SUMMARY OF SYSTEM OPERATIONS

(December 1, 2017 through December 31, 2017)

Reporting period:	31 days
Volume of contaminated groundwater treated:	1,140,518 gallons
Volume of contaminated groundwater treated since 12/17/02:	1,429,243,626gallons
Mass of Volatile Organics (VOCS) removed from groundwater:	0.01 pound
Cumulative mass of VOCs removed from groundwater since 12/17/02:	229.1 pounds
No. hours of operation during reporting period:	557 hours (74.9%)*
No. of operating recovery wells:	1 out of 9 full-scale pump and treat recovery wells and focused recovery wells FRW-1 through FRW-4. With EPA approval: RW-1 was shut down on July 13, 2005; RW-3 was shut down on May 21, 2012; RW-4 was shut down on January 1, 2014; RW-5 was shut down on May 23, 2012; RW-6 was shut down on January 1, 2014; RW-7 was shut down on January 1, 2014; RW-8 was shut down on April 30, 2012; and RW-9 was shut down on April 30, 2012.

*Downtime includes maintenance periods.

COMMUNITY INVOLVEMENT

EPA will continue to send out this type of update to let the community know how the site cleanup is progressing. A copy of this update and other site-related documents are available at the John Jermain Library for the public's review. If you have any questions about this update or the site in general, please contact:

Pamela Tames, P.E.
U.S. Environmental Protection Agency
290 Broadway, New York, NY 10007
telephone: (212) 637-4255
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e-mail: tames.pam@epa.gov

or

Cecilia Echols
Community Involvement Coordinator
telephone: 1-800-346-5009
e-mail: echols.cecilia@epa.gov

-DRAFT-

PROJECT STATUS MEMORANDUM NO. 12-17

TO: Pamela Tames, USEPA

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

DATE: February 28, 2018

PROJECT: Rowe Industries Superfund Site
NYS Site ID No. 152106
Groundwater Recovery and Treatment System
December 2017 Status Report
Sag Harbor, New York

LBG Hydrogeologic & Engineering Services, P.C., member of WSP (LBGHES) 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 December 1, 2017 through December 31, 2017. 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

(December 1, 2017 through December 31, 2017)

1. Hours of operation during the reporting period:	557 hours (74.9%)
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:	1,140,518 gal.
5. Was the system effluent flow below the SPDES limit of 1,023,000 gpd:	Yes, (see Graph 1)
6. Mass of VOCs recovered during the reporting period:	0.01 pound (see Graph 2)
7. Cumulative mass of VOCs recovered since startup on 12/17/02: (calculations can be provided upon request)	229.1 pounds

LBG HYDROGEOLOGIC & ENGINEERING SERVICES, P.C.
MEMBER OF WSP
4 Research Drive, Suite 204
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PUMP AND TREAT SYSTEM STATUS SUMMARY

The following table summarizes recovery well parameters for the operating recovery wells. Note, the system was not operational for less than 24-hours between December 10 and 11. and was not operational from December 24 to December 31, 2018. Additional downtime for individual recovery wells is discussed below and in Table 1.

Well	Volume pumped (gal)	Total VOC Concentration (ug/L)	VOC Recovery (lbs)
RW-2 [1/]	781,413	0.7	< 0.01
FRW-1 [2/]	9,063	60.3	< 0.01
FRW-2 [2]	2,688	43.0	< 0.01
FRW-3 [2/]	5,509	41.8	< 0.01
FRW-4 [2/]	144,799	6.1	0.01

[1/] The above table summarizes the parameters for RW-2 from December 1 to December 31, 2017.
[2/] The above table summarizes the parameters for the FRWs from December 5, 2017 through January 3, 2018.

The malfunctioning FRW-1 pump was not operational from November 12 to December 4 and was replaced on December 5, at which time FRW-1 was restarted without issue.

On December 6, 2017, at 10:20 am, a tenant on the SHI property heard a "popping" sound coming from the FP&T trailer. Within one hour, the tenant notified the president of Sag Harbor Industries. At 11:30 am, the president of SHI notified WSP that water was leaking from the back of the trailer. WSP instructed the president to break the lock on the trailer and shut the FP&T system off. At 11:50 am on December 6, 2017, the FP&T system was turned off. After WSP spoke with an eyewitness to the spill incident the following day, the leak was characterized as a "cup or so of water" that emanated from the trailer. On December 6, 2017, the water that leaked out of the back of the trailer puddled on the ground but the released water did not flow to any paved surfaces or catch basins according to the president of Sag Harbor Industries. The residual water inside the trailer, the impacted surficial soil adjacent to the trailer and iron residue observed inside and outside of the trailer was cleaned up with a shop vacuum and/or absorbent pads.

On December 7, 2017, the WSP investigation of the leak revealed that the threaded coupling for the FRW-1 flow meter broke. The broken coupling was believed to be caused by high pressure associated with iron buildup at a partially closed valve located immediately downstream of the flow meter. Manual valves located immediately downstream of each FRW flow meter will be left open from this point forward to reduce pressure in the FRW pipes. The partially closed valves were used to extend cycle times of the FRW pumps so the pump motors would not fail prematurely, but with the open valves, timers are now used to extend the cycle times of the FRW pumps.

The FP&T system was restarted with the pumps for FRW-2, 3 and 4 operating; FRW-1 was not turned back on and a flow meter part was ordered. The lock on the FP&T trailer door was replaced. An estimate of the mass of PCE released, which is the COC with the highest concentration, was calculated to be approximately 0.3 gram. The calculation for the mass of PCE released was based on the time the "popping" sound was heard from the FP&T trailer (10:20 am) to the time the FP&T system was shut off (11:50 am) on the same day. The calculation for the mass of PCE released is provided in Appendix III. FRW-1 was restarted following repair of the flow meter on December 12, 2017.

Additional details about the maintenance activities are provided in Table 1.

SUMMARY OF SAMPLING ACTIVITIES

December 2017 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 and FRWs 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, 3 and 4 were above the ARAR. The TCE, cis-DCE, VC and TCA concentrations from the groundwater samples collected at FRW-1, 2, 3 and 4 were below the respective ARARs; in some cases the concentrations were below laboratory reporting limits.

During the month of December, the monthly sample results are similar to historic observations over the last 12 months. Groundwater samples from RW-2 and the FRWs will continue to be collected and analyzed monthly for quality trends.

FUTURE O&M ACTIVITIES

O&M activities scheduled for January 2018 include:

- normal bi-weekly/monthly O&M activities.

MMG:cmm
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\2017\Monthly Reports\December\Draft Status.docx

TABLES

TABLE 1

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

MAINTENANCE LOG
(December 1, 2017 through December 31, 2017)

Date	Time	System Changes/Modifications	Personnel
12/5/2017		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 the FRW and FP&T system effluent flow meter paddle wheels.	EF
		With assistance from the D&D electrician, the damaged FRW-1 pump was replaced.	EF/D&D
		A contractor (T.M. Kenney's, Inc.) temporarily repaired the rear garage door for the FSP&T building. The garage door is now completely closed; however, a replacement part needs to be ordered and the repair contractor is scheduled to return later this month to install the replacement garage door part.	EF/TM
		Continued RW-2 flow meter troubleshooting from last month revealed that the reed switch for the flow meter malfunctioned. The reed switch was replaced and this action restored the flow reading for RW-2.	EF
12/6/2017	10:20 AM	A tenant at the SHI property heard a "popping" sound coming from the FP&T trailer. Within an hour, the tenant notified the president of Sag Harbor Industries (SHI).	
	11:30 AM	The president of SHI notified WSP (formerly LBGHES) that water was leaking from the back of the trailer. WSP instructs the president of SHI to shut the system off.	
	11:50 AM	The FP&T system was shut down by the tenant. RW-2 continued to operate.	MG
12/7/2017		Investigation of the leak from the FP&T trailer revealed that the threaded coupling for the FRW-1 flow meter broke. The broken coupling was believed to be caused by high pressure associated with iron buildup at a partially closed valve located immediately downstream of the flow meter. Manual valves located immediately downstream of each FRW flow meter will be left open from this point forward to reduce pressure in the FRW pipes. The partially closed valves were used to extend cycle times of the FRW pumps so the pump motors would not fail prematurely. The FP&T system was restarted with FRW-2, 3 and 4 operating; FRW-1 was left off awaiting the flow meter part.	MG
12/10/2017	9:59 PM	The FSP&T and FP&T systems shut down because of a power failure and system leak alarm, which also indicates a communication failure. A system leak did not occur.	
12/11/2017	1:02 PM	Checked the FSP&T and FP&T systems, reset alarms and restarted the FSP&T and FP&T systems with RW-2, FRW-2, 3 and 4 operating.	JF
12/12/2017	11:55 AM	Cleaned the FRW and FP&T system effluent flow meter paddle wheels. Replaced the threaded coupling for the FRW-1 flow meter and restarted FRW-1. Measured the cycle time for FRW-1, 2 and 3 with manual valves open. FRW-4 does not cycle.	EF

TABLE 1

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

MAINTENANCE LOG
(December 1, 2017 through December 31, 2017)

Date	Time	System Changes/Modifications	Personnel
12/18/2017		Measured depth-to-water in select monitor wells.	EF
		Contractors from T.M. Kenney's, Inc. completed the repair of the FSP&T building back garage door.	EF/TM
12/24/2017	10:00 PM	The FSP&T and FP&T systems shut down because of a power failure and communication failure alarm.	

Notes:

EF	Evan Foster, WSP USA	D&D	D&D Electric
JF	Jamie Forrester, WSP USA	TM	T.M. Kenney's, Inc.,
MG	Mark Goldberg, WSP USA		

H:\NABIS\2017\Monthly Reports\December\Table 1 Maintenance Record.docx

TABLE 2

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

Effluent Water Quality Results

Date Sampled [2/]	pH [1/]	TDS (mg/l)	PCE (ug/l)	1,1,1-TCA (ug/l)	TCE (ug/l)	1,1-DCA (ug/l)	1,1-DCE (ug/l)	cis-1,2-DCE (ug/l)	trans-1,2-DCE (ug/l)	Xylene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Methylene Chloride (ug/l)	Freon 113 (ug/l)	Naphthalene (ug/l)	Chloroform (ug/l)	Total Iron (mg/l)	Dissolved Iron (mg/l)
SPDES Limits	**6.5 to 8.5**	**---**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**---**	**10**	**7**	**---**	**---**
1-Dec-16	6.5	191	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	2.17	0.042
3-Jan-17	6.5	123	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	0.030
1-Feb-17	6.5	120	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	2.17	0.051
1-Mar-17	6.5	149	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	0.69	0.063
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

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.
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.

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	2-Dec-15	0.35 J	0.53	0.26 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
	6-Jan-16	ND<0.5	0.56	0.33 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
	1-Feb-16	0.40 J	0.63	0.22 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
	1-Mar-16	0.38 J	0.67	0.32 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
	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

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**
6-Jan-16	**170**	1.8	3.2	ND<0.5	2.4	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<2
The FRWs were shut down between February 13, 2016 and February 16, 2016										
1-Feb-16	**67**	**5.3**	**5.9**	0.30 J	0.28 J	ND<0.5	ND<2	ND<0.5	ND<0.5	1.2 J
The FRWs were shut down between February 25, 2016 and February 27, 2016										
1-Mar-16	**290**	3.8	**7.9**	ND<0.5	2.6	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<2
The FRWs were shut down between March 10 and March 16, 2016 and again between March 18 and March 22, 2016										
5-Apr-16	**140**	4.0	**7.9**	ND<0.5	1.1	ND<0.5	ND<2	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	**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 January 1, 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**
6-Jan-16	**53**	4.3	2.3	0.21 J	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were shut down between February 13, 2016 and February 16, 2016								
1-Feb-16	**280**	3.3	**5.2**	ND<0.5	3.3	ND<0.5	ND<0.5	2.5
The FRWs were shut down between February 25, 2016 and February 27, 2016								
1-Mar-16	**55**	1.8	1.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
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 January 1, 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**
6-Jan-16	**34**	3.1	**15**	0.60	ND<0.5	0.34 J	ND<0.5	1.0	0.48 J	1.3	ND<0.5	ND<2
The FRWs were shut down between February 13, 2016 and February 16, 2016												
1-Feb-16	**50**	4.1	**23**	1.40	ND<0.5	0.23 J	ND<0.5	1.2	0.52	1.4	ND<0.5	1.2 J
The FRWs were shut down between February 25, 2016 and February 27, 2016												
1-Mar-16	**62**	**7.1**	**29**	0.62	0.30 J	ND<0.5	ND<0.5	0.93	ND<0.5	ND<0.5	ND<0.5	1.4 J, B
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 January 1, 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**
6-Jan-16	2.4	0.37 J	**7.9**	ND<0.5	ND<0.5	ND<2
The FRWs were shut down between February 13, 2016 and February 16, 2016						
1-Feb-16	5.0	0.68	4.4	ND<0.5	ND<0.5	ND<2
The FRWs were shut down between February 25, 2016 and February 27, 2016						
1-Mar-16	**15**	1.1	**5.4**	ND<0.5	ND<0.5	ND<2
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 January 1, 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

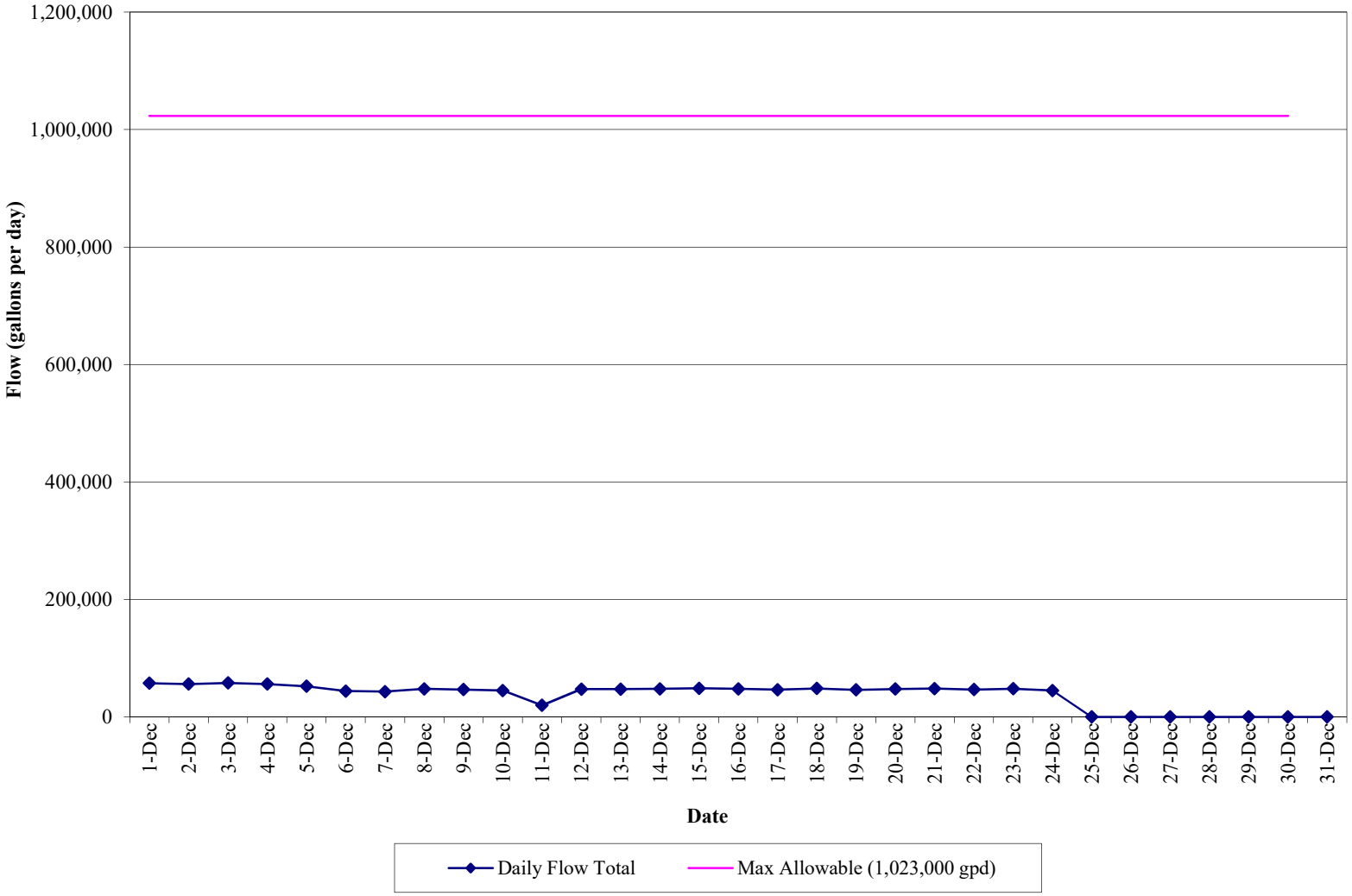
Comments:
As of September 1, 2011 the water samples are analyzed by York Analytical Laboratories, Inc. The laboratory typically uses a reporting limit (RL) for water of 5 ug/l for VOC. York reports detections below 0.5 ug/l as an estimated value; these values are below the RL but greater than or equal 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

GRAPHS

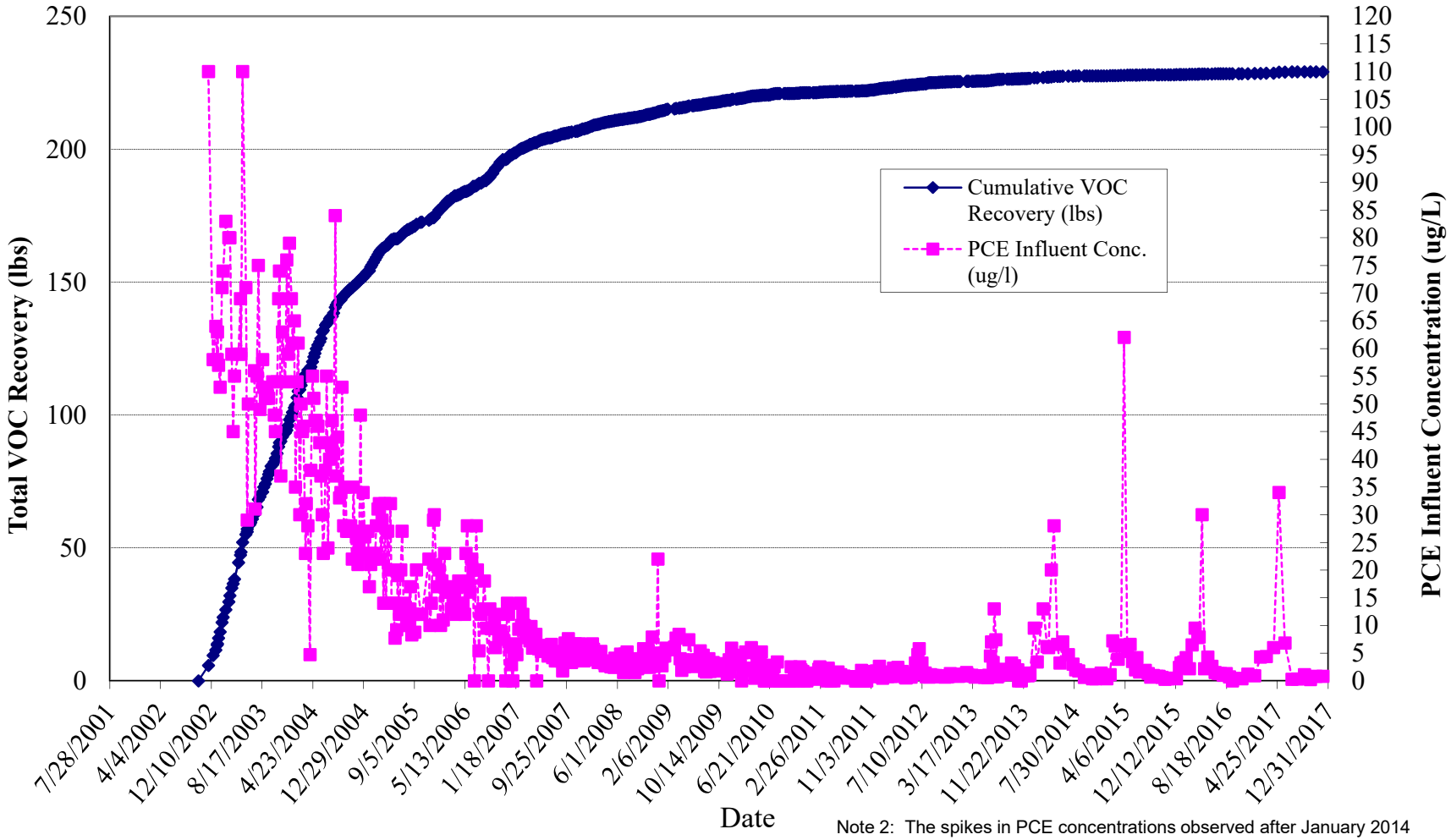
GRAPH 1
GROUNDWATER REMEDIAL ACTION
ROWE INDUSTRIES SUPERFUND SITE
SAG HARBOR, NEW YORK

Effluent Flow Data
(December 1, 2017 to Decermber 31, 2017)



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



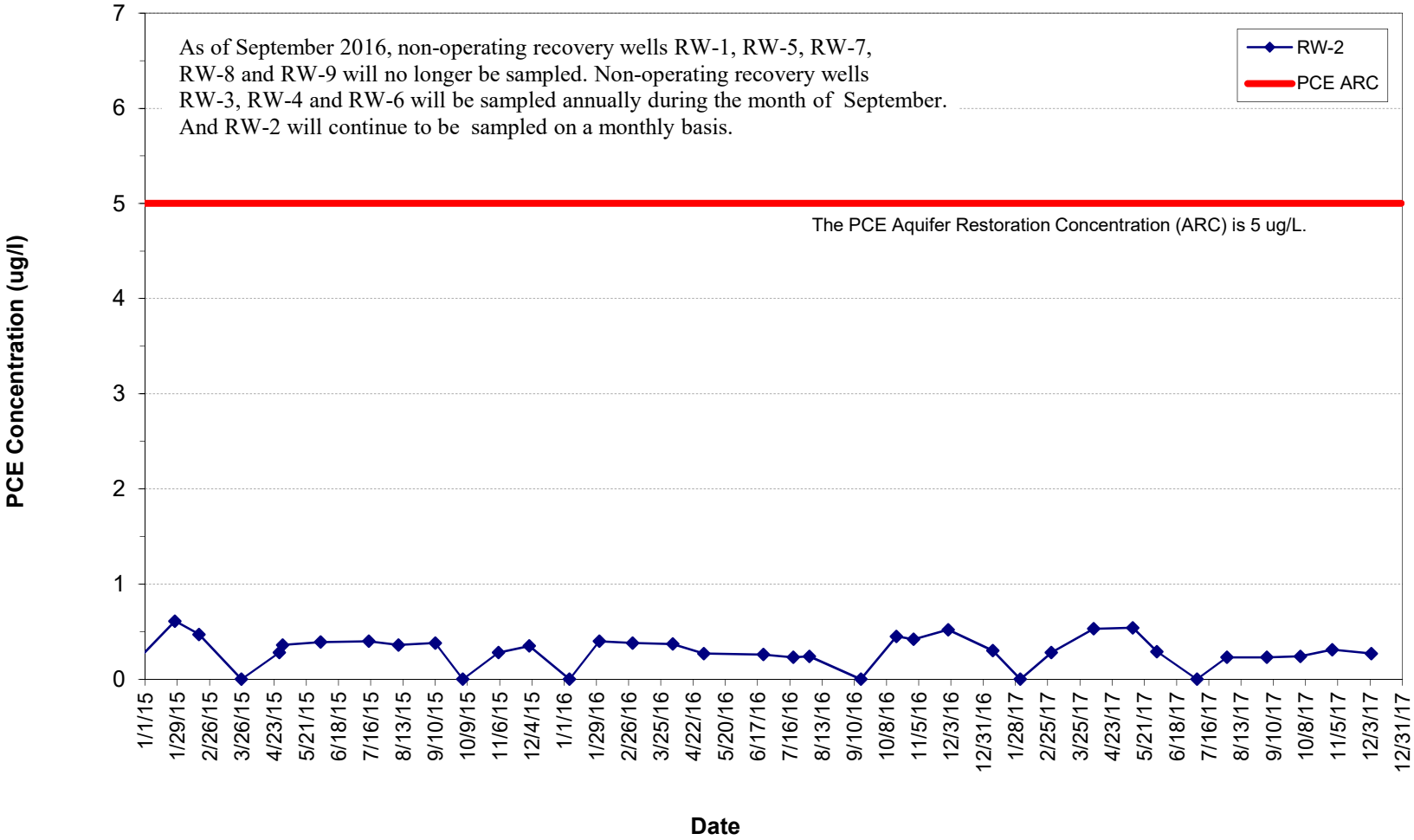
Note 1 : After September 22, 2008, the water recovered from the FP&T System is included in the results shown in this graph.

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

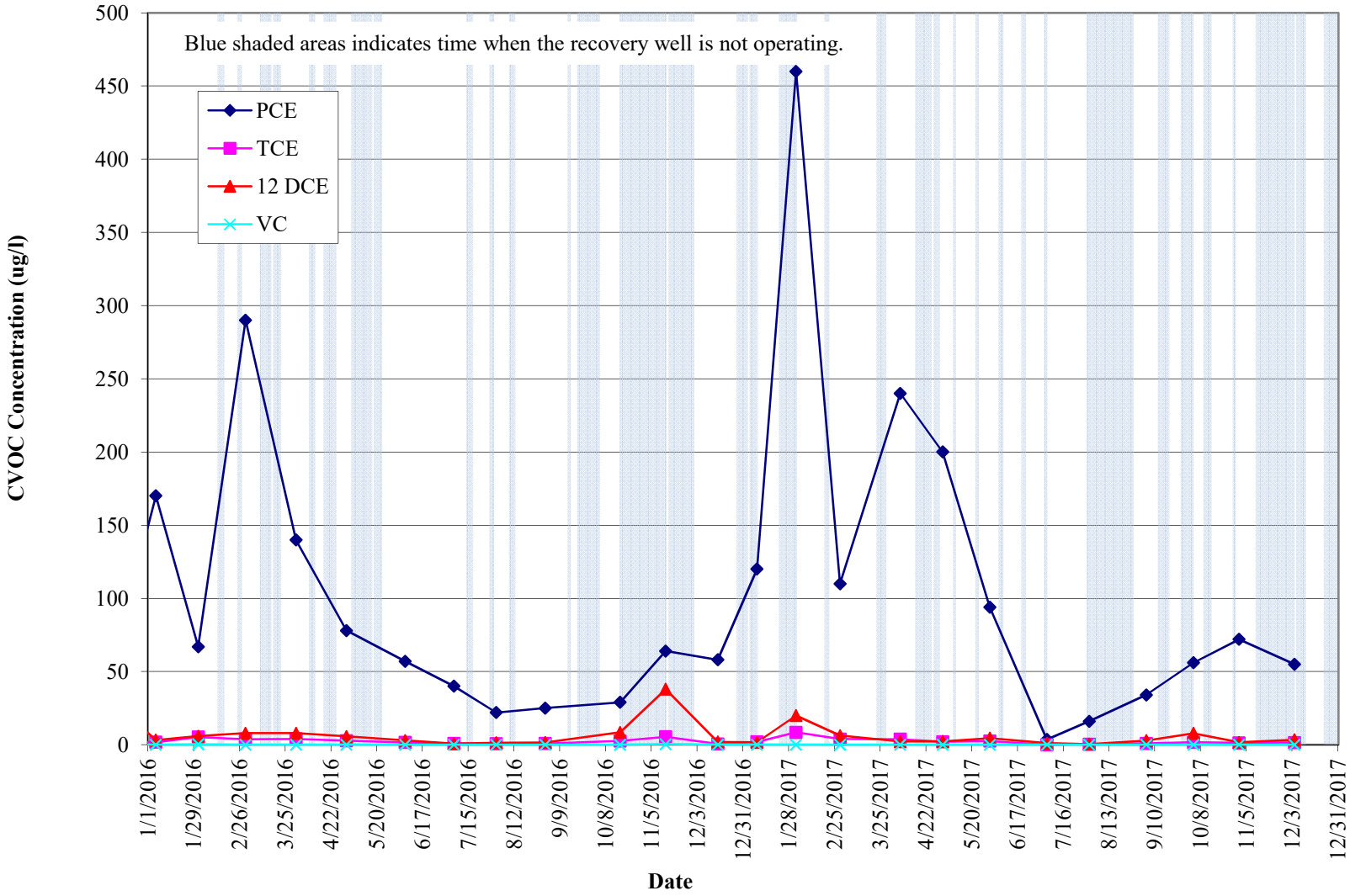
GROUNDWATER REMEDIAL ACTION
ROWE INDUSTRIES SUPERFUND SITE
SAG HARBOR, NEW YORK

FSP&T Recovery Well PCE Concentration

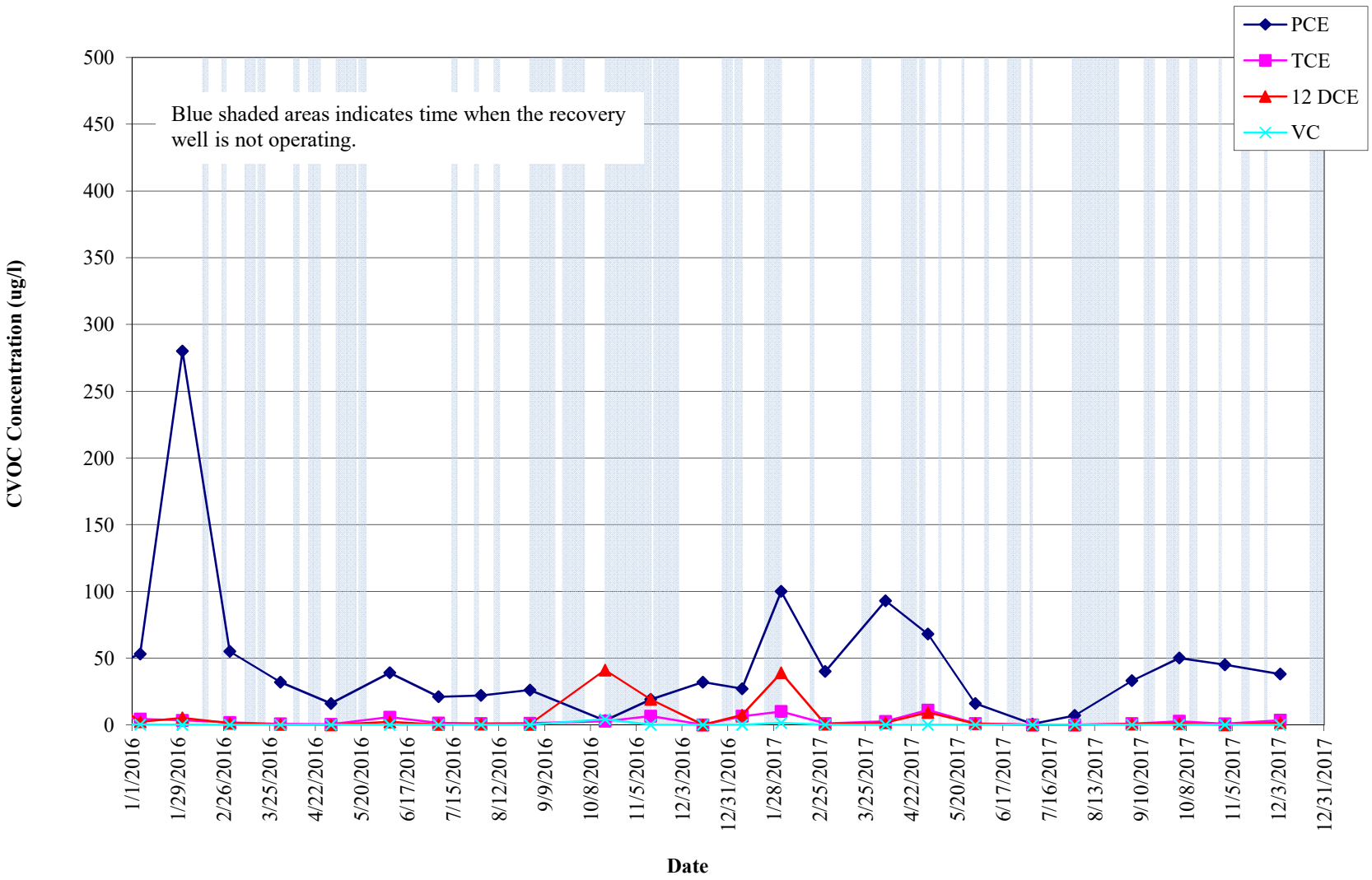


GRAPH 4
GROUNDWATER REMEDIAL ACTION
ROWE INDUSTRIES SUPERFUND SITE
SAG HARBOR, NEW YORK

FP&T Recovery Well VOC Concentrations for FRW-1

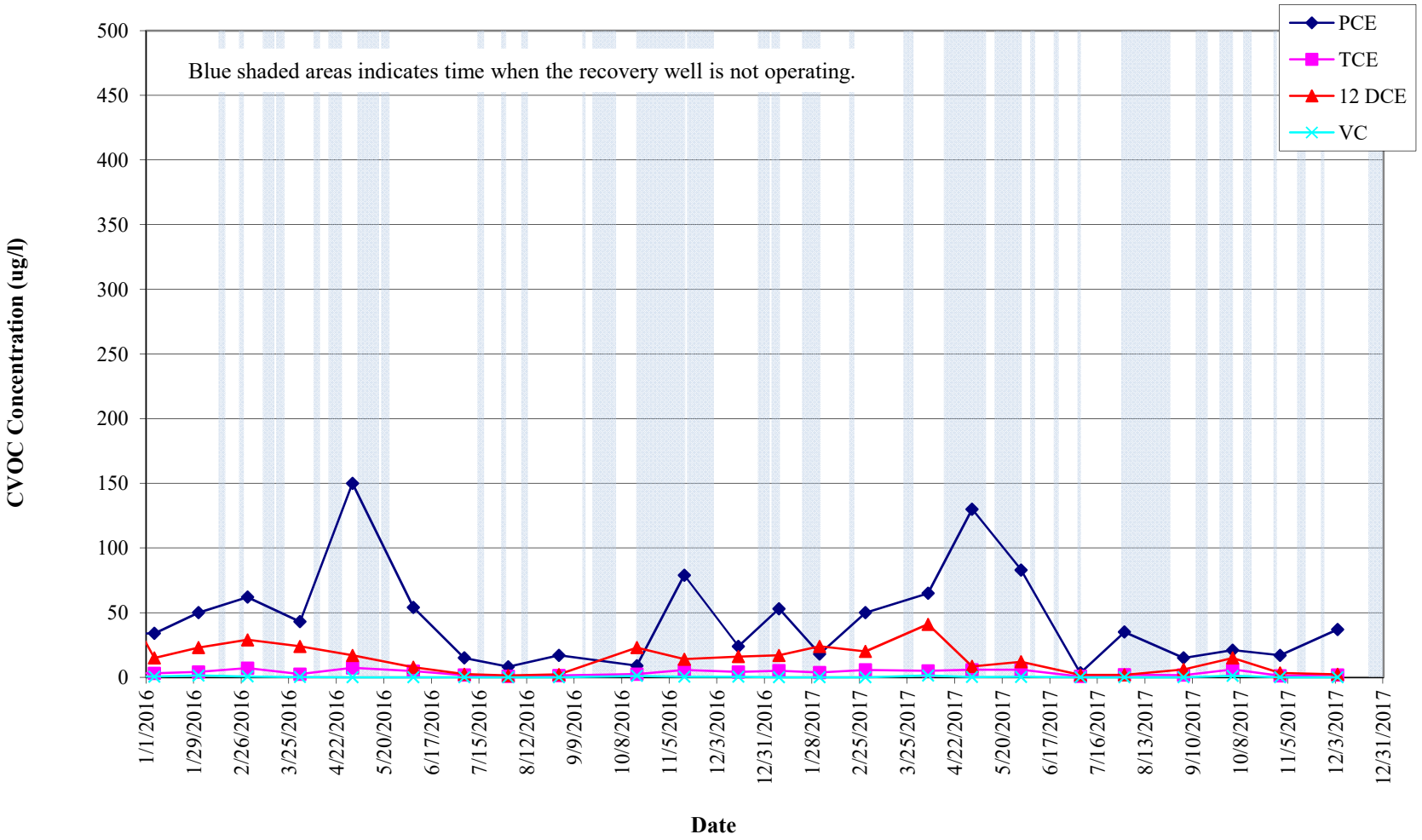


GRAPH 5
GROUNDWATER REMEDIAL ACTION
ROWE INDUSTRIES SUPERFUND SITE
SAG HARBOR, NEW YORK

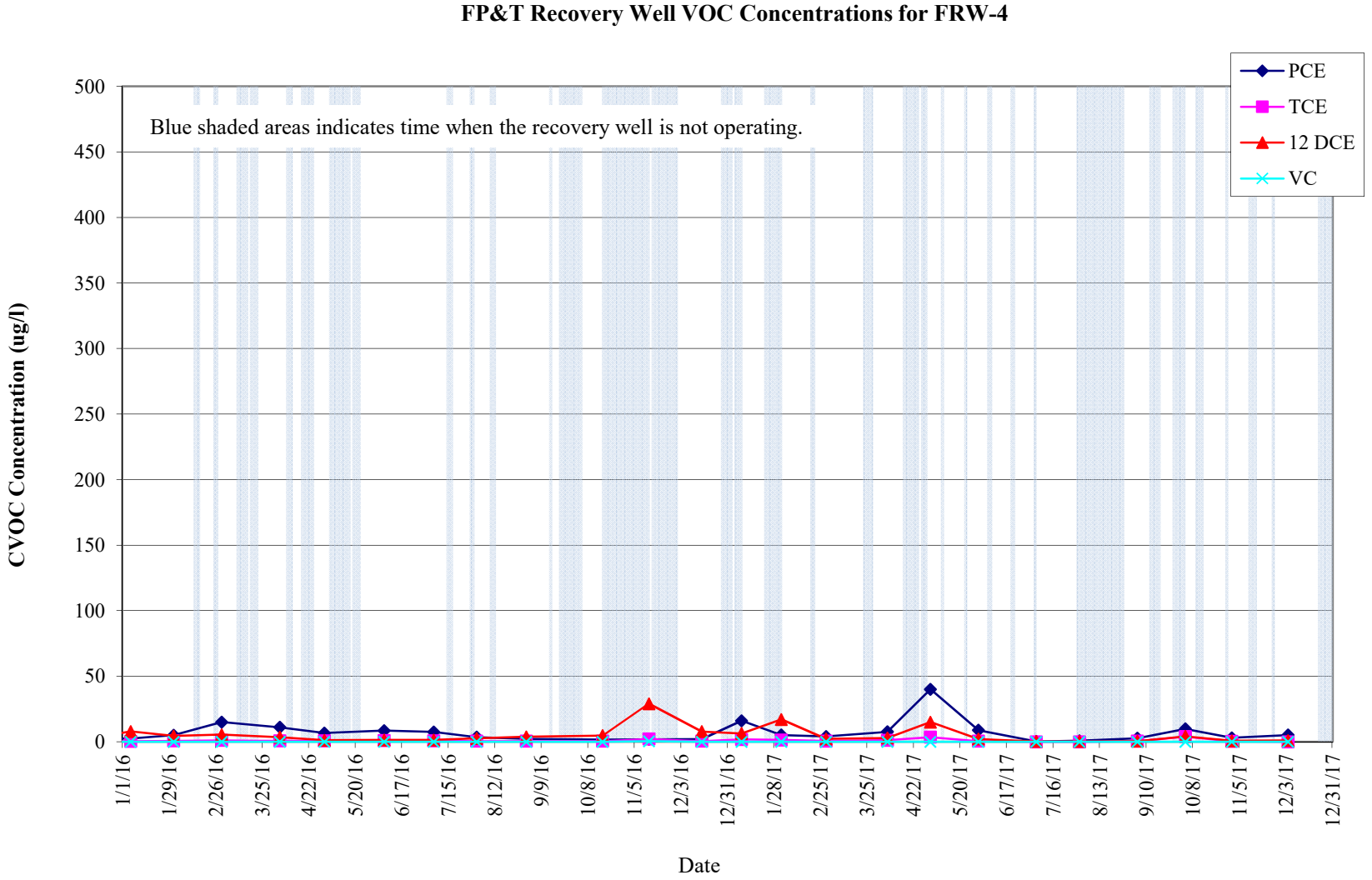


GRAPH 6
GROUNDWATER REMEDIAL ACTION
ROWE INDUSTRIES SUPERFUND SITE
SAG HARBOR, NEW YORK

FP&T Recovery Well VOC Concentrations for FRW-3



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



APPENDIX I
DECEMBER 2017 LABORATORY ANALYTICAL REPORTS
FOR FSP&T SYSTEM

Technical Report

prepared for:

Leggette Brashears & Graham Shelton Office
4 Research Drive, Suite 204
Shelton CT, 06484
Attention: Tunde Komuves-Sandor

Report Date: 12/18/2017
Client Project ID: Rowe Industries
York Project (SDG) No.: 17L0371

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: 12/18/2017
Client Project ID: Rowe Industries
York Project (SDG) No.: 17L0371

Leggette Brashears & Graham Shelton Office
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 December 11, 2017 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.

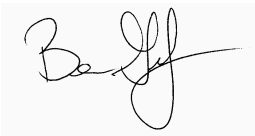
The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

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
17L0371-01	WQ120517:1400 NP2-6	Water	12/05/2017	12/11/2017
17L0373-01	WQ120417:1405 NP2-10	Water	12/05/2017	12/11/2017

General Notes for York Project (SDG) No.: 17L0371

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: 12/18/2017

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: WQ120517:1400 NP2-6 **York Sample ID:** 17L0371-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17L0371	Rowe Industries	Water	December 5, 2017 2:00 pm	12/11/2017

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:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 16:42	SR
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 16:42	SR
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 16:42	SR
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 16:42	SR
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 16:42	SR
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 16:42	SR
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 16:42	SR
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 NELAC-NY10854,NJDEP,NELAC-NY12058	12/15/2017 16:42	SR
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 16:42	SR
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 16:42	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 16:42	SR
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 16:42	SR
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 16:42	SR
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 16:42	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 16:42	SR
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 16:42	SR
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 16:42	SR
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 16:42	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 16:42	SR
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 16:42	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 16:42	SR
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 16:42	SR

Sample Information

Client Sample ID: WQ120517:1400 NP2-6 **York Sample ID:** 17L0371-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17L0371	Rowe Industries	Water	December 5, 2017 2:00 pm	12/11/2017

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:	12/15/2017 07:30	12/15/2017 16:42	SR CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 16:42	SR CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 16:42	SR CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 16:42	SR CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 16:42	SR CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 16:42	SR NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 16:42	SR NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 16:42	SR CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 16:42	SR CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 16:42	SR CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 16:42	SR CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 16:42	SR CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 16:42	SR CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 16:42	SR CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 16:42	SR CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 16:42	SR CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 16:42	SR CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 16:42	SR CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 16:42	SR NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 16:42	SR NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 16:42	SR CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 16:42	SR NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 16:42	SR CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP

Sample Information

Client Sample ID: WQ120517:1400 NP2-6 **York Sample ID:** 17L0371-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17L0371	Rowe Industries	Water	December 5, 2017 2:00 pm	12/11/2017

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:	12/15/2017 07:30	12/15/2017 16:42 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	SR
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 16:42 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	SR
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 16:42 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	SR
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 16:42 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	SR
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 16:42 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	SR
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 16:42 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	SR
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 16:42 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	SR
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 16:42 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	SR
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 16:42 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	SR
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 16:42 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	SR
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 16:42 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	SR
127-18-4	**Tetrachloroethylene**	**0.79**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 16:42 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	SR
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 16:42 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	SR
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 16:42 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	SR
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 16:42 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	SR
79-01-6	**Trichloroethylene**	**0.43**	J	ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 16:42 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	SR
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 16:42 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	SR
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 16:42 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	SR
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 16:42 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058	SR

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*93.8 %*	*69-130*
2037-26-5	*Surrogate: Toluene-d8*	*100 %*	*81-117*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*102 %*	*79-122*

Sample Information

Client Sample ID: WQ120417:1405 NP2-10 **York Sample ID:** 17L0373-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17L0373	Rowe Industries	Water	December 5, 2017 2:05 pm	12/11/2017

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:	12/15/2017 07:30	12/15/2017 17:09 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	SR
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 17:09 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	SR
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 17:09 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	SR
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 17:09 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	SR
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 17:09 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	SR
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 17:09 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	SR
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 17:09 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	SR
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 17:09 NELAC-NY10854,NJDEP,NELAC-NY12058	SR
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 17:09 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	SR
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 17:09 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 17:09 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	SR
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 17:09 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	SR
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 17:09 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	SR
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 17:09 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 17:09 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	SR
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 17:09 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	SR
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 17:09 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	SR
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 17:09 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 17:09 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	SR
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 17:09 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 17:09 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	SR
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 17:09 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	SR
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30	12/15/2017 17:09 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	SR

Sample Information

Client Sample ID: WQ120417:1405 NP2-10 **York Sample ID:** 17L0373-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17L0373	Rowe Industries	Water	December 5, 2017 2:05 pm	12/11/2017

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:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 17:09	SR
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 17:09	SR
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 17:09	SR
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 17:09	SR
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 17:09	SR
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 17:09	SR
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 17:09	SR
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 17:09	SR
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 17:09	SR
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 17:09	SR
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 17:09	SR
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 17:09	SR
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 17:09	SR
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 17:09	SR
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 17:09	SR
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 17:09	SR
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 17:09	SR
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 17:09	SR
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 17:09	SR
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 17:09	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 17:09	SR
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 17:09	SR
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 17:09	SR

Sample Information

Client Sample ID: WQ120417:1405 NP2-10 **York Sample ID:** 17L0373-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17L0373	Rowe Industries	Water	December 5, 2017 2:05 pm	12/11/2017

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:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 17:09	SR
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	12/15/2017 07:30 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 17:09	SR
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 17:09	SR
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 17:09	SR
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	12/15/2017 17:09	SR
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	12/15/2017 17:09	SR
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 17:09	SR
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 17:09	SR
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 17:09	SR
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 17:09	SR
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 17:09	SR
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 17:09	SR
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 17:09	SR
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 17:09	SR
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 17:09	SR
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 17:09	SR
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/15/2017 17:09	SR
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications:	12/15/2017 07:30 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058	12/15/2017 17:09	SR

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*92.0 %*	*69-130*
2037-26-5	*Surrogate: Toluene-d8*	*101 %*	*81-117*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*104 %*	*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: WQ120417:1405 NP2-10 **York Sample ID:** 17L0373-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17L0373	Rowe Industries	Water	December 5, 2017 2:05 pm	12/11/2017

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**	**1.04**		mg/L	0.0222	1	EPA 200.7	12/14/2017 10:11	12/14/2017 20:18	BML
							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**	**0.0528**		mg/L	0.0222	1	EPA 6010C	12/13/2017 09:25	12/14/2017 02:50	BML
							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	**153**	HT-01	mg/L	10.0	1	SM 2540C	12/13/2017 01:14	12/13/2017 01:14	AA
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

Analytical Batch Summary

Batch ID: BL70548 **Preparation Method:** % Solids Prep **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
17L0373-01	WQ120417:1405 NP2-10	12/13/17
BL70548-BLK1	Blank	12/13/17

Batch ID: BL70582 **Preparation Method:** EPA 3015A **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
17L0373-01	WQ120417:1405 NP2-10	12/13/17
BL70582-BLK1	Blank	12/13/17
BL70582-SRM1	Reference	12/13/17

Batch ID: BL70656 **Preparation Method:** EPA 200.7 **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
17L0373-01	WQ120417:1405 NP2-10	12/14/17
BL70656-BLK1	Blank	12/14/17
BL70656-SRM1	Reference	12/14/17

Batch ID: BL70705 **Preparation Method:** EPA 5030B **Prepared By:** RDS

YORK Sample ID	Client Sample ID	Preparation Date
17L0371-01	WQ120517:1400 NP2-6	12/15/17
17L0373-01	WQ120417:1405 NP2-10	12/15/17
BL70705-BLK1	Blank	12/15/17
BL70705-BS1	LCS	12/15/17
BL70705-BSD1	LCS Dup	12/15/17

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 BL70705 - EPA 5030B											
Blank (BL70705-BLK1)											
Prepared & Analyzed: 12/15/2017											
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	"								

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL70705 - EPA 5030B											
Blank (BL70705-BLK1)									Prepared & Analyzed: 12/15/2017		
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	*9.04*		*"*	*10.0*		*90.4*	*69-130*				
Surrogate: Toluene-d8	*9.99*		*"*	*10.0*		*99.9*	*81-117*				
Surrogate: p-Bromofluorobenzene	*10.5*		*"*	*10.0*		*105*	*79-122*				
LCS (BL70705-BS1)									Prepared & Analyzed: 12/15/2017		
1,1,1,2-Tetrachloroethane	10.2		ug/L	10.0		102	82-126				
1,1,1-Trichloroethane	10.9		"	10.0		109	78-136				
1,1,2,2-Tetrachloroethane	10.9		"	10.0		109	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.6		"	10.0		106	54-165				
1,1,2-Trichloroethane	10.1		"	10.0		101	82-123				
1,1-Dichloroethane	10.7		"	10.0		107	82-129				
1,1-Dichloroethylene	10.3		"	10.0		103	68-138				
1,1-Dichloropropylene	10.8		"	10.0		108	83-133				
1,2,3-Trichlorobenzene	12.5		"	10.0		125	76-136				
1,2,3-Trichloropropane	10.5		"	10.0		105	77-128				
1,2,4-Trichlorobenzene	11.3		"	10.0		113	76-137				
1,2,4-Trimethylbenzene	11.8		"	10.0		118	82-132				
1,2-Dibromo-3-chloropropane	9.56		"	10.0		95.6	45-147				
1,2-Dibromoethane	10.0		"	10.0		100	83-124				
1,2-Dichlorobenzene	10.8		"	10.0		108	79-123				
1,2-Dichloroethane	9.03		"	10.0		90.3	73-132				
1,2-Dichloropropane	10.9		"	10.0		109	78-126				
1,3,5-Trimethylbenzene	11.7		"	10.0		117	80-131				
1,3-Dichlorobenzene	11.6		"	10.0		116	86-122				
1,3-Dichloropropane	10.1		"	10.0		101	81-125				
1,4-Dichlorobenzene	11.4		"	10.0		114	85-124				
2,2-Dichloropropane	10.6		"	10.0		106	56-150				
2-Chlorotoluene	11.7		"	10.0		117	79-130				
2-Hexanone	9.49		"	10.0		94.9	51-146				
4-Chlorotoluene	11.4		"	10.0		114	79-128				
Acetone	7.88		"	10.0		78.8	14-150				
Benzene	10.9		"	10.0		109	85-126				
Bromobenzene	11.2		"	10.0		112	78-129				
Bromochloromethane	9.91		"	10.0		99.1	77-128				
Bromodichloromethane	9.86		"	10.0		98.6	79-128				
Bromoform	8.74		"	10.0		87.4	78-133				
Bromomethane	5.35		"	10.0		53.5	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 BL70705 - EPA 5030B											
LCS (BL70705-BS1)								Prepared & Analyzed: 12/15/2017			
Carbon tetrachloride	9.70		ug/L	10.0		97.0	77-141				
Chlorobenzene	10.7		"	10.0		107	88-120				
Chloroethane	9.67		"	10.0		96.7	65-136				
Chloroform	9.75		"	10.0		97.5	82-128				
Chloromethane	8.24		"	10.0		82.4	43-155				
cis-1,2-Dichloroethylene	11.0		"	10.0		110	83-129				
cis-1,3-Dichloropropylene	10.8		"	10.0		108	80-131				
Dibromochloromethane	9.42		"	10.0		94.2	80-130				
Dibromomethane	9.53		"	10.0		95.3	72-134				
Dichlorodifluoromethane	9.00		"	10.0		90.0	44-144				
Ethyl Benzene	11.1		"	10.0		111	80-131				
Hexachlorobutadiene	10.8		"	10.0		108	67-146				
Isopropylbenzene	12.4		"	10.0		124	76-140				
Methyl tert-butyl ether (MTBE)	10.1		"	10.0		101	76-135				
Methylene chloride	9.50		"	10.0		95.0	55-137				
Naphthalene	11.1		"	10.0		111	70-147				
n-Butylbenzene	11.6		"	10.0		116	79-132				
n-Propylbenzene	12.1		"	10.0		121	78-133				
o-Xylene	11.0		"	10.0		110	78-130				
p- & m- Xylenes	22.2		"	20.0		111	77-133				
p-Isopropyltoluene	12.1		"	10.0		121	81-136				
sec-Butylbenzene	12.0		"	10.0		120	79-137				
Styrene	10.9		"	10.0		109	67-132				
tert-Butylbenzene	12.1		"	10.0		121	77-138				
Tetrachloroethylene	9.65		"	10.0		96.5	82-131				
Toluene	11.0		"	10.0		110	80-127				
trans-1,2-Dichloroethylene	10.5		"	10.0		105	80-132				
trans-1,3-Dichloropropylene	10.2		"	10.0		102	78-131				
Trichloroethylene	10.6		"	10.0		106	82-128				
Trichlorofluoromethane	8.52		"	10.0		85.2	67-139				
Vinyl Chloride	9.90		"	10.0		99.0	58-145				
Surrogate: 1,2-Dichloroethane-d4	*8.41*		*"*	*10.0*		*84.1*	*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 BL70705 - EPA 5030B

LCS Dup (BL70705-BSD1) Prepared & Analyzed: 12/15/2017

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
1,1,1,2-Tetrachloroethane	10.3		ug/L	10.0		103	82-126		1.17	30	
1,1,1-Trichloroethane	10.9		"	10.0		109	78-136		0.643	30	
1,1,2,2-Tetrachloroethane	11.0		"	10.0		110	76-129		0.548	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.3		"	10.0		103	54-165		3.16	30	
1,1,2-Trichloroethane	10.6		"	10.0		106	82-123		5.60	30	
1,1-Dichloroethane	10.6		"	10.0		106	82-129		0.281	30	
1,1-Dichloroethylene	10.2		"	10.0		102	68-138		1.08	30	
1,1-Dichloropropylene	10.7		"	10.0		107	83-133		0.839	30	
1,2,3-Trichlorobenzene	12.6		"	10.0		126	76-136		0.878	30	
1,2,3-Trichloropropane	10.5		"	10.0		105	77-128		0.286	30	
1,2,4-Trichlorobenzene	11.3		"	10.0		113	76-137		0.619	30	
1,2,4-Trimethylbenzene	11.0		"	10.0		110	82-132		6.40	30	
1,2-Dibromo-3-chloropropane	10.1		"	10.0		101	45-147		5.49	30	
1,2-Dibromoethane	10.3		"	10.0		103	83-124		2.75	30	
1,2-Dichlorobenzene	10.4		"	10.0		104	79-123		3.02	30	
1,2-Dichloroethane	10.3		"	10.0		103	73-132		12.8	30	
1,2-Dichloropropane	10.8		"	10.0		108	78-126		1.01	30	
1,3,5-Trimethylbenzene	11.0		"	10.0		110	80-131		6.88	30	
1,3-Dichlorobenzene	11.1		"	10.0		111	86-122		4.24	30	
1,3-Dichloropropane	10.5		"	10.0		105	81-125		3.40	30	
1,4-Dichlorobenzene	11.2		"	10.0		112	85-124		2.57	30	
2,2-Dichloropropane	10.3		"	10.0		103	56-150		2.01	30	
2-Chlorotoluene	10.9		"	10.0		109	79-130		6.64	30	
2-Hexanone	11.2		"	10.0		112	51-146		16.7	30	
4-Chlorotoluene	10.6		"	10.0		106	79-128		6.98	30	
Acetone	10.7		"	10.0		107	14-150		30.7	30	Non-dir.
Benzene	11.0		"	10.0		110	85-126		0.639	30	
Bromobenzene	10.8		"	10.0		108	78-129		3.55	30	
Bromochloromethane	10.3		"	10.0		103	77-128		3.57	30	
Bromodichloromethane	9.86		"	10.0		98.6	79-128		0.00	30	
Bromoform	9.43		"	10.0		94.3	78-133		7.59	30	
Bromomethane	5.71		"	10.0		57.1	43-168		6.51	30	
Carbon tetrachloride	9.68		"	10.0		96.8	77-141		0.206	30	
Chlorobenzene	10.6		"	10.0		106	88-120		1.13	30	
Chloroethane	9.48		"	10.0		94.8	65-136		1.98	30	
Chloroform	10.1		"	10.0		101	82-128		3.13	30	
Chloromethane	8.19		"	10.0		81.9	43-155		0.609	30	
cis-1,2-Dichloroethylene	11.2		"	10.0		112	83-129		1.17	30	
cis-1,3-Dichloropropylene	10.9		"	10.0		109	80-131		1.02	30	
Dibromochloromethane	9.81		"	10.0		98.1	80-130		4.06	30	
Dibromomethane	9.87		"	10.0		98.7	72-134		3.51	30	
Dichlorodifluoromethane	8.84		"	10.0		88.4	44-144		1.79	30	
Ethyl Benzene	10.8		"	10.0		108	80-131		2.46	30	
Hexachlorobutadiene	10.2		"	10.0		102	67-146		6.18	30	
Isopropylbenzene	11.5		"	10.0		115	76-140		7.70	30	
Methyl tert-butyl ether (MTBE)	10.9		"	10.0		109	76-135		7.89	30	
Methylene chloride	9.63		"	10.0		96.3	55-137		1.36	30	
Naphthalene	11.7		"	10.0		117	70-147		5.10	30	
n-Butylbenzene	10.6		"	10.0		106	79-132		8.29	30	
n-Propylbenzene	11.2		"	10.0		112	78-133		8.06	30	
o-Xylene	10.8		"	10.0		108	78-130		1.56	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 BL70705 - EPA 5030B											
LCS Dup (BL70705-BSD1)								Prepared & Analyzed: 12/15/2017			
p- & m- Xylenes	21.7		ug/L	20.0		108	77-133		2.42	30	
p-Isopropyltoluene	11.2		"	10.0		112	81-136		7.39	30	
sec-Butylbenzene	11.1		"	10.0		111	79-137		7.88	30	
Styrene	10.9		"	10.0		109	67-132		0.458	30	
tert-Butylbenzene	11.3		"	10.0		113	77-138		6.84	30	
Tetrachloroethylene	11.1		"	10.0		111	82-131		14.1	30	
Toluene	10.8		"	10.0		108	80-127		2.29	30	
trans-1,2-Dichloroethylene	10.4		"	10.0		104	80-132		1.53	30	
trans-1,3-Dichloropropylene	10.5		"	10.0		105	78-131		2.71	30	
Trichloroethylene	10.4		"	10.0		104	82-128		2.09	30	
Trichlorofluoromethane	8.24		"	10.0		82.4	67-139		3.34	30	
Vinyl Chloride	9.68		"	10.0		96.8	58-145		2.25	30	
Surrogate: 1,2-Dichloroethane-d4	*9.18*		*"*	*10.0*		*91.8*	*69-130*				
Surrogate: Toluene-d8	*10.0*		*"*	*10.0*		*100*	*81-117*				
Surrogate: p-Bromofluorobenzene	*10.3*		*"*	*10.0*		*103*	*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 BL70582 - EPA 3015A											
Blank (BL70582-BLK1)									Prepared: 12/13/2017 Analyzed: 12/14/2017		
Iron - Dissolved	ND	0.0222	mg/L								
Reference (BL70582-SRM1)									Prepared: 12/13/2017 Analyzed: 12/14/2017		
Iron - Dissolved	1.36		ug/mL	1.40		97.5	84.9-115				
Batch BL70656 - EPA 200.7											
Blank (BL70656-BLK1)									Prepared & Analyzed: 12/14/2017		
Iron	ND	0.0222	mg/L								
Reference (BL70656-SRM1)									Prepared & Analyzed: 12/14/2017		
Iron	1.27		ug/mL	1.40		91.0	84.9-115				

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 BL70548 - % Solids Prep											
Blank (BL70548-BLK1)											Prepared & Analyzed: 12/13/2017
Total Dissolved Solids	ND	10.0	mg/L								

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
17L0371-01	WQ120517:1400 NP2-6	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
17L0373-01	WQ120417:1405 NP2-10	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
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.
HT-01	This result was reported from an analysis conducted outside of the EPA recommended holding time.

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

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. 17L0371

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type
Company: LBG	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.**	RUSH - Next Day ☐	Summary w/ QA Summary X, pdf
Phone No. 203-929-8555	Phone No.	Phone No.	NABSA6.	RUSH - Two Day ☐	CT RCP Package
Contact Person: Tunde Sandor	Attention:	Attention:		RUSH - Three Day ☐	CTRCP DQA/DUE Pkg
E-Mail Address: TSandor@LBGCT.com	E-Mail Address:	E-Mail Address:	Samples from: CT __ NY X NJ __	RUSH - Four Day ☐	NY ASP A Package
				Standard (5-7 Days) ☒	NY ASP B Package NP2-10 only, pdf.
					NJDEP Red. 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): [signature]

Name (printed): Evan Foster

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	Misc.
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part360-Routine	Heterotrophs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part360-Baseline	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part360-Expanded	BTU/lb.
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part360-Expanded	Aquatic Tox.
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Electronic Data Deliverables (EDD)
Simple Excel X
NYSDEC EQuIS
EQuIS (std)
EZ-EDD (EQuIS)
NJDEP SRP HazSite EDD
GIS/KEY (std)
Other
York Regulatory Comparison
Excel Spreadsheet
Compare to the following Regs. (please fill in):

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
WG120517:1400 NP2-16	12-5-17	GW	[redacted] / VOCs, 8260 List (EPA SW845-8260B) plus freon 113	3 voa's
[redacted]		[redacted]	[redacted]	
WG120517:1405 NP2-10	12-5-17	GW	Fe by EPA 200.7 / Fe, Dissolved by EPA 6010 (SW846-6010B) / VOCs 8260 List (EPA SW845-8260B) plus freon 113 / TDS (SM 2540C)	3 voa, 3 plastic

Comments

Preservation (Check those Applicable): 4°C ✓ Frozen __ HCl ✓ MeOH __ HNO3 ✓ H2SO4 __ NaOH __ ZnAc __ Ascorbic Acid __ Other __

Special Instructions
Field Filtered ☐
Lab to Filter ☐

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
[signature]	12-6-17 800	LBG Fridge	12-6-17 800
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time
		[signature]	12/11/17 1431

Temperature on Receipt: 3.9 °C

Rec'd [initials] 12/11/17 13:02

(system)

YORK
ANALYTICAL LABORATORIES, INC.

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. 17L0373

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type
Company: LBG	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. HABSAG.	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:	Attention:		RUSH - Three Day ☐	CTRCP DQA/DUE Pkg
E-Mail Address. TSandor@LBGCT.com	E-Mail Address	E-Mail Address:	Samples from: CT NY X NJ	RUSH - Four Day ☐	NY ASP A Package
				Standard(5-7 Days) [X]	NY ASP B Package NY2-10 only .pdf.
					NJDEP Red. Deliv.
					Electronic Data Deliverables (EDD)
					Simple Excel X
					NYSDEC EQuIS
					EQuIS (std)
					EZ-EDD (EQuIS)
					NJDEP SRP HazSite EDD
					GIS/KEY (std)
					Other
					York Regulatory Comparison
					Excel Spreadsheet
					Compare to the following Regs. (please fill in):

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)

Tunde Sandor
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	Misc.
8260 full	TICs	8270 or 625	8082PCB	RCRAR	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec	STARS list	8081Pest	FP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full Appx IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part360-Routine	Hexavalents
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part360-Routine	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part360-Routine	BTU/lb.
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part360-Routine	Aquatic Tox.
Haleg. only	NJDEP list	App. IX	Chlordane	Target Metals	Air TICs	NYSDEP Sewer	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
LBG120517.1400 MP2-36	12-5-17	GW	[redacted] TVOCs, 8260 List (EPA SW846-8260B) plus Freon 113	3 VOA's
LBG120517.1405 MP2-10	12-5-17	GW	Fe by EPA 200.7 / Fe, Dissolved by EPA 6010 (SW846-6010B) / VOCs 8260 List (EPA SW846-8260A), plus Freon 113 / TDS (SM 2540C)	3 VOA, 3 plastic

Comments

Preservation Check those Applicable
Special Instructions
Field Filtered ☐
Lab to Filter ☐

4°C ✓ Frozen ___ HCl ✓ MeOH ___ HNO3 ✓ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other ___

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
[signature]	12677 800	LBG Fedex	12677 800
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time
		[signature]	12/11/17 1431

Temperature on Receipt 3.9 °C

Rec'd 1A 12/11/17 (3:02

(sgs.com)

APPENDIX II
DECEMBER 2017 LABORATORY ANALYTICAL REPORTS
FOR FSP&T AND FP&T RECOVERY WELLS

Technical Report

prepared for:

Leggette Brashears & Graham Shelton Office
4 Research Drive, Suite 204
Shelton CT, 06484
Attention: Tunde Komuves-Sandor

Report Date: 12/18/2017
Client Project ID: Rowe Industries
York Project (SDG) No.: 17L0372

Report Date: 12/18/2017
Client Project ID: Rowe Industries
York Project (SDG) No.: 17L0372

Leggette Brashears & Graham Shelton Office
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 December 11, 2017 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.

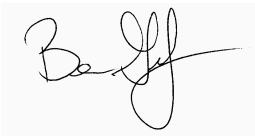
The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

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
17L0372-01	WQ120517:1300 FRW-1	Water	12/05/2017	12/11/2017
17L0372-02	WQ120517:1305 FRW-2	Water	12/05/2017	12/11/2017
17L0372-03	WQ120517:1310 FRW-3	Water	12/05/2017	12/11/2017
17L0372-04	WQ120517:1315 FRW-4	Water	12/05/2017	12/11/2017
17L0372-05	WQ120517:1320 NP1-1-2	Water	12/05/2017	12/11/2017

General Notes for York Project (SDG) No.: 17L0372

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: 12/18/2017

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: WQ120517:1300 FRW-1 **York Sample ID:** 17L0372-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17L0372	Rowe Industries	Water	December 5, 2017 1:00 pm	12/11/2017

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	12/13/2017 16:00	12/16/2017 00:24	AS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP		
71-55-6	**1,1,1-Trichloroethane**	**0.40**	J	ug/L	0.20	0.50	1	EPA 8260C	12/13/2017 16:00	12/16/2017 00:24	AS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	12/13/2017 16:00	12/16/2017 00:24	AS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	12/13/2017 16:00	12/16/2017 00:24	AS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	12/13/2017 16:00	12/16/2017 00:24	AS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	12/13/2017 16:00	12/16/2017 00:24	AS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	12/13/2017 16:00	12/16/2017 00:24	AS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP		
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	12/13/2017 16:00	12/16/2017 00:24	AS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY12058		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	12/13/2017 16:00	12/16/2017 00:24	AS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	12/13/2017 16:00	12/16/2017 00:24	AS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	12/13/2017 16:00	12/16/2017 00:24	AS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	12/13/2017 16:00	12/16/2017 00:24	AS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	12/13/2017 16:00	12/16/2017 00:24	AS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	12/13/2017 16:00	12/16/2017 00:24	AS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	12/13/2017 16:00	12/16/2017 00:24	AS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	12/13/2017 16:00	12/16/2017 00:24	AS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	12/13/2017 16:00	12/16/2017 00:24	AS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	12/13/2017 16:00	12/16/2017 00:24	AS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	12/13/2017 16:00	12/16/2017 00:24	AS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP		
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	12/13/2017 16:00	12/16/2017 00:24	AS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	12/13/2017 16:00	12/16/2017 00:24	AS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP		
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	12/13/2017 16:00	12/16/2017 00:24	AS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP		

Sample Information

Client Sample ID: WQ120517:1300 FRW-1 **York Sample ID:** 17L0372-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17L0372	Rowe Industries	Water	December 5, 2017 1:00 pm	12/11/2017

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:	12/13/2017 16:00 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:24	AS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:24	AS
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:24	AS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	12/13/2017 16:00 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:24	AS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:24	AS
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:24	AS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:24	AS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:24	AS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:24	AS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:24	AS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:24	AS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:24	AS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:24	AS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:24	AS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:24	AS
156-59-2	**cis-1,2-Dichloroethylene**	**3.4**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:24	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:24	AS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:24	AS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:24	AS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:24	AS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:24	AS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:24	AS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:24	AS

Sample Information

Client Sample ID: WQ120517:1300 FRW-1 **York Sample ID:** 17L0372-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17L0372	Rowe Industries	Water	December 5, 2017 1:00 pm	12/11/2017

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:	12/13/2017 16:00	12/16/2017 00:24 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:24 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:24 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:24 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:24 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:24 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	AS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:24 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	AS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:24 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:24 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:24 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:24 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
127-18-4	**Tetrachloroethylene**	**55**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:24 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:24 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:24 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:24 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
79-01-6	**Trichloroethylene**	**1.5**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:24 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:24 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:24 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:24 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058	AS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*106 %*	*69-130*
2037-26-5	*Surrogate: Toluene-d8*	*102 %*	*81-117*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*106 %*	*79-122*

Sample Information

Client Sample ID: WQ120517:1305 FRW-2 **York Sample ID:** 17L0372-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17L0372	Rowe Industries	Water	December 5, 2017 1:05 pm	12/11/2017

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:	12/13/2017 16:00	12/16/2017 00:51 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:51 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:51 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:51 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:51 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:51 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:51 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:51 NELAC-NY10854,NJDEP,NELAC-NY12058	AS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:51 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:51 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:51 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:51 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:51 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:51 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:51 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:51 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:51 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:51 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:51 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:51 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:51 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:51 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:51 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS

Sample Information

Client Sample ID: WQ120517:1305 FRW-2 **York Sample ID:** 17L0372-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17L0372	Rowe Industries	Water	December 5, 2017 1:05 pm	12/11/2017

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:	12/13/2017 16:00 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:51	AS
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:51	AS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	12/13/2017 16:00 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:51	AS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:51	AS
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:51	AS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:51	AS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:51	AS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:51	AS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:51	AS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:51	AS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:51	AS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:51	AS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:51	AS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:51	AS
156-59-2	**cis-1,2-Dichloroethylene**	**1.6**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:51	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:51	AS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:51	AS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:51	AS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:51	AS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:51	AS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:51	AS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:51	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	12/16/2017 00:51	AS

Sample Information

Client Sample ID: WQ120517:1305 FRW-2 **York Sample ID:** 17L0372-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17L0372	Rowe Industries	Water	December 5, 2017 1:05 pm	12/11/2017

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:	12/13/2017 16:00	12/16/2017 00:51	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:51	AS NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:51	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:51	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:51	AS CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:51	AS CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:51	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:51	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:51	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:51	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
127-18-4	**Tetrachloroethylene**	**38**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:51	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:51	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:51	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:51	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
79-01-6	**Trichloroethylene**	**3.4**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:51	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:51	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:51	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 00:51	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*110 %*	*69-130*
2037-26-5	*Surrogate: Toluene-d8*	*104 %*	*81-117*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*103 %*	*79-122*

Sample Information

Client Sample ID: WQ120517:1310 FRW-3 **York Sample ID:** 17L0372-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17L0372	Rowe Industries	Water	December 5, 2017 1:10 pm	12/11/2017

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:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 NELAC-NY10854,NJDEP,NELAC-NY12058	AS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS

Sample Information

Client Sample ID: WQ120517:1310 FRW-3 **York Sample ID:** 17L0372-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17L0372	Rowe Industries	Water	December 5, 2017 1:10 pm	12/11/2017

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:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
156-59-2	**cis-1,2-Dichloroethylene**	**2.3**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
98-82-8	**Isopropylbenzene**	**0.37**	J	ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS

Sample Information

Client Sample ID: WQ120517:1310 FRW-3 **York Sample ID:** 17L0372-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17L0372	Rowe Industries	Water	December 5, 2017 1:10 pm	12/11/2017

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:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
103-65-1	**n-Propylbenzene**	**0.33**	J	ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	AS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	AS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
127-18-4	**Tetrachloroethylene**	**37**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
79-01-6	**Trichloroethylene**	**1.8**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:17 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058	AS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*116 %*	*69-130*
2037-26-5	*Surrogate: Toluene-d8*	*104 %*	*81-117*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*109 %*	*79-122*

Sample Information

Client Sample ID: WQ120517:1315 FRW-4 **York Sample ID:** 17L0372-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17L0372	Rowe Industries	Water	December 5, 2017 1:15 pm	12/11/2017

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:	12/13/2017 16:00	12/16/2017 01:43 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43 NELAC-NY10854,NJDEP,NELAC-NY12058	AS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS

Sample Information

Client Sample ID: WQ120517:1315 FRW-4 **York Sample ID:** 17L0372-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17L0372	Rowe Industries	Water	December 5, 2017 1:15 pm	12/11/2017

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:	12/13/2017 16:00	12/16/2017 01:43	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43	AS NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43	AS NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
156-59-2	**cis-1,2-Dichloroethylene**	**1.0**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43	AS NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43	AS NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43	AS NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP

Sample Information

Client Sample ID: WQ120517:1315 FRW-4 **York Sample ID:** 17L0372-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17L0372	Rowe Industries	Water	December 5, 2017 1:15 pm	12/11/2017

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:	12/13/2017 16:00	12/16/2017 01:43	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43	AS NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43	AS CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43	AS CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
127-18-4	**Tetrachloroethylene**	**5.1**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 01:43	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*106 %*	*69-130*
2037-26-5	*Surrogate: Toluene-d8*	*102 %*	*81-117*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*106 %*	*79-122*

Sample Information

Client Sample ID: WQ120517:1320 NP1-1-2 **York Sample ID:** 17L0372-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17L0372	Rowe Industries	Water	December 5, 2017 1:20 pm	12/11/2017

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:	12/13/2017 16:00	12/16/2017 02:10 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10 NELAC-NY10854,NJDEP,NELAC-NY12058	AS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10 NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP	AS

Sample Information

Client Sample ID: WQ120517:1320 NP1-1-2 **York Sample ID:** 17L0372-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17L0372	Rowe Industries	Water	December 5, 2017 1:20 pm	12/11/2017

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:	12/13/2017 16:00	12/16/2017 02:10	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10	AS NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10	AS NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10	AS NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10	AS NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10	AS NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP

Sample Information

Client Sample ID: WQ120517:1320 NP1-1-2 **York Sample ID:** 17L0372-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17L0372	Rowe Industries	Water	December 5, 2017 1:20 pm	12/11/2017

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:	12/13/2017 16:00	12/16/2017 02:10	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10	AS NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10	AS CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10	AS CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
127-18-4	**Tetrachloroethylene**	**0.27**	J	ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
79-01-6	**Trichloroethylene**	**0.42**	J	ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058,PADEP
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications:	12/13/2017 16:00	12/16/2017 02:10	AS CTDOH,NELAC-NY10854,NJDEP,NELAC-NY12058

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*115 %*	*69-130*
2037-26-5	*Surrogate: Toluene-d8*	*102 %*	*81-117*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*104 %*	*79-122*

Analytical Batch Summary

Batch ID: BL70588 **Preparation Method:** EPA 5030B **Prepared By:** AS

YORK Sample ID	Client Sample ID	Preparation Date
17L0372-01	WQ120517:1300 FRW-1	12/13/17
17L0372-02	WQ120517:1305 FRW-2	12/13/17
17L0372-03	WQ120517:1310 FRW-3	12/13/17
17L0372-04	WQ120517:1315 FRW-4	12/13/17
17L0372-05	WQ120517:1320 NP1-1-2	12/13/17
BL70588-BLK1	Blank	12/13/17
BL70588-BS1	LCS	12/13/17
BL70588-BSD1	LCS Dup	12/13/17

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 BL70588 - EPA 5030B											
Blank (BL70588-BLK1)											
Prepared: 12/13/2017 Analyzed: 12/15/2017											
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	"								

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL70588 - EPA 5030B											
Blank (BL70588-BLK1)								Prepared: 12/13/2017 Analyzed: 12/15/2017			
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	*11.9*		*"*	*10.0*		*119*	*69-130*				
Surrogate: Toluene-d8	*10.1*		*"*	*10.0*		*101*	*81-117*				
Surrogate: p-Bromofluorobenzene	*10.0*		*"*	*10.0*		*100*	*79-122*				
LCS (BL70588-BS1)								Prepared: 12/13/2017 Analyzed: 12/15/2017			
1,1,1,2-Tetrachloroethane	8.37		ug/L	10.0		83.7	82-126				
1,1,1-Trichloroethane	8.48		"	10.0		84.8	78-136				
1,1,2,2-Tetrachloroethane	9.03		"	10.0		90.3	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	7.92		"	10.0		79.2	54-165				
1,1,2-Trichloroethane	8.47		"	10.0		84.7	82-123				
1,1-Dichloroethane	8.76		"	10.0		87.6	82-129				
1,1-Dichloroethylene	7.75		"	10.0		77.5	68-138				
1,1-Dichloropropylene	8.50		"	10.0		85.0	83-133				
1,2,3-Trichlorobenzene	8.39		"	10.0		83.9	76-136				
1,2,3-Trichloropropane	8.68		"	10.0		86.8	77-128				
1,2,4-Trichlorobenzene	8.29		"	10.0		82.9	76-137				
1,2,4-Trimethylbenzene	9.27		"	10.0		92.7	82-132				
1,2-Dibromo-3-chloropropane	9.20		"	10.0		92.0	45-147				
1,2-Dibromoethane	8.21		"	10.0		82.1	83-124	Low Bias			
1,2-Dichlorobenzene	8.76		"	10.0		87.6	79-123				
1,2-Dichloroethane	8.19		"	10.0		81.9	73-132				
1,2-Dichloropropane	8.93		"	10.0		89.3	78-126				
1,3,5-Trimethylbenzene	9.57		"	10.0		95.7	80-131				
1,3-Dichlorobenzene	8.99		"	10.0		89.9	86-122				
1,3-Dichloropropane	8.56		"	10.0		85.6	81-125				
1,4-Dichlorobenzene	9.15		"	10.0		91.5	85-124				
2,2-Dichloropropane	5.44		"	10.0		54.4	56-150	Low Bias			
2-Chlorotoluene	9.37		"	10.0		93.7	79-130				
2-Hexanone	8.28		"	10.0		82.8	51-146				
4-Chlorotoluene	9.36		"	10.0		93.6	79-128				
Acetone	3.62		"	10.0		36.2	14-150				
Benzene	8.75		"	10.0		87.5	85-126				
Bromobenzene	9.06		"	10.0		90.6	78-129				
Bromochloromethane	8.82		"	10.0		88.2	77-128				
Bromodichloromethane	8.70		"	10.0		87.0	79-128				
Bromoform	7.95		"	10.0		79.5	78-133				
Bromomethane	8.50		"	10.0		85.0	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 BL70588 - EPA 5030B											
LCS (BL70588-BS1)								Prepared: 12/13/2017 Analyzed: 12/15/2017			
Carbon tetrachloride	8.29		ug/L	10.0		82.9	77-141				
Chlorobenzene	8.73		"	10.0		87.3	88-120	Low Bias			
Chloroethane	8.17		"	10.0		81.7	65-136				
Chloroform	8.59		"	10.0		85.9	82-128				
Chloromethane	7.91		"	10.0		79.1	43-155				
cis-1,2-Dichloroethylene	8.12		"	10.0		81.2	83-129	Low Bias			
cis-1,3-Dichloropropylene	7.74		"	10.0		77.4	80-131	Low Bias			
Dibromochloromethane	8.22		"	10.0		82.2	80-130				
Dibromomethane	8.78		"	10.0		87.8	72-134				
Dichlorodifluoromethane	7.22		"	10.0		72.2	44-144				
Ethyl Benzene	8.98		"	10.0		89.8	80-131				
Hexachlorobutadiene	9.01		"	10.0		90.1	67-146				
Isopropylbenzene	9.71		"	10.0		97.1	76-140				
Methyl tert-butyl ether (MTBE)	8.45		"	10.0		84.5	76-135				
Methylene chloride	7.51		"	10.0		75.1	55-137				
Naphthalene	7.58		"	10.0		75.8	70-147				
n-Butylbenzene	10.1		"	10.0		101	79-132				
n-Propylbenzene	9.72		"	10.0		97.2	78-133				
o-Xylene	8.74		"	10.0		87.4	78-130				
p- & m- Xylenes	18.1		"	20.0		90.6	77-133				
p-Isopropyltoluene	9.89		"	10.0		98.9	81-136				
sec-Butylbenzene	9.96		"	10.0		99.6	79-137				
Styrene	8.59		"	10.0		85.9	67-132				
tert-Butylbenzene	10.0		"	10.0		100	77-138				
Tetrachloroethylene	9.41		"	10.0		94.1	82-131				
Toluene	8.72		"	10.0		87.2	80-127				
trans-1,2-Dichloroethylene	8.68		"	10.0		86.8	80-132				
trans-1,3-Dichloropropylene	8.01		"	10.0		80.1	78-131				
Trichloroethylene	8.93		"	10.0		89.3	82-128				
Trichlorofluoromethane	8.11		"	10.0		81.1	67-139				
Vinyl Chloride	7.88		"	10.0		78.8	58-145				
Surrogate: 1,2-Dichloroethane-d4	*9.57*		*"*	*10.0*		*95.7*	*69-130*				
Surrogate: Toluene-d8	*10.4*		*"*	*10.0*		*104*	*81-117*				
Surrogate: p-Bromofluorobenzene	*11.0*		*"*	*10.0*		*110*	*79-122*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL70588 - EPA 5030B											
LCS Dup (BL70588-BSD1)								Prepared: 12/13/2017 Analyzed: 12/15/2017			
1,1,1,2-Tetrachloroethane	8.38		ug/L	10.0		83.8	82-126		0.119	30	
1,1,1-Trichloroethane	8.88		"	10.0		88.8	78-136		4.61	30	
1,1,2,2-Tetrachloroethane	8.67		"	10.0		86.7	76-129		4.07	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.12		"	10.0		91.2	54-165		14.1	30	
1,1,2-Trichloroethane	8.43		"	10.0		84.3	82-123		0.473	30	
1,1-Dichloroethane	8.55		"	10.0		85.5	82-129		2.43	30	
1,1-Dichloroethylene	8.63		"	10.0		86.3	68-138		10.7	30	
1,1-Dichloropropylene	8.58		"	10.0		85.8	83-133		0.937	30	
1,2,3-Trichlorobenzene	9.53		"	10.0		95.3	76-136		12.7	30	
1,2,3-Trichloropropane	8.78		"	10.0		87.8	77-128		1.15	30	
1,2,4-Trichlorobenzene	9.40		"	10.0		94.0	76-137		12.5	30	
1,2,4-Trimethylbenzene	9.12		"	10.0		91.2	82-132		1.63	30	
1,2-Dibromo-3-chloropropane	8.90		"	10.0		89.0	45-147		3.31	30	
1,2-Dibromoethane	8.37		"	10.0		83.7	83-124		1.93	30	
1,2-Dichlorobenzene	9.02		"	10.0		90.2	79-123		2.92	30	
1,2-Dichloroethane	8.73		"	10.0		87.3	73-132		6.38	30	
1,2-Dichloropropane	7.86		"	10.0		78.6	78-126		12.7	30	
1,3,5-Trimethylbenzene	9.49		"	10.0		94.9	80-131		0.839	30	
1,3-Dichlorobenzene	8.83		"	10.0		88.3	86-122		1.80	30	
1,3-Dichloropropane	8.32		"	10.0		83.2	81-125		2.84	30	
1,4-Dichlorobenzene	8.87		"	10.0		88.7	85-124		3.11	30	
2,2-Dichloropropane	5.39		"	10.0		53.9	56-150	Low Bias	0.923	30	
2-Chlorotoluene	9.04		"	10.0		90.4	79-130		3.59	30	
2-Hexanone	7.92		"	10.0		79.2	51-146		4.44	30	
4-Chlorotoluene	9.08		"	10.0		90.8	79-128		3.04	30	
Acetone	5.78		"	10.0		57.8	14-150		46.0	30	Non-dir.
Benzene	8.57		"	10.0		85.7	85-126		2.08	30	
Bromobenzene	8.82		"	10.0		88.2	78-129		2.68	30	
Bromochloromethane	8.05		"	10.0		80.5	77-128		9.13	30	
Bromodichloromethane	8.59		"	10.0		85.9	79-128		1.27	30	
Bromoform	8.64		"	10.0		86.4	78-133		8.32	30	
Bromomethane	9.24		"	10.0		92.4	43-168		8.34	30	
Carbon tetrachloride	9.07		"	10.0		90.7	77-141		8.99	30	
Chlorobenzene	8.59		"	10.0		85.9	88-120	Low Bias	1.62	30	
Chloroethane	8.84		"	10.0		88.4	65-136		7.88	30	
Chloroform	8.87		"	10.0		88.7	82-128		3.21	30	
Chloromethane	9.11		"	10.0		91.1	43-155		14.1	30	
cis-1,2-Dichloroethylene	8.11		"	10.0		81.1	83-129	Low Bias	0.123	30	
cis-1,3-Dichloropropylene	7.70		"	10.0		77.0	80-131	Low Bias	0.518	30	
Dibromochloromethane	8.55		"	10.0		85.5	80-130		3.94	30	
Dibromomethane	8.51		"	10.0		85.1	72-134		3.12	30	
Dichlorodifluoromethane	7.94		"	10.0		79.4	44-144		9.50	30	
Ethyl Benzene	8.76		"	10.0		87.6	80-131		2.48	30	
Hexachlorobutadiene	9.89		"	10.0		98.9	67-146		9.31	30	
Isopropylbenzene	9.50		"	10.0		95.0	76-140		2.19	30	
Methyl tert-butyl ether (MTBE)	8.64		"	10.0		86.4	76-135		2.22	30	
Methylene chloride	8.18		"	10.0		81.8	55-137		8.54	30	
Naphthalene	8.62		"	10.0		86.2	70-147		12.8	30	
n-Butylbenzene	9.95		"	10.0		99.5	79-132		1.89	30	
n-Propylbenzene	9.55		"	10.0		95.5	78-133		1.76	30	
o-Xylene	8.74		"	10.0		87.4	78-130		0.00	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 BL70588 - EPA 5030B											
LCS Dup (BL70588-BSD1)									Prepared: 12/13/2017 Analyzed: 12/15/2017		
p- & m- Xylenes	17.8		ug/L	20.0		89.0	77-133		1.89	30	
p-Isopropyltoluene	9.65		"	10.0		96.5	81-136		2.46	30	
sec-Butylbenzene	9.93		"	10.0		99.3	79-137		0.302	30	
Styrene	8.61		"	10.0		86.1	67-132		0.233	30	
tert-Butylbenzene	9.90		"	10.0		99.0	77-138		1.20	30	
Tetrachloroethylene	9.51		"	10.0		95.1	82-131		1.06	30	
Toluene	8.63		"	10.0		86.3	80-127		1.04	30	
trans-1,2-Dichloroethylene	8.47		"	10.0		84.7	80-132		2.45	30	
trans-1,3-Dichloropropylene	7.89		"	10.0		78.9	78-131		1.51	30	
Trichloroethylene	8.29		"	10.0		82.9	82-128		7.43	30	
Trichlorofluoromethane	9.02		"	10.0		90.2	67-139		10.6	30	
Vinyl Chloride	8.99		"	10.0		89.9	58-145		13.2	30	
Surrogate: 1,2-Dichloroethane-d4	*10.3*		*"*	*10.0*		*103*	*69-130*				
Surrogate: Toluene-d8	*10.4*		*"*	*10.0*		*104*	*81-117*				
Surrogate: p-Bromofluorobenzene	*10.9*		*"*	*10.0*		*109*	*79-122*				

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
17L0372-01	WQ120517:1300 FRW-1	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
17L0372-02	WQ120517:1305 FRW-2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
17L0372-03	WQ120517:1310 FRW-3	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
17L0372-04	WQ120517:1315 FRW-4	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
17L0372-05	WQ120517:1320 NP1-1-2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

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.
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.

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

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. 17L0372

YOUR Information
Company: LBG
Address: 4 Research Dr, Suite 301 Shelton, CT 06484
Phone No. 203-929-8555
Contact Person: Tunde Sandor
E-Mail Address: TSandor@LBGCT.com

Report To:
Company: Same
Address:
Phone No.
Attention:
E-Mail Address:

Invoice To:
Company: Same
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID
Rowe Industries.

Purchase Order No.
NABSAG

Samples from: CT ___ NY X NJ ___

Turn-Around Time
- RUSH - Same Day ☐
- RUSH - Next Day ☐
- RUSH - Two Day ☐
- RUSH - Three Day ☐
- RUSH - Four Day ☐
- Standard(5-7 Days) ☒

Report Type
- Summary Report X, pdf
- Summary w/ QA Summary X, pdf
- CT RCP Package
- CTRCP DQA/DUE Pkg
- NY ASP A Package
- NY ASP B Package X, pdf
- NJDEP Red. Deliv.

Electronic Data Deliverables (EDD)
- Simple Excel X
- NYSDEC EQuIS
- EQuIS (std)
- EZ-EDD (EQuIS)
- NJDEP SRP HazSite EDD
- GIS/KEY (std)
- Other
- York Regulatory Comparison
- Excel Spreadsheet

Compare to the following Regs. (please fill in):

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	Misc.
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part360-Routine	Heterotrophs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part360-Baseline	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Expanded No Dioxin/Furans	BTU/lb.
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-Expanded Full List	Aquatic Tox.
Halog.only	NJDEP list	App. IX	Chlordane	Indiv.Metals	Air TICs	NYCDEP Sewer	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
WQ120517:1300 FRW-1	12-5-17	GW	VOC 8260 full list (EPA SW846-8260B) plus freon 113	3 voas
1305 FRW-2				
1310 FRW-3				
1315 FRW-4				
1320 NPI-1-2				

Comments

Preservation Check those Applicable
4°C X Frozen ___ HCl ✓ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other ___

Special Instructions
Field Filtered ☐
Lab to Filter ☐

Samples Relinquished By — Date/Time: 12-6-17 8:00
Samples Relinquished By — Date/Time:

Samples Received By: LBG Fridge — Date/Time: 12-6-17 8:00
Samples Received in LAB by: RG 12/11/17 — Date/Time: 1431

Temperature on Receipt 3.9 °C

Rec'd 12/14/17 1302

(RW & FRW)

APPENDIX III

CALCULATION TO ESTIMATE MASS OF PCE DISCHARGED FROM THE RELEASE ON DECEMBER 6, 2017

APPENDIX III

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

Estimated Mass of PCE Discharged during Leak Documented on December 6, 2017

Date and Time when on-site tenant heard loud "popping" sound from FP&T trailer	Date and Time Leak (and FP&T system) stopped	Time Elapsed (minutes)	Estimated Avg. Flow Rate for FRW-1 (gpm)[1/]	Estimated Volume of Water Discharged (gal.)	PCE Conc. In FRW-1 on 12/5/17 (ug/L)	Estimated Mass of PCE that may have been discharged (g) [2/]
12/6/17 10:20 AM	12/6/17 11:50 AM	90	0.14	13	55	0.003

Notes:

1. The pump in FRW-1 cycles; therefore, the average flow rate was computed by taking the average of eight manual measurements of pump cycling (i.e. measuring the time the pump is on and off) and the volume of water pumped during each cycle. The eight manual measurements were recorded on September 1, and December 12, 2017. These measurements were used in the "Estimated Avg. Flow Rate for FRW-1" column.

2. Pursuant to 6 CRR-NY 597.3 (List of Hazrdous Substances), the reportable quantity (RQ) for tetrachloroethylene (PCE) released on land or water is one pound (453.6 g); therefore, the estimated amount of PCE discharged during this event is considered de-minimus. The previous O&M site visit conducted by WSP (formerly LBGHES) staff was December 5, 2017.