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
April 2018 Status Report

DATE: October 19, 2018

WSP USA Inc. (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 treats water extracted from RW-2 and FRW-1, 2, 3 and 4; the other FSP&T recovery wells (RW-1, RW-3, 4, 5, 6, 7, 8, and 9) have been shut down with USEPA approval after achieving remediation standards. This status report presents a summary of performance, operation and maintenance for both systems and monitoring activities for the site from April 1, 2018 through April 30, 2018. 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

(April 1, 2018 through April 30, 2018)

1. Hours of operation during the reporting period:	460 hours (63.9%)
2. Alarm conditions during the reporting period:	See Table 1
3. Were the SPDES VOC discharge permit criteria achieved:	Yes, (see Table 2)
4. Total volume of water pumped during the reporting period:	929,580 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:	0.13 pound (see Graph 2)
7. Cumulative mass of VOCs recovered since startup on 12/17/02: (calculations can be provided upon request)	229.3 pounds
8. Effluent VOC vapor concentration for the reporting period:	0.14 mg/m^3 (see Table 8)
9. Was the effluent VOC vapor emission rate below 0.022 lbs./hr.: (calculations can be provided upon request)	yes (0.00015 lbs./hr.)

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PUMP AND TREAT SYSTEM STATUS SUMMARY

The following table summarizes recovery well parameters for the operating recovery wells. Note, the FSP&T system was not operational most of the second half of April because of well rehabilitation or system maintenance work.

Well	Volume pumped (gal)	Total VOC Concentration (ug/L)
RW-2 [1/]	680,873	0.6
FRW-1 [2/]	31,823	84.8
FRW-2 [2]	7,148	141.6
FRW-3 [2/]	34,542	177.1
FRW-4 [2/]	105,123	33.3

[1/] The above table summarizes the parameters for RW-2 from April 1 to April 30, 2018.

[2/] The above table summarizes the parameters for the FRWs from April 2, to May 2, 2018.

From April 16 to 27, 2018, WSP completed the annual well rehabilitation and FSP&T system maintenance tasks. In addition to the regular well rehabilitation, WSP decommissioned MW-52A as discussed in the September 2017 semi-annual report. Additional details about well rehabilitation and system maintenance work is included in Table 1.

On April 18, 2018 at approximately 10:55 am, approximately 1 gallon of antifreeze was released onto the paved surface from the cable tool rig during rehabilitation of RW-2. The antifreeze did not reach any stormwater catch basins or unpaved surfaces. Refer to the WSP Incident/Accident Investigation Report in Appendix IV for further details.

On April 27, 2018, the uninterruptable power supply (UPS) appeared to be malfunctioning. After multiple attempts to reset and restore power, the system was left off and an electrician was scheduled for the first week in May to conduct additional troubleshooting. Both systems remained off for the rest of April.

SUMMARY OF SAMPLING ACTIVITIES

April 2018 groundwater quality sampling was completed for the following wells:

- Monthly groundwater samples were collected from RW-2, FRW-1, FRW-2, FRW-3 and FRW-4.

Tables 3 to 7 present a summary of the quality results for water samples collected from downgradient recovery well RW-2 and FRW-1, 2, 3, and 4. Graphs 3 to 7 present PCE concentrations for RW-2 and FRW-1, 2, 3, and 4 for the last 24 months. Laboratory analytical reports for the water samples collected from the RWs are included as Appendix II.

The PCE, TCE, cis-DCE, VC and TCA concentrations from the groundwater sample collected from RW-2 were below the respective ARARs; concentrations at RW-2 have been below the ARARs for over 8 years.

The PCE concentration from the groundwater samples collected at FRW-1, 2 and 3 were above the ARAR. The PCE concentration from the groundwater sample collected at FRW-4 was below the ARAR. The TCE, TCA, cis-DCE, and VC concentrations remained below ARARs in FRW-1, 2, 3 and 4.

Groundwater samples from RW-2 and the FRWs will continue to be collected and analyzed monthly.

FUTURE O&M ACTIVITIES

O&M activities scheduled for May 2018 include:

- troubleshoot the power issue to the control panel; and
- normal bi-weekly/monthly O&M activities.

MMG:nv
Attachments
cc: Brian Shuttleworth - Kraft Heinz Foods Company (as successor to Kraft Foods Group, Inc.)-.pdf
Kevin Kyrias-Gann, Ramboll Environ-.pdf
Renee (Petersen) DeBaene, Ramboll Environ-.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\2018\Monthly Reports\April\Draft Status_Apr2018 w wkb.docx

TABLES

TABLE 1

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

MAINTENANCE LOG
(April 1, 2018 through April 30, 2018)

Date	Time	System Changes/Modifications	Personnel
4/3/18		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.	EF
		Cleaned iron fouling from the FRW-1, 2, 3, 4 and FP&T system effluent flow meter paddle wheels.	EF
4/10/18	1:01 PM	Power Failure Alarm; FSP&T and FP&T systems shuts down.	
	1:15 PM	Alarm reset; FSP&T and FP&T systems are restarted	JF
4/12/18		Collect pumping depth-to-water round for semi-annual groundwater sampling.	EF
4/16/18		Mobilize and setup frac tank, cable tool rig and acid bath container. Remove pump and in-well equipment, conduct pre-rehabilitation specific capacity test and start RW-2 well rehabilitation.	TS, Cisco
4/17/18		Continued RW-2 well rehabilitation. Clean RW-2 flow meter and pump. Remove manway at the top of the air stripper tower and inspect the inside of the tower; iron buildup on the drip trays at the top of the air stripper tower was observed and removed. Inspected and cleaned building roof drains and stormwater trench drain in front of FSP&T building.	TS, Cisco
4/18/18		Continue RW-2 well rehabilitation. Cleaned RW-2 vault piping and lateral piping from RW-2 to the EQ tank. Cleaned below-grade piping from FP&T trailer to FSP&T building. Cleaned FSP&T effluent flow meter.	TS, Cisco
	10:55 AM	Release of approximately one gallon of antifreeze from cable tool rig occurs on the paved surface. The spill did not reach unpaved surfaces or storm drains. Spill response is initiated within 10 minutes of spill occurrence. Spill response measures included vacuuming up antifreeze with turbo vacuum on vacuum truck, pressure washing/rinsing the affected paved area and drumming the liquid into one 55-gallon drum. Refer to the WSP Incident/Accident Investigation Report in Appendix IV for further details. Cisco assumes cost and responsibility as generator for the proper transport and disposal of the drum.	TS, Cisco
4/19/18		Continue RW-2 well rehabilitation.	TS, Cisco
		Locate and decommission monitor well MW-52A.	TS, Cisco
		Inspect FSP&T recovery well vault doors for damage and debris. Cleaned debris off of RW-7 vault doors. Replaced two damaged vault door springs on RW-7. Remaining recovery well vault doors inspected were in good condition.	TS, Cisco
4/20/18		Finish RW-2 well rehabilitation. Conduct post-rehabilitation specific capacity test. Extract water from well to recover pH in the groundwater at RW-2 close to background levels. Neutralize extracted water in the frac tank and pump neutralized and decanted water through the FSP&T system.	TS, Cisco

TABLE 1

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

MAINTENANCE LOG
(April 1, 2018 through April 30, 2018)

Date	Time	System Changes/Modifications	Personnel
4/23/18		Finish extracting water from RW-2 to restore pH of groundwater. Install new pump, pump motor and existing submersible equipment in RW-2. Replace submersible power cable. Restart RW-2 and check operating parameters for RW-2 pump.	TS, Cisco
		Disconnect and inspect FP&T building pipes and fittings. Remove iron buildup from FP&T trailer piping and fittings. Clean FRW and FP&T flow meters.	TS, Cisco
4/24/18		Remove and inspect FRW pumps and pressure transducers. Inspect and start well rehabilitation for FRW-1, 2, 3 and 4. Inspect and clean FRW pumps and pressure transducers.	TS, Cisco
	1:01 PM	Power failure alarm	
	1:50 PM	Acknowledged and cleared the alarm. Restart FSP&T system	TS
4/25/18		Finish well rehabilitation for FRW-1, 2, 3 and 4. Clean lateral pipes for FRW-1, 2, 3 and 4. Replaced pump, pump motor and submersible power cable in FRW-4. Remaining FRW pumps were in satisfactory condition to continue their operation. Restarted/tested the operation of the FP&T system.	TS, Cisco
4/26/18		Shut FSP&T and FP&T systems off. Evacuate EQ tank to allow for inspection. Disconnect FSP&T building piping to inspect for iron buildup. Inspect and clean EQ tank and FSP&T building piping, pipe fittings and bag filter housings. Reconnected piping and restarted/tested the operation of the FSP&T system. The FSP&T and FP&T systems are operating normally.	TS, Cisco
		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.	TS, Cisco
4/27/18		Upon arrival, the power was off to the FSP&T control panel. Conducted initial troubleshooting, which consisted of bypassing uninterruptable power supply, installing a new PLC battery and rebooting the system. Initial troubleshooting was unsuccessful and WSP will schedule an electrician to troubleshoot the power issue next week.	TS, Cisco
		Clean out and remove the frac tank from the Site. Load one 55-gallon drum of spilled liquid (see 4/18/18 entry in this table) onto contractor truck. Clean up site. Store equipment and demobilize from the Site. FSP&T and FP&T systems are off.	TS, Cisco

Notes:

EF	Evan Foster, WSP USA
JF	Jamie Forrester, WSP USA
TS	Tunde Sandor, WSP USA
Cisco	Cisco Geotechnical, LLC

H:\NABIS\2018\Monthly Reports\April\Table 1 Maintenance Record Apr2018 w wkb.docx

TABLE 2

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

Effluent Water Quality Results

Date Sampled [2/]	pH [1/]	TDS (mg/l)	PCE (ug/l)	1,1,1-TCA (ug/l)	TCE (ug/l)	1,1-DCA (ug/l)	1,1-DCE (ug/l)	cis-1,2-DCE (ug/l)	trans-1,2-DCE (ug/l)	Xylene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Methylene Chloride (ug/l)	Freon 113 (ug/l)	Naphthalene (ug/l)	Chloroform (ug/l)	Total Iron (mg/l)	Dissolved Iron (mg/l)
SPDES Limits	**6.5 to 8.5**	**---**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**---**	**10**	**7**	**---**	**---**
7-Apr-17	6.5	157	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	3.62	0.060
3-May-17	6.5	121	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	0.90	0.079
1-Jun-17	6.5	127	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	0.10	0.097
6-Jul-17	6.5	159	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	0.46	ND<0.02
1-Aug-17	6.8	143	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	3.00	0.193
5-Sep-17	6.8	298	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	2.12	0.051
4-Oct-17	6.5	162	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	2.24	0.036
1-Nov-17	6.8	196	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	0.66	0.043
5-Dec-17	6.9	153	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	1.04	0.053
3-Jan-18	6.9	114	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	0.02	0.025
1-Feb-18	6.8	157	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	4.43	0.032
1-Mar-18	6.8	147	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	3.15	0.057
2-Apr-18	6.8	136	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	2.99	0.034

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

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 pH of the effluent sample collected on April 12, 2018 was 6.9.
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	5-Apr-16	0.37 J	0.55	0.31 J	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-May-16	0.27 J	0.37 J	0.24 J	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
	23-Jun-16	0.26 J	0.34 J	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
	19-Jul-16	0.23 J	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-Aug-16	0.24 J	0.37 J	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
	16-Sep-16	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
	17-Oct-16	0.45 J	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
	1-Nov-16	0.42 J	0.44 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	1-Dec-16	0.52	0.39 J	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
	9-Jan-17	0.30 J	0.43 J	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-Feb-17	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	1-Mar-17	0.28 J	0.47 J	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-Apr-17	0.53	0.55	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
	11-May-17	0.54	0.37 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.28 J	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	1-Jun-17	0.29	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
	6-Jul-17	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	1-Aug-17	0.23 J	0.26 J	ND<0.5	0.24 J	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-17	0.23 J	0.32 J	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-Oct-17	0.24 J	0.34 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	1-Nov-17	0.31 J	0.39 J	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-17	0.27 J	0.42 J	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-Jan-18	0.28 J	0.70	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	1-Feb-18	0.33 J	0.59	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	1-Mar-18	0.41 J	0.67	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-18	0.28 J	0.36 J	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.
ARAR's are chemical specific aquifer restoration goals for ground water at the Former Rowe Industries Superfund Site.
NE indicates that the ARAR goal was not established for this compound by the EPA.
Bold values indicate an exceedence of the ARAR standard established for the site.
[1/] In September 2016, the EPA granted approval to discontinue groundwater sampling at RW-1, RW-5, RW-7, RW-8 and RW-9.

TABLE 4

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

Recovery Well FRW-1 VOC Concentrations, micrograms per liter

FRW-1										
Date	**PCE**	**TCE**	**cis12DCE**	**VC**	**TCA**	**11DCA**	**124TCB**	**Toluene**	**Bromomethane**	**Acetone**
ARARs	**5**	**5**	**5**	**2** [1/]	**5**	**5**	**5** [1/]	**5**	**5** [1/]	**NE**
The FRWs were shut down between April 8 and April 12, 2016 and again between April 19 and 25, 2016										
2-May-16	**78**	2.8	**5.7**	ND<0.5	0.74	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<2
The FRWs were shut down between May 5 and May 17, 2016 and again between May 19 and 23, 2016										
7-Jun-16	**57**	1.6	3.0	ND<0.5	0.43	ND<0.5	ND<2	ND<0.5	ND<0.5	1.3 J
7-Jul-16	**40**	0.95	0.75	ND<0.5	0.30 J	ND<0.5	ND<2	ND<0.5	ND<0.5	1.6 J
The FRWs were shut down between July 15 and July 18, 2016 and again after July 29, 2016										
2-Aug-16	**22**	0.75	1.4	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	1.2 J
The FRWs were shut down between August 10 and August 13, 2016.										
1-Sep-16	**25**	0.81	1.6	ND<0.5	0.20 J	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<2
FRW-1 was shut down between September 15 and 16, 2016 and again between September 21 and October 4, 2016										
17-Oct-16	**29**	2.60	**8.5**	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	0.56 J	ND<2
The FRWs were off between October 17 and November 14, 2016										
14-Nov-16	**64**	**5.4**	**38**	0.41 J	0.84	0.28 J	ND<2	ND<0.5	ND<0.5	ND<2
The FRWs were off between November 16 and December 1, 2016										
16-Dec-16	**58**	0.54	1.9	ND<0.5	0.51	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from December 28 to January 3, 2017 and January 5 to January 9, 2017										
9-Jan-17	**120**	1.9	1.7	ND<0.5	1.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off between January 23 and February 2, 2017										
2-Feb-17	**460**	**8.5**	**20**	ND<0.5	3.5	0.59 J	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off between February 20 and February 22, 2017										
1-Mar-17	**110**	3.9	**6.3**	ND<0.5	0.82	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off between March 24 and March 29, 2017										
7-Apr-17	**240**	3.8	2.2	ND<0.5	2.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.3 J
The FRWs were off from April 17 to April 26, 2017 and April 27 to May 1, 2017										
3-May-17	**200**	2.0	2.3	ND<0.5	2.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.0
1-Jun-17	**94**	2.5	4.5	ND<0.5	0.55	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from June 7 to June 9 and from June 21 to 23, 2017										
6-Jul-17	3.6	ND<0.5	1.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from July 31 to August 28, 2017										
1-Aug-17 [2/]	**16**	0.41 J	0.44 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
5-Sep-17	**34**	0.93	2.9	ND<0.5	0.22 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from September 13 to 19 and from September 27 to October 4, 2017										
4-Oct-17	**56**	1.7	**7.8**	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from October 11 to October 16, 2017 and October 29 to 31, 2017										
1-Nov-17	**72**	1.3	1.7	ND<0.5	0.37 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from November 12 to December 5, 2017										
5-Dec-17	**55**	1.5	3.4	ND<0.5	0.4 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
FRW-1 was off from December 6 to 12 and December 24, 2017 to February 9, 2018										
1-Feb-18	**63**	**7.4**	**28**	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
1-Mar-18	**110**	**2.7**	1.8	ND<0.5	1.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off between March 15 and 26, 2018 and March 27 and 29, 2018										
2-Apr-18	**83**	0.31 J	ND<0.5	ND<0.5	0.25 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.2 J
The FRWs were off between April 17 and 23, 2018 and April 26 and 30, 2018										

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

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

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

J : Analyte detected below quantitation limits, value shown is a laboratory estimate.
B: Method blank contamination, the associated method blank contains the target analyte at a reportable level.
ND: Not detected

Comments:
As of September 1, 2011 the water samples are analyzed by York Analytical Laboratories, Inc. The laboratory typically uses a reporting limit

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

TABLE 5

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

Recovery Well FRW-2 VOC Concentrations, micrograms per liter

FRW-2								
Date	**PCE**	**TCE**	**cis12DCE**	**VC**	**TCA**	**Toluene**	**2-Hexanone**	**Acetone**
ARARs	**5**	**5**	**5**	**2** [1/]	**5**	**5**	**NE**	**NE**
The FRWs were shut down between March 10 and March 16, 2016 and again between March 18 and March 22, 2016								
5-Apr-16	**32**	0.72	0.31 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were shut down between April 8 and April 12, 2016 and again between April 19 and 25, 2016								
2-May-16	**16**	0.39 J	ND<0.5	ND<0.5	0.52	ND<0.5	ND<0.5	1.1 J
The FRWs were shut down between May 5 and May 17, 2016 and again between May 19 and 23, 2016								
7-Jun-16	**39**	**5.7**	2.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.3
7-Jul-16	**21**	**1.4**	0.30 J	ND<0.5	ND<0.5	0.22	ND<0.5	ND<2
The FRWs were shut down between July 15 and July 18, 2016 and again after July 29, 2016								
2-Aug-16	**22**	1.0	0.55	ND<0.5	ND<0.5	ND<0.5	1.1	1.6 J
The FRWs were shut down between August 10 and August 13, 2016.								
1-Sep-16	**26**	1.2	0.39 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
FRW-2 was shut down between September 1 and 16, 2016 and again between September 21 and October 4, 2016.								
17-Oct-16	3.1	2.7	**41**	4.1	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off between October 17 and November 14, 2016								
14-Nov-16	**19**	**6.5**	**19**	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.0 J
The FRWs were off between November 16 and December 1, 2016								
16-Dec-16	**32**	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<20	ND<20
The FRWs were off between December 28 to January 3, 2017 and January 5 to January 9, 2017								
9-Jan-17	**27**	**6.4**	**7.3**	ND<5.0	ND<5.0	ND<5.0	ND<0.5	ND<2
The FRWs were off between January 23 to February 2, 2017								
2-Feb-17	**100**	**10**	**39**	1.4	0.63	ND<5.0	ND<0.5	2.2
The FRWs were off between February 20 to February 22, 2017								
1-Mar-17	**40**	1.0	0.52	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off between March 24 and March 29, 2017								
7-Apr-17	**93**	2.6	1.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.1
The FRWs were off from April 17 to April 26, 2017 and April 27 to May 1, 2017								
3-May-17	**68**	**11**	**9.3**	ND<0.5	0.35 J	ND<0.5	ND<0.5	2.4
1-Jun-17	**16**	1.0	0.92	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRW-2 was off from June 7 to June 9 and from June 21 to 29, 2017								
6-Jul-17	0.57	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.8
The FRWs were off from July 31 to August 28, 2017								
1-Aug-17 [2/]	**7.0**	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.1
5-Sep-17	**33**	0.85	0.59	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from September 13 to 19 and from September 27 to October 4, 2017								
4-Oct-17	**50**	2.7	0.91	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.0
The FRWs were off from October 11 to October 16, 2017 and October 29 to 31, 2017								
1-Nov-17	**45**	0.8	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from November 12 to 16, 2017 and November 26 to 27, 2017								
5-Dec-17	**38**	3.4	1.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from December 24, 2017 to February 9, 2018								
1-Feb-18	**37**	3.2	1.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.8
1-Mar-18	**48**	0.7	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off between March 15 and 26, 2018 and March 27 and 29, 2018								
2-Apr-18	**140**	1.2	0.36 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off between April 17 and 23, 2018 and April 26 and 30, 2018								

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

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

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

J : Analyte detected below quantitation limits, value shown is a laboratory estimate.
B: Method blank contamination, the associated method blank contains the target analyte at a reportable level.
ND: Not detected

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

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

TABLE 6

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

Recovery Well FRW-3 VOC Concentrations, micrograms per liter

FRW-3												
Date	**PCE**	**TCE**	**cis12DCE**	**VC**	**11DCA**	**TCA**	**135TMB**	**IPB**	**NPB**	**Toluene**	**2-Hexanone**	**Acetone**
ARARs	**5**	**5**	**5**	**2** [1/]	**5**	**5**	**5** [1/]	**5** [1/]	**5** [1/]	**5**	**NE**	**NE**
The FRWs were shut down between March 10 and March 16, 2016 and again between March 18 and March 22, 2016												
5-Apr-16	**43**	2.5	**24**	0.27 J	ND<0.5	ND<0.5	ND<0.5	1.2	0.44 J	1.2	ND<0.5	ND<2
The FRWs were shut down between April 8 and April 12, 2016 and again between April 19 and 25, 2016												
2-May-16	**150**	**7.3**	**17**	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.85	0.37 J	0.29 J	ND<0.5	ND<2
The FRWs were shut down between May 5 and May 17, 2016 and again between May 19 and 23, 2016												
7-Jun-16	**54**	4.8	**7.8**	ND<0.5	ND<0.5	0.29 J	ND<0.5	1.0	0.48 J	ND<0.5	ND<0.5	1.7
7-Jul-16	**15**	1.7	2.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.2	0.57	ND<0.5	7.3	ND<2
The FRWs were shut down between July 15 and July 18, 2016 and again after July 29, 2016												
2-Aug-16	**8.1**	0.7	1.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.71	0.43 J	ND<0.5	ND<0.5	2.3
The FRWs were shut down between August 10 and August 13, 2016.												
1-Sep-16	**17**	1.4	2.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.83	0.58	ND<0.5	ND<0.5	ND<2
FRW-3 was shut down between September 15 and 16, 2016 and again between September 21 and October 4, 2016												
17-Oct-16	**9.0**	2.4	**23**	1.1	ND<0.5	ND<0.5	ND<0.5	0.36 J	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off between October 17 and November 14, 2016												
14-Nov-16	**79**	**5.6**	**14**	0.48 J	ND<0.5	0.67	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.0
The FRWs were off between November 16 and December 1, 2016												
16-Dec-16	**24**	4.1	**16**	0.42 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.32 J	ND<0.5	ND<0.5	ND<2
The FRWs were off between December 28 to January 3, 2017 and January 5 to January 9, 2017												
9-Jan-17	**53**	**5.1**	**17**	ND<0.5	ND<0.5	0.40 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off between January 23 to February 2, 2017												
2-Feb-17	**18**	3.7	**24**	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.76	0.63	ND<0.5	ND<0.5	ND<2
The FRWs were off between February 20 to February 22, 2017												
1-Mar-17	**50**	**5.7**	**20**	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.99	0.64	ND<0.5	ND<0.5	ND<2
The FRWs were off between March 24 and March 29, 2017												
7-Apr-17	**65**	**5.0**	**41**	1.4	ND<0.5	ND<0.5	ND<0.5	0.71	0.49	ND<0.5	ND<0.5	ND<2
FRW-3 was off from April 17 to April 26, 2017 and April 27 to May 11, 2017												
11-May-17	**130**	**5.8**	**8.5**	0.24 J	ND<0.5	0.35 J	ND<0.5	0.35 J	0.30 J	ND<0.5	ND<0.5	ND<2
FRW-3 was off from o May 17 to June 1, 2017												
1-Jun-17	**83**	**5.8**	**12**	0.37 J	ND<0.5	ND<0.5	ND<0.5	0.38 J	0.38 J	ND<0.5	ND<0.5	1.0
The FRWs were off from June 7 to June 9 and from June 21 to 23, 2017												
6-Jul-17	3.4	0.70	1.8	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.4
The FRWs were off from July 31 to August 28, 2017												
1-Aug-17 [2/]	**35**	1.9	1.9	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.6
5-Sep-17	**15**	1.7	**6.1**	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from September 13 to 19 and from September 27 to October 4, 2017												
4-Oct-17	**21**	**6.0**	**15**	1.2	ND<0.5	ND<0.5	ND<0.5	0.48 J	0.40 J	ND<0.5	ND<0.5	2.7
The FRWs were off from October 11 to October 16, 2017 and October 29 to 31, 2017												
1-Nov-17	**17**	1.2	3.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.33 J	0.30 J	ND<0.5	ND<0.5	ND<2
The FRWs were off from November 12 to 16, 2017 and November 26 to 27, 2017												
5-Dec-17	**37**	1.8	2.3	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.37 J	0.33 J	ND<0.5	ND<0.5	ND<2
The FRWs were off from December 24, 2017 to February 9, 2018												
1-Feb-18	**22**	2.0	3.3	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.32 J	ND<0.5	ND<0.5	ND<0.5	ND<2
1-Mar-18	**120**	**7.9**	**18**	ND<0.5	0.26 J	0.65	ND<0.5	0.49 J	0.34 J	ND<0.5	ND<0.5	ND<2
The FRWs were off between March 15 and 26, 2018 and March 27 and 29, 2018												
2-Apr-18	**170**	4.5	0.2 J	0.25 J	ND<0.5	0.71	ND<0.5	0.20 J	ND<0.5	ND<0.5	ND<0.5	1.2 J
The FRWs were off between April 17 and 23, 2018 and April 26 and 30, 2018												

ARARs - Applicable Relevant and Appropriate Requirements for aquifer restoration established for the Site.
1. NYSDEC ambient water quality standards for these compounds are presented because site-specific ARARs for these compounds were not established.
2. The FP&T system was not operating because of a malfunctioning transfer pump. The FRWs were turned on manually to collect a groundwater sample.

J : Analyte detected below quantitation limits, value shown is a laboratory estimate.
B: Method
ND: Not detected

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

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

TABLE 7

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

Recovery Well FRW-4 VOC Concentrations, micrograms per liter

FRW-4						
Date	**PCE**	**TCE**	**cis12DCE**	**VC**	**TCA**	**Acetone**
ARARs	**5**	**5**	**5**	**2** [1/]	**5**	**NE**
The FRWs were shut down between March 10 and March 16, 2016 and again between March 18 and March 22, 2016						
5-Apr-16	**11**	0.70	3.5	ND<0.5	ND<0.5	ND<2
The FRWs were shut down between April 8 and April 12, 2016 and again between April 19 and 25, 2016						
2-May-16	**6.7**	0.82	1.2	ND<0.5	ND<0.5	ND<2
The FRWs were shut down between May 5 and May 17, 2016 and again between May 19 and 23, 2016						
7-Jun-16	**8.5**	0.91	1.4	ND<0.5	ND<0.5	1.2 J
7-Jul-16	**7.5**	0.78	1.4	ND<0.5	ND<0.5	ND<2
The FRWs were shut down between July 15 and July 18, 2016 and again after July 29, 2016						
2-Aug-16	3.5	0.50	2.6	ND<0.5	ND<0.5	ND<2
The FRWs were shut down between August 10 and August 13, 2016.						
1-Sep-16	2.2	0.48 J	3.8	ND<0.5	ND<0.5	ND<2
FRW-3 was shut down between September 15 and 16, 2016 and again between September 21 and October 4, 2016						
17-Oct-16	1.6	0.47 J	4.7	ND<0.5	ND<0.5	10
The FRWs were off between October 17 and November 14, 2016						
14-Nov-16	1.9	2.1	**29**	0.33 J	ND<0.5	ND<2
The FRWs were off between November 16 and December 1, 2016						
16-Dec-16	2.0	0.50	**7.8**	ND<0.5	ND<0.5	ND<2
The FRWs were off between December 28 to January 3, 2017 and January 5 to January 9, 2017						
9-Jan-17	**16**	1.8	**6.4**	ND<0.5	0.27 J	ND<2
The FRWs were off between January 23 to February 2, 2017						
2-Feb-17	**5.1**	1.4	**17**	ND<0.5	0.27 J	ND<2
The FRWs were off between February 20 to February 22, 2017						
1-Mar-17	4.0	0.60	2.2	ND<0.5	ND<0.5	ND<2
The FRWs were off between March 24 and March 29, 2017						
7-Apr-17	**7.6**	1.2	2.9	ND<0.5	ND<0.5	1.3
The FRWs were off from April 17 to April 26, 2017 and April 27 to May 1, 2017						
3-May-17	**40**	3.5	**15**	ND<0.5	0.42 J	2.1
1-Jun-17	**8.8**	0.5	2.1	ND<0.5	ND<0.5	ND<2
The FRWs were off from June 7 to June 9 and from June 21 to 23, 2017						
6-Jul-17	0.27 J	ND<0.5	0.28 J	ND<0.5	ND<0.5	1.1
The FRWs were off from July 31 to August 28, 2017						
1-Aug-17 [2/]	0.80	ND<0.5	0.28 J	ND<0.5	ND<0.5	1.6
5-Sep-17	2.7	0.42 J	0.51	ND<0.5	ND<0.5	ND<2
The FRWs were off from September 13 to 19 and from September 27 to October 4, 2017						
4-Oct-17	**9.8**	3.9	4.1	ND<0.5	ND<0.5	ND<2
The FRWs were off from October 11 to October 16, 2017 and October 29 to 31, 2017						
1-Nov-17	3.0	0.32 J	0.78	ND<0.5	ND<0.5	ND<2
The FRWs were off from November 12 to 16, 2017 and November 26 to 27, 2017						
5-Dec-17	**5.1**	ND<0.5	1.0	ND<0.5	ND<0.5	ND<2
The FRWs were off from December 24, 2017 to February 9, 2018						
1-Feb-18	**21.0**	2.5	**7.0**	ND<0.5	0.27 J	2.5
1-Mar-18	3.0	ND<0.5	0.47 J	ND<0.5	ND<0.5	ND<2
The FRWs were off between March 15 and 26, 2018 and March 27 and 29, 2018						
2-Apr-18	3.2	ND<0.5	1.0	ND<0.5	0.32 J	ND<2
The FRWs were off between April 17 and 23, 2018 and April 26 and 30, 2018						

ARARs - Applicable Relevant and Appropriate Requirements for aquifer restoration established for the Site.
1. NYSDEC ambient water quality standards for these compounds are presented because site-specific ARARs for these compounds were not established.
2. The FP&T system was not operating because of a malfunctioning transfer pump. The FRWs were turned on manually to collect a groundwater sample.

J : Analyte detected below quantitation limits, value shown is a laboratory estimate.
B: Method blank contamination, the associated method blank contains the target analyte at a reportable level.
ND: Not detected

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

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

TABLE 8

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

Carbon Unit System Air Quality Results

Precarbon			Parameters (mg/m3)													TOTAL
Sample Name	**Date**	**Time**	**PCE**	**TCE**	**TCA**	**DCA**	**cis-DCE**	**trans-DCE**	**Toluene**	**m&p-Xylenes**	**o-Xylene**	**CF**	**MC**	**EB**	**Freon 113**	**VOCs**
AQ040717:1400NP4-1	4/7/2017	14:00	0.0009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01
AQ040717:1400NP4-1	7/19/2017	13:45	0.0067	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01
AQ100417:945NP4-1	10/4/2017	9:45	0.0037	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01
AQ011718:1430NP4-1	1/17/2018	14:30	0.0042	0.0032	0.0008	ND	0.0020	ND	0.0012	ND	ND	0.0010	0.0220	ND	ND	0.06
AQ040218:1405NP4-1	4/2/2018	14:05	0.0110	0.0003	ND	ND	0.0002	ND	0.0065	ND	ND	ND	ND	ND	ND	0.03

Postcarbon			Parameters (mg/m3)													TOTAL
Sample Name	**Date**	**Time**	**PCE**	**TCE**	**TCA**	**DCA**	**cis-DCE**	**trans-DCE**	**Toluene**	**m&p-Xylenes**	**o-Xylene**	**CF**	**MC**	**EB**	**Freon 113**	**VOCs**
AQ040717:1405NP4-3 [1/]	4/7/2017	14:05	0.0007	ND	0.0018	ND	0.0033	ND	ND	ND	ND	ND	0.0032	ND	ND	0.02
AQ040717:1405NP4-3	7/19/2017	13:50	0.0005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00
AQ100417:945NP4-3	10/4/2017	9:45	0.0028	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01
AQ011718:1435:NP-3	1/17/2018	14:35	0.0011	ND	ND	ND	0.0003	ND	0.0006	ND	ND	ND	0.0460	ND	ND	0.09
AQ040218:1400NP4-3	4/2/2018	14:00	0.0015	ND	0.0009	ND	0.0027	ND	ND	ND	ND	ND	ND	ND	ND	0.01

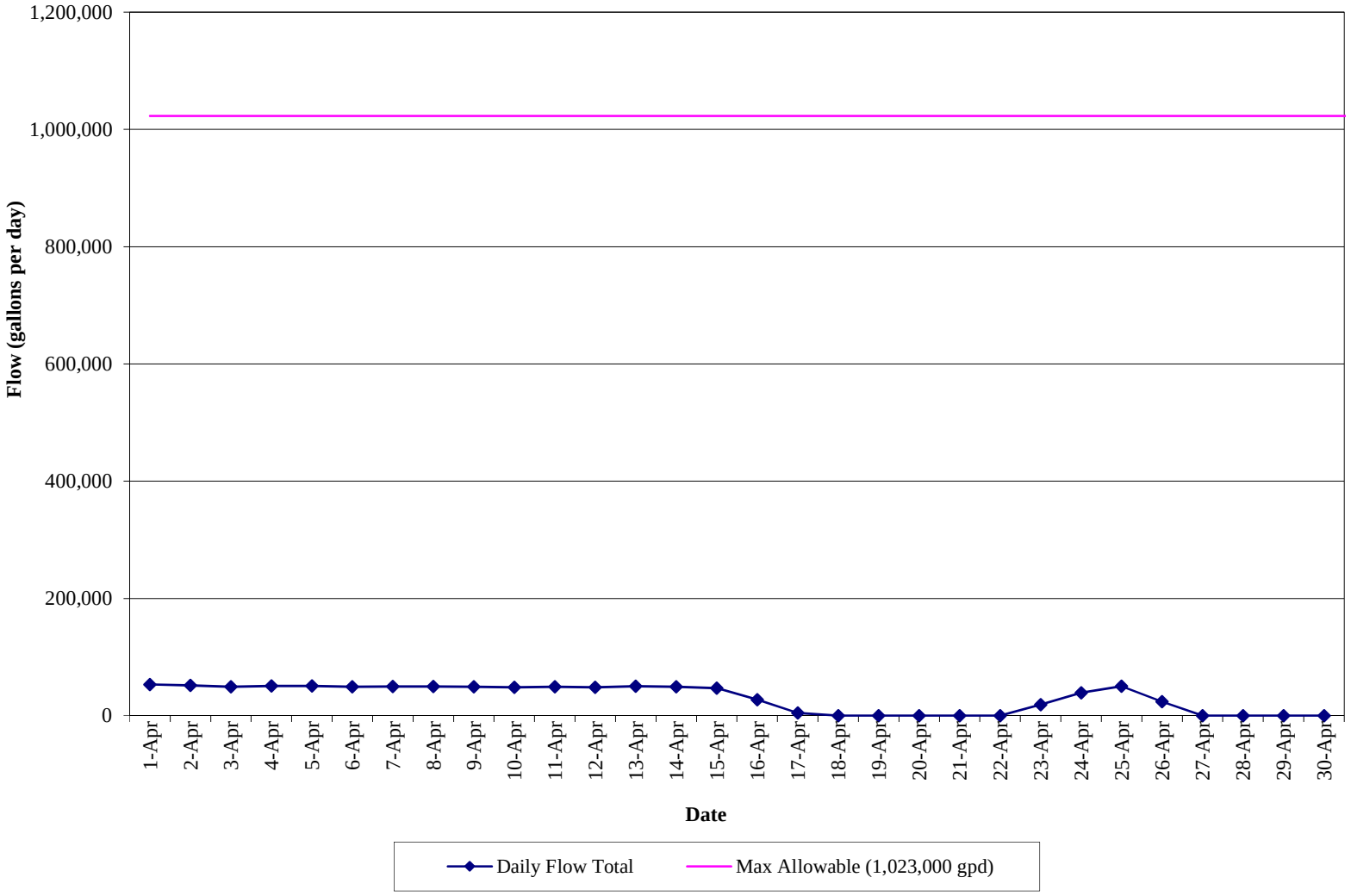
PCE: Tetrachoroethylene
TCE: Trichloroethene
TCA: 1,1,1-Trichloroethane
DCE: 1,1-Dichloroethene
DCA: 1,1-Dichloroethane
cis-DCE: cis-1,2-Dichloroethene
trans-DCE: trans-1,2-Dichloroethylene
CF: Chloroform
MC: Methylene Chloride
EB: Ethilbenzene

Note:
NA - Not Applicable. Method blank contamination. The associated method blank contains the target analyte at a reportable level.
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.
[1/] Sample was inadvertantly misslabled as NP4-2 and is listed as such in the laboratory report and on the Chain of Custody. However, the air sample was collected from the NP4-3 sample port.

GRAPHS

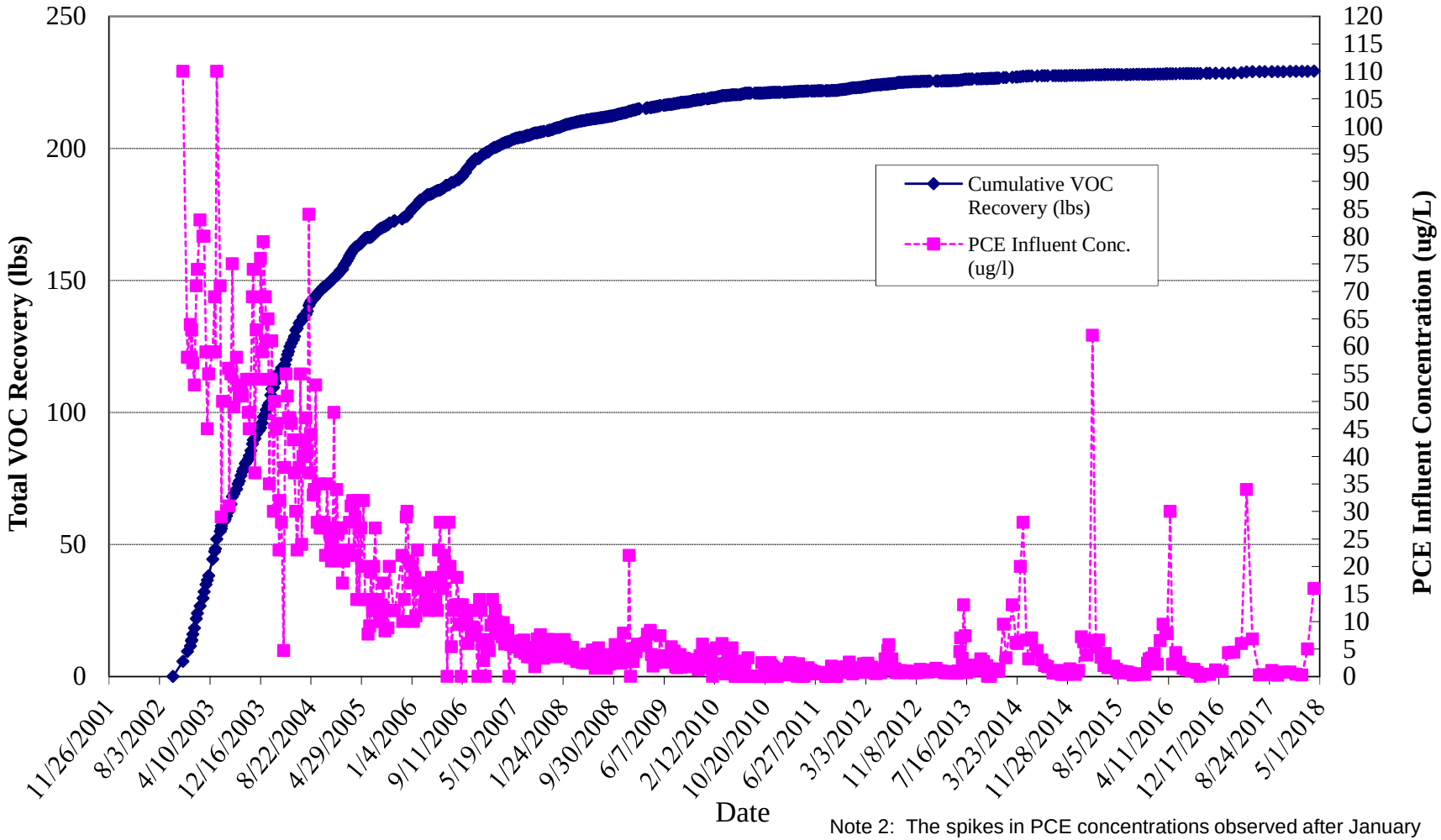
GRAPH 1
GROUNDWATER REMEDIAL ACTION
ROWE INDUSTRIES SUPERFUND SITE
SAG HARBOR, NEW YORK

Effluent Flow Data
(April 1, 2018 to April 30, 2018)



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

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



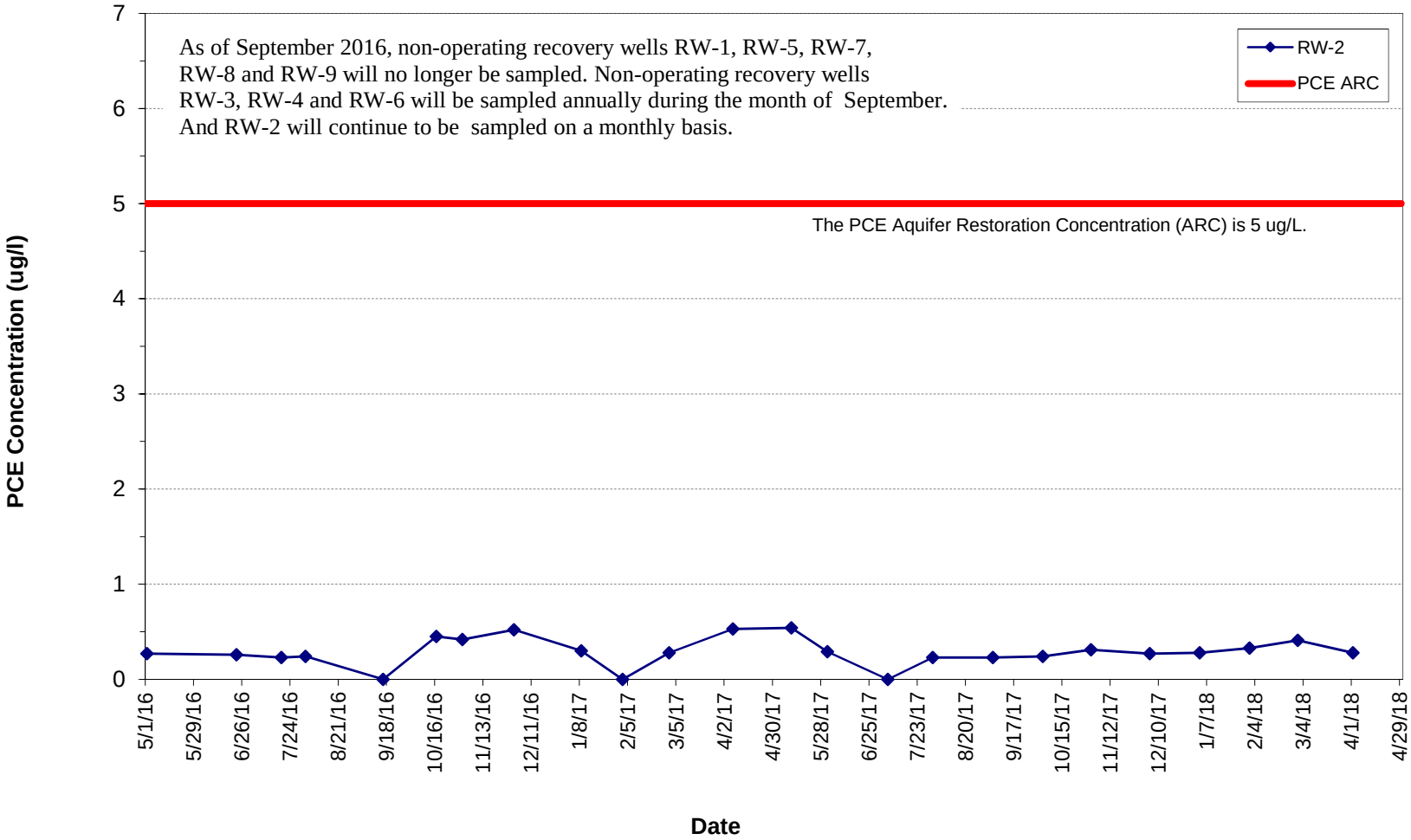
Note 1 : After September 22, 2008, the water recovered from the FP&T System is included in the results shown in this graph.

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

GRAPH 3

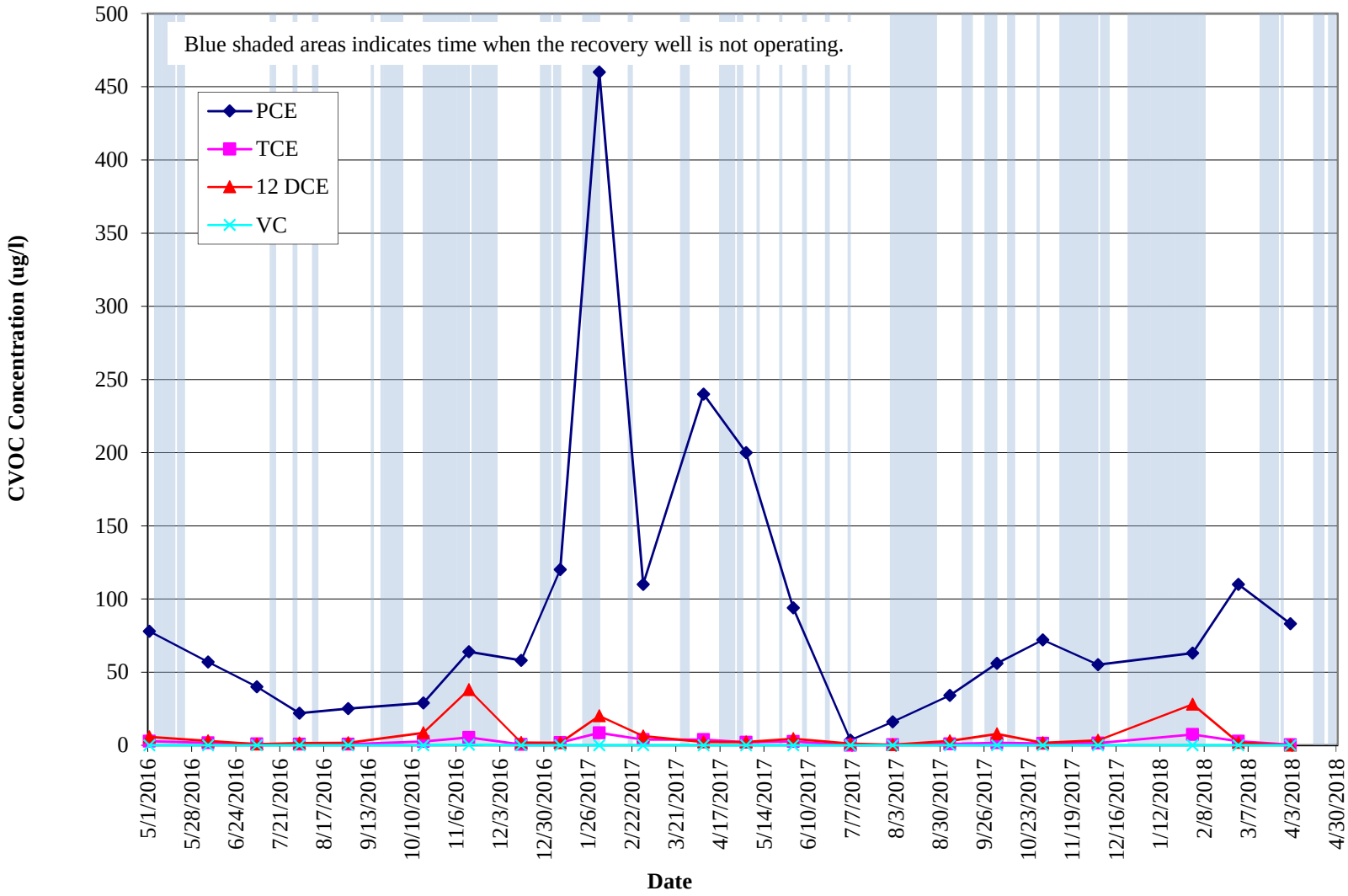
GROUNDWATER REMEDIAL ACTION
ROWE INDUSTRIES SUPERFUND SITE
SAG HARBOR, NEW YORK

FSP&T Recovery Well PCE Concentration

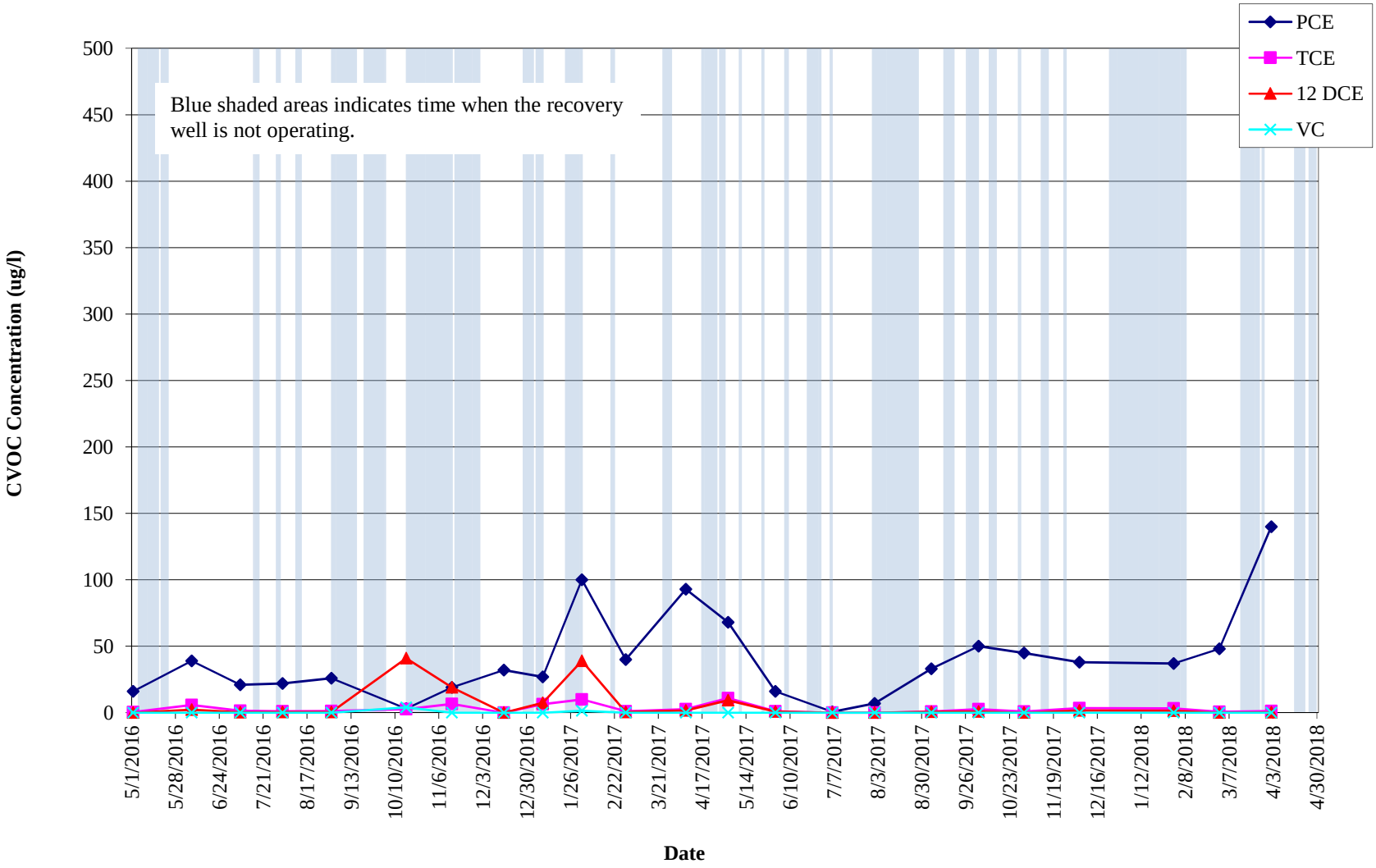


GRAPH 4
GROUNDWATER REMEDIAL ACTION
ROWE INDUSTRIES SUPERFUND SITE
SAG HARBOR, NEW YORK

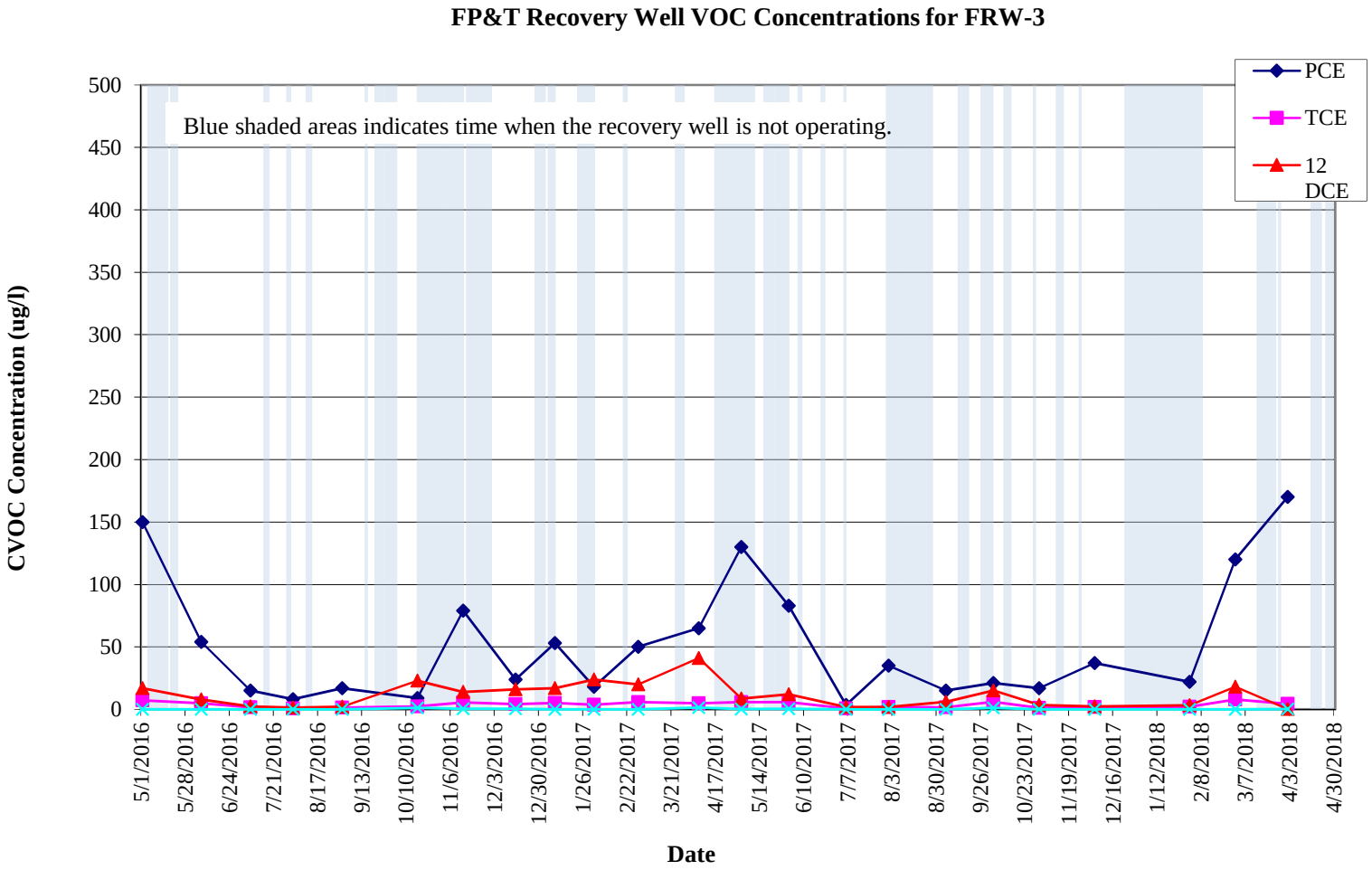
FP&T Recovery Well VOC Concentrations for FRW-1



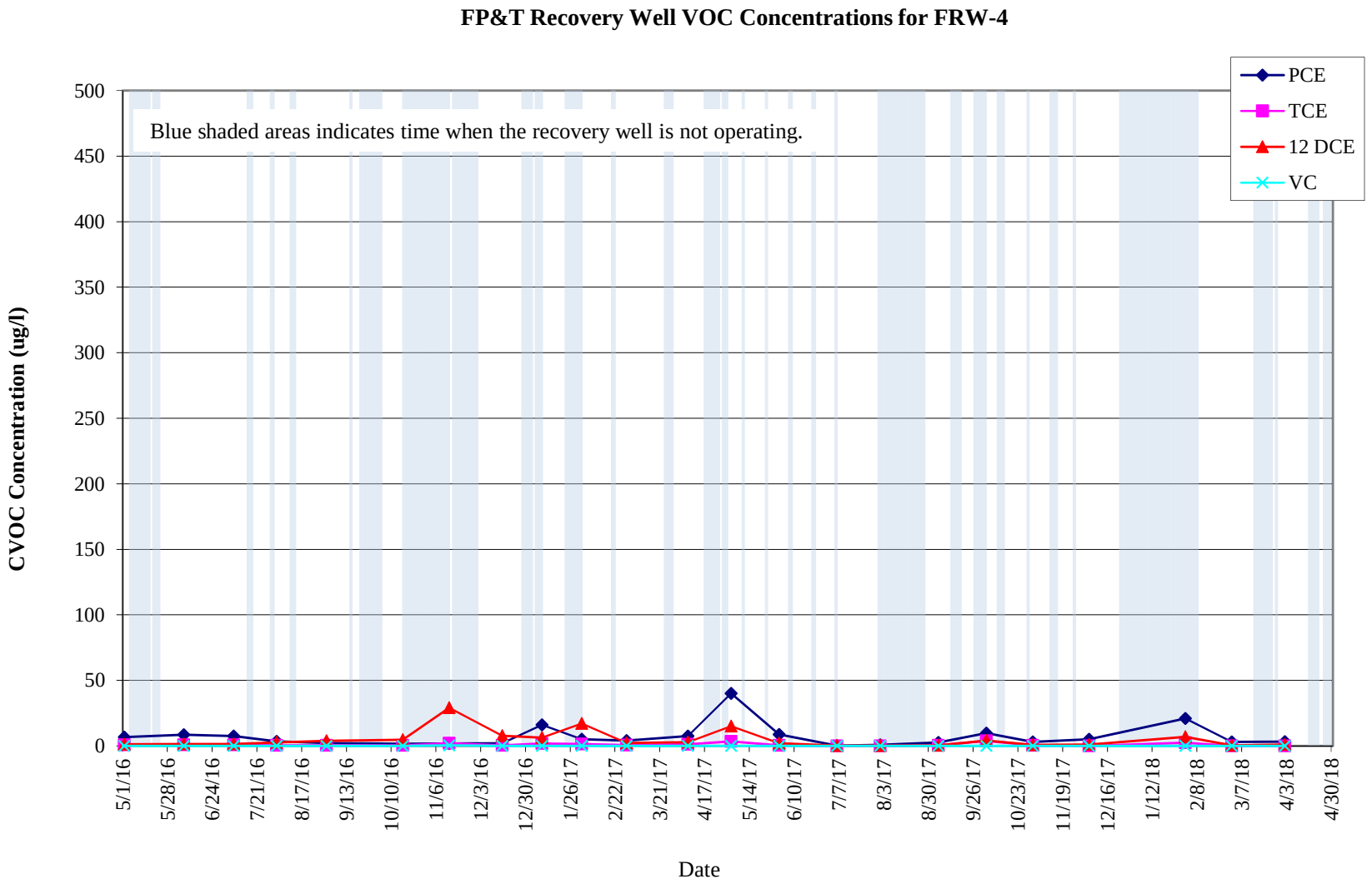
GRAPH 5
GROUNDWATER REMEDIAL ACTION
ROWE INDUSTRIES SUPERFUND SITE
SAG HARBOR, NEW YORK



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



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



APPENDIX I

APRIL 2018 LABORATORY ANALYTICAL REPORTS

FOR FSP&T SYSTEM

Technical Report

prepared for:

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

Report Date: 04/11/2018
Client Project ID: Rowe Industries
York Project (SDG) No.: 18D0130

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: 04/11/2018
Client Project ID: Rowe Industries
York Project (SDG) No.: 18D0130

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 April 04, 2018 and listed below. The project was identified as your project: **Rowe Industries**.

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

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the 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
18D0130-01	WQ040218:1335 NP2-6	Water	04/02/2018	04/04/2018
18D0130-02	WQ040218:1340 NP2-10	Water	04/02/2018	04/04/2018

General Notes for York Project (SDG) No.: 18D0130

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: 04/11/2018

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: WQ040218:1335 NP2-6 **York Sample ID:** 18D0130-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18D0130	Rowe Industries	Water	April 2, 2018 1:35 pm	04/04/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP	04/06/2018 19:33	RDS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS

Sample Information

Client Sample ID: WQ040218:1335 NP2-6 **York Sample ID:** 18D0130-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18D0130	Rowe Industries	Water	April 2, 2018 1:35 pm	04/04/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS
156-59-2	**cis-1,2-Dichloroethylene**	**0.74**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 19:33	RDS

Sample Information

Client Sample ID: WQ040218:1335 NP2-6 **York Sample ID:** 18D0130-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18D0130	Rowe Industries	Water	April 2, 2018 1:35 pm	04/04/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:33 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:33 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:33 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:33 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:33 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:33 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	RDS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:33 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	RDS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:33 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:33 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:33 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:33 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
127-18-4	**Tetrachloroethylene**	**16**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:33 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:33 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:33 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:33 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
79-01-6	**Trichloroethylene**	**0.56**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:33 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:33 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:33 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:33 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	RDS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*101 %*	*69-130*
2037-26-5	*Surrogate: Toluene-d8*	*99.5 %*	*81-117*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*102 %*	*79-122*

Sample Information

Client Sample ID: WQ040218:1340 NP2-10 **York Sample ID:** 18D0130-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18D0130	Rowe Industries	Water	April 2, 2018 1:40 pm	04/04/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 20:02	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 20:02	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 20:02	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 20:02	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 20:02	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 20:02	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 20:02	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 20:02	RDS NELAC-NY10854,NELAC-NY12058,NJDEP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 20:02	RDS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 20:02	RDS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 20:02	RDS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 20:02	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 20:02	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 20:02	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 20:02	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 20:02	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 20:02	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 20:02	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 20:02	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 20:02	RDS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 20:02	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 20:02	RDS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 20:02	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP

Sample Information

Client Sample ID: WQ040218:1340 NP2-10 **York Sample ID:** 18D0130-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18D0130	Rowe Industries	Water	April 2, 2018 1:40 pm	04/04/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 20:02	RDS
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 20:02	RDS
67-64-1	**Acetone**	**1.2**	CCV-E, SCAL-E, J	ug/L	1.0	2.0	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 20:02	RDS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 20:02	RDS
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 20:02	RDS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 20:02	RDS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 20:02	RDS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 20:02	RDS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 20:02	RDS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 20:02	RDS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 20:02	RDS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 20:02	RDS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 20:02	RDS
74-87-3	**Chloromethane**	**0.31**	J	ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 20:02	RDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 20:02	RDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 20:02	RDS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 20:02	RDS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 20:02	RDS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 20:02	RDS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 20:02	RDS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 20:02	RDS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 20:02	RDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 20:02	RDS

Sample Information

Client Sample ID: WQ040218:1340 NP2-10 **York Sample ID:** 18D0130-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18D0130	Rowe Industries	Water	April 2, 2018 1:40 pm	04/04/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 20:02	RDS
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	04/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 20:02	RDS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 20:02	RDS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 20:02	RDS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	04/06/2018 20:02	RDS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	04/06/2018 20:02	RDS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 20:02	RDS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 20:02	RDS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 20:02	RDS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 20:02	RDS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 20:02	RDS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 20:02	RDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 20:02	RDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 20:02	RDS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 20:02	RDS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 20:02	RDS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 20:02	RDS
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	04/06/2018 20:02	RDS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*99.2 %*	*69-130*
2037-26-5	*Surrogate: Toluene-d8*	*100 %*	*81-117*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*102 %*	*79-122*

Iron by EPA 200.7

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: WQ040218:1340 NP2-10 **York Sample ID:** 18D0130-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18D0130	Rowe Industries	Water	April 2, 2018 1:40 pm	04/04/2018

Iron by EPA 200.7

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	**Iron**	**2.99**		mg/L	0.0222	1	EPA 200.7	04/09/2018 12:28	04/10/2018 18:13	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Iron, Dissolved by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	**Iron**	**0.0337**		mg/L	0.0222	1	EPA 6010C	04/05/2018 09:20	04/05/2018 16:57	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Total Dissolved Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	**136**		mg/L	10.0	1	SM 2540C	04/05/2018 16:30	04/07/2018 05:00	AA
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

Analytical Batch Summary

Batch ID: BD80227 **Preparation Method:** EPA 3015A **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
18D0130-02	WQ040218:1340 NP2-10	04/05/18
BD80227-BLK1	Blank	04/05/18
BD80227-BS1	LCS	04/05/18

Batch ID: BD80272 **Preparation Method:** % Solids Prep **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
18D0130-02	WQ040218:1340 NP2-10	04/05/18
BD80272-BLK1	Blank	04/05/18
BD80272-DUP2	Duplicate	04/05/18

Batch ID: BD80298 **Preparation Method:** EPA 5030B **Prepared By:** TAB

YORK Sample ID	Client Sample ID	Preparation Date
18D0130-01	WQ040218:1335 NP2-6	04/06/18
18D0130-02	WQ040218:1340 NP2-10	04/06/18
BD80298-BLK1	Blank	04/06/18
BD80298-BS1	LCS	04/06/18
BD80298-BSD1	LCS Dup	04/06/18

Batch ID: BD80400 **Preparation Method:** EPA 200.7 **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
18D0130-02	WQ040218:1340 NP2-10	04/09/18
BD80400-BLK1	Blank	04/09/18
BD80400-BS1	LCS	04/09/18

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 BD80298 - EPA 5030B											
Blank (BD80298-BLK1)											Prepared & Analyzed: 04/06/2018
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,1-Dichloropropylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,3-Dichloropropane	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2,2-Dichloropropane	ND	0.50	"								
2-Chlorotoluene	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Chlorotoluene	ND	0.50	"								
Acetone	ND	2.0	"								
Benzene	ND	0.50	"								
Bromobenzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylene chloride	ND	2.0	"								
Naphthalene	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD80298 - EPA 5030B											
Blank (BD80298-BLK1)								Prepared & Analyzed: 04/06/2018			
o-Xylene	ND	0.50	ug/L								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: 1,2-Dichloroethane-d4	*9.76*		*"*	*10.0*		*97.6*	*69-130*				
Surrogate: Toluene-d8	*10.2*		*"*	*10.0*		*102*	*81-117*				
Surrogate: p-Bromofluorobenzene	*10.4*		*"*	*10.0*		*104*	*79-122*				
LCS (BD80298-BS1)								Prepared & Analyzed: 04/06/2018			
1,1,1,2-Tetrachloroethane	9.59		ug/L	10.0		95.9	82-126				
1,1,1-Trichloroethane	10.5		"	10.0		105	78-136				
1,1,2,2-Tetrachloroethane	9.23		"	10.0		92.3	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.6		"	10.0		106	54-165				
1,1,2-Trichloroethane	9.20		"	10.0		92.0	82-123				
1,1-Dichloroethane	10.7		"	10.0		107	82-129				
1,1-Dichloroethylene	10.9		"	10.0		109	68-138				
1,1-Dichloropropylene	10.7		"	10.0		107	83-133				
1,2,3-Trichlorobenzene	8.05		"	10.0		80.5	76-136				
1,2,3-Trichloropropane	9.57		"	10.0		95.7	77-128				
1,2,4-Trichlorobenzene	8.29		"	10.0		82.9	76-137				
1,2,4-Trimethylbenzene	10.2		"	10.0		102	82-132				
1,2-Dibromo-3-chloropropane	7.55		"	10.0		75.5	45-147				
1,2-Dibromoethane	9.21		"	10.0		92.1	83-124				
1,2-Dichlorobenzene	9.66		"	10.0		96.6	79-123				
1,2-Dichloroethane	9.65		"	10.0		96.5	73-132				
1,2-Dichloropropane	10.1		"	10.0		101	78-126				
1,3,5-Trimethylbenzene	10.4		"	10.0		104	80-131				
1,3-Dichlorobenzene	10.4		"	10.0		104	86-122				
1,3-Dichloropropane	9.24		"	10.0		92.4	81-125				
1,4-Dichlorobenzene	9.68		"	10.0		96.8	85-124				
2,2-Dichloropropane	10.6		"	10.0		106	56-150				
2-Chlorotoluene	10.6		"	10.0		106	79-130				
2-Hexanone	8.72		"	10.0		87.2	51-146				
4-Chlorotoluene	10.1		"	10.0		101	79-128				
Acetone	11.4		"	10.0		114	14-150				
Benzene	10.7		"	10.0		107	85-126				
Bromobenzene	9.57		"	10.0		95.7	78-129				
Bromochloromethane	11.1		"	10.0		111	77-128				
Bromodichloromethane	9.34		"	10.0		93.4	79-128				
Bromoform	7.84		"	10.0		78.4	78-133				
Bromomethane	13.8		"	10.0		138	43-168				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD80298 - EPA 5030B											
LCS (BD80298-BS1)								Prepared & Analyzed: 04/06/2018			
Carbon tetrachloride	10.5		ug/L	10.0		105	77-141				
Chlorobenzene	9.82		"	10.0		98.2	88-120				
Chloroethane	14.4		"	10.0		144	65-136	High Bias			
Chloroform	10.4		"	10.0		104	82-128				
Chloromethane	11.4		"	10.0		114	43-155				
cis-1,2-Dichloroethylene	10.7		"	10.0		107	83-129				
cis-1,3-Dichloropropylene	9.08		"	10.0		90.8	80-131				
Dibromochloromethane	9.11		"	10.0		91.1	80-130				
Dibromomethane	9.30		"	10.0		93.0	72-134				
Dichlorodifluoromethane	8.19		"	10.0		81.9	44-144				
Ethyl Benzene	10.5		"	10.0		105	80-131				
Hexachlorobutadiene	7.20		"	10.0		72.0	67-146				
Isopropylbenzene	10.7		"	10.0		107	76-140				
Methyl tert-butyl ether (MTBE)	9.13		"	10.0		91.3	76-135				
Methylene chloride	10.4		"	10.0		104	55-137				
Naphthalene	8.14		"	10.0		81.4	70-147				
n-Butylbenzene	10.3		"	10.0		103	79-132				
n-Propylbenzene	10.9		"	10.0		109	78-133				
o-Xylene	9.95		"	10.0		99.5	78-130				
p- & m- Xylenes	21.7		"	20.0		108	77-133				
p-Isopropyltoluene	10.6		"	10.0		106	81-136				
sec-Butylbenzene	11.0		"	10.0		110	79-137				
Styrene	9.62		"	10.0		96.2	67-132				
tert-Butylbenzene	10.3		"	10.0		103	77-138				
Tetrachloroethylene	9.91		"	10.0		99.1	82-131				
Toluene	10.3		"	10.0		103	80-127				
trans-1,2-Dichloroethylene	10.5		"	10.0		105	80-132				
trans-1,3-Dichloropropylene	8.23		"	10.0		82.3	78-131				
Trichloroethylene	10.2		"	10.0		102	82-128				
Trichlorofluoromethane	15.0		"	10.0		150	67-139	High Bias			
Vinyl Chloride	12.5		"	10.0		125	58-145				
Surrogate: 1,2-Dichloroethane-d4	*9.50*		*"*	*10.0*		*95.0*	*69-130*				
Surrogate: Toluene-d8	*10.2*		*"*	*10.0*		*102*	*81-117*				
Surrogate: p-Bromofluorobenzene	*9.80*		*"*	*10.0*		*98.0*	*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 BD80298 - EPA 5030B

LCS Dup (BD80298-BSD1) Prepared & Analyzed: 04/06/2018

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
1,1,1,2-Tetrachloroethane	9.32		ug/L	10.0		93.2	82-126		2.86	30	
1,1,1-Trichloroethane	9.80		"	10.0		98.0	78-136		6.80	30	
1,1,2,2-Tetrachloroethane	9.92		"	10.0		99.2	76-129		7.21	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.97		"	10.0		99.7	54-165		6.60	30	
1,1,2-Trichloroethane	9.00		"	10.0		90.0	82-123		2.20	30	
1,1-Dichloroethane	10.1		"	10.0		101	82-129		5.66	30	
1,1-Dichloroethylene	9.94		"	10.0		99.4	68-138		8.85	30	
1,1-Dichloropropylene	9.72		"	10.0		97.2	83-133		9.22	30	
1,2,3-Trichlorobenzene	8.41		"	10.0		84.1	76-136		4.37	30	
1,2,3-Trichloropropane	9.90		"	10.0		99.0	77-128		3.39	30	
1,2,4-Trichlorobenzene	8.51		"	10.0		85.1	76-137		2.62	30	
1,2,4-Trimethylbenzene	9.50		"	10.0		95.0	82-132		6.91	30	
1,2-Dibromo-3-chloropropane	8.54		"	10.0		85.4	45-147		12.3	30	
1,2-Dibromoethane	9.61		"	10.0		96.1	83-124		4.25	30	
1,2-Dichlorobenzene	9.51		"	10.0		95.1	79-123		1.56	30	
1,2-Dichloroethane	10.0		"	10.0		100	73-132		3.96	30	
1,2-Dichloropropane	9.49		"	10.0		94.9	78-126		6.23	30	
1,3,5-Trimethylbenzene	9.57		"	10.0		95.7	80-131		8.02	30	
1,3-Dichlorobenzene	9.74		"	10.0		97.4	86-122		6.55	30	
1,3-Dichloropropane	9.27		"	10.0		92.7	81-125		0.324	30	
1,4-Dichlorobenzene	9.15		"	10.0		91.5	85-124		5.63	30	
2,2-Dichloropropane	9.61		"	10.0		96.1	56-150		9.42	30	
2-Chlorotoluene	9.82		"	10.0		98.2	79-130		7.92	30	
2-Hexanone	9.31		"	10.0		93.1	51-146		6.54	30	
4-Chlorotoluene	9.35		"	10.0		93.5	79-128		8.11	30	
Acetone	9.31		"	10.0		93.1	14-150		20.4	30	
Benzene	10.1		"	10.0		101	85-126		5.77	30	
Bromobenzene	9.12		"	10.0		91.2	78-129		4.82	30	
Bromochloromethane	11.2		"	10.0		112	77-128		0.720	30	
Bromodichloromethane	9.17		"	10.0		91.7	79-128		1.84	30	
Bromoform	8.40		"	10.0		84.0	78-133		6.90	30	
Bromomethane	13.5		"	10.0		135	43-168		1.98	30	
Carbon tetrachloride	9.68		"	10.0		96.8	77-141		8.41	30	
Chlorobenzene	9.25		"	10.0		92.5	88-120		5.98	30	
Chloroethane	13.3		"	10.0		133	65-136		7.51	30	
Chloroform	10.0		"	10.0		100	82-128		3.52	30	
Chloromethane	10.8		"	10.0		108	43-155		5.47	30	
cis-1,2-Dichloroethylene	10.1		"	10.0		101	83-129		5.59	30	
cis-1,3-Dichloropropylene	8.74		"	10.0		87.4	80-131		3.82	30	
Dibromochloromethane	9.14		"	10.0		91.4	80-130		0.329	30	
Dibromomethane	9.38		"	10.0		93.8	72-134		0.857	30	
Dichlorodifluoromethane	7.38		"	10.0		73.8	44-144		10.4	30	
Ethyl Benzene	9.67		"	10.0		96.7	80-131		8.42	30	
Hexachlorobutadiene	7.10		"	10.0		71.0	67-146		1.40	30	
Isopropylbenzene	9.73		"	10.0		97.3	76-140		9.12	30	
Methyl tert-butyl ether (MTBE)	10.1		"	10.0		101	76-135		10.4	30	
Methylene chloride	10.1		"	10.0		101	55-137		3.21	30	
Naphthalene	9.00		"	10.0		90.0	70-147		10.0	30	
n-Butylbenzene	9.60		"	10.0		96.0	79-132		6.94	30	
n-Propylbenzene	9.89		"	10.0		98.9	78-133		9.53	30	
o-Xylene	9.33		"	10.0		93.3	78-130		6.43	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 BD80298 - EPA 5030B											
LCS Dup (BD80298-BSD1)								Prepared & Analyzed: 04/06/2018			
p- & m- Xylenes	20.1		ug/L	20.0		101	77-133		7.51	30	
p-Isopropyltoluene	9.86		"	10.0		98.6	81-136		7.61	30	
sec-Butylbenzene	10.1		"	10.0		101	79-137		8.25	30	
Styrene	9.13		"	10.0		91.3	67-132		5.23	30	
tert-Butylbenzene	9.51		"	10.0		95.1	77-138		8.17	30	
Tetrachloroethylene	8.49		"	10.0		84.9	82-131		15.4	30	
Toluene	9.50		"	10.0		95.0	80-127		8.37	30	
trans-1,2-Dichloroethylene	9.75		"	10.0		97.5	80-132		7.60	30	
trans-1,3-Dichloropropylene	8.32		"	10.0		83.2	78-131		1.09	30	
Trichloroethylene	9.08		"	10.0		90.8	82-128		11.4	30	
Trichlorofluoromethane	14.0		"	10.0		140	67-139	High Bias	6.78	30	
Vinyl Chloride	11.7		"	10.0		117	58-145		7.11	30	
Surrogate: 1,2-Dichloroethane-d4	*10.1*		*"*	*10.0*		*101*	*69-130*				
Surrogate: Toluene-d8	*9.92*		*"*	*10.0*		*99.2*	*81-117*				
Surrogate: p-Bromofluorobenzene	*9.75*		*"*	*10.0*		*97.5*	*79-122*				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD80227 - EPA 3015A											
Blank (BD80227-BLK1)								Prepared & Analyzed: 04/05/2018			
Iron - Dissolved	ND	0.0222	mg/L								
LCS (BD80227-BS1)								Prepared & Analyzed: 04/05/2018			
Iron - Dissolved	1.00		ug/mL	1.00		100	80-120				
Batch BD80400 - EPA 200.7											
Blank (BD80400-BLK1)								Prepared: 04/09/2018 Analyzed: 04/10/2018			
Iron	ND	0.0222	mg/L								
LCS (BD80400-BS1)								Prepared: 04/09/2018 Analyzed: 04/10/2018			
Iron	1.04		ug/mL	1.00		104	85-115				

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 BD80272 - % Solids Prep											
Blank (BD80272-BLK1)									Prepared: 04/05/2018 Analyzed: 04/07/2018		
Total Dissolved Solids	ND	10.0	mg/L								
Duplicate (BD80272-DUP2)	*Source sample: 18D0130-02 (WQ040218:1340 NP2-10)								Prepared: 04/05/2018 Analyzed: 04/07/2018		
Total Dissolved Solids	140	10.0	mg/L		136				2.90	15	

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
18D0130-01	WQ040218:1335 NP2-6	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18D0130-02	WQ040218:1340 NP2-10	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

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

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
YORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
STRATFORD, CT 06615
(203) 325-1371
FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

York Project No. 18D0130

YOUR Information	Report to:	Invoice To:	Your Project ID	Turn-Around Time
Company: WSP USA	SAME [X]	SAME [X]	Rowe Industries	RUSH-Same Day
Address: 4 Research Drive	Name:	Name:		RUSH-Next Day
Suite 301, Shelton CT 06484	Company:	Company:	Purchase Order #	RUSH-Two Day
Phone.: 203.929.8555	Address:	Address:	NABSAG	RUSH-Three Day
Contact: Tunde Sandor				RUSH-Four Day
E-mail: tunde.sandor@wsp.com		E-mail	Samples from CT__NY x_NJ__	Standard (5-7day) X

Report/Deliverable Type	
Summary Report	X, PDF
QA Report	X, PDF
CT RCP	
CT RCP DQA/DUE Pkg	
NY ASP A Package	
NY ASP B Package	X, PDF
NJDEP Reduced Deliv	
Excel	X
NYSDEC EQuIS	
NJDEP SRP HazSite	
EQuIS	
GIS/KEY (std)	
YORK Regulatory Comp Excel compared to:	
OTHER:	

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

Samples Collected/Authorized By (Signature)

Evan Foster
Name (printed)

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

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part360-Routine
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part360-Baseline
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part360-Expanded No Excess Fixtures
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part360-Expanded Full List
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM

Sample Identification	Date+Time Sampled	Matrix	Analysis Requested (List above includes common analysis)	Container Description
WQ040218.1335NP2-6	4-2-18	GW	VOCs 8260 full plus freon 113	3voa's
WQ040218.1340NP2-10	"	GW	Fe by EPA 200.7; Fe dissolved by EPA 6010; VOCs 8260 full plus freon 113; TDS	3voa's; 3plastic.

Comments:

Preservation (check all applicable): 4°C ___ Frozen ___ HCl ✓ MeOH ___ HNO_3 ✓ H_2SO_4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other ___

Special Instructions
Field Filtered ☐
Lab to Filter ☐

(system)

Samples Relinquished By	4/3/18 800	Samples Received By	WSP Fridge 4/3/18 800	Temperature on Receipt
Samples Relinquished By	Date/Time	Samples Received in LAB by	Grace 4-4-18 1519 Date/Time	1.8 °C

Received 4/4/18 13:30

APPENDIX II
APRIL 2018 LABORATORY ANALYTICAL REPORTS
FOR FSP&T AND FP&T RECOVERY WELLS

Technical Report

prepared for:

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

Report Date: 04/11/2018
Client Project ID: Rowe Industries
York Project (SDG) No.: 18D0127

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: 04/11/2018
Client Project ID: Rowe Industries
York Project (SDG) No.: 18D0127

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 April 04, 2018 and listed below. The project was identified as your project: **Rowe Industries**.

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

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the 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
18D0127-01	WQ040218:1300 FRW-1	Water	04/02/2018	04/04/2018
18D0127-02	WQ040218:1305 FRW-2	Water	04/02/2018	04/04/2018
18D0127-03	WQ040218:1310 FRW-3	Water	04/02/2018	04/04/2018
18D0127-04	WQ040218:1315 FRW-4	Water	04/02/2018	04/04/2018
18D0127-05	WQ040218:1330 NP1-1-2	Water	04/02/2018	04/04/2018

General Notes for York Project (SDG) No.: 18D0127

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: 04/11/2018

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: WQ040218:1300 FRW-1 **York Sample ID:** 18D0127-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18D0127	Rowe Industries	Water	April 2, 2018 1:00 pm	04/04/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/06/2018 07:30	04/06/2018 17:11	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-55-6	**1,1,1-Trichloroethane**	**0.25**	J	ug/L	0.20	0.50	1	EPA 8260C	04/06/2018 07:30	04/06/2018 17:11	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/06/2018 07:30	04/06/2018 17:11	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	04/06/2018 07:30	04/06/2018 17:11	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/06/2018 07:30	04/06/2018 17:11	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/06/2018 07:30	04/06/2018 17:11	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/06/2018 07:30	04/06/2018 17:11	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/06/2018 07:30	04/06/2018 17:11	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/06/2018 07:30	04/06/2018 17:11	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/06/2018 07:30	04/06/2018 17:11	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/06/2018 07:30	04/06/2018 17:11	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/06/2018 07:30	04/06/2018 17:11	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/06/2018 07:30	04/06/2018 17:11	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/06/2018 07:30	04/06/2018 17:11	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/06/2018 07:30	04/06/2018 17:11	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/06/2018 07:30	04/06/2018 17:11	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/06/2018 07:30	04/06/2018 17:11	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/06/2018 07:30	04/06/2018 17:11	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/06/2018 07:30	04/06/2018 17:11	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/06/2018 07:30	04/06/2018 17:11	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/06/2018 07:30	04/06/2018 17:11	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/06/2018 07:30	04/06/2018 17:11	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: WQ040218:1300 FRW-1 **York Sample ID:** 18D0127-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18D0127	Rowe Industries	Water	April 2, 2018 1:00 pm	04/04/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 17:11	RDS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 17:11	RDS
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 17:11	RDS
67-64-1	**Acetone**	**1.2**	CCV-E, SCAL-E, J	ug/L	1.0	2.0	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 17:11	RDS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 17:11	RDS
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 17:11	RDS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 17:11	RDS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 17:11	RDS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 17:11	RDS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 17:11	RDS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 17:11	RDS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 17:11	RDS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 17:11	RDS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 17:11	RDS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 17:11	RDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 17:11	RDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 17:11	RDS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 17:11	RDS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 17:11	RDS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 17:11	RDS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 17:11	RDS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 17:11	RDS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 17:11	RDS

Sample Information

Client Sample ID: WQ040218:1300 FRW-1 **York Sample ID:** 18D0127-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18D0127	Rowe Industries	Water	April 2, 2018 1:00 pm	04/04/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:11 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:11 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	RDS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:11 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	RDS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
127-18-4	**Tetrachloroethylene**	**83**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
79-01-6	**Trichloroethylene**	**0.31**	J	ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	RDS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*99.7 %*	*69-130*
2037-26-5	*Surrogate: Toluene-d8*	*101 %*	*81-117*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*103 %*	*79-122*

Sample Information

Client Sample ID: WQ040218:1305 FRW-2 **York Sample ID:** 18D0127-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18D0127	Rowe Industries	Water	April 2, 2018 1:05 pm	04/04/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS NELAC-NY10854,NELAC-NY12058,NJDEP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP

Sample Information

Client Sample ID: WQ040218:1305 FRW-2 **York Sample ID:** 18D0127-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18D0127	Rowe Industries	Water	April 2, 2018 1:05 pm	04/04/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
156-59-2	**cis-1,2-Dichloroethylene**	**0.36**	J	ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39	RDS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP

Sample Information

Client Sample ID: WQ040218:1305 FRW-2 **York Sample ID:** 18D0127-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18D0127	Rowe Industries	Water	April 2, 2018 1:05 pm	04/04/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	RDS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	RDS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
127-18-4	**Tetrachloroethylene**	**140**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
79-01-6	**Trichloroethylene**	**1.2**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 17:39 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	RDS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*103 %*	*69-130*
2037-26-5	*Surrogate: Toluene-d8*	*99.3 %*	*81-117*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*103 %*	*79-122*

Sample Information

Client Sample ID: WQ040218:1310 FRW-3 **York Sample ID:** 18D0127-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18D0127	Rowe Industries	Water	April 2, 2018 1:10 pm	04/04/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
71-55-6	**1,1,1-Trichloroethane**	**0.71**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP	04/06/2018 18:08	RDS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS

Sample Information

Client Sample ID: WQ040218:1310 FRW-3 **York Sample ID:** 18D0127-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18D0127	Rowe Industries	Water	April 2, 2018 1:10 pm	04/04/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
67-64-1	**Acetone**	**1.2**	CCV-E, SCAL-E, J	ug/L	1.0	2.0	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
156-59-2	**cis-1,2-Dichloroethylene**	**7.9**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
98-82-8	**Isopropylbenzene**	**0.20**	J	ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS

Sample Information

Client Sample ID: WQ040218:1310 FRW-3 **York Sample ID:** 18D0127-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18D0127	Rowe Industries	Water	April 2, 2018 1:10 pm	04/04/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	04/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	04/06/2018 18:08	RDS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	04/06/2018 18:08	RDS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
127-18-4	**Tetrachloroethylene**	**170**		ug/L	1.0	2.5	5	EPA 8260C Certifications:	04/09/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/09/2018 14:42	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
79-01-6	**Trichloroethylene**	**4.5**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
75-01-4	**Vinyl Chloride**	**0.25**	CCV-E, J	ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2018 18:08	RDS
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications:	04/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	04/06/2018 18:08	RDS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*101 %*	*69-130*
2037-26-5	*Surrogate: Toluene-d8*	*97.4 %*	*81-117*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*111 %*	*79-122*

Sample Information

Client Sample ID: WQ040218:1315 FRW-4 **York Sample ID:** 18D0127-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18D0127	Rowe Industries	Water	April 2, 2018 1:15 pm	04/04/2018

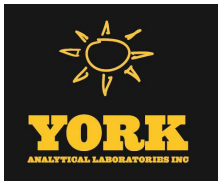
Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/09/2018 07:30	04/09/2018 14:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/09/2018 07:30	04/09/2018 14:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/09/2018 07:30	04/09/2018 14:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/09/2018 07:30	04/09/2018 14:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/09/2018 07:30	04/09/2018 14:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/09/2018 07:30	04/09/2018 14:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/09/2018 07:30	04/09/2018 14:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/09/2018 07:30	04/09/2018 14:11 NELAC-NY10854,NELAC-NY12058,NJDEP	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/09/2018 07:30	04/09/2018 14:11 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/09/2018 07:30	04/09/2018 14:11 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/09/2018 07:30	04/09/2018 14:11 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/09/2018 07:30	04/09/2018 14:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/09/2018 07:30	04/09/2018 14:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/09/2018 07:30	04/09/2018 14:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/09/2018 07:30	04/09/2018 14:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/09/2018 07:30	04/09/2018 14:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/09/2018 07:30	04/09/2018 14:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/09/2018 07:30	04/09/2018 14:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/09/2018 07:30	04/09/2018 14:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/09/2018 07:30	04/09/2018 14:11 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/09/2018 07:30	04/09/2018 14:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/09/2018 07:30	04/09/2018 14:11 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/09/2018 07:30	04/09/2018 14:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS



Sample Information

Client Sample ID: **WQ040218:1315 FRW-4** **York Sample ID:** **18D0127-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18D0127	Rowe Industries	Water	April 2, 2018 1:15 pm	04/04/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	**2-Hexanone**	**1.2**		ug/L	0.20	0.50	1	EPA 8260C	04/09/2018 07:30	04/09/2018 14:11	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/09/2018 07:30	04/09/2018 14:11	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	04/09/2018 07:30	04/09/2018 14:11	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/09/2018 07:30	04/09/2018 14:11	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/09/2018 07:30	04/09/2018 14:11	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/09/2018 07:30	04/09/2018 14:11	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/09/2018 07:30	04/09/2018 14:11	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	04/09/2018 07:30	04/09/2018 14:11	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/09/2018 07:30	04/09/2018 14:11	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	04/09/2018 07:30	04/09/2018 14:11	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/09/2018 07:30	04/09/2018 14:11	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/09/2018 07:30	04/09/2018 14:11	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	04/09/2018 07:30	04/09/2018 14:11	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/09/2018 07:30	04/09/2018 14:11	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-59-2	**cis-1,2-Dichloroethylene**	**1.0**		ug/L	0.20	0.50	1	EPA 8260C	04/09/2018 07:30	04/09/2018 14:11	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/09/2018 07:30	04/09/2018 14:11	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/09/2018 07:30	04/09/2018 14:11	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/09/2018 07:30	04/09/2018 14:11	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	04/09/2018 07:30	04/09/2018 14:11	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/09/2018 07:30	04/09/2018 14:11	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/09/2018 07:30	04/09/2018 14:11	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	04/09/2018 07:30	04/09/2018 14:11	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	04/09/2018 07:30	04/09/2018 14:11	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: WQ040218:1315 FRW-4 **York Sample ID:** 18D0127-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18D0127	Rowe Industries	Water	April 2, 2018 1:15 pm	04/04/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	04/09/2018 07:30	04/09/2018 14:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	04/09/2018 07:30	04/09/2018 14:11 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/09/2018 07:30	04/09/2018 14:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/09/2018 07:30	04/09/2018 14:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/09/2018 07:30	04/09/2018 14:11 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	04/09/2018 07:30	04/09/2018 14:11 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/09/2018 07:30	04/09/2018 14:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/09/2018 07:30	04/09/2018 14:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/09/2018 07:30	04/09/2018 14:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/09/2018 07:30	04/09/2018 14:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
127-18-4	**Tetrachloroethylene**	**3.2**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/09/2018 07:30	04/09/2018 14:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/09/2018 07:30	04/09/2018 14:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/09/2018 07:30	04/09/2018 14:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/09/2018 07:30	04/09/2018 14:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
79-01-6	**Trichloroethylene**	**0.32**	J	ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/09/2018 07:30	04/09/2018 14:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/09/2018 07:30	04/09/2018 14:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/09/2018 07:30	04/09/2018 14:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications:	04/09/2018 07:30	04/09/2018 14:11 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*101 %*	*69-130*
2037-26-5	*Surrogate: Toluene-d8*	*101 %*	*81-117*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*103 %*	*79-122*

Sample Information

Client Sample ID: WQ040218:1330 NP1-1-2 **York Sample ID:** 18D0127-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18D0127	Rowe Industries	Water	April 2, 2018 1:30 pm	04/04/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 NELAC-NY10854,NELAC-NY12058,NJDEP	RDS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS

Sample Information

Client Sample ID: WQ040218:1330 NP1-1-2 **York Sample ID:** 18D0127-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18D0127	Rowe Industries	Water	April 2, 2018 1:30 pm	04/04/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS

Sample Information

Client Sample ID: WQ040218:1330 NP1-1-2 **York Sample ID:** 18D0127-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18D0127	Rowe Industries	Water	April 2, 2018 1:30 pm	04/04/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	RDS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	RDS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
127-18-4	**Tetrachloroethylene**	**0.28**	J	ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
79-01-6	**Trichloroethylene**	**0.36**	J	ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	RDS
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications:	04/06/2018 07:30	04/06/2018 19:05 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	RDS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*98.5 %*	*69-130*
2037-26-5	*Surrogate: Toluene-d8*	*101 %*	*81-117*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*103 %*	*79-122*

Analytical Batch Summary

Batch ID: BD80298 **Preparation Method:** EPA 5030B **Prepared By:** TAB

YORK Sample ID	Client Sample ID	Preparation Date
18D0127-01	WQ040218:1300 FRW-1	04/06/18
18D0127-02	WQ040218:1305 FRW-2	04/06/18
18D0127-03	WQ040218:1310 FRW-3	04/06/18
18D0127-05	WQ040218:1330 NP1-1-2	04/06/18
BD80298-BLK1	Blank	04/06/18
BD80298-BS1	LCS	04/06/18
BD80298-BSD1	LCS Dup	04/06/18

Batch ID: BD80365 **Preparation Method:** EPA 5030B **Prepared By:** RDS

YORK Sample ID	Client Sample ID	Preparation Date
18D0127-03RE1	WQ040218:1310 FRW-3	04/09/18
18D0127-04	WQ040218:1315 FRW-4	04/09/18
BD80365-BLK1	Blank	04/09/18
BD80365-BS1	LCS	04/09/18
BD80365-BSD1	LCS Dup	04/09/18

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 BD80298 - EPA 5030B											
Blank (BD80298-BLK1)											Prepared & Analyzed: 04/06/2018
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,1-Dichloropropylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,3-Dichloropropane	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2,2-Dichloropropane	ND	0.50	"								
2-Chlorotoluene	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Chlorotoluene	ND	0.50	"								
Acetone	ND	2.0	"								
Benzene	ND	0.50	"								
Bromobenzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylene chloride	ND	2.0	"								
Naphthalene	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD80298 - EPA 5030B											
Blank (BD80298-BLK1)								Prepared & Analyzed: 04/06/2018			
o-Xylene	ND	0.50	ug/L								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: 1,2-Dichloroethane-d4	*9.76*		*"*	*10.0*		*97.6*	*69-130*				
Surrogate: Toluene-d8	*10.2*		*"*	*10.0*		*102*	*81-117*				
Surrogate: p-Bromofluorobenzene	*10.4*		*"*	*10.0*		*104*	*79-122*				
LCS (BD80298-BS1)								Prepared & Analyzed: 04/06/2018			
1,1,1,2-Tetrachloroethane	9.59		ug/L	10.0		95.9	82-126				
1,1,1-Trichloroethane	10.5		"	10.0		105	78-136				
1,1,2,2-Tetrachloroethane	9.23		"	10.0		92.3	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.6		"	10.0		106	54-165				
1,1,2-Trichloroethane	9.20		"	10.0		92.0	82-123				
1,1-Dichloroethane	10.7		"	10.0		107	82-129				
1,1-Dichloroethylene	10.9		"	10.0		109	68-138				
1,1-Dichloropropylene	10.7		"	10.0		107	83-133				
1,2,3-Trichlorobenzene	8.05		"	10.0		80.5	76-136				
1,2,3-Trichloropropane	9.57		"	10.0		95.7	77-128				
1,2,4-Trichlorobenzene	8.29		"	10.0		82.9	76-137				
1,2,4-Trimethylbenzene	10.2		"	10.0		102	82-132				
1,2-Dibromo-3-chloropropane	7.55		"	10.0		75.5	45-147				
1,2-Dibromoethane	9.21		"	10.0		92.1	83-124				
1,2-Dichlorobenzene	9.66		"	10.0		96.6	79-123				
1,2-Dichloroethane	9.65		"	10.0		96.5	73-132				
1,2-Dichloropropane	10.1		"	10.0		101	78-126				
1,3,5-Trimethylbenzene	10.4		"	10.0		104	80-131				
1,3-Dichlorobenzene	10.4		"	10.0		104	86-122				
1,3-Dichloropropane	9.24		"	10.0		92.4	81-125				
1,4-Dichlorobenzene	9.68		"	10.0		96.8	85-124				
2,2-Dichloropropane	10.6		"	10.0		106	56-150				
2-Chlorotoluene	10.6		"	10.0		106	79-130				
2-Hexanone	8.72		"	10.0		87.2	51-146				
4-Chlorotoluene	10.1		"	10.0		101	79-128				
Acetone	11.4		"	10.0		114	14-150				
Benzene	10.7		"	10.0		107	85-126				
Bromobenzene	9.57		"	10.0		95.7	78-129				
Bromochloromethane	11.1		"	10.0		111	77-128				
Bromodichloromethane	9.34		"	10.0		93.4	79-128				
Bromoform	7.84		"	10.0		78.4	78-133				
Bromomethane	13.8		"	10.0		138	43-168				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD80298 - EPA 5030B											
LCS (BD80298-BS1)								Prepared & Analyzed: 04/06/2018			
Carbon tetrachloride	10.5		ug/L	10.0		105	77-141				
Chlorobenzene	9.82		"	10.0		98.2	88-120				
Chloroethane	14.4		"	10.0		144	65-136	High Bias			
Chloroform	10.4		"	10.0		104	82-128				
Chloromethane	11.4		"	10.0		114	43-155				
cis-1,2-Dichloroethylene	10.7		"	10.0		107	83-129				
cis-1,3-Dichloropropylene	9.08		"	10.0		90.8	80-131				
Dibromochloromethane	9.11		"	10.0		91.1	80-130				
Dibromomethane	9.30		"	10.0		93.0	72-134				
Dichlorodifluoromethane	8.19		"	10.0		81.9	44-144				
Ethyl Benzene	10.5		"	10.0		105	80-131				
Hexachlorobutadiene	7.20		"	10.0		72.0	67-146				
Isopropylbenzene	10.7		"	10.0		107	76-140				
Methyl tert-butyl ether (MTBE)	9.13		"	10.0		91.3	76-135				
Methylene chloride	10.4		"	10.0		104	55-137				
Naphthalene	8.14		"	10.0		81.4	70-147				
n-Butylbenzene	10.3		"	10.0		103	79-132				
n-Propylbenzene	10.9		"	10.0		109	78-133				
o-Xylene	9.95		"	10.0		99.5	78-130				
p- & m- Xylenes	21.7		"	20.0		108	77-133				
p-Isopropyltoluene	10.6		"	10.0		106	81-136				
sec-Butylbenzene	11.0		"	10.0		110	79-137				
Styrene	9.62		"	10.0		96.2	67-132				
tert-Butylbenzene	10.3		"	10.0		103	77-138				
Tetrachloroethylene	9.91		"	10.0		99.1	82-131				
Toluene	10.3		"	10.0		103	80-127				
trans-1,2-Dichloroethylene	10.5		"	10.0		105	80-132				
trans-1,3-Dichloropropylene	8.23		"	10.0		82.3	78-131				
Trichloroethylene	10.2		"	10.0		102	82-128				
Trichlorofluoromethane	15.0		"	10.0		150	67-139	High Bias			
Vinyl Chloride	12.5		"	10.0		125	58-145				
Surrogate: 1,2-Dichloroethane-d4	*9.50*		*"*	*10.0*		*95.0*	*69-130*				
Surrogate: Toluene-d8	*10.2*		*"*	*10.0*		*102*	*81-117*				
Surrogate: p-Bromofluorobenzene	*9.80*		*"*	*10.0*		*98.0*	*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 BD80298 - EPA 5030B											
LCS Dup (BD80298-BSD1)								Prepared & Analyzed: 04/06/2018			
1,1,1,2-Tetrachloroethane	9.32		ug/L	10.0		93.2	82-126		2.86	30	
1,1,1-Trichloroethane	9.80		"	10.0		98.0	78-136		6.80	30	
1,1,2,2-Tetrachloroethane	9.92		"	10.0		99.2	76-129		7.21	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.97		"	10.0		99.7	54-165		6.60	30	
1,1,2-Trichloroethane	9.00		"	10.0		90.0	82-123		2.20	30	
1,1-Dichloroethane	10.1		"	10.0		101	82-129		5.66	30	
1,1-Dichloroethylene	9.94		"	10.0		99.4	68-138		8.85	30	
1,1-Dichloropropylene	9.72		"	10.0		97.2	83-133		9.22	30	
1,2,3-Trichlorobenzene	8.41		"	10.0		84.1	76-136		4.37	30	
1,2,3-Trichloropropane	9.90		"	10.0		99.0	77-128		3.39	30	
1,2,4-Trichlorobenzene	8.51		"	10.0		85.1	76-137		2.62	30	
1,2,4-Trimethylbenzene	9.50		"	10.0		95.0	82-132		6.91	30	
1,2-Dibromo-3-chloropropane	8.54		"	10.0		85.4	45-147		12.3	30	
1,2-Dibromoethane	9.61		"	10.0		96.1	83-124		4.25	30	
1,2-Dichlorobenzene	9.51		"	10.0		95.1	79-123		1.56	30	
1,2-Dichloroethane	10.0		"	10.0		100	73-132		3.96	30	
1,2-Dichloropropane	9.49		"	10.0		94.9	78-126		6.23	30	
1,3,5-Trimethylbenzene	9.57		"	10.0		95.7	80-131		8.02	30	
1,3-Dichlorobenzene	9.74		"	10.0		97.4	86-122		6.55	30	
1,3-Dichloropropane	9.27		"	10.0		92.7	81-125		0.324	30	
1,4-Dichlorobenzene	9.15		"	10.0		91.5	85-124		5.63	30	
2,2-Dichloropropane	9.61		"	10.0		96.1	56-150		9.42	30	
2-Chlorotoluene	9.82		"	10.0		98.2	79-130		7.92	30	
2-Hexanone	9.31		"	10.0		93.1	51-146		6.54	30	
4-Chlorotoluene	9.35		"	10.0		93.5	79-128		8.11	30	
Acetone	9.31		"	10.0		93.1	14-150		20.4	30	
Benzene	10.1		"	10.0		101	85-126		5.77	30	
Bromobenzene	9.12		"	10.0		91.2	78-129		4.82	30	
Bromochloromethane	11.2		"	10.0		112	77-128		0.720	30	
Bromodichloromethane	9.17		"	10.0		91.7	79-128		1.84	30	
Bromoform	8.40		"	10.0		84.0	78-133		6.90	30	
Bromomethane	13.5		"	10.0		135	43-168		1.98	30	
Carbon tetrachloride	9.68		"	10.0		96.8	77-141		8.41	30	
Chlorobenzene	9.25		"	10.0		92.5	88-120		5.98	30	
Chloroethane	13.3		"	10.0		133	65-136		7.51	30	
Chloroform	10.0		"	10.0		100	82-128		3.52	30	
Chloromethane	10.8		"	10.0		108	43-155		5.47	30	
cis-1,2-Dichloroethylene	10.1		"	10.0		101	83-129		5.59	30	
cis-1,3-Dichloropropylene	8.74		"	10.0		87.4	80-131		3.82	30	
Dibromochloromethane	9.14		"	10.0		91.4	80-130		0.329	30	
Dibromomethane	9.38		"	10.0		93.8	72-134		0.857	30	
Dichlorodifluoromethane	7.38		"	10.0		73.8	44-144		10.4	30	
Ethyl Benzene	9.67		"	10.0		96.7	80-131		8.42	30	
Hexachlorobutadiene	7.10		"	10.0		71.0	67-146		1.40	30	
Isopropylbenzene	9.73		"	10.0		97.3	76-140		9.12	30	
Methyl tert-butyl ether (MTBE)	10.1		"	10.0		101	76-135		10.4	30	
Methylene chloride	10.1		"	10.0		101	55-137		3.21	30	
Naphthalene	9.00		"	10.0		90.0	70-147		10.0	30	
n-Butylbenzene	9.60		"	10.0		96.0	79-132		6.94	30	
n-Propylbenzene	9.89		"	10.0		98.9	78-133		9.53	30	
o-Xylene	9.33		"	10.0		93.3	78-130		6.43	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 BD80298 - EPA 5030B											
LCS Dup (BD80298-BSD1)								Prepared & Analyzed: 04/06/2018			
p- & m- Xylenes	20.1		ug/L	20.0		101	77-133		7.51	30	
p-Isopropyltoluene	9.86		"	10.0		98.6	81-136		7.61	30	
sec-Butylbenzene	10.1		"	10.0		101	79-137		8.25	30	
Styrene	9.13		"	10.0		91.3	67-132		5.23	30	
tert-Butylbenzene	9.51		"	10.0		95.1	77-138		8.17	30	
Tetrachloroethylene	8.49		"	10.0		84.9	82-131		15.4	30	
Toluene	9.50		"	10.0		95.0	80-127		8.37	30	
trans-1,2-Dichloroethylene	9.75		"	10.0		97.5	80-132		7.60	30	
trans-1,3-Dichloropropylene	8.32		"	10.0		83.2	78-131		1.09	30	
Trichloroethylene	9.08		"	10.0		90.8	82-128		11.4	30	
Trichlorofluoromethane	14.0		"	10.0		140	67-139	High Bias	6.78	30	
Vinyl Chloride	11.7		"	10.0		117	58-145		7.11	30	
Surrogate: 1,2-Dichloroethane-d4	*10.1*		*"*	*10.0*		*101*	*69-130*				
Surrogate: Toluene-d8	*9.92*		*"*	*10.0*		*99.2*	*81-117*				
Surrogate: p-Bromofluorobenzene	*9.75*		*"*	*10.0*		*97.5*	*79-122*				
Batch BD80365 - EPA 5030B											
Blank (BD80365-BLK1)								Prepared & Analyzed: 04/09/2018			
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,1-Dichloropropylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,3-Dichloropropane	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2,2-Dichloropropane	ND	0.50	"								
2-Chlorotoluene	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Chlorotoluene	ND	0.50	"								
Acetone	ND	2.0	"								
Benzene	ND	0.50	"								
Bromobenzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								

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 BD80365 - EPA 5030B											
Blank (BD80365-BLK1)											
Prepared & Analyzed: 04/09/2018											
Carbon tetrachloride	ND	0.50	ug/L								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylene chloride	ND	2.0	"								
Naphthalene	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: 1,2-Dichloroethane-d4	*10.1*		*"*	*10.0*		*101*	*69-130*				
Surrogate: Toluene-d8	*10.2*		*"*	*10.0*		*102*	*81-117*				
Surrogate: p-Bromofluorobenzene	*10.6*		*"*	*10.0*		*106*	*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 BD80365 - EPA 5030B											
LCS (BD80365-BS1)								Prepared & Analyzed: 04/09/2018			
1,1,1,2-Tetrachloroethane	11.9		ug/L	10.0		119	82-126				
1,1,1-Trichloroethane	12.0		"	10.0		120	78-136				
1,1,2,2-Tetrachloroethane	12.0		"	10.0		120	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.5		"	10.0		105	54-165				
1,1,2-Trichloroethane	11.9		"	10.0		119	82-123				
1,1-Dichloroethane	11.7		"	10.0		117	82-129				
1,1-Dichloroethylene	11.7		"	10.0		117	68-138				
1,1-Dichloropropylene	11.9		"	10.0		119	83-133				
1,2,3-Trichlorobenzene	11.4		"	10.0		114	76-136				
1,2,3-Trichloropropane	11.6		"	10.0		116	77-128				
1,2,4-Trichlorobenzene	10.7		"	10.0		107	76-137				
1,2,4-Trimethylbenzene	11.0		"	10.0		110	82-132				
1,2-Dibromo-3-chloropropane	11.2		"	10.0		112	45-147				
1,2-Dibromoethane	11.6		"	10.0		116	83-124				
1,2-Dichlorobenzene	10.8		"	10.0		108	79-123				
1,2-Dichloroethane	11.9		"	10.0		119	73-132				
1,2-Dichloropropane	11.8		"	10.0		118	78-126				
1,3,5-Trimethylbenzene	11.0		"	10.0		110	80-131				
1,3-Dichlorobenzene	10.8		"	10.0		108	86-122				
1,3-Dichloropropane	12.1		"	10.0		121	81-125				
1,4-Dichlorobenzene	10.7		"	10.0		107	85-124				
2,2-Dichloropropane	12.5		"	10.0		125	56-150				
2-Chlorotoluene	11.8		"	10.0		118	79-130				
2-Hexanone	11.5		"	10.0		115	51-146				
4-Chlorotoluene	11.7		"	10.0		117	79-128				
Acetone	9.40		"	10.0		94.0	14-150				
Benzene	12.2		"	10.0		122	85-126				
Bromobenzene	11.6		"	10.0		116	78-129				
Bromochloromethane	11.0		"	10.0		110	77-128				
Bromodichloromethane	12.1		"	10.0		121	79-128				
Bromoform	10.5		"	10.0		105	78-133				
Bromomethane	12.0		"	10.0		120	43-168				
Carbon tetrachloride	11.5		"	10.0		115	77-141				
Chlorobenzene	12.1		"	10.0		121	88-120	High Bias			
Chloroethane	12.0		"	10.0		120	65-136				
Chloroform	12.1		"	10.0		121	82-128				
Chloromethane	13.4		"	10.0		134	43-155				
cis-1,2-Dichloroethylene	11.6		"	10.0		116	83-129				
cis-1,3-Dichloropropylene	11.8		"	10.0		118	80-131				
Dibromochloromethane	11.5		"	10.0		115	80-130				
Dibromomethane	12.0		"	10.0		120	72-134				
Dichlorodifluoromethane	14.8		"	10.0		148	44-144	High Bias			
Ethyl Benzene	12.5		"	10.0		125	80-131				
Hexachlorobutadiene	9.82		"	10.0		98.2	67-146				
Isopropylbenzene	10.9		"	10.0		109	76-140				
Methyl tert-butyl ether (MTBE)	13.3		"	10.0		133	76-135				
Methylene chloride	10.3		"	10.0		103	55-137				
Naphthalene	11.9		"	10.0		119	70-147				
n-Butylbenzene	11.8		"	10.0		118	79-132				
n-Propylbenzene	11.8		"	10.0		118	78-133				
o-Xylene	12.5		"	10.0		125	78-130				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD80365 - EPA 5030B											
LCS (BD80365-BS1)							Prepared & Analyzed: 04/09/2018				
p- & m- Xylenes	25.2		ug/L	20.0		126	77-133				
p-Isopropyltoluene	11.0		"	10.0		110	81-136				
sec-Butylbenzene	11.4		"	10.0		114	79-137				
Styrene	11.4		"	10.0		114	67-132				
tert-Butylbenzene	10.8		"	10.0		108	77-138				
Tetrachloroethylene	9.37		"	10.0		93.7	82-131				
Toluene	12.2		"	10.0		122	80-127				
trans-1,2-Dichloroethylene	11.5		"	10.0		115	80-132				
trans-1,3-Dichloropropylene	11.7		"	10.0		117	78-131				
Trichloroethylene	11.9		"	10.0		119	82-128				
Trichlorofluoromethane	11.8		"	10.0		118	67-139				
Vinyl Chloride	12.5		"	10.0		125	58-145				
Surrogate: 1,2-Dichloroethane-d4	*9.90*		*"*	*10.0*		*99.0*	*69-130*				
Surrogate: Toluene-d8	*10.2*		*"*	*10.0*		*102*	*81-117*				
Surrogate: p-Bromofluorobenzene	*10.4*		*"*	*10.0*		*104*	*79-122*				
LCS Dup (BD80365-BSD1)							Prepared & Analyzed: 04/09/2018				
1,1,1,2-Tetrachloroethane	10.7		ug/L	10.0		107	82-126		11.0	30	
1,1,1-Trichloroethane	10.7		"	10.0		107	78-136		11.6	30	
1,1,2,2-Tetrachloroethane	10.8		"	10.0		108	76-129		11.2	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.2		"	10.0		102	54-165		3.00	30	
1,1,2-Trichloroethane	10.7		"	10.0		107	82-123		11.3	30	
1,1-Dichloroethane	10.6		"	10.0		106	82-129		10.0	30	
1,1-Dichloroethylene	10.6		"	10.0		106	68-138		9.94	30	
1,1-Dichloropropylene	10.8		"	10.0		108	83-133		10.0	30	
1,2,3-Trichlorobenzene	9.15		"	10.0		91.5	76-136		22.2	30	
1,2,3-Trichloropropane	10.4		"	10.0		104	77-128		11.0	30	
1,2,4-Trichlorobenzene	9.13		"	10.0		91.3	76-137		15.9	30	
1,2,4-Trimethylbenzene	10.1		"	10.0		101	82-132		8.92	30	
1,2-Dibromo-3-chloropropane	9.70		"	10.0		97.0	45-147		13.9	30	
1,2-Dibromoethane	10.3		"	10.0		103	83-124		12.3	30	
1,2-Dichlorobenzene	9.91		"	10.0		99.1	79-123		8.69	30	
1,2-Dichloroethane	10.7		"	10.0		107	73-132		10.9	30	
1,2-Dichloropropane	10.8		"	10.0		108	78-126		9.13	30	
1,3,5-Trimethylbenzene	10.0		"	10.0		100	80-131		8.94	30	
1,3-Dichlorobenzene	9.91		"	10.0		99.1	86-122		8.13	30	
1,3-Dichloropropane	11.0		"	10.0		110	81-125		9.85	30	
1,4-Dichlorobenzene	9.63		"	10.0		96.3	85-124		10.5	30	
2,2-Dichloropropane	11.6		"	10.0		116	56-150		6.80	30	
2-Chlorotoluene	10.7		"	10.0		107	79-130		8.98	30	
2-Hexanone	9.81		"	10.0		98.1	51-146		15.8	30	
4-Chlorotoluene	10.6		"	10.0		106	79-128		9.42	30	
Acetone	8.28		"	10.0		82.8	14-150		12.7	30	
Benzene	11.1		"	10.0		111	85-126		9.69	30	
Bromobenzene	10.4		"	10.0		104	78-129		10.5	30	
Bromochloromethane	9.81		"	10.0		98.1	77-128		11.2	30	
Bromodichloromethane	11.1		"	10.0		111	79-128		9.06	30	
Bromoform	9.21		"	10.0		92.1	78-133		13.5	30	
Bromomethane	13.0		"	10.0		130	43-168		7.81	30	
Carbon tetrachloride	10.2		"	10.0		102	77-141		11.7	30	
Chlorobenzene	10.8		"	10.0		108	88-120		11.2	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 BD80365 - EPA 5030B											
LCS Dup (BD80365-BSD1)								Prepared & Analyzed: 04/09/2018			
Chloroethane	11.1		ug/L	10.0		111	65-136		7.53	30	
Chloroform	10.8		"	10.0		108	82-128		10.7	30	
Chloromethane	12.2		"	10.0		122	43-155		8.92	30	
cis-1,2-Dichloroethylene	10.6		"	10.0		106	83-129		8.99	30	
cis-1,3-Dichloropropylene	10.6		"	10.0		106	80-131		10.9	30	
Dibromochloromethane	10.1		"	10.0		101	80-130		12.2	30	
Dibromomethane	10.8		"	10.0		108	72-134		11.0	30	
Dichlorodifluoromethane	13.8		"	10.0		138	44-144		7.09	30	
Ethyl Benzene	11.3		"	10.0		113	80-131		10.3	30	
Hexachlorobutadiene	8.45		"	10.0		84.5	67-146		15.0	30	
Isopropylbenzene	9.87		"	10.0		98.7	76-140		10.0	30	
Methyl tert-butyl ether (MTBE)	11.9		"	10.0		119	76-135		11.1	30	
Methylene chloride	9.24		"	10.0		92.4	55-137		10.8	30	
Naphthalene	9.51		"	10.0		95.1	70-147		22.2	30	
n-Butylbenzene	10.8		"	10.0		108	79-132		9.38	30	
n-Propylbenzene	10.7		"	10.0		107	78-133		9.83	30	
o-Xylene	11.3		"	10.0		113	78-130		9.97	30	
p- & m- Xylenes	22.8		"	20.0		114	77-133		9.92	30	
p-Isopropyltoluene	10.1		"	10.0		101	81-136		8.41	30	
sec-Butylbenzene	10.4		"	10.0		104	79-137		9.06	30	
Styrene	10.4		"	10.0		104	67-132		8.97	30	
tert-Butylbenzene	9.78		"	10.0		97.8	77-138		9.64	30	
Tetrachloroethylene	8.61		"	10.0		86.1	82-131		8.45	30	
Toluene	11.1		"	10.0		111	80-127		9.28	30	
trans-1,2-Dichloroethylene	10.4		"	10.0		104	80-132		10.0	30	
trans-1,3-Dichloropropylene	10.6		"	10.0		106	78-131		9.95	30	
Trichloroethylene	10.8		"	10.0		108	82-128		9.44	30	
Trichlorofluoromethane	11.1		"	10.0		111	67-139		6.30	30	
Vinyl Chloride	11.3		"	10.0		113	58-145		10.1	30	
Surrogate: 1,2-Dichloroethane-d4	*9.65*		*"*	*10.0*		*96.5*	*69-130*				
Surrogate: Toluene-d8	*10.3*		*"*	*10.0*		*103*	*81-117*				
Surrogate: p-Bromofluorobenzene	*10.2*		*"*	*10.0*		*102*	*79-122*				

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
18D0127-01	WQ040218:1300 FRW-1	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18D0127-02	WQ040218:1305 FRW-2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18D0127-03	WQ040218:1310 FRW-3	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18D0127-04	WQ040218:1315 FRW-4	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18D0127-05	WQ040218:1330 NP1-1-2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

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

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
120 RESEARCH DR.
STRATFORD, CT 06615
(203) 325-1371
FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

York Project No. 18D0127

YOUR Information	Report to:	Invoice To:	Your Project ID	Turn-Around Time	Report/Deliverable Type
Company: WSP [redacted]	SAME [X]	SAME [X]	Rowe Industries	RUSH-Same Day	Summary Report: X, PDF
Address: 4 Research Drive	Name:	Name:		RUSH-Next Day	QA Report: X, PDF
Suite 301, Shelton CT 06484	Company:	Company:	Purchase Order #	RUSH-Two Day	CT RCP
Phone.: 203.929.8555	Address:	Address:	NABSAG	RUSH-Three Day	CT RCP DQA/DUE Pkg
Contact: Tunde Sandor				RUSH-Four Day	NY ASP A Package
E-mail: [redacted]	E-mail: tunde.sandor@wsp.com	E-mail	Samples from CT__NY x_NJ__	Standard (5-7day) X	NY ASP B Package: X, PDF
					NJDEP Reduced Deliv

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

Samples Collected/Authorized By (Signature)

Evan Foster
Name (printed)

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

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL-Met/CN
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part360-Routine
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part360-Baseline
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part360-Expanded No Dioxins/Furans
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part360-Expanded Full List
Halog.only	NJDEP list	App. IX	Chlordane	Indiv.Metals	Air TICs	NYCDEP Sewer
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM

Report/Deliverable Type	
Excel	X
NYSDEC EQuIS	
NJDEP SRP HazSite	
EQuIS	
GIS/KEY (std)	

YORK Regulatory Comp Excel *compared to:*

OTHER:

Sample Identification	Date+Time Sampled	Matrix	Analysis Requested (List above includes common analysis)	Container Description
W20402 18: 1300 FRW-1	4-2-18	GW	VOC 8260 full list (EPA SW846-8260B) plus freon 113	3 voas
:1305 FRW-2				
:1310 FRW-3				
:1315 FRW-4				
:1330 MPI-1-2				

Comments:

(RW/FRW)

Preservation (check all applicable): 4°C ___ Frozen ___ HCl ✓ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other ___

Special Instructions
Field Filtered ☐
Lab to Filter ☐

				Temperature on Receipt
Samples Relinquished By	Date/Time	Samples Received By	Date/Time	1-9 °C
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time	
		Reece	4-4-18 1519	

Rec'd 4/4/18 1330

APPENDIX III

APRIL 2018 LABORATORY ANALYTICAL REPORTS

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: 04/11/2018
Client Project ID: Rowe Industries
York Project (SDG) No.: 18D0129

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: 04/11/2018
Client Project ID: Rowe Industries
York Project (SDG) No.: 18D0129

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 April 04, 2018 and listed below. The project was identified as your project: **Rowe Industries**.

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

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the 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.

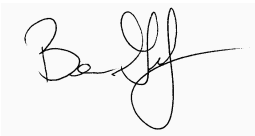
The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

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
18D0129-01	AQ040218:1405 NP4-1	Vapor Extraction	04/02/2018	04/04/2018
18D0129-02	AQ040218:1400 NP4-3	Vapor Extraction	04/02/2018	04/04/2018

General Notes for York Project (SDG) No.: 18D0129

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: 04/11/2018

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: **AQ040218:1405 NP4-1** **York Sample ID:** **18D0129-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18D0129	Rowe Industries	Vapor Extraction	April 2, 2018 2:05 pm	04/04/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

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	IS-LO	ug/m³	1.1	1.558	EPA TO-15 Certifications:	04/06/2018 09:50	04/06/2018 23:13	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.85	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND	IS-LO	ug/m³	1.1	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.2	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.85	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.63	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.15	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
120-82-1	1,2,4-Trichlorobenzene	ND	IS-LO	ug/m³	1.2	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
95-63-6	**1,2,4-Trimethylbenzene**	**1.1**	IS-LO	ug/m³	0.77	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.2	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
95-50-1	1,2-Dichlorobenzene	ND	IS-LO	ug/m³	0.94	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.63	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.72	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.1	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
108-67-8	1,3,5-Trimethylbenzene	ND	IS-LO	ug/m³	0.77	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
106-99-0	1,3-Butadiene	ND		ug/m³	1.0	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
541-73-1	1,3-Dichlorobenzene	ND	IS-LO	ug/m³	0.94	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.72	1.558	EPA TO-15 Certifications:	04/06/2018 09:50	04/06/2018 23:13	LDS
106-46-7	1,4-Dichlorobenzene	ND	IS-LO	ug/m³	0.94	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
123-91-1	1,4-Dioxane	ND		ug/m³	1.1	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
78-93-3	2-Butanone	ND		ug/m³	0.46	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
591-78-6	* 2-Hexanone	ND		ug/m³	1.3	1.558	EPA TO-15 Certifications:	04/06/2018 09:50	04/06/2018 23:13	LDS

Sample Information

Client Sample ID: AQ040218:1405 NP4-1 **York Sample ID:** 18D0129-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18D0129	Rowe Industries	Vapor Extraction	April 2, 2018 2:05 pm	04/04/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

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	2.4	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.64	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
67-64-1	**Acetone**	**2.0**		ug/m³	0.74	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
107-13-1	Acrylonitrile	ND		ug/m³	0.34	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
71-43-2	Benzene	ND		ug/m³	0.50	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
100-44-7	Benzyl chloride	ND	IS-LO	ug/m³	0.81	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
75-27-4	Bromodichloromethane	ND		ug/m³	1.0	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
75-25-2	Bromoform	ND	IS-LO	ug/m³	1.6	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
74-83-9	Bromomethane	ND		ug/m³	0.60	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
75-15-0	Carbon disulfide	ND		ug/m³	0.49	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
56-23-5	**Carbon tetrachloride**	**0.49**		ug/m³	0.25	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
108-90-7	Chlorobenzene	ND	IS-LO	ug/m³	0.72	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
75-00-3	Chloroethane	ND		ug/m³	0.41	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
67-66-3	Chloroform	ND		ug/m³	0.76	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
74-87-3	**Chloromethane**	**0.93**		ug/m³	0.32	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
156-59-2	**cis-1,2-Dichloroethylene**	**0.19**		ug/m³	0.15	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.71	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
110-82-7	Cyclohexane	ND		ug/m³	0.54	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
124-48-1	Dibromochloromethane	ND		ug/m³	1.3	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
75-71-8	**Dichlorodifluoromethane**	**1.7**		ug/m³	0.77	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
141-78-6	* Ethyl acetate	ND		ug/m³	1.1	1.558	EPA TO-15 Certifications:	04/06/2018 09:50	04/06/2018 23:13	LDS
100-41-4	Ethyl Benzene	ND	IS-LO	ug/m³	0.68	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
87-68-3	Hexachlorobutadiene	ND	IS-LO	ug/m³	1.7	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS

Sample Information

Client Sample ID: AQ040218:1405 NP4-1 **York Sample ID:** 18D0129-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18D0129	Rowe Industries	Vapor Extraction	April 2, 2018 2:05 pm	04/04/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

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	ND		ug/m³	0.77	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
80-62-6	Methyl Methacrylate	ND		ug/m³	0.64	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.56	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
75-09-2	Methylene chloride	ND		ug/m³	1.1	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
142-82-5	n-Heptane	ND		ug/m³	0.64	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
110-54-3	n-Hexane	ND		ug/m³	0.55	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
95-47-6	o-Xylene	ND	IS-LO	ug/m³	0.68	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
179601-23-1	p- & m- Xylenes	ND	IS-LO	ug/m³	1.4	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
622-96-8	* p-Ethyltoluene	ND	IS-LO	ug/m³	0.77	1.558	EPA TO-15 Certifications:	04/06/2018 09:50	04/06/2018 23:13	LDS
115-07-1	* Propylene	ND		ug/m³	0.27	1.558	EPA TO-15 Certifications:	04/06/2018 09:50	04/06/2018 23:13	LDS
100-42-5	Styrene	ND	IS-LO	ug/m³	0.66	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
127-18-4	**Tetrachloroethylene**	**11**		ug/m³	0.26	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.92	1.558	EPA TO-15 Certifications:	04/06/2018 09:50	04/06/2018 23:13	LDS
108-88-3	**Toluene**	**0.65**		ug/m³	0.59	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.62	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.71	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
79-01-6	**Trichloroethylene**	**0.33**		ug/m³	0.21	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.1**		ug/m³	0.88	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
108-05-4	Vinyl acetate	ND		ug/m³	0.55	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
593-60-2	Vinyl bromide	ND		ug/m³	0.68	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS
75-01-4	Vinyl Chloride	ND		ug/m³	0.10	1.558	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/06/2018 23:13	LDS

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: p-Bromofluorobenzene*	*128 %*	*70-130*

Sample Information

Client Sample ID: AQ040218:1400 NP4-3 **York Sample ID:** 18D0129-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18D0129	Rowe Industries	Vapor Extraction	April 2, 2018 2:00 pm	04/04/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

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	1.1	1.564	EPA TO-15 Certifications:	04/06/2018 09:50	04/07/2018 00:17	LDS
71-55-6	**1,1,1-Trichloroethane**	**0.94**		ug/m³	0.85	1.564	EPA TO-15 Certifications:	04/06/2018 09:50 NELAC-NY12058,NJDEP-Queens	04/07/2018 00:17	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	1.1	1.564	EPA TO-15 Certifications:	04/06/2018 09:50 NELAC-NY12058,NJDEP-Queens	04/07/2018 00:17	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.2	1.564	EPA TO-15 Certifications:	04/06/2018 09:50 NELAC-NY12058,NJDEP-Queens	04/07/2018 00:17	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.85	1.564	EPA TO-15 Certifications:	04/06/2018 09:50 NELAC-NY12058,NJDEP-Queens	04/07/2018 00:17	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.63	1.564	EPA TO-15 Certifications:	04/06/2018 09:50 NELAC-NY12058,NJDEP-Queens	04/07/2018 00:17	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.16	1.564	EPA TO-15 Certifications:	04/06/2018 09:50 NELAC-NY12058,NJDEP-Queens	04/07/2018 00:17	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	1.2	1.564	EPA TO-15 Certifications:	04/06/2018 09:50 NELAC-NY12058,NJDEP-Queens	04/07/2018 00:17	LDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.77	1.564	EPA TO-15 Certifications:	04/06/2018 09:50 NELAC-NY12058,NJDEP-Queens	04/07/2018 00:17	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.2	1.564	EPA TO-15 Certifications:	04/06/2018 09:50 NELAC-NY12058,NJDEP-Queens	04/07/2018 00:17	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.94	1.564	EPA TO-15 Certifications:	04/06/2018 09:50 NELAC-NY12058,NJDEP-Queens	04/07/2018 00:17	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.63	1.564	EPA TO-15 Certifications:	04/06/2018 09:50 NELAC-NY12058,NJDEP-Queens	04/07/2018 00:17	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.72	1.564	EPA TO-15 Certifications:	04/06/2018 09:50 NELAC-NY12058,NJDEP-Queens	04/07/2018 00:17	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.1	1.564	EPA TO-15 Certifications:	04/06/2018 09:50 NELAC-NY12058,NJDEP-Queens	04/07/2018 00:17	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.77	1.564	EPA TO-15 Certifications:	04/06/2018 09:50 NELAC-NY12058,NJDEP-Queens	04/07/2018 00:17	LDS
106-99-0	1,3-Butadiene	ND		ug/m³	1.0	1.564	EPA TO-15 Certifications:	04/06/2018 09:50 NELAC-NY12058,NJDEP-Queens	04/07/2018 00:17	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.94	1.564	EPA TO-15 Certifications:	04/06/2018 09:50 NELAC-NY12058,NJDEP-Queens	04/07/2018 00:17	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.72	1.564	EPA TO-15 Certifications:	04/06/2018 09:50	04/07/2018 00:17	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.94	1.564	EPA TO-15 Certifications:	04/06/2018 09:50 NELAC-NY12058,NJDEP-Queens	04/07/2018 00:17	LDS
123-91-1	1,4-Dioxane	ND		ug/m³	1.1	1.564	EPA TO-15 Certifications:	04/06/2018 09:50 NELAC-NY12058,NJDEP-Queens	04/07/2018 00:17	LDS
78-93-3	2-Butanone	ND		ug/m³	0.46	1.564	EPA TO-15 Certifications:	04/06/2018 09:50 NELAC-NY12058,NJDEP-Queens	04/07/2018 00:17	LDS
591-78-6	* 2-Hexanone	ND		ug/m³	1.3	1.564	EPA TO-15 Certifications:	04/06/2018 09:50	04/07/2018 00:17	LDS
107-05-1	3-Chloropropene	ND		ug/m³	2.4	1.564	EPA TO-15 Certifications:	04/06/2018 09:50 NELAC-NY12058,NJDEP-Queens	04/07/2018 00:17	LDS

Sample Information

Client Sample ID: AQ040218:1400 NP4-3 **York Sample ID:** 18D0129-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18D0129	Rowe Industries	Vapor Extraction	April 2, 2018 2:00 pm	04/04/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

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
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.64	1.564	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/07/2018 00:17	LDS
67-64-1	Acetone	ND		ug/m³	0.74	1.564	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/07/2018 00:17	LDS
107-13-1	Acrylonitrile	ND		ug/m³	0.34	1.564	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/07/2018 00:17	LDS
71-43-2	Benzene	ND		ug/m³	0.50	1.564	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/07/2018 00:17	LDS
100-44-7	Benzyl chloride	ND		ug/m³	0.81	1.564	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/07/2018 00:17	LDS
75-27-4	Bromodichloromethane	ND		ug/m³	1.0	1.564	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/07/2018 00:17	LDS
75-25-2	Bromoform	ND		ug/m³	1.6	1.564	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/07/2018 00:17	LDS
74-83-9	Bromomethane	ND		ug/m³	0.61	1.564	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/07/2018 00:17	LDS
75-15-0	Carbon disulfide	ND		ug/m³	0.49	1.564	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/07/2018 00:17	LDS
56-23-5	**Carbon tetrachloride**	**0.49**		ug/m³	0.25	1.564	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/07/2018 00:17	LDS
108-90-7	Chlorobenzene	ND		ug/m³	0.72	1.564	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/07/2018 00:17	LDS
75-00-3	Chloroethane	ND		ug/m³	0.41	1.564	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/07/2018 00:17	LDS
67-66-3	Chloroform	ND		ug/m³	0.76	1.564	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/07/2018 00:17	LDS
74-87-3	**Chloromethane**	**1.1**		ug/m³	0.32	1.564	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/07/2018 00:17	LDS
156-59-2	**cis-1,2-Dichloroethylene**	**2.7**		ug/m³	0.16	1.564	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/07/2018 00:17	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.71	1.564	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/07/2018 00:17	LDS
110-82-7	Cyclohexane	ND		ug/m³	0.54	1.564	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/07/2018 00:17	LDS
124-48-1	Dibromochloromethane	ND		ug/m³	1.3	1.564	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/07/2018 00:17	LDS
75-71-8	**Dichlorodifluoromethane**	**1.8**		ug/m³	0.77	1.564	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/07/2018 00:17	LDS
141-78-6	* Ethyl acetate	ND		ug/m³	1.1	1.564	EPA TO-15 Certifications:	04/06/2018 09:50	04/07/2018 00:17	LDS
100-41-4	Ethyl Benzene	ND		ug/m³	0.68	1.564	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/07/2018 00:17	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.7	1.564	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/07/2018 00:17	LDS
67-63-0	Isopropanol	ND		ug/m³	0.77	1.564	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/07/2018 00:17	LDS

Sample Information

Client Sample ID: AQ040218:1400 NP4-3 **York Sample ID:** 18D0129-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18D0129	Rowe Industries	Vapor Extraction	April 2, 2018 2:00 pm	04/04/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

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
80-62-6	Methyl Methacrylate	ND		ug/m³	0.64	1.564	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/07/2018 00:17	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.56	1.564	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/07/2018 00:17	LDS
75-09-2	Methylene chloride	ND		ug/m³	1.1	1.564	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/07/2018 00:17	LDS
142-82-5	n-Heptane	ND		ug/m³	0.64	1.564	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/07/2018 00:17	LDS
110-54-3	n-Hexane	ND		ug/m³	0.55	1.564	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/07/2018 00:17	LDS
95-47-6	o-Xylene	ND		ug/m³	0.68	1.564	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/07/2018 00:17	LDS
179601-23-1	p- & m- Xylenes	ND		ug/m³	1.4	1.564	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/07/2018 00:17	LDS
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.77	1.564	EPA TO-15 Certifications:	04/06/2018 09:50	04/07/2018 00:17	LDS
115-07-1	* Propylene	ND		ug/m³	0.27	1.564	EPA TO-15 Certifications:	04/06/2018 09:50	04/07/2018 00:17	LDS
100-42-5	Styrene	ND		ug/m³	0.67	1.564	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/07/2018 00:17	LDS
127-18-4	**Tetrachloroethylene**	**1.5**		ug/m³	0.27	1.564	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/07/2018 00:17	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.92	1.564	EPA TO-15 Certifications:	04/06/2018 09:50	04/07/2018 00:17	LDS
108-88-3	Toluene	ND		ug/m³	0.59	1.564	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/07/2018 00:17	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.62	1.564	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/07/2018 00:17	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.71	1.564	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/07/2018 00:17	LDS
79-01-6	Trichloroethylene	ND		ug/m³	0.21	1.564	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/07/2018 00:17	LDS
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.1**		ug/m³	0.88	1.564	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/07/2018 00:17	LDS
108-05-4	Vinyl acetate	ND		ug/m³	0.55	1.564	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/07/2018 00:17	LDS
593-60-2	Vinyl bromide	ND		ug/m³	0.68	1.564	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/07/2018 00:17	LDS
75-01-4	Vinyl Chloride	ND		ug/m³	0.10	1.564	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	04/06/2018 09:50	04/07/2018 00:17	LDS

	Surrogate Recoveries	Result		Acceptance Range
460-00-4	*Surrogate: p-Bromofluorobenzene*	*135 %*	S-08	*70-130*

Analytical Batch Summary

Batch ID: BD80315 **Preparation Method:** EPA TO15 PREP **Prepared By:** LDS

YORK Sample ID	Client Sample ID	Preparation Date
18D0129-01	AQ040218:1405 NP4-1	04/06/18
18D0129-02	AQ040218:1400 NP4-3	04/06/18
BD80315-BLK1	Blank	04/06/18
BD80315-BS1	LCS	04/06/18

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 BD80315 - EPA TO15 PREP											
Blank (BD80315-BLK1)											
Prepared & Analyzed: 04/06/2018											
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 BD80315 - EPA TO15 PREP											
Blank (BD80315-BLK1)								Prepared & Analyzed: 04/06/2018			
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	0.17	"								
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	0.064	"								
Surrogate: p-Bromofluorobenzene	*9.60*		*ppbv*	*10.0*		*96.0*	*70-130*				
LCS (BD80315-BS1)								Prepared & Analyzed: 04/06/2018			
1,1,1,2-Tetrachloroethane	11.7		ppbv	10.0		117	70-130				
1,1,1-Trichloroethane	10.3		"	10.0		103	70-130				
1,1,2,2-Tetrachloroethane	11.2		"	10.0		112	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.7		"	10.0		107	70-130				
1,1,2-Trichloroethane	11.4		"	10.0		114	70-130				
1,1-Dichloroethane	10.4		"	10.0		104	70-130				
1,1-Dichloroethylene	10.2		"	10.0		102	70-130				
1,2,4-Trichlorobenzene	13.1		"	10.0		131	70-130	High Bias			
1,2,4-Trimethylbenzene	12.0		"	10.0		120	70-130				
1,2-Dibromoethane	11.4		"	10.0		114	70-130				
1,2-Dichlorobenzene	11.7		"	10.0		117	70-130				
1,2-Dichloroethane	9.63		"	10.0		96.3	70-130				
1,2-Dichloropropane	11.6		"	10.0		116	70-130				
1,2-Dichlorotetrafluoroethane	12.0		"	10.0		120	70-130				
1,3,5-Trimethylbenzene	11.6		"	10.0		116	70-130				
1,3-Butadiene	11.8		"	10.0		118	70-130				
1,3-Dichlorobenzene	11.9		"	10.0		119	70-130				
1,3-Dichloropropane	11.1		"	10.0		111	70-130				
1,4-Dichlorobenzene	12.2		"	10.0		122	70-130				
1,4-Dioxane	15.4		"	10.0		154	70-130	High Bias			
2-Butanone	8.54		"	10.0		85.4	70-130				
2-Hexanone	12.6		"	10.0		126	70-130				
3-Chloropropene	11.0		"	10.0		110	70-130				
4-Methyl-2-pentanone	10.7		"	10.0		107	70-130				
Acetone	7.79		"	10.0		77.9	70-130				
Acrylonitrile	9.63		"	10.0		96.3	70-130				
Benzene	10.3		"	10.0		103	70-130				
Benzyl chloride	10.0		"	10.0		100	70-130				
Bromodichloromethane	11.3		"	10.0		113	70-130				
Bromoform	12.5		"	10.0		125	70-130				
Bromomethane	11.4		"	10.0		114	70-130				
Carbon disulfide	10.9		"	10.0		109	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 BD80315 - EPA TO15 PREP											
LCS (BD80315-BS1)								Prepared & Analyzed: 04/06/2018			
Carbon tetrachloride	10.3		ppbv	10.0		103	70-130				
Chlorobenzene	11.4		"	10.0		114	70-130				
Chloroethane	11.3		"	10.0		113	70-130				
Chloroform	10.3		"	10.0		103	70-130				
Chloromethane	11.2		"	10.0		112	70-130				
cis-1,2-Dichloroethylene	8.96		"	10.0		89.6	70-130				
cis-1,3-Dichloropropylene	12.3		"	10.0		123	70-130				
Cyclohexane	11.0		"	10.0		110	70-130				
Dibromochloromethane	12.7		"	10.0		127	70-130				
Dichlorodifluoromethane	10.6		"	10.0		106	70-130				
Ethyl acetate	9.79		"	10.0		97.9	70-130				
Ethyl Benzene	11.2		"	10.0		112	70-130				
Hexachlorobutadiene	10.7		"	10.0		107	70-130				
Isopropanol	7.65		"	10.0		76.5	70-130				
Methyl Methacrylate	12.0		"	10.0		120	70-130				
Methyl tert-butyl ether (MTBE)	8.81		"	10.0		88.1	70-130				
Methylene chloride	9.14		"	10.0		91.4	70-130				
n-Heptane	10.7		"	10.0		107	70-130				
n-Hexane	11.1		"	10.0		111	70-130				
o-Xylene	11.8		"	10.0		118	70-130				
p- & m- Xylenes	22.2		"	20.0		111	70-130				
p-Ethyltoluene	12.4		"	10.0		124	70-130				
Propylene	10.5		"	10.0		105	70-130				
Styrene	11.7		"	10.0		117	70-130				
Tetrachloroethylene	10.2		"	10.0		102	70-130				
Tetrahydrofuran	8.99		"	10.0		89.9	70-130				
Toluene	11.6		"	10.0		116	70-130				
trans-1,2-Dichloroethylene	10.5		"	10.0		105	70-130				
trans-1,3-Dichloropropylene	12.2		"	10.0		122	70-130				
Trichloroethylene	11.4		"	10.0		114	70-130				
Trichlorofluoromethane (Freon 11)	10.4		"	10.0		104	70-130				
Vinyl acetate	9.99		"	10.0		99.9	70-130				
Vinyl bromide	11.8		"	10.0		118	70-130				
Vinyl Chloride	11.6		"	10.0		116	70-130				
Surrogate: p-Bromofluorobenzene	*9.48*		*"*	*10.0*		*94.8*	*70-130*				

Sample and Data Qualifiers Relating to This Work Order

S-08	The recovery of this surrogate was outside of QC limits.
QL-03	This LCS analyte recovered outside of acceptance limits. The LCS contains approximately 70 compounds, a limited number of which may be outside acceptance windows.
IS-LO	The internal std associated with this target compound did not meet acceptance criteria (area <50% CCV) at the stated dilution due to matrix effects. Sample was rerun to confirm matrix effects.
CCV-A	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>30% Difference for average Rf). This applies to dectected analytes only.

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 DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record - AIR

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 18D0129

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type/Deliverables
Company: WSP	Company: Same	Company: Same	Rowe Industries	RUSH - Same Day ☐	Summary Report X, pdf
Address: 4 Research Dr, Suite 301 Shelton, CT 06484	Address:	Address:	Purchase Order No. NABSAG	RUSH - Next Day ☐	Summary w/ QA Summary X, pdf
Phone No. 203-929-8555	Phone No.	Phone No.		RUSH - Two Day ☐	CT RCP Package
Contact Person: Tunde Sandor	Attention: tund.sandor@wsp.com	Attention:	Samples from: CT ___ NY X NJ ___	RUSH - Three Day ☐	NY ASP A Package
E-Mail Address: [redacted]	E-Mail Address:	E-Mail Address:		RUSH - Four Day ☐	NY ASP B/CLP Pkg X, pdf
				Standard(5-7 Days) ☒	NJDEP Reduced
					Electronic Deliverables:
					EDD (Specify Type)
					Standard Excel X
					Regulatory Comparison Excel

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

Samples Collected/Authorized By (Signature)

Evan Foster
Name (printed)

Air Matrix Codes

AI -	INDOOR Ambient Air
AO-	OUTDOOR Amb. Air
AE-	Vapor Extraction Well/ Process Gas/Effluent
AS-	SOIL Vapor/Sub-Slab

TO15 Volatiles and Other Gas Analyses

EPA TO-15 List	EPA TO-14A List
NYSDEC VI list	Tentatively Identified Compounds
NYSDEC STARS List	Air VPH
Project Specific List by TO-15	Helium
NJDEP Target List	Methane
CTDEP RCP Target List	OTHER

Detection Limits Required

- ≤ 1 ug/m³
- NYSDEC VI Limits (VI = vapor intrusion)
- NJDEP low level
- Routine Survey
- Other

Special Instructions

Sample Identification	Date Sampled	AIR Matrix	Canister Vacuum Before Sampling (in. Hg)	Canister Vacuum After Sampling (in. Hg)	Choose Analyses Needed from the Menu Above and Enter Below	Sampling Media
AQ040218:1405 NP4-1	4-2-18	AE	-30	-5	EPA TO-15 List.	6 Liter Summa canister ✓ / Tedlar Bag
AQ040218:1400 NP4-3	↓	AE	-30	-5	↓	6 Liter Summa canister ✓ / Tedlar Bag
						6 Liter Summa canister / Tedlar Bag
						6 Liter Summa canister / Tedlar Bag
						6 Liter Summa canister / Tedlar Bag
						6 Liter Summa canister / Tedlar Bag
						6 Liter Summa canister / Tedlar Bag
						6 Liter Summa canister / Tedlar Bag
						6 Liter Summa canister / Tedlar Bag
						6 Liter Summa canister / Tedlar Bag

Comments

Samples Relinquished By	Date/Time 4/3/18 8:00	Samples Received By WSP Fridge	Date/Time 4/3/18 8:00
Samples Relinquished By	Date/Time	Samples Received in LAB by Grace 4-4-18	Date/Time 1519 @ 1.8

Rec'd 1st 4/4/18 13:50

APPENDIX IV

APRIL 18, 2018 INCIDENT/ACCIDENT INVESTIGATION REPORT

INCIDENT/ACCIDENT INVESTIGATION REPORT

SECTION 1	GENERAL INFORMATION	
Office Shelton	**Business Unit** Water & Environment	**Business Unit Manager** Steven Paquette
Project Name Former Rowe Industries Superfund Site		**Project number** 771988.NABSAG.00
Exact location of event Paved parking lot next to RW-2.	**Address** 1668 Bridgehampton/Sag Harbor Turnpike, Sag Harbor, NY	
Date of event 4/18/18	**Time** ~10:55 AM AM/PM	**Reported by** Tunde Komuves-Sandor
Type of event ☐ Accident ☑ Incident		
Witnesses: If necessary, attach a list. (Witness statement section at the end of this form) NA		
Nature of the event : Injury? ☐ Yes ☑ No	Property Damage? ☐ Yes ☑ No	Environmental ☑ Yes ☐ No
Injury Severity ☐ First Aid ☐ Medical treatment ☐ Modified Work ☐ Lost time ☐ Fatality		
Environmental Impact ☑ **Contained**	☐ **Within the limits of the site**	☐ **Outside the limits of the site**

SECTION 2	DATA RELATING TO THE VICTIM		
Name of employee N/A	**Employee No**	**Occupation/Title**	**Supervisor**
Seniority For WSP	Current position	**Activities at time of accident**	

SECTION 3	PROPERTY DAMAGE	
Property damaged NA		**Nature of damage**
Estimated cost	**Actual Cost**	**Person in charge of the activity at time of event** Tunde Komuves-Sandor

Clearly describe the sequence of events which have led to the Incident / accident, focus on the facts.
(Attach additional sheets if necessary, relevant pictures or diagrams). ☐ Videotape available.

1. Inspection of serpentine belt and fluids on cable tool rig occurred at approximately 7:00 am to 7:30 am 7/18/18.
2. Rehabilitation of RW-2 was proceeding with cable tool rig when serpentine belt failed at ~ 10:55 am 7/18/18.
3. Failure of serpentine belt caused engine to overheat and antifreeze to overflow and release to paved surface.
4. Approximately one gallon of antifreeze released onto the paved surface. Liquid did not enter storm drains or unpaved areas.
5. Corrective measures (i.e. cleanup) were initiated within 10 minutes of incident occurrence (see Section 5 for Corrective Measures taken).

INCIDENT/ACCIDENT INVESTIGATION REPORT

SECTION 4	IDENTIFICATION AND CAUSES ANALYSIS
STEPS TO TAKE	***Step 1 : Identify immediate causes***
	Step 2 : Link the immediate causes to root (underlying) causes
	Step 3 : Determine a corrective measure for each identified causes

*Indicate **how** and **why** the following factors have contributed to the occurrence of the event*

	How?	Why?
Environment	NA	NA
Equipment/ Material	Antifreeze released to paved surface	Serpentine belt on cable tool rig failed.
Moment	NA	NA
Operations/ Tasks	NA	NA
People	NA	NA
Management	Did not observe wear/damage on belt	Inadequate inspection of rig earlier that morning.

IMMEDIATES CAUSES

Environmental Conditions

- ☐ 1. Noisy environment
- ☐ 2. Heat/Cold Stress
- ☐ 3. Adverse weather conditions
- ☐ 4. Insufficient/ inadequate lighting
- ☐ 5. Radiation Hazard
- ☐ 6. Poor ventilation
- ☐ 7. Congested place
- ☐ 8. Insufficient work space
- ☐ 9. Improper storage space
- ☐ 10. Flooring/Ground (Uneven, water, solvent. ice, etc.)
- ☐ 11. Fire/Explosion Hazards
- ☐ 12. Hazardous/Toxic Gas/Smoke/ Fume
- ☐ 13. Poor condition of traffic ways
- ☐ 14. Working space not delimited
- ☐ 15. Hazardous installation
- ☐ 16. Other cause/Environment

Equipment/Material/Products

- ☐ 17. Product label improper/absent
- ☐ 18. Product/merchandise improperly stored
- ☐ 19. Product/Material misused
- ☐ 20. Hazardous Product/Material
- ☐ 21. Heavy Material
- ☐ 22. Unprotected Equipment
- ☐ 23. Missing Equipment
- ☐ 24. Improper Equipment/Tool
- ☐ 25. Inadequate Equipment/Tool
- ☑ 26. Defective Equipment/Tool
- ☐ 27. Protection absent/insufficient/ ineffective
- ☐ 28. Poor Ergonomic design
- ☐ 29. Inadequate Alarm Systems
- ☐ 30. Other cause/Equipment

Moment

- ☐ 31. Work pace
- ☐ 32. Working duration
- ☐ 33. Interference between two actions
- ☐ 34. Repeated movement
- ☐ 35. Wrong time
- ☐ 36. Other cause/Moment

Task

- ☐ 45. Poor execution
- ☐ 46. Dangerous third-party intervention
- ☐ 47. Mishandling
- ☐ 48. Performed without authorization
- ☐ 49. Pace of work too fast
- ☐ 50. Safety devices non functional
- ☐ 51. Improper positioning /loading /lifting/pulling/etc.
- ☐ 52. Ergonomic Problem
- ☐ 53. No lockout
- ☐ 54. Other cause/Task

People

- ☐ 55. Personal characteristics
- ☐ 56. Working procedures not followed
- ☐ 57. Safety Regulations not respected
- ☐ 58. Specific Instruction (verbal) not followed
- ☐ 59. Bypassing safety devices
- ☐ 60. Not using Personal Protective Equipment
- ☐ 61. Improper use of Personal protective Equipment
- ☐ 62. Intentional Act by the employee
- ☐ 63. Under the influence of alcohol/drugs/other substances
- ☐ 64. Bad influence of a third party
- ☐ 65. Cause not related to work
- 66. Other cause/People

INCIDENT/ACCIDENT INVESTIGATION REPORT

ROOT CAUSES

Management	Individual
☐ 67. Lack of consideration to deal with this problem	☐ 81. Inadequate physical condition
☐ 68. Lack or inadequate management / supervision	☐ 82. Inadequate mental condition
☐ 69. Poor risks assessment	☐ 83. Physical stress (fatigue)
☐ 70. Human or ergonomic factors not considered	☐ 84. Lack of experience
☐ 71. Ergonomic design or arrangement of furniture/equipment	☐ 85. Lack of practice
☐ 72. Weakness/Lack of a Purchasing or Installation Policy	☐ 86. Lack of knowledge
☐ 73. Weakness/Lack of HSE communication	☐ 87. Misunderstanding of instructions
☐ 74. Improper method for storage and transportation	☐ 88. Lack of motivation
☑ 75. Lack or inadequate maintenance or inspection	☐ 89. Lack of skill
☐ 76. Lack or inadequate work procedures or instructions	☐ 90. Other personal factor
☐ 77. Lack of communication of specific work procedures or rules	
☐ 78. Lack or poor training	
☐ 79. Misallocation (selection, hiring)	
☐ 80. Other root causes	

SECTION 5 CORRECTIVES MEASURES

Cause No.	Description of the measure	Person in charge	Date due	Completed
1	Recover antifreeze with turbo vac on vacuum truck.	Tunde Sandor	4/18/18	4/18/18
2	Pressure-rinse affected pavement with potable water	Tunde Sandor	4/18/18	4/18/18
3	Mopped/brushed affected pavement with alconox/water	Tunde Sandor	4/18/18	4/18/18
	mixture			
4	Recover liquid with turbo vac on vacuum truck	Tunde Sandor	4/18/18	4/18/18
5	Pressure-rinse affected pavement with potable water	Tunde Sandor	4/18/18	4/18/18
6	Recover remaining liquid with turbo vac on vacuum	Tunde Sandor	4/18/18	4/18/18
	truck and transferred all recovered liquid to one 55			
	gallon steel drum. Labeled drum for waste disposal.			
7	Replaced broken serpentine belt.	Tunde Sandor	4/18/18	4/18/18

SECTION 6 INVESTIGATION REPORT CONCLUSION

Potential severity	☑ Minor	☐ Significant	☐ Major	☐ Critical
Recurrence probabilities	☐ Negligible	☑ Low	☐ Medium	☐ High

Present during the investigation: Tunde Sandor (photos attached)

Investigation conducted by :	Function	Signature	Date
Tunde Sandor	Field H&S Officer		

Immediate Measure(s) implemented : ☐ None ☑ Yes Explain :

See Section 5 along with photographic documentation attached.

Immediate Supervisor	Signature	Date
William K. Beckman		

WITNESSES STATEMENTS		
Date /Time	**Name**	**Witnesses version of the facts**
		N/A