
Chloroethane	11.7		"	10.0		117	65-136		6.64	30	
Chloroform	10.3		"	10.0		103	82-128		7.68	30	
Chloromethane	12.3		"	10.0		123	43-155		11.1	30	
cis-1,2-Dichloroethylene	10.6		"	10.0		106	83-129		5.24	30	
cis-1,3-Dichloropropylene	8.40		"	10.0		84.0	80-131		6.64	30	
Dibromochloromethane	8.54		"	10.0		85.4	80-130		8.80	30	
Dibromomethane	8.59		"	10.0		85.9	72-134		7.99	30	
Dichlorodifluoromethane	18.5		"	10.0		185	44-144	High Bias	26.3	30	
Ethyl Benzene	9.27		"	10.0		92.7	80-131		7.61	30	
Hexachlorobutadiene	7.96		"	10.0		79.6	67-146		1.90	30	
Isopropylbenzene	8.96		"	10.0		89.6	76-140		8.25	30	
Methyl tert-butyl ether (MTBE)	9.50		"	10.0		95.0	76-135		8.45	30	
Methylene chloride	10.2		"	10.0		102	55-137		7.09	30	
Naphthalene	5.84		"	10.0		58.4	70-147	Low Bias	12.8	30	
n-Butylbenzene	8.62		"	10.0		86.2	79-132		7.21	30	
n-Propylbenzene	8.88		"	10.0		88.8	78-133		9.43	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 BG00374 - EPA 5030B											
LCS Dup (BG00374-BSD1)								Prepared & Analyzed: 07/10/2020			
o-Xylene	9.37		ug/L	10.0		93.7	78-130		7.88	30	
p- & m- Xylenes	18.7		"	20.0		93.6	77-133		8.70	30	
p-Isopropyltoluene	9.19		"	10.0		91.9	81-136		8.75	30	
sec-Butylbenzene	8.98		"	10.0		89.8	79-137		10.1	30	
Styrene	9.55		"	10.0		95.5	67-132		7.95	30	
tert-Butylbenzene	7.38		"	10.0		73.8	77-138	Low Bias	9.66	30	
Tetrachloroethylene	9.41		"	10.0		94.1	82-131		8.99	30	
Toluene	8.97		"	10.0		89.7	80-127		7.52	30	
trans-1,2-Dichloroethylene	10.7		"	10.0		107	80-132		6.64	30	
trans-1,3-Dichloropropylene	8.15		"	10.0		81.5	78-131		7.91	30	
Trichloroethylene	8.96		"	10.0		89.6	82-128		7.77	30	
Trichlorofluoromethane	12.0		"	10.0		120	67-139		0.418	30	
Vinyl Chloride	12.5		"	10.0		125	58-145		0.160	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.5*		*"*	*10.0*		*105*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.34*		*"*	*10.0*		*93.4*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.0*		*"*	*10.0*		*100*	*79-122*				

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
20G0224-01	WQ070720:1245 NP1-1-2	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.
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. 2060224

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)

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
GW2070720:1245 NP1-1-2	GW	7-7-20 12:45	VOCs 8260 full list + freon 113	3 HCl VOA

Comments:

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

Special Instruction
Field Filtered ____
Lab to Filter ____

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
WSP	7-7-20 16:16				
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**
				7/7/20 1614	4.5 Degrees C

APPENDIX II

JULY 2020 LABORATORY ANALYTICAL REPORT

FOR AIR SAMPLES

Technical Report

prepared for:

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

Report Date: 07/29/2020
Client Project ID: 31402600.000 Task 01.00 Rowe Industries
York Project (SDG) No.: 20G0775

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: 07/29/2020
Client Project ID: 31402600.000 Task 01.00 Rowe Industries
York Project (SDG) No.: 20G0775

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 July 22, 2020 and listed below. The project was identified as your project: **31402600.000 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.

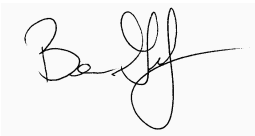
The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

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
20G0775-01	AQ072120:930NP4-1	Vapor Extraction	07/21/2020	07/22/2020
20G0775-02	AQ072120:935NP4-3	Vapor Extraction	07/21/2020	07/22/2020

General Notes for York Project (SDG) No.: 20G0775

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: 07/29/2020

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: AQ072120:930NP4-1 **York Sample ID:** 20G0775-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20G0775	31402600.000 Task 01.00 Rowe Industries	Vapor Extraction	July 21, 2020 9:30 am	07/22/2020

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.96	1.396	EPA TO-15 Certifications:	07/23/2020 09:00	07/24/2020 14:55	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.76	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/23/2020 09:00	07/24/2020 14:55	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.96	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/23/2020 09:00	07/24/2020 14:55	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.1	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/23/2020 09:00	07/24/2020 14:55	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.76	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/23/2020 09:00	07/24/2020 14:55	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.57	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/23/2020 09:00	07/24/2020 14:55	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.14	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/23/2020 09:00	07/24/2020 14:55	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	1.0	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/23/2020 09:00	07/24/2020 14:55	LLJ
95-63-6	**1,2,4-Trimethylbenzene**	**1.4**		ug/m³	0.69	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/23/2020 09:00	07/24/2020 14:55	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.1	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/23/2020 09:00	07/24/2020 14:55	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.84	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/23/2020 09:00	07/24/2020 14:55	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.56	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/23/2020 09:00	07/24/2020 14:55	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.65	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/23/2020 09:00	07/24/2020 14:55	LLJ
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.98	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/23/2020 09:00	07/24/2020 14:55	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.69	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/23/2020 09:00	07/24/2020 14:55	LLJ
106-99-0	1,3-Butadiene	ND		ug/m³	0.93	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/23/2020 09:00	07/24/2020 14:55	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.84	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/23/2020 09:00	07/24/2020 14:55	LLJ
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.65	1.396	EPA TO-15 Certifications:	07/23/2020 09:00	07/24/2020 14:55	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.84	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/23/2020 09:00	07/24/2020 14:55	LLJ
123-91-1	1,4-Dioxane	ND		ug/m³	1.0	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/23/2020 09:00	07/24/2020 14:55	LLJ
78-93-3	**2-Butanone**	**3.2**		ug/m³	0.41	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/23/2020 09:00	07/24/2020 14:55	LLJ
591-78-6	* 2-Hexanone	ND		ug/m³	1.1	1.396	EPA TO-15 Certifications:	07/23/2020 09:00	07/24/2020 14:55	LLJ

Sample Information

Client Sample ID: AQ072120:930NP4-1 **York Sample ID:** 20G0775-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20G0775	31402600.000 Task 01.00 Rowe Industries	Vapor Extraction	July 21, 2020 9:30 am	07/22/2020

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m³	2.2	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/23/2020 09:00	07/24/2020 14:55	LLJ
108-10-1	**4-Methyl-2-pentanone**	**1.1**		ug/m³	0.57	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/23/2020 09:00	07/24/2020 14:55	LLJ
67-64-1	**Acetone**	**29**		ug/m³	0.66	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/23/2020 09:00	07/24/2020 14:55	LLJ
107-13-1	Acrylonitrile	ND		ug/m³	0.30	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/23/2020 09:00	07/24/2020 14:55	LLJ
71-43-2	**Benzene**	**0.62**		ug/m³	0.45	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/23/2020 09:00	07/24/2020 14:55	LLJ
100-44-7	Benzyl chloride	ND		ug/m³	0.72	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/23/2020 09:00	07/24/2020 14:55	LLJ
75-27-4	Bromodichloromethane	ND		ug/m³	0.94	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/23/2020 09:00	07/24/2020 14:55	LLJ
75-25-2	Bromoform	ND		ug/m³	1.4	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/23/2020 09:00	07/24/2020 14:55	LLJ
74-83-9	Bromomethane	ND		ug/m³	0.54	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/23/2020 09:00	07/24/2020 14:55	LLJ
75-15-0	**Carbon disulfide**	**0.52**		ug/m³	0.43	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/23/2020 09:00	07/24/2020 14:55	LLJ
56-23-5	**Carbon tetrachloride**	**0.53**		ug/m³	0.22	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/23/2020 09:00	07/24/2020 14:55	LLJ
108-90-7	Chlorobenzene	ND		ug/m³	0.64	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/23/2020 09:00	07/24/2020 14:55	LLJ
75-00-3	Chloroethane	ND		ug/m³	0.37	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/23/2020 09:00	07/24/2020 14:55	LLJ
67-66-3	Chloroform	ND		ug/m³	0.68	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/23/2020 09:00	07/24/2020 14:55	LLJ
74-87-3	**Chloromethane**	**2.2**		ug/m³	0.29	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/23/2020 09:00	07/24/2020 14:55	LLJ
156-59-2	**cis-1,2-Dichloroethylene**	**0.77**		ug/m³	0.14	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/23/2020 09:00	07/24/2020 14:55	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.63	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/23/2020 09:00	07/24/2020 14:55	LLJ
110-82-7	Cyclohexane	ND		ug/m³	0.48	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/23/2020 09:00	07/24/2020 14:55	LLJ
124-48-1	Dibromochloromethane	ND		ug/m³	1.2	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/23/2020 09:00	07/24/2020 14:55	LLJ
75-71-8	**Dichlorodifluoromethane**	**2.1**		ug/m³	0.69	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/23/2020 09:00	07/24/2020 14:55	LLJ
141-78-6	*** Ethyl acetate**	**6.0**		ug/m³	1.0	1.396	EPA TO-15 Certifications:	07/23/2020 09:00	07/24/2020 14:55	LLJ
100-41-4	**Ethyl Benzene**	**1.1**		ug/m³	0.61	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/23/2020 09:00	07/24/2020 14:55	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.5	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/23/2020 09:00	07/24/2020 14:55	LLJ

Sample Information

Client Sample ID: AQ072120:930NP4-1 **York Sample ID:** 20G0775-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20G0775	31402600.000 Task 01.00 Rowe Industries	Vapor Extraction	July 21, 2020 9:30 am	07/22/2020

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-63-0	**Isopropanol**	**88**		ug/m³	0.69	1.396	EPA TO-15	07/23/2020 09:00	07/24/2020 14:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
80-62-6	Methyl Methacrylate	ND		ug/m³	0.57	1.396	EPA TO-15	07/23/2020 09:00	07/24/2020 14:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.50	1.396	EPA TO-15	07/23/2020 09:00	07/24/2020 14:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-09-2	**Methylene chloride**	**2.6**		ug/m³	0.97	1.396	EPA TO-15	07/23/2020 09:00	07/24/2020 14:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
142-82-5	n-Heptane	ND		ug/m³	0.57	1.396	EPA TO-15	07/23/2020 09:00	07/24/2020 14:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
110-54-3	**n-Hexane**	**3.4**		ug/m³	0.49	1.396	EPA TO-15	07/23/2020 09:00	07/24/2020 14:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
95-47-6	**o-Xylene**	**1.1**		ug/m³	0.61	1.396	EPA TO-15	07/23/2020 09:00	07/24/2020 14:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
179601-23-1	**p- & m- Xylenes**	**3.5**		ug/m³	1.2	1.396	EPA TO-15	07/23/2020 09:00	07/24/2020 14:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
622-96-8	*** p-Ethyltoluene**	**1.2**		ug/m³	0.69	1.396	EPA TO-15	07/23/2020 09:00	07/24/2020 14:55	LLJ
							Certifications:			
115-07-1	* Propylene	ND		ug/m³	0.24	1.396	EPA TO-15	07/23/2020 09:00	07/24/2020 14:55	LLJ
							Certifications:			
100-42-5	**Styrene**	**2.6**		ug/m³	0.59	1.396	EPA TO-15	07/23/2020 09:00	07/24/2020 14:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
127-18-4	**Tetrachloroethylene**	**19**		ug/m³	0.95	1.396	EPA TO-15	07/23/2020 09:00	07/24/2020 14:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
109-99-9	*** Tetrahydrofuran**	**1.6**		ug/m³	0.82	1.396	EPA TO-15	07/23/2020 09:00	07/24/2020 14:55	LLJ
							Certifications:			
108-88-3	**Toluene**	**9.9**		ug/m³	0.53	1.396	EPA TO-15	07/23/2020 09:00	07/24/2020 14:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.55	1.396	EPA TO-15	07/23/2020 09:00	07/24/2020 14:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.63	1.396	EPA TO-15	07/23/2020 09:00	07/24/2020 14:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
79-01-6	**Trichloroethylene**	**0.90**		ug/m³	0.19	1.396	EPA TO-15	07/23/2020 09:00	07/24/2020 14:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.6**		ug/m³	0.78	1.396	EPA TO-15	07/23/2020 09:00	07/24/2020 14:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-05-4	Vinyl acetate	ND		ug/m³	0.49	1.396	EPA TO-15	07/23/2020 09:00	07/24/2020 14:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
593-60-2	Vinyl bromide	ND		ug/m³	0.61	1.396	EPA TO-15	07/23/2020 09:00	07/24/2020 14:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-01-4	Vinyl Chloride	ND		ug/m³	0.18	1.396	EPA TO-15	07/23/2020 09:00	07/24/2020 14:55	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*100 %*	*70-130*

Sample Information

Client Sample ID: AQ072120:930NP4-1 **York Sample ID:** 20G0775-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20G0775	31402600.000 Task 01.00 Rowe Industries	Vapor Extraction	July 21, 2020 9:30 am	07/22/2020

Sample Information

Client Sample ID: AQ072120:935NP4-3 **York Sample ID:** 20G0775-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20G0775	31402600.000 Task 01.00 Rowe Industries	Vapor Extraction	July 21, 2020 9:35 am	07/22/2020

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:** TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	1.0	1.504	EPA TO-15 Certifications:	07/26/2020 09:00	07/27/2020 19:11	AS
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.82	1.504	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/26/2020 09:00	07/27/2020 19:11	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	1.0	1.504	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/26/2020 09:00	07/27/2020 19:11	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.2	1.504	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/26/2020 09:00	07/27/2020 19:11	AS
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.82	1.504	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/26/2020 09:00	07/27/2020 19:11	AS
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.61	1.504	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/26/2020 09:00	07/27/2020 19:11	AS
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.15	1.504	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/26/2020 09:00	07/27/2020 19:11	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	1.1	1.504	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/26/2020 09:00	07/27/2020 19:11	AS
95-63-6	**1,2,4-Trimethylbenzene**	**1.3**		ug/m³	0.74	1.504	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/26/2020 09:00	07/27/2020 19:11	AS
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.2	1.504	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/26/2020 09:00	07/27/2020 19:11	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.90	1.504	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/26/2020 09:00	07/27/2020 19:11	AS
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.61	1.504	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/26/2020 09:00	07/27/2020 19:11	AS
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.69	1.504	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/26/2020 09:00	07/27/2020 19:11	AS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.1	1.504	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/26/2020 09:00	07/27/2020 19:11	AS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.74	1.504	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/26/2020 09:00	07/27/2020 19:11	AS
106-99-0	1,3-Butadiene	ND		ug/m³	1.0	1.504	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/26/2020 09:00	07/27/2020 19:11	AS
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.90	1.504	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/26/2020 09:00	07/27/2020 19:11	AS
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.70	1.504	EPA TO-15 Certifications:	07/26/2020 09:00	07/27/2020 19:11	AS
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.90	1.504	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/26/2020 09:00	07/27/2020 19:11	AS

Sample Information

Client Sample ID: AQ072120:935NP4-3 **York Sample ID:** 20G0775-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20G0775	31402600.000 Task 01.00 Rowe Industries	Vapor Extraction	July 21, 2020 9:35 am	07/22/2020

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/m³	1.1	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-93-3	**2-Butanone**	**3.9**		ug/m³	0.44	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
591-78-6	* 2-Hexanone	ND		ug/m³	1.2	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:			
107-05-1	3-Chloropropene	ND		ug/m³	2.4	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-10-1	**4-Methyl-2-pentanone**	**3.5**		ug/m³	0.62	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-64-1	**Acetone**	**49**		ug/m³	0.71	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-13-1	Acrylonitrile	ND		ug/m³	0.33	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
71-43-2	**Benzene**	**0.77**		ug/m³	0.48	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
100-44-7	Benzyl chloride	ND		ug/m³	0.78	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-27-4	Bromodichloromethane	ND		ug/m³	1.0	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-25-2	Bromoform	ND		ug/m³	1.6	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
74-83-9	**Bromomethane**	**1.2**		ug/m³	0.58	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-15-0	**Carbon disulfide**	**0.70**		ug/m³	0.47	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
56-23-5	**Carbon tetrachloride**	**0.28**		ug/m³	0.24	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-90-7	Chlorobenzene	ND		ug/m³	0.69	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-00-3	Chloroethane	ND		ug/m³	0.40	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-66-3	Chloroform	ND		ug/m³	0.73	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
74-87-3	**Chloromethane**	**2.4**		ug/m³	0.31	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-59-2	**cis-1,2-Dichloroethylene**	**0.89**		ug/m³	0.15	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.68	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
110-82-7	Cyclohexane	ND		ug/m³	0.52	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
124-48-1	Dibromochloromethane	ND		ug/m³	1.3	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-71-8	**Dichlorodifluoromethane**	**2.2**		ug/m³	0.74	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: AQ072120:935NP4-3 **York Sample ID:** 20G0775-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20G0775	31402600.000 Task 01.00 Rowe Industries	Vapor Extraction	July 21, 2020 9:35 am	07/22/2020

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
141-78-6	*** Ethyl acetate**	**4.5**		ug/m³	1.1	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:			
100-41-4	**Ethyl Benzene**	**2.3**		ug/m³	0.65	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.6	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-63-0	**Isopropanol**	**370**	TO-IPA, E	ug/m³	0.74	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
80-62-6	Methyl Methacrylate	ND		ug/m³	0.62	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.54	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-09-2	**Methylene chloride**	**1.1**		ug/m³	1.0	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-82-5	**n-Heptane**	**4.1**		ug/m³	0.62	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
110-54-3	**n-Hexane**	**2.5**		ug/m³	0.53	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-47-6	**o-Xylene**	**2.0**		ug/m³	0.65	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
179601-23-1	**p- & m- Xylenes**	**7.4**		ug/m³	1.3	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
622-96-8	*** p-Ethyltoluene**	**1.3**		ug/m³	0.74	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:			
115-07-1	* Propylene	ND		ug/m³	0.26	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:			
100-42-5	**Styrene**	**4.0**		ug/m³	0.64	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
127-18-4	**Tetrachloroethylene**	**5.1**		ug/m³	1.0	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
109-99-9	*** Tetrahydrofuran**	**1.2**		ug/m³	0.89	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:			
108-88-3	**Toluene**	**22**		ug/m³	0.57	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.60	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.68	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-01-6	Trichloroethylene	ND		ug/m³	0.20	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.4**		ug/m³	0.85	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-05-4	Vinyl acetate	ND		ug/m³	0.53	1.504	EPA TO-15	07/26/2020 09:00	07/27/2020 19:11	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: AQ072120:935NP4-3 **York Sample ID:** 20G0775-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20G0775	31402600.000 Task 01.00 Rowe Industries	Vapor Extraction	July 21, 2020 9:35 am	07/22/2020

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
593-60-2	Vinyl bromide	ND		ug/m³	0.66	1.504	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/26/2020 09:00	07/27/2020 19:11	AS
75-01-4	Vinyl Chloride	ND		ug/m³	0.19	1.504	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	07/26/2020 09:00	07/27/2020 19:11	AS

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*93.5 %*	*70-130*

Analytical Batch Summary

Batch ID: BG01146 **Preparation Method:** EPA TO15 PREP **Prepared By:** AS

YORK Sample ID	Client Sample ID	Preparation Date
20G0775-01	AQ072120:930NP4-1	07/23/20
BG01146-BLK1	Blank	07/23/20
BG01146-BS1	LCS	07/23/20

Batch ID: BG01281 **Preparation Method:** EPA TO15 PREP **Prepared By:** AS

YORK Sample ID	Client Sample ID	Preparation Date
20G0775-02	AQ072120:935NP4-3	07/26/20
BG01281-BLK1	Blank	07/26/20
BG01281-BS1	LCS	07/26/20

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

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG01146 - EPA TO15 PREP											
Blank (BG01146-BLK1)											
Prepared: 07/23/2020 Analyzed: 07/24/2020											
1,1,1,2-Tetrachloroethane	ND	0.69	ug/m³								
1,1,1-Trichloroethane	ND	0.55	"								
1,1,2,2-Tetrachloroethane	ND	0.69	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.77	"								
1,1,2-Trichloroethane	ND	0.55	"								
1,1-Dichloroethane	ND	0.40	"								
1,1-Dichloroethylene	ND	0.099	"								
1,2,4-Trichlorobenzene	ND	0.74	"								
1,2,4-Trimethylbenzene	ND	0.49	"								
1,2-Dibromoethane	ND	0.77	"								
1,2-Dichlorobenzene	ND	0.60	"								
1,2-Dichloroethane	ND	0.40	"								
1,2-Dichloropropane	ND	0.46	"								
1,2-Dichlorotetrafluoroethane	ND	0.70	"								
1,3,5-Trimethylbenzene	ND	0.49	"								
1,3-Butadiene	ND	0.66	"								
1,3-Dichlorobenzene	ND	0.60	"								
1,3-Dichloropropane	ND	0.46	"								
1,4-Dichlorobenzene	ND	0.60	"								
1,4-Dioxane	ND	0.72	"								
2-Butanone	ND	0.29	"								
2-Hexanone	ND	0.82	"								
3-Chloropropene	ND	1.6	"								
4-Methyl-2-pentanone	ND	0.41	"								
Acetone	ND	0.48	"								
Acrylonitrile	ND	0.22	"								
Benzene	ND	0.32	"								
Benzyl chloride	ND	0.52	"								
Bromodichloromethane	ND	0.67	"								
Bromoform	ND	1.0	"								
Bromomethane	ND	0.39	"								
Carbon disulfide	ND	0.31	"								
Carbon tetrachloride	ND	0.16	"								
Chlorobenzene	ND	0.46	"								
Chloroethane	ND	0.26	"								
Chloroform	ND	0.49	"								
Chloromethane	ND	0.21	"								
cis-1,2-Dichloroethylene	ND	0.099	"								
cis-1,3-Dichloropropylene	ND	0.45	"								
Cyclohexane	ND	0.34	"								
Dibromochloromethane	ND	0.85	"								
Dichlorodifluoromethane	ND	0.49	"								
Ethyl acetate	ND	0.72	"								
Ethyl Benzene	ND	0.43	"								
Hexachlorobutadiene	ND	1.1	"								
Isopropanol	ND	0.49	"								
Methyl Methacrylate	ND	0.41	"								
Methyl tert-butyl ether (MTBE)	ND	0.36	"								
Methylene chloride	ND	0.69	"								

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

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG01146 - EPA TO15 PREP											
Blank (BG01146-BLK1)											Prepared: 07/23/2020 Analyzed: 07/24/2020
n-Heptane	ND	0.41	ug/m³								
n-Hexane	ND	0.35	"								
o-Xylene	ND	0.43	"								
p- & m- Xylenes	ND	0.87	"								
p-Ethyltoluene	ND	0.49	"								
Propylene	ND	0.17	"								
Styrene	ND	0.43	"								
Tetrachloroethylene	ND	0.68	"								
Tetrahydrofuran	ND	0.59	"								
Toluene	ND	0.38	"								
trans-1,2-Dichloroethylene	ND	0.40	"								
trans-1,3-Dichloropropylene	ND	0.45	"								
Trichloroethylene	ND	0.13	"								
Trichlorofluoromethane (Freon 11)	ND	0.56	"								
Vinyl acetate	ND	0.35	"								
Vinyl bromide	ND	0.44	"								
Vinyl Chloride	ND	0.13	"								
Surrogate: SURR: p-Bromofluorobenzene	*7.98*		*ppbv*	*10.0*		*79.8*	*70-130*				
LCS (BG01146-BS1)											Prepared: 07/23/2020 Analyzed: 07/24/2020
1,1,1,2-Tetrachloroethane	10.1		ppbv	10.0		101	70-130				
1,1,1-Trichloroethane	9.93		"	10.0		99.3	70-130				
1,1,2,2-Tetrachloroethane	9.53		"	10.0		95.3	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.5		"	10.0		105	70-130				
1,1,2-Trichloroethane	9.09		"	10.0		90.9	70-130				
1,1-Dichloroethane	9.85		"	10.0		98.5	70-130				
1,1-Dichloroethylene	9.53		"	10.0		95.3	70-130				
1,2,4-Trichlorobenzene	11.4		"	10.0		114	70-130				
1,2,4-Trimethylbenzene	9.21		"	10.0		92.1	70-130				
1,2-Dibromoethane	9.16		"	10.0		91.6	70-130				
1,2-Dichlorobenzene	11.0		"	10.0		110	70-130				
1,2-Dichloroethane	8.91		"	10.0		89.1	70-130				
1,2-Dichloropropane	8.27		"	10.0		82.7	70-130				
1,2-Dichlorotetrafluoroethane	10.5		"	10.0		105	70-130				
1,3,5-Trimethylbenzene	8.98		"	10.0		89.8	70-130				
1,3-Butadiene	10.9		"	10.0		109	70-130				
1,3-Dichlorobenzene	11.4		"	10.0		114	70-130				
1,3-Dichloropropane	8.33		"	10.0		83.3	70-130				
1,4-Dichlorobenzene	11.3		"	10.0		113	70-130				
1,4-Dioxane	7.04		"	10.0		70.4	70-130				
2-Butanone	9.35		"	10.0		93.5	70-130				
2-Hexanone	8.07		"	10.0		80.7	70-130				
3-Chloropropene	10.1		"	10.0		101	70-130				
4-Methyl-2-pentanone	7.25		"	10.0		72.5	70-130				
Acetone	9.35		"	10.0		93.5	70-130				
Acrylonitrile	9.74		"	10.0		97.4	70-130				
Benzene	9.89		"	10.0		98.9	70-130				
Benzyl chloride	10.8		"	10.0		108	70-130				
Bromodichloromethane	8.34		"	10.0		83.4	70-130				
Bromoform	11.4		"	10.0		114	70-130				

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

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG01146 - EPA TO15 PREP											
LCS (BG01146-BS1)									Prepared: 07/23/2020 Analyzed: 07/24/2020		
Bromomethane	10.8		ppbv	10.0		108	70-130				
Carbon disulfide	10.4		"	10.0		104	70-130				
Carbon tetrachloride	10.0		"	10.0		100	70-130				
Chlorobenzene	9.93		"	10.0		99.3	70-130				
Chloroethane	11.4		"	10.0		114	70-130				
Chloroform	9.92		"	10.0		99.2	70-130				
Chloromethane	11.1		"	10.0		111	70-130				
cis-1,2-Dichloroethylene	9.62		"	10.0		96.2	70-130				
cis-1,3-Dichloropropylene	8.40		"	10.0		84.0	70-130				
Cyclohexane	10.3		"	10.0		103	70-130				
Dibromochloromethane	9.57		"	10.0		95.7	70-130				
Dichlorodifluoromethane	9.61		"	10.0		96.1	70-130				
Ethyl acetate	9.68		"	10.0		96.8	70-130				
Ethyl Benzene	8.72		"	10.0		87.2	70-130				
Hexachlorobutadiene	9.97		"	10.0		99.7	70-130				
Isopropanol	9.92		"	10.0		99.2	70-130				
Methyl Methacrylate	8.52		"	10.0		85.2	70-130				
Methyl tert-butyl ether (MTBE)	9.73		"	10.0		97.3	70-130				
Methylene chloride	10.4		"	10.0		104	70-130				
n-Heptane	9.99		"	10.0		99.9	70-130				
n-Hexane	10.2		"	10.0		102	70-130				
o-Xylene	8.57		"	10.0		85.7	70-130				
p- & m- Xylenes	17.7		"	20.0		88.7	70-130				
p-Ethyltoluene	10.2		"	10.0		102	70-130				
Propylene	11.3		"	10.0		113	70-130				
Styrene	9.85		"	10.0		98.5	70-130				
Tetrachloroethylene	9.28		"	10.0		92.8	70-130				
Tetrahydrofuran	9.65		"	10.0		96.5	70-130				
Toluene	8.41		"	10.0		84.1	70-130				
trans-1,2-Dichloroethylene	9.87		"	10.0		98.7	70-130				
trans-1,3-Dichloropropylene	8.32		"	10.0		83.2	70-130				
Trichloroethylene	8.37		"	10.0		83.7	70-130				
Trichlorofluoromethane (Freon 11)	9.82		"	10.0		98.2	70-130				
Vinyl acetate	9.88		"	10.0		98.8	70-130				
Vinyl bromide	11.3		"	10.0		113	70-130				
Vinyl Chloride	10.1		"	10.0		101	70-130				
Surrogate: SURR: p-Bromofluorobenzene	*9.23*		*"*	*10.0*		*92.3*	*70-130*				

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

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG01281 - EPA TO15 PREP											
Blank (BG01281-BLK1)											
Prepared: 07/26/2020 Analyzed: 07/27/2020											
1,1,1,2-Tetrachloroethane	ND	0.69	ug/m³								
1,1,1-Trichloroethane	ND	0.55	"								
1,1,2,2-Tetrachloroethane	ND	0.69	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.77	"								
1,1,2-Trichloroethane	ND	0.55	"								
1,1-Dichloroethane	ND	0.40	"								
1,1-Dichloroethylene	ND	0.099	"								
1,2,4-Trichlorobenzene	ND	0.74	"								
1,2,4-Trimethylbenzene	ND	0.49	"								
1,2-Dibromoethane	ND	0.77	"								
1,2-Dichlorobenzene	ND	0.60	"								
1,2-Dichloroethane	ND	0.40	"								
1,2-Dichloropropane	ND	0.46	"								
1,2-Dichlorotetrafluoroethane	ND	0.70	"								
1,3,5-Trimethylbenzene	ND	0.49	"								
1,3-Butadiene	ND	0.66	"								
1,3-Dichlorobenzene	ND	0.60	"								
1,3-Dichloropropane	ND	0.46	"								
1,4-Dichlorobenzene	ND	0.60	"								
1,4-Dioxane	ND	0.72	"								
2-Butanone	ND	0.29	"								
2-Hexanone	ND	0.82	"								
3-Chloropropene	ND	1.6	"								
4-Methyl-2-pentanone	ND	0.41	"								
Acetone	ND	0.48	"								
Acrylonitrile	ND	0.22	"								
Benzene	ND	0.32	"								
Benzyl chloride	ND	0.52	"								
Bromodichloromethane	ND	0.67	"								
Bromoform	ND	1.0	"								
Bromomethane	ND	0.39	"								
Carbon disulfide	ND	0.31	"								
Carbon tetrachloride	ND	0.16	"								
Chlorobenzene	ND	0.46	"								
Chloroethane	ND	0.26	"								
Chloroform	ND	0.49	"								
Chloromethane	ND	0.21	"								
cis-1,2-Dichloroethylene	ND	0.099	"								
cis-1,3-Dichloropropylene	ND	0.45	"								
Cyclohexane	ND	0.34	"								
Dibromochloromethane	ND	0.85	"								
Dichlorodifluoromethane	ND	0.49	"								
Ethyl acetate	ND	0.72	"								
Ethyl Benzene	ND	0.43	"								
Hexachlorobutadiene	ND	1.1	"								
Isopropanol	ND	0.49	"								
Methyl Methacrylate	ND	0.41	"								
Methyl tert-butyl ether (MTBE)	ND	0.36	"								
Methylene chloride	ND	0.69	"								
n-Heptane	ND	0.41	"								

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

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG01281 - EPA TO15 PREP											
Blank (BG01281-BLK1)								Prepared: 07/26/2020 Analyzed: 07/27/2020			
n-Hexane	ND	0.35	ug/m³								
o-Xylene	ND	0.43	"								
p- & m- Xylenes	ND	0.87	"								
p-Ethyltoluene	ND	0.49	"								
Propylene	ND	0.17	"								
Styrene	ND	0.43	"								
Tetrachloroethylene	ND	0.68	"								
Tetrahydrofuran	ND	0.59	"								
Toluene	ND	0.38	"								
trans-1,2-Dichloroethylene	ND	0.40	"								
trans-1,3-Dichloropropylene	ND	0.45	"								
Trichloroethylene	ND	0.13	"								
Trichlorofluoromethane (Freon 11)	ND	0.56	"								
Vinyl acetate	ND	0.35	"								
Vinyl bromide	ND	0.44	"								
Vinyl Chloride	ND	0.13	"								
Surrogate: SURR: p-Bromofluorobenzene	*7.95*		*ppbv*	*10.0*		*79.5*	*70-130*				
LCS (BG01281-BS1)								Prepared: 07/26/2020 Analyzed: 07/27/2020			
1,1,1,2-Tetrachloroethane	9.57		ppbv	10.0		95.7	70-130				
1,1,1-Trichloroethane	10.1		"	10.0		101	70-130				
1,1,2,2-Tetrachloroethane	9.18		"	10.0		91.8	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.6		"	10.0		106	70-130				
1,1,2-Trichloroethane	8.96		"	10.0		89.6	70-130				
1,1-Dichloroethane	10.0		"	10.0		100	70-130				
1,1-Dichloroethylene	9.62		"	10.0		96.2	70-130				
1,2,4-Trichlorobenzene	10.5		"	10.0		105	70-130				
1,2,4-Trimethylbenzene	8.68		"	10.0		86.8	70-130				
1,2-Dibromoethane	9.01		"	10.0		90.1	70-130				
1,2-Dichlorobenzene	10.4		"	10.0		104	70-130				
1,2-Dichloroethane	9.14		"	10.0		91.4	70-130				
1,2-Dichloropropane	8.19		"	10.0		81.9	70-130				
1,2-Dichlorotetrafluoroethane	10.4		"	10.0		104	70-130				
1,3,5-Trimethylbenzene	8.99		"	10.0		89.9	70-130				
1,3-Butadiene	10.2		"	10.0		102	70-130				
1,3-Dichlorobenzene	10.6		"	10.0		106	70-130				
1,3-Dichloropropane	8.24		"	10.0		82.4	70-130				
1,4-Dichlorobenzene	10.7		"	10.0		107	70-130				
1,4-Dioxane	6.99		"	10.0		69.9	70-130	Low Bias			
2-Butanone	9.41		"	10.0		94.1	70-130				
2-Hexanone	7.91		"	10.0		79.1	70-130				
3-Chloropropene	10.1		"	10.0		101	70-130				
4-Methyl-2-pentanone	7.22		"	10.0		72.2	70-130				
Acetone	9.59		"	10.0		95.9	70-130				
Acrylonitrile	10.0		"	10.0		100	70-130				
Benzene	9.92		"	10.0		99.2	70-130				
Benzyl chloride	10.2		"	10.0		102	70-130				
Bromodichloromethane	8.28		"	10.0		82.8	70-130				
Bromoform	10.6		"	10.0		106	70-130				
Bromomethane	11.0		"	10.0		110	70-130				

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

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG01281 - EPA TO15 PREP											
LCS (BG01281-BS1)									Prepared: 07/26/2020 Analyzed: 07/27/2020		
Carbon disulfide	10.6		ppbv	10.0		106	70-130				
Carbon tetrachloride	9.99		"	10.0		99.9	70-130				
Chlorobenzene	9.40		"	10.0		94.0	70-130				
Chloroethane	11.6		"	10.0		116	70-130				
Chloroform	10.0		"	10.0		100	70-130				
Chloromethane	10.4		"	10.0		104	70-130				
cis-1,2-Dichloroethylene	9.84		"	10.0		98.4	70-130				
cis-1,3-Dichloropropylene	8.33		"	10.0		83.3	70-130				
Cyclohexane	10.3		"	10.0		103	70-130				
Dibromochloromethane	9.29		"	10.0		92.9	70-130				
Dichlorodifluoromethane	9.78		"	10.0		97.8	70-130				
Ethyl acetate	9.84		"	10.0		98.4	70-130				
Ethyl Benzene	8.39		"	10.0		83.9	70-130				
Hexachlorobutadiene	9.91		"	10.0		99.1	70-130				
Isopropanol	10.1		"	10.0		101	70-130				
Methyl Methacrylate	8.49		"	10.0		84.9	70-130				
Methyl tert-butyl ether (MTBE)	9.82		"	10.0		98.2	70-130				
Methylene chloride	10.6		"	10.0		106	70-130				
n-Heptane	9.87		"	10.0		98.7	70-130				
n-Hexane	10.2		"	10.0		102	70-130				
o-Xylene	8.14		"	10.0		81.4	70-130				
p- & m- Xylenes	16.8		"	20.0		84.2	70-130				
p-Ethyltoluene	9.93		"	10.0		99.3	70-130				
Propylene	11.4		"	10.0		114	70-130				
Styrene	9.38		"	10.0		93.8	70-130				
Tetrachloroethylene	9.03		"	10.0		90.3	70-130				
Tetrahydrofuran	9.63		"	10.0		96.3	70-130				
Toluene	8.23		"	10.0		82.3	70-130				
trans-1,2-Dichloroethylene	9.94		"	10.0		99.4	70-130				
trans-1,3-Dichloropropylene	8.29		"	10.0		82.9	70-130				
Trichloroethylene	8.36		"	10.0		83.6	70-130				
Trichlorofluoromethane (Freon 11)	9.93		"	10.0		99.3	70-130				
Vinyl acetate	9.94		"	10.0		99.4	70-130				
Vinyl bromide	11.4		"	10.0		114	70-130				
Vinyl Chloride	9.44		"	10.0		94.4	70-130				
Surrogate: SURR: p-Bromofluorobenzene	*8.97*		*"*	*10.0*		*89.7*	*70-130*				

Sample and Data Qualifiers Relating to This Work Order

TO-VAC	The final vacuum in the canister was less than -2 inches Hg vacuum. The time integrated sampling may be affected and not reflect proper sampling over the time period. The data user should take note.
TO-LCS-L	The result reported for this compound may be biased low due to its behavior in the analysis batch LCS where it recovered less 70% of the expected value.
TO-IPA	The value for isopropanol is estimated. Dilutions are not conducted for this species as not to preclude actionable analytes by dilution.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.

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 - AIR

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. 20G0775

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: 31402760.004 ~~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-clock will not begin until any questions by YORK are resolved.

Scott Philbrick

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

Air Matrix Codes

AI - Indoor Ambient Air
AO - Outdoor Amb. Air
AE - Vapor Extraction Well/ Process Gas/Effluent
AS - Soil Vapor/Sub-Slab

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 Deliv.	NYSDEC EQuIS
(NY ASP B Package)	NJDKQP	NJDEP SRP HazSite
Other:		

YORK Reg. Comp.

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

Certified Canisters: Batch ___ Individual ___

Please enter the following REQUIRED Field Data

Reporting Units: ug/m³ ___ ppbv ___ ppmv ___

Sample Identification	Date/Time Sampled	Air Matrix	Canister Vacuum Before Sampling (in Hg)	Canister Vacuum After Sampling (in Hg)	Canister ID	Flow Cont. ID	Analysis Requested
~~NP4-1~~ AQ072120:930NP4-1	7-21-20 9:30	AE	-30	-6	15613		TO-15
~~NP4-3~~ AQ072120:935NP4-3	7-21-20 9:35	AE	-30	-4	24121		TO-15

Comments:

Detection Limits Required

≤ 1 ug/m³ ___ NYSDEC V1 Limits ___
Routine Survey ___ Other ___

Sampling Media

6 Liter Canister	
Tedlar Bag	

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
WSP	7-21-20 ~~7~~:12	TC/YORK	7/21/20 1512	J. Gale/YORK	7-21-20/1850
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
H Sahyork	7-21-20 1850	H Sah York	7-22-20 830AM	Queens Sample Room	7/22/20 830AM
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time
			Lab Secure	7/22/20	0930