PROJECT STATUS MEMORANDUM

TO: Pamela Tames, USEPA

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

SUBJECT: Rowe Industries Superfund Site
NYS Site ID No. 152106
Groundwater Recovery and Treatment System
DRAFT July 2018 Status Report

DATE: December 7, 2018

WSP USA (WSP) commenced operation of the Full-Scale Pump and Treat (FSP&T) groundwater remediation system at the above-referenced site on December 17, 2002. Starting in September 2008, the groundwater recovered by the Focus Pump and Treat (FP&T) system was routed to the FSP&T system for treatment. As of 2014, the FSP&T system only treats water extracted from RW-2 and FRW-1, 2, 3 and 4; the other FSP&T recovery wells (RW-1, 3, 4, 5, 6, 7, 8, and 9) have been shut down with USEPA approval after achieving remediation standards. This status report presents a summary of performance, operation and maintenance for both systems and monitoring activities for the site from July 1, 2018 through July 31, 2018. The report includes a summary of system performance parameters, system operation parameters, and analytical results for groundwater, system effluent samples, and air quality results.

SUMMARY OF SYSTEM PERFORMANCE AND OPERATION

(July 1, 2018 through July 31, 2018)

1. Hours of operation during the reporting period:	39 hours (5.2%)
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:	62,208 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:	229.4 pounds
(calculations can be provided upon request)	

*As previously stated in the June 2018 monthly report, a loss of signal for groundwater flow occurred from RW-2 on June 29, 2018 and this issue was not discovered until the O&M data was reviewed on July 5, 2018. Therefore, the volume of water reported above is estimated based on the average flow from RW-2 in June (27 gpm) and the estimated time RW-2 operated on July 1 and July 2, 2018 (1.6 days). The volume of water pumped from the FRWs on July 1 and 2 was already accounted for in the June monthly report because the flow from the FRWs was included up to July 2, 2018.

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PUMP AND TREAT SYSTEM STATUS SUMMARY

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

Well	Volume pumped (gal)	Total VOC Concentration (ug/L)
RW-2 [1/]	62,208	0.5
FRW-1 [2/]	0	23.3
FRW-2 [2]	0	3.8
FRW-3 [2/]	0	51.8
FRW-4 [2/]	0	1.7

[1/] The above table summarizes the parameters for RW-2 from July 1 to July 31, 2018.

[2/] The above table summarizes the parameters for the FRWs from July 3 to July 31, 2018.

On July 2, 2018, a crack in the EQ tank was discovered and the FSP&T system was subsequently turned off. Water was pumped from the EQ tank to a height below the crack. The small quantity of water that leaked out of the tank remained in the building and was subsequently cleaned up. Used absorbent material was placed in a labeled waste drum that is also used for spent bag filters. The system remained off for the rest of July. Additionally, UPS troubleshooting revealed that the UPS battery could not maintain sufficient charge to re-activate the flow of electricity from the street following a power interruption. Additional details about system maintenance work are included in Table 1.

SUMMARY OF SAMPLING ACTIVITIES

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

- Monthly groundwater samples were collected from RW-2, FRW-1, FRW-2, FRW-3 and FRW-4 prior to shutting the system down on July 2, 2018.

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 samples from RW-2 and FRW-1, 2, 3, and 4 for the last 24 months. Laboratory analytical reports for the water samples collected from the RWs are included as Appendix II.

The PCE, TCE, cis-DCE, VC and TCA concentrations in 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 COC concentrations in the groundwater samples collected at FRW-2 and 4 were below their respective ARARs this month. The PCE concentrations from the groundwater samples collected from FRW-1 and 3 were above the ARAR. The TCE, cis-DCE and TCA concentrations in FRW-1, 2, 3 and 4 were below associated ARARs for the month.

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 August 2018 include:

- coordinate and repair the EQ tank;
- install a new UPS battery;
- troubleshoot the flow issue for RW-2; and
- normal bi-weekly/monthly O&M activities.

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

TABLE 1

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

MAINTENANCE LOG
(July 1, 2018 through July 31, 2018)

Date	Time	System Changes/Modifications	Personnel
7/2/18	2:30 PM	Discovered crack in the EQ tank during normal O&M activities. The FSP&T and FP&T systems were shut down and the EQ tank was drained below the crack in the tank. The small quantity of water that leaked out of the tank remained in the building and was subsequently cleaned up with absorbent pads. Used absorbent material was placed in a labeled waste drum that is also used for spent bag filters. Began coordinating tank repair with contactors.	EF
		UPS troubleshooting revealed that the UPS battery cannot maintain sufficient charge to re-activate the flow of electricity from the street following a power interruption. A new UPS battery was ordered following the site visit.	EF, D&D Electric
		Changed the multi-bag filter bags (400 um) in Banks 1 and 2, seven of eight housings used. Banks 1 and 2 left open. Bank 3 closed.	EF
		Cleaned iron fouling from the FRW-1, 2, 3, 4 and FP&T system effluent flow meter paddle wheels.	EF
7/18/18	9:35 AM	Power failure alarm; system was already off	
7/26/18		Spot check of the system following the power failure alarm to make sure no additional issues occurred following the alarm.	JF

Notes:

EF	Evan Foster, WSP USA
JF	Jamie Forrester, WSP USA
MG	Mark Goldberg, WSP USA

H:\NABIS\2018\Monthly Reports\July\Table 1 Maintenance Record July 2018.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-Jun-17	6.5	127	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	0.10	0.097
6-Jul-17	6.5	159	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	0.46	ND<0.02
1-Aug-17	6.8	143	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	3.00	0.193
5-Sep-17	6.8	298	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	2.12	0.051
4-Oct-17	6.5	162	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	2.24	0.036
1-Nov-17	6.8	196	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	0.66	0.043
5-Dec-17	6.9	153	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	1.04	0.053
3-Jan-18	6.9	114	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	0.02	0.025
1-Feb-18	6.8	157	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	4.43	0.032
1-Mar-18	6.8	147	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	3.15	0.057
2-Apr-18	6.8	136	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	2.99	0.034
2-May-18	6.8	151	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	8.05	0.049
5-Jun-18	6.8	138	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	0.25	ND<0.02
2-Jul-18	6.8	114	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	2.50	0.127

SPDES: State Pollutant Discharge Elimination System
mg/l: Milligrams per liter
ug/l: Micrograms per liter
----: Not established
NM: Not Measured
TDS: Total dissolved solids
PCE: Tetrachloroethylene
1,1,1-TCA: 1,1,1-Trichloroethane
TCE: Trichloroethene
1,1-DCA: 1,1-Dichlorothane
1,1-DCE: 1,1-Dichloroethene
cis-1,2-DCE: cis-1,2-Dichloroethene
trans-1,2,-DCE: trans-1,2-Dichloroethene
J: Analyte detected below quantitation limits, value shown is a laboratory estimate.
B: Analyte was found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
ND: Not detected

Notes:
1. Based on the SPDES criteria from an NYSDEC letter dated on May 6, 2016, the allowable pH range for the Rowe Site is between 6.5 and 8.5. The pH of the effluent sample collected on June 20, 2018 was 6.8.
2. "Effluent" samples were collected from sample port labeled NP2-10 unless otherwise noted.
3. Starting in October 2016, FSP&T system samples are collected monthly instead of once every two weeks. The pH of the effluent water is measured two times per month in accordance with the SPDES requirements.

TABLE 3

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

Recovery Well Water Quality Results

Recovery Well [1/]	Date Sampled	PCE (ug/L)	TCE (ug/L)	TCA (ug/L)	Chloroform (ug/L)	MTBE (ug/L)	1,1-Dichloro-ethane (ug/L)	cis-1,2-Dichloro-ethene (ug/L)	1,1-Dichloro-ethene (ug/L)	Methylene Chloride (ug/L)	Toluene (ug/L)	Benzene (ug/L)	m,p-Xylene (ug/L)	o-Xylene (ug/L)
	ARAR's	**5**	**5**	**5**	**7**	**NE**	**5**	**5**	**5**	**5**	**NE**	**NE**	**5**	**5**
RW-2	23-Jun-16	0.26 J	0.34 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	19-Jul-16	0.23 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	2-Aug-16	0.24 J	0.37 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	16-Sep-16	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	17-Oct-16	0.45 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	1-Nov-16	0.42 J	0.44 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	1-Dec-16	0.52	0.39 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	9-Jan-17	0.30 J	0.43 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	2-Feb-17	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	1-Mar-17	0.28 J	0.47 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	7-Apr-17	0.53	0.55	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	11-May-17	0.54	0.37 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.28 J	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	1-Jun-17	0.29	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	6-Jul-17	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	1-Aug-17	0.23 J	0.26 J	ND<0.5	0.24 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	5-Sep-17	0.23 J	0.32 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	4-Oct-17	0.24 J	0.34 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	1-Nov-17	0.31 J	0.39 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	5-Dec-17	0.27 J	0.42 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	3-Jan-18	0.28 J	0.70	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	1-Feb-18	0.33 J	0.59	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	1-Mar-18	0.41 J	0.67	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	2-Apr-18	0.28 J	0.36 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<1	ND<0.5
	2-May-18	0.32 J	0.22 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-Jun-18	0.21 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-Jul-18	0.22 J	ND<0.5	ND<0.5	0.28 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

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**
2-Aug-16	**22**	0.75	1.4	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	1.2 J
The FRWs were shut down between August 10 and August 13, 2016.										
1-Sep-16	**25**	0.81	1.6	ND<0.5	0.20 J	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<2
FRW-1 was shut down between September 15 and 16, 2016 and again between September 21 and October 4, 2016										
17-Oct-16	**29**	2.60	**8.5**	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	0.56 J	ND<2
The FRWs were off between October 17 and November 14, 2016										
14-Nov-16	**64**	**5.4**	**38**	0.41 J	0.84	0.28 J	ND<2	ND<0.5	ND<0.5	ND<2
The FRWs were off between November 16 and December 1, 2016										
16-Dec-16	**58**	0.54	1.9	ND<0.5	0.51	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from December 28 to January 3, 2017 and January 5 to January 9, 2017										
9-Jan-17	**120**	1.9	1.7	ND<0.5	1.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off between January 23 and February 2, 2017										
2-Feb-17	**460**	**8.5**	**20**	ND<0.5	3.5	0.59 J	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off between February 20 and February 22, 2017										
1-Mar-17	**110**	3.9	**6.3**	ND<0.5	0.82	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off between March 24 and March 29, 2017										
7-Apr-17	**240**	3.8	2.2	ND<0.5	2.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.3 J
The FRWs were off from April 17 to April 26, 2017 and April 27 to May 1, 2017										
3-May-17	**200**	2.0	2.3	ND<0.5	2.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.0
1-Jun-17	**94**	2.5	4.5	ND<0.5	0.55	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from June 7 to June 9 and from June 21 to 23, 2017										
6-Jul-17	3.6	ND<0.5	1.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from July 31 to August 28, 2017										
1-Aug-17 [2/]	**16**	0.41 J	0.44 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
5-Sep-17	**34**	0.93	2.9	ND<0.5	0.22 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from September 13 to 19 and from September 27 to October 4, 2017										
4-Oct-17	**56**	1.7	**7.8**	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from October 11 to October 16, 2017 and October 29 to 31, 2017										
1-Nov-17	**72**	1.3	1.7	ND<0.5	0.37 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from November 12 to December 5, 2017										
5-Dec-17	**55**	1.5	3.4	ND<0.5	0.4 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
FRW-1 was off from December 6 to 12 and December 24, 2017 to February 9, 2018										
1-Feb-18	**63**	**7.4**	**28**	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
1-Mar-18	**110**	**2.7**	1.8	ND<0.5	1.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off between March 15 and 26, 2018 and March 27 and 29, 2018										
2-Apr-18	**83**	0.31 J	ND<0.5	ND<0.5	0.25 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.2 J
The FRWs were off between April 17 and 23, 2018 and April 26 and May 2, 2018										
2-May-18	**97**	0.86	0.46 J	ND<0.5	0.75	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from May 20 to June 5, 2018 and June 18 to 20, 2018										
20-Jun-18	**25**	0.76	0.68	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
2-Jul-18	**22**	0.66	0.60	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from July 2 to July 31, 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**
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**	0.76	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from November 12 to 16, 2017 and November 26 to 27, 2017								
5-Dec-17	**38**	3.4	1.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from December 24, 2017 to February 9, 2018								
1-Feb-18	**37**	3.2	1.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.8
1-Mar-18	**48**	0.7	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off between March 15 and 26, 2018 and March 27 and 29, 2018								
2-Apr-18	**140**	1.2	0.36 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off between April 17 and 23, 2018 and April 26 and May 2, 2018								
2-May-18	**29**	0.92	0.29 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4.6
The FRWs were off from May 20 to June 5, 2018 and June 18 to 20, 2018								
20-Jun-18	3.8	1.4	0.44 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
2-Jul-18	3.8	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from July 2 to July 31, 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**
2-Aug-16	**8.1**	0.7	1.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.71	0.43 J	ND<0.5	ND<0.5	2.3
The FRWs were shut down between August 10 and August 13, 2016.												
1-Sep-16	**17**	1.4	2.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.83	0.58	ND<0.5	ND<0.5	ND<2
FRW-3 was shut down between September 15 and 16, 2016 and again between September 21 and October 4, 2016												
17-Oct-16	**9.0**	2.4	**23**	1.1	ND<0.5	ND<0.5	ND<0.5	0.36 J	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off between October 17 and November 14, 2016												
14-Nov-16	**79**	**5.6**	**14**	0.48 J	ND<0.5	0.67	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.0
The FRWs were off between November 16 and December 1, 2016												
16-Dec-16	**24**	4.1	**16**	0.42 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.32 J	ND<0.5	ND<0.5	ND<2
The FRWs were off between December 28 to January 3, 2017 and January 5 to January 9, 2017												
9-Jan-17	**53**	**5.1**	**17**	ND<0.5	ND<0.5	0.40 J	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off between January 23 to February 2, 2017												
2-Feb-17	**18**	3.7	**24**	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.76	0.63	ND<0.5	ND<0.5	ND<2
The FRWs were off between February 20 to February 22, 2017												
1-Mar-17	**50**	**5.7**	**20**	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.99	0.64	ND<0.5	ND<0.5	ND<2
The FRWs were off between March 24 and March 29, 2017												
7-Apr-17	**65**	**5.0**	**41**	1.4	ND<0.5	ND<0.5	ND<0.5	0.71	0.49	ND<0.5	ND<0.5	ND<2
FRW-3 was off from April 17 to April 26, 2017 and April 27 to May 11, 2017												
11-May-17	**130**	**5.8**	**8.5**	0.24 J	ND<0.5	0.35 J	ND<0.5	0.35 J	0.30 J	ND<0.5	ND<0.5	ND<2
FRW-3 was off from o May 17 to June 1, 2017												
1-Jun-17	**83**	**5.8**	**12**	0.37 J	ND<0.5	ND<0.5	ND<0.5	0.38 J	0.38 J	ND<0.5	ND<0.5	1.0
The FRWs were off from June 7 to June 9 and from June 21 to 23, 2017												
6-Jul-17	3.4	0.70	1.8	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.4
The FRWs were off from July 31 to August 28, 2017												
1-Aug-17 [2/]	**35**	1.9	1.9	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.6
5-Sep-17	**15**	1.7	**6.1**	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from September 13 to 19 and from September 27 to October 4, 2017												
4-Oct-17	**21**	**6.0**	**15**	1.2	ND<0.5	ND<0.5	ND<0.5	0.48 J	0.40 J	ND<0.5	ND<0.5	2.7
The FRWs were off from October 11 to October 16, 2017 and October 29 to 31, 2017												
1-Nov-17	**17**	1.2	3.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.33 J	0.30 J	ND<0.5	ND<0.5	ND<2
The FRWs were off from November 12 to 16, 2017 and November 26 to 27, 2017												
5-Dec-17	**37**	1.8	2.3	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.37 J	0.33 J	ND<0.5	ND<0.5	ND<2
The FRWs were off from December 24, 2017 to February 9, 2018												
1-Feb-18	**22**	2.0	3.3	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.32 J	ND<0.5	ND<0.5	ND<0.5	ND<2
1-Mar-18	**120**	**7.9**	**18**	ND<0.5	0.26 J	0.65	ND<0.5	0.49 J	0.34 J	ND<0.5	ND<0.5	ND<2
The FRWs were off between March 15 and 26, 2018 and March 27 and 29, 2018												
2-Apr-18	**170**	4.5	0.2 J	0.25 J	ND<0.5	0.71	ND<0.5	0.20 J	ND<0.5	ND<0.5	ND<0.5	1.2 J
The FRWs were off between April 17 and 23, 2018 and April 26 and May 2, 2018												
2-May-18	**140**	**9.4**	**11**	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.2
The FRWs were off from May 20 to June 5, 2018 and June 18 to 20, 2018												
20-Jun-18	**39**	**6.8**	4.3	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.5 J
2-Jul-18	**49**	1.4	1.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from July 2 to July 31, 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**
2-Aug-16	3.5	0.50	2.6	ND<0.5	ND<0.5	ND<2
The FRWs were shut down between August 10 and August 13, 2016.						
1-Sep-16	2.2	0.48 J	3.8	ND<0.5	ND<0.5	ND<2
FRW-3 was shut down between September 15 and 16, 2016 and again between September 21 and October 4, 2016						
17-Oct-16	1.6	0.47 J	4.7	ND<0.5	ND<0.5	10
The FRWs were off between October 17 and November 14, 2016						
14-Nov-16	1.9	2.1	**29**	0.33 J	ND<0.5	ND<2
The FRWs were off between November 16 and December 1, 2016						
16-Dec-16	2.0	0.50	**7.8**	ND<0.5	ND<0.5	ND<2
The FRWs were off between December 28 to January 3, 2017 and January 5 to January 9, 2017						
9-Jan-17	**16**	1.8	**6.4**	ND<0.5	0.27 J	ND<2
The FRWs were off between January 23 to February 2, 2017						
2-Feb-17	**5.1**	1.4	**17**	ND<0.5	0.27 J	ND<2
The FRWs were off between February 20 to February 22, 2017						
1-Mar-17	4.0	0.60	2.2	ND<0.5	ND<0.5	ND<2
The FRWs were off between March 24 and March 29, 2017						
7-Apr-17	**7.6**	1.2	2.9	ND<0.5	ND<0.5	1.3
The FRWs were off from April 17 to April 26, 2017 and April 27 to May 1, 2017						
3-May-17	**40**	3.5	**15**	ND<0.5	0.42 J	2.1
1-Jun-17	**8.8**	0.5	2.1	ND<0.5	ND<0.5	ND<2
The FRWs were off from June 7 to June 9 and from June 21 to 23, 2017						
6-Jul-17	0.27 J	ND<0.5	0.28 J	ND<0.5	ND<0.5	1.1
The FRWs were off from July 31 to August 28, 2017						
1-Aug-17 [2/]	0.80	ND<0.5	0.28 J	ND<0.5	ND<0.5	1.6
5-Sep-17	2.7	0.42 J	0.51	ND<0.5	ND<0.5	ND<2
The FRWs were off from September 13 to 19 and from September 27 to October 4, 2017						
4-Oct-17	**9.8**	3.9	4.1	ND<0.5	ND<0.5	ND<2
The FRWs were off from October 11 to October 16, 2017 and October 29 to 31, 2017						
1-Nov-17	3.0	0.32 J	0.78	ND<0.5	ND<0.5	ND<2
The FRWs were off from November 12 to 16, 2017 and November 26 to 27, 2017						
5-Dec-17	**5.1**	ND<0.5	1.0	ND<0.5	ND<0.5	ND<2
The FRWs were off from December 24, 2017 to February 9, 2018						
1-Feb-18	**21.0**	2.5	**7.0**	ND<0.5	0.27 J	2.5
1-Mar-18	3.0	ND<0.5	0.47 J	ND<0.5	ND<0.5	ND<2
The FRWs were off between March 15 and 26, 2018 and March 27 and 29, 2018						
2-Apr-18	3.2	ND<0.5	1.0	ND<0.5	0.32 J	ND<2
The FRWs were off between April 17 and 23, 2018 and April 26 and May 2, 2018						
2-May-18	**19**	ND<0.5	1.1	ND<0.5	ND<0.5	ND<2
The FRWs were off from May 20 to June 5, 2018 and June 18 to 20, 2018						
20-Jun-18	1.4	0.22 J	ND<0.5	ND<0.5	ND<0.5	1.5
2-Jul-18	1.7	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2
The FRWs were off from July 2 to July 31, 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

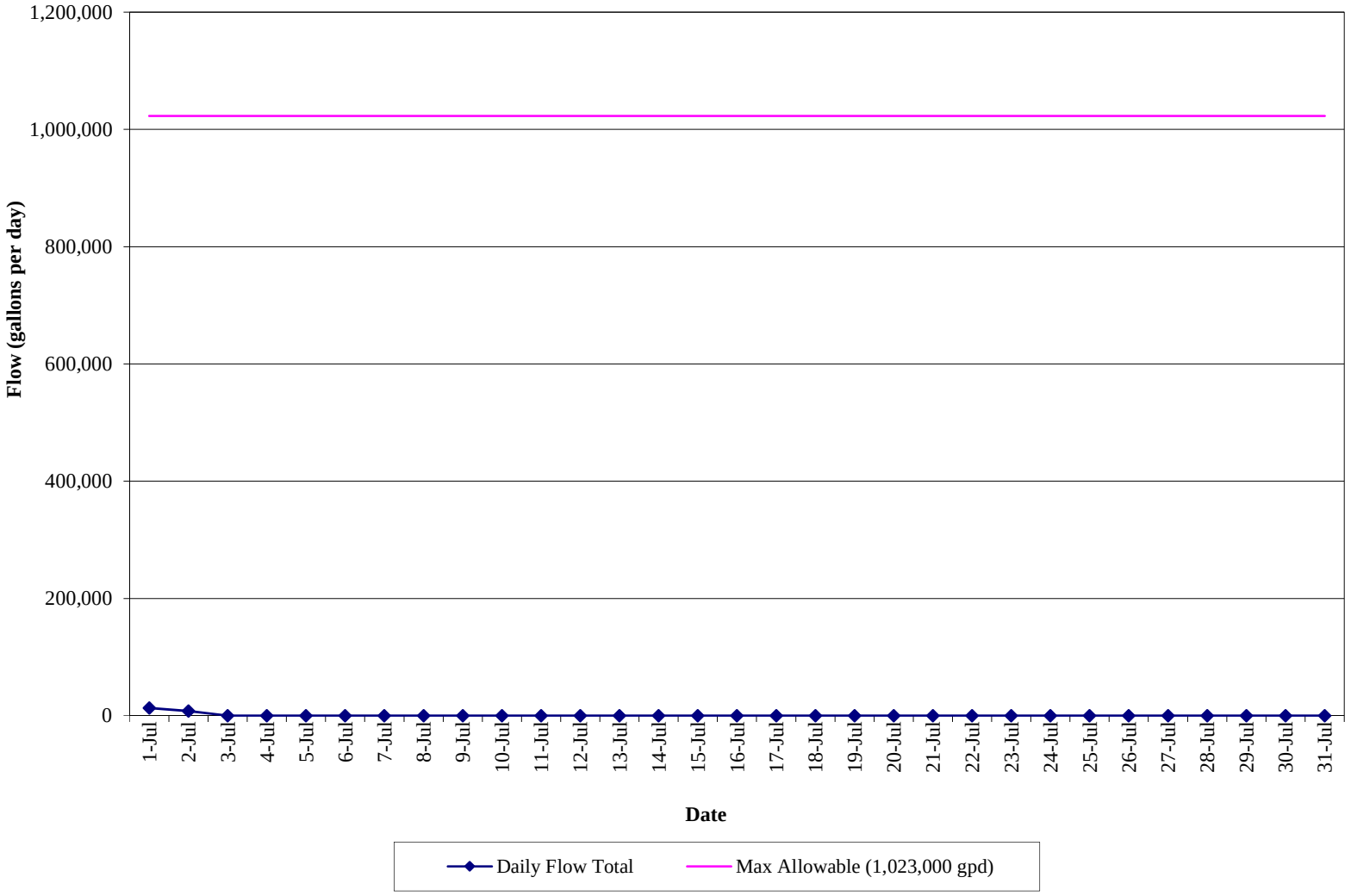
Comments:
As of September 1, 2011 the water samples are analyzed by York Analytical Laboratories, Inc. The laboratory typically uses a reporting limit (RL) for water of 5 ug/l for VOC. York reports detections below 0.5 ug/l as an estimated value; these values are below the RL but greater than or equal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

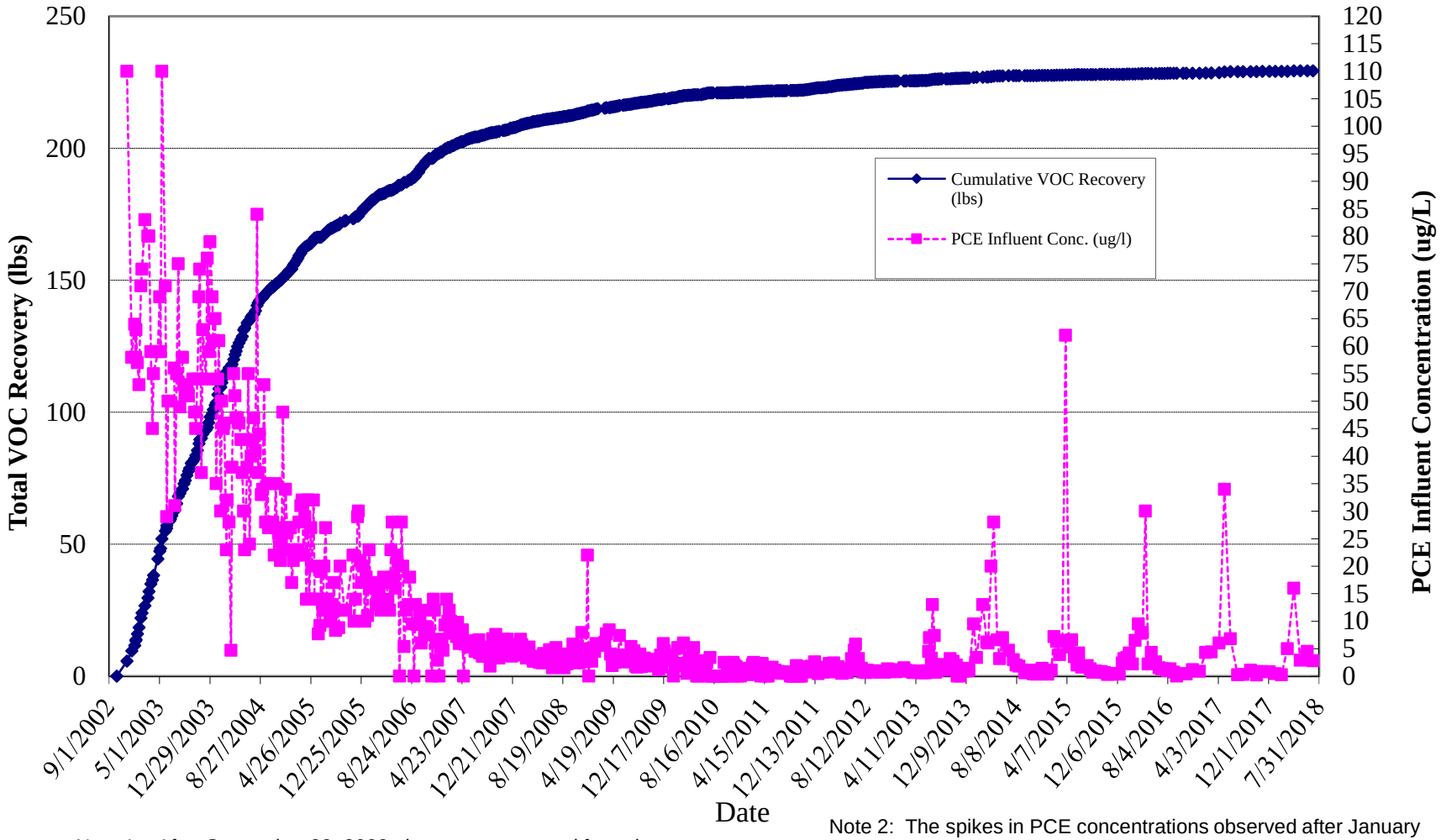
GRAPH 1
GROUNDWATER REMEDIAL ACTION
ROWE INDUSTRIES SUPERFUND SITE
SAG HARBOR, NEW YORK

Effluent Flow Data
(July 1, 2018 to July 31, 2018)



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

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



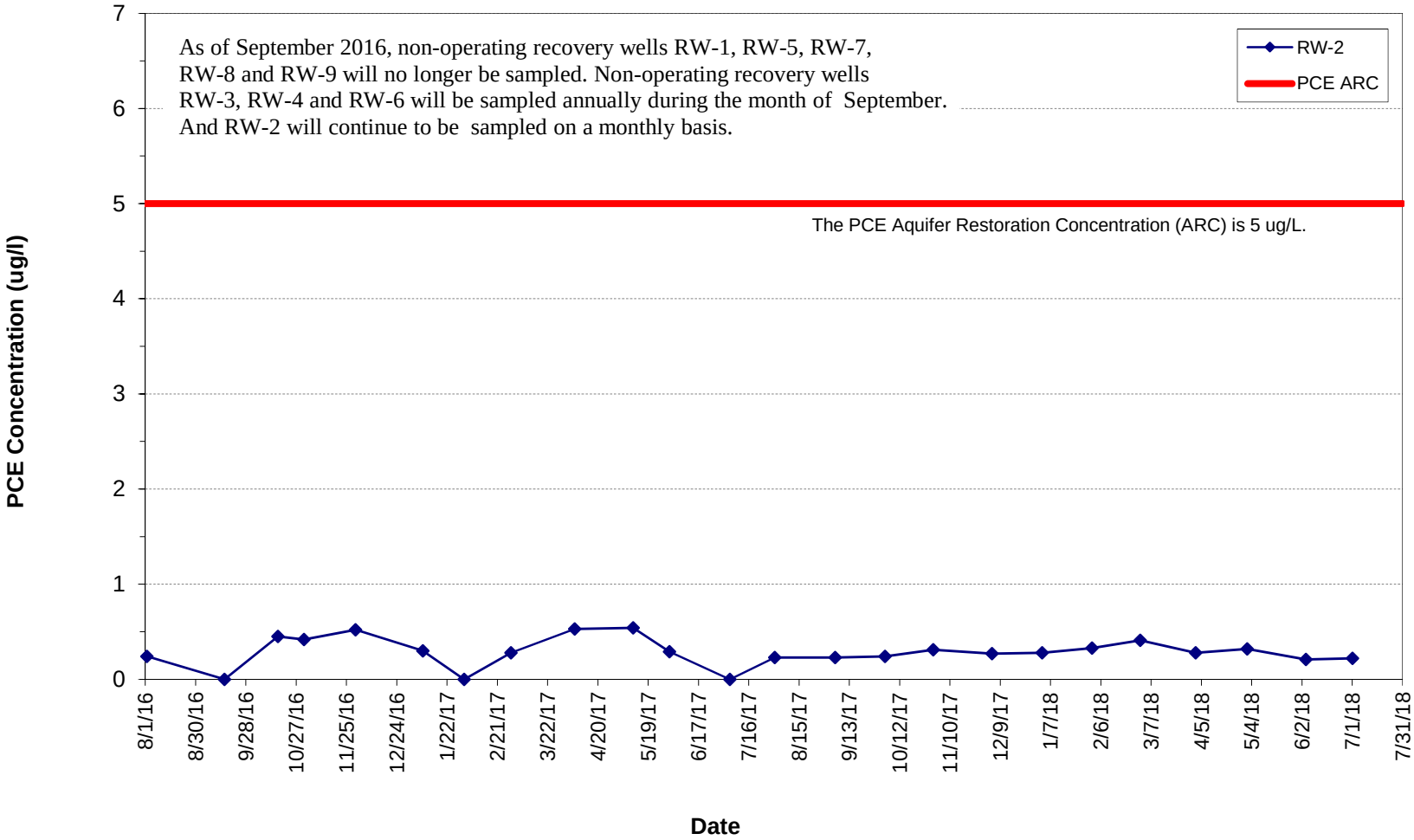
Note 1 : After September 22, 2008, the water recovered from the FP&T System is included in the results shown in this graph.

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

GRAPH 3

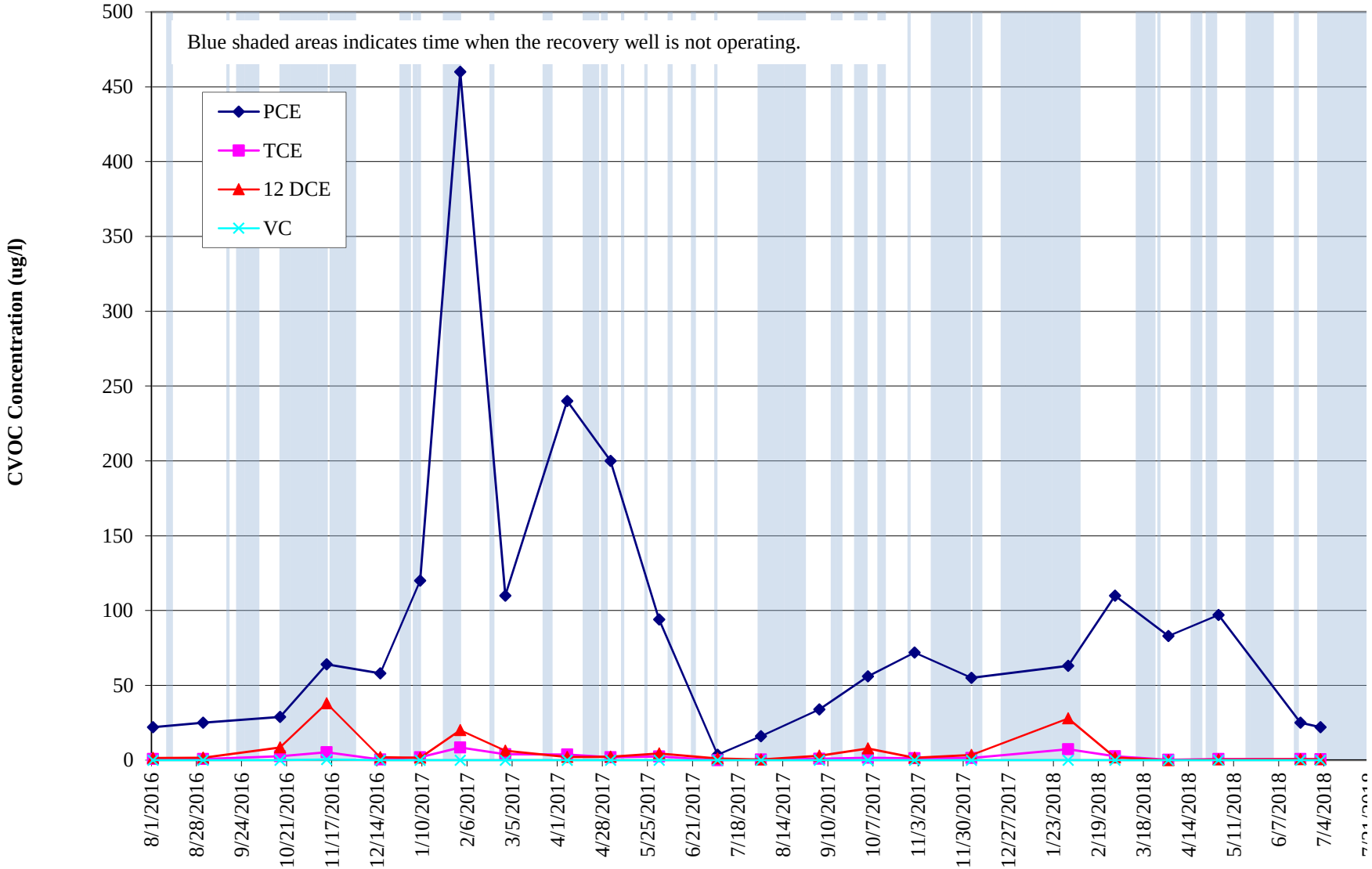
GROUNDWATER REMEDIAL ACTION
ROWE INDUSTRIES SUPERFUND SITE
SAG HARBOR, NEW YORK

FSP&T Recovery Well PCE Concentration

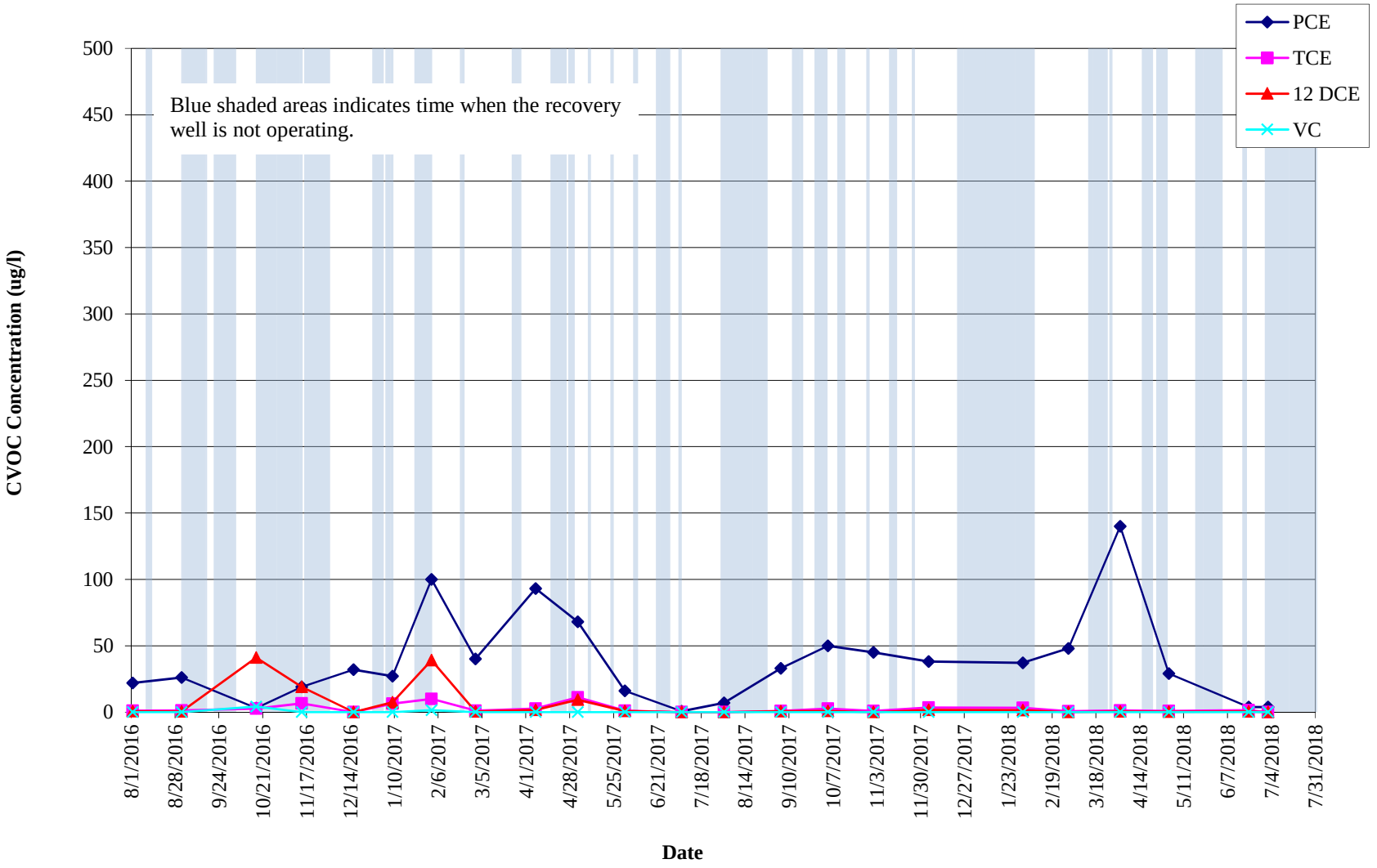


GRAPH 4
GROUNDWATER REMEDIAL ACTION
ROWE INDUSTRIES SUPERFUND SITE
SAG HARBOR, NEW YORK

FP&T Recovery Well VOC Concentrations for FRW-1

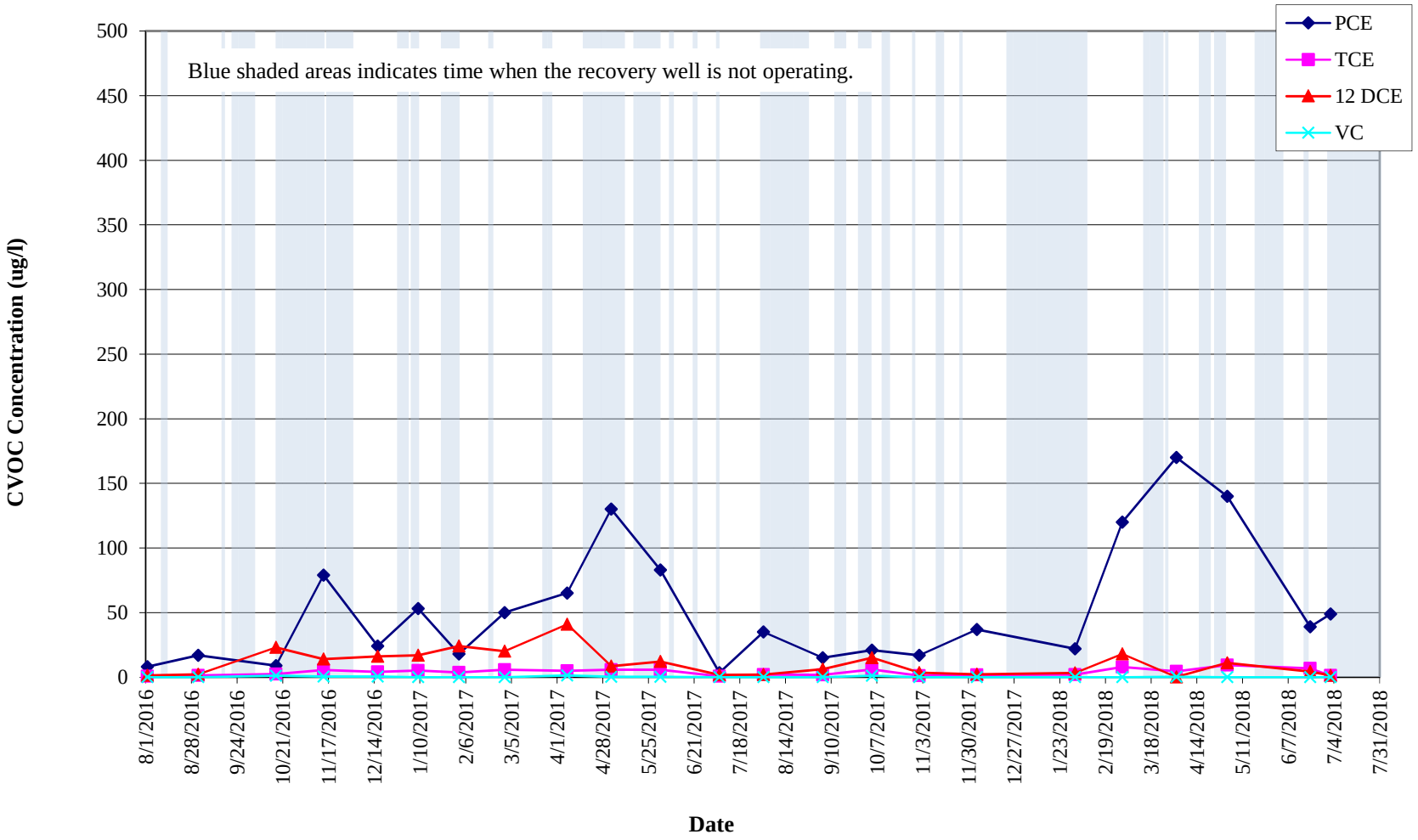


GRAPH 5
GROUNDWATER REMEDIAL ACTION
ROWE INDUSTRIES SUPERFUND SITE
SAG HARBOR, NEW YORK



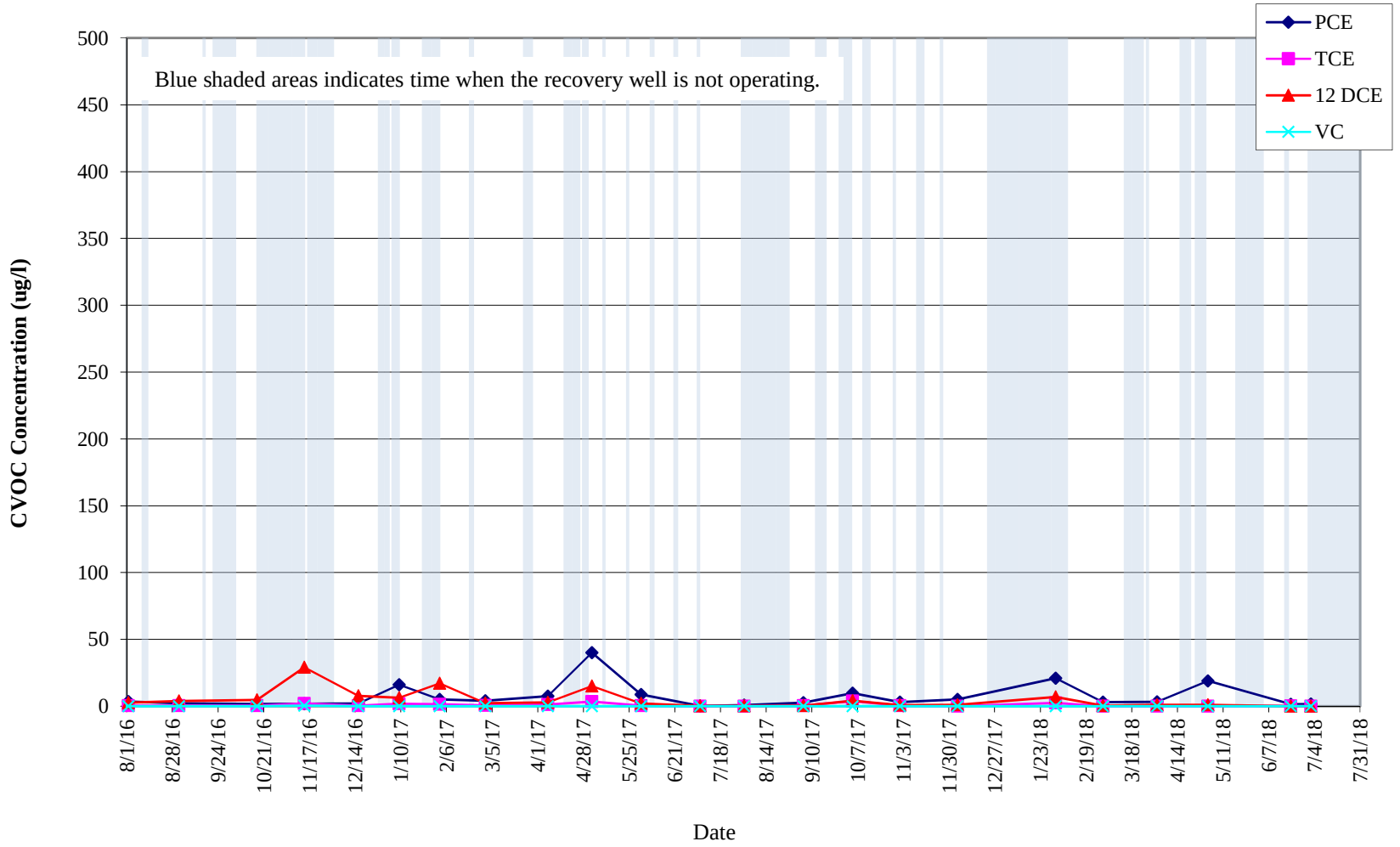
GRAPH 6
GROUNDWATER REMEDIAL ACTION
ROWE INDUSTRIES SUPERFUND SITE
SAG HARBOR, NEW YORK

FP&T Recovery Well VOC Concentrations for FRW-3



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

FP&T Recovery Well VOC Concentrations for FRW-4



APPENDIX I

JULY 2018 LABORATORY ANALYTICAL REPORTS

FOR FSP&T SYSTEM

Technical Report

prepared for:

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

Report Date: 07/11/2018
Client Project ID: 31401451.000 task 01.00
York Project (SDG) No.: 18G0079

Report Date: 07/11/2018
Client Project ID: 31401451.000 task 01.00
York Project (SDG) No.: 18G0079

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

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on July 03, 2018 and listed below. The project was identified as your project: **31401451.000 task 01.00**.

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.

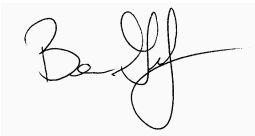
The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

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
18G0079-01	WQ070218:1425 NP2-6	Water	07/02/2018	07/03/2018
18G0080-01	WQ070218:1430 NP2-10	Water	07/02/2018	07/03/2018

General Notes for York Project (SDG) No.: 18G0079

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 07/11/2018

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: WQ070218:1425 NP2-6 **York Sample ID:** 18G0079-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G0079	31401451.000 task 01.00	Water	July 2, 2018 2:25 pm	07/03/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

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

Sample Information

Client Sample ID: WQ070218:1425 NP2-6 **York Sample ID:** 18G0079-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G0079	31401451.000 task 01.00	Water	July 2, 2018 2:25 pm	07/03/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 18:09	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 18:09	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 18:09	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 18:09	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 18:09	SS
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 18:09	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 18:09	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 18:09	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 18:09	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 18:09	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 18:09	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 18:09	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 18:09	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 18:09	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 18:09	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 18:09	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 18:09	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 18:09	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 18:09	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 18:09	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 18:09	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 18:09	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 18:09	SS

Sample Information

Client Sample ID: WQ070218:1425 NP2-6 **York Sample ID:** 18G0079-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G0079	31401451.000 task 01.00	Water	July 2, 2018 2:25 pm	07/03/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:09 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:09 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:09 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:09 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:09 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:09 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:09 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:09 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:09 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:09 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:09 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
127-18-4	**Tetrachloroethylene**	**2.8**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:09 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:09 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:09 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:09 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:09 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:09 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:09 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:09 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*99.9 %*	*69-130*
2037-26-5	*Surrogate: Toluene-d8*	*92.5 %*	*81-117*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*96.8 %*	*79-122*

Sample Information

Client Sample ID: WQ070218:1430 NP2-10 **York Sample ID:** 18G0080-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G0080	31401451.000 task 01.00	Water	July 2, 2018 2:30 pm	07/03/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:41 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:41 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:41 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:41 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:41 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:41 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:41 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:41 NELAC-NY10854,NELAC-NY12058,NJDEP	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:41 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:41 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:41 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:41 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:41 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:41 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:41 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:41 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:41 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:41 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:41 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:41 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:41 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:41 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:41 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS

Sample Information

Client Sample ID: WQ070218:1430 NP2-10 **York Sample ID:** 18G0080-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G0080	31401451.000 task 01.00	Water	July 2, 2018 2:30 pm	07/03/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

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

Sample Information

Client Sample ID: WQ070218:1430 NP2-10 **York Sample ID:** 18G0080-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G0080	31401451.000 task 01.00	Water	July 2, 2018 2:30 pm	07/03/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:41 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:41 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:41 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:41 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:41 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:41 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:41 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:41 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:41 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:41 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:41 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:41 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:41 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:41 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:41 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:41 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:41 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 18:41 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*99.8 %*	*69-130*
2037-26-5	*Surrogate: Toluene-d8*	*93.7 %*	*81-117*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*96.8 %*	*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: WQ070218:1430 NP2-10 **York Sample ID:** 18G0080-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G0080	31401451.000 task 01.00	Water	July 2, 2018 2:30 pm	07/03/2018

Iron by EPA 200.7

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	**Iron**	**2.50**		mg/L	0.0222	1	EPA 200.7	07/10/2018 09:18	07/10/2018 16:00	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Iron, Dissolved by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	**Iron**	**0.127**		mg/L	0.0222	1	EPA 6010C	07/05/2018 10:47	07/05/2018 12:41	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	**114**		mg/L	10.0	1	SM 2540C	07/09/2018 20:18	07/09/2018 20:18	TJM
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

Analytical Batch Summary

Batch ID: BG80196 **Preparation Method:** EPA 3015A **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
18G0080-01	WQ070218:1430 NP2-10	07/05/18
BG80196-BLK1	Blank	07/05/18
BG80196-BS1	LCS	07/05/18

Batch ID: BG80246 **Preparation Method:** EPA 5030B **Prepared By:** TAB

YORK Sample ID	Client Sample ID	Preparation Date
18G0079-01	WQ070218:1425 NP2-6	07/06/18
18G0080-01	WQ070218:1430 NP2-10	07/06/18
BG80246-BLK1	Blank	07/06/18
BG80246-BS1	LCS	07/06/18
BG80246-BSD1	LCS Dup	07/06/18

Batch ID: BG80329 **Preparation Method:** EPA 200.7 **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
18G0080-01	WQ070218:1430 NP2-10	07/10/18
BG80329-BLK1	Blank	07/10/18
BG80329-BS1	LCS	07/10/18

Batch ID: BG80396 **Preparation Method:** % Solids Prep **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
18G0080-01	WQ070218:1430 NP2-10	07/09/18
BG80396-BLK1	Blank	07/09/18

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG80246 - EPA 5030B											
Blank (BG80246-BLK1)									Prepared & Analyzed: 07/06/2018		
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,1-Dichloropropylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,3-Dichloropropane	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2,2-Dichloropropane	ND	0.50	"								
2-Chlorotoluene	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Chlorotoluene	ND	0.50	"								
Acetone	ND	2.0	"								
Benzene	ND	0.50	"								
Bromobenzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylene chloride	ND	2.0	"								
Naphthalene	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

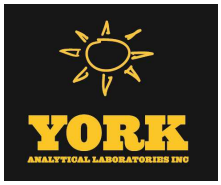
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG80246 - EPA 5030B											
Blank (BG80246-BLK1)								Prepared & Analyzed: 07/06/2018			
o-Xylene	ND	0.50	ug/L								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: 1,2-Dichloroethane-d4	*10.5*		*"*	*10.0*		*105*	*69-130*				
Surrogate: Toluene-d8	*9.64*		*"*	*10.0*		*96.4*	*81-117*				
Surrogate: p-Bromofluorobenzene	*9.87*		*"*	*10.0*		*98.7*	*79-122*				
LCS (BG80246-BS1)								Prepared & Analyzed: 07/06/2018			
1,1,1,2-Tetrachloroethane	10.4		ug/L	10.0		104	82-126				
1,1,1-Trichloroethane	11.1		"	10.0		111	78-136				
1,1,2,2-Tetrachloroethane	10.1		"	10.0		101	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.6		"	10.0		116	54-165				
1,1,2-Trichloroethane	10.8		"	10.0		108	82-123				
1,1-Dichloroethane	10.9		"	10.0		109	82-129				
1,1-Dichloroethylene	10.4		"	10.0		104	68-138				
1,1-Dichloropropylene	10.8		"	10.0		108	83-133				
1,2,3-Trichlorobenzene	10.2		"	10.0		102	76-136				
1,2,3-Trichloropropane	10.3		"	10.0		103	77-128				
1,2,4-Trichlorobenzene	9.45		"	10.0		94.5	76-137				
1,2,4-Trimethylbenzene	9.51		"	10.0		95.1	82-132				
1,2-Dibromo-3-chloropropane	10.1		"	10.0		101	45-147				
1,2-Dibromoethane	10.8		"	10.0		108	83-124				
1,2-Dichlorobenzene	9.57		"	10.0		95.7	79-123				
1,2-Dichloroethane	11.5		"	10.0		115	73-132				
1,2-Dichloropropane	9.92		"	10.0		99.2	78-126				
1,3,5-Trimethylbenzene	9.42		"	10.0		94.2	80-131				
1,3-Dichlorobenzene	9.65		"	10.0		96.5	86-122				
1,3-Dichloropropane	10.6		"	10.0		106	81-125				
1,4-Dichlorobenzene	9.43		"	10.0		94.3	85-124				
2,2-Dichloropropane	10.8		"	10.0		108	56-150				
2-Chlorotoluene	9.54		"	10.0		95.4	79-130				
2-Hexanone	11.2		"	10.0		112	51-146				
4-Chlorotoluene	9.53		"	10.0		95.3	79-128				
Acetone	13.7		"	10.0		137	14-150				
Benzene	11.0		"	10.0		110	85-126				
Bromobenzene	9.43		"	10.0		94.3	78-129				
Bromochloromethane	11.3		"	10.0		113	77-128				
Bromodichloromethane	10.2		"	10.0		102	79-128				
Bromoform	10.5		"	10.0		105	78-133				
Bromomethane	4.27		"	10.0		42.7	43-168	Low Bias			

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 BG80246 - EPA 5030B											
LCS (BG80246-BS1)								Prepared & Analyzed: 07/06/2018			
Carbon tetrachloride	11.0		ug/L	10.0		110	77-141				
Chlorobenzene	10.2		"	10.0		102	88-120				
Chloroethane	10.4		"	10.0		104	65-136				
Chloroform	11.2		"	10.0		112	82-128				
Chloromethane	7.87		"	10.0		78.7	43-155				
cis-1,2-Dichloroethylene	11.0		"	10.0		110	83-129				
cis-1,3-Dichloropropylene	10.0		"	10.0		100	80-131				
Dibromochloromethane	10.6		"	10.0		106	80-130				
Dibromomethane	10.6		"	10.0		106	72-134				
Dichlorodifluoromethane	9.21		"	10.0		92.1	44-144				
Ethyl Benzene	10.2		"	10.0		102	80-131				
Hexachlorobutadiene	8.13		"	10.0		81.3	67-146				
Isopropylbenzene	9.38		"	10.0		93.8	76-140				
Methyl tert-butyl ether (MTBE)	11.6		"	10.0		116	76-135				
Methylene chloride	8.50		"	10.0		85.0	55-137				
Naphthalene	10.6		"	10.0		106	70-147				
n-Butylbenzene	9.15		"	10.0		91.5	79-132				
n-Propylbenzene	9.48		"	10.0		94.8	78-133				
o-Xylene	10.3		"	10.0		103	78-130				
p- & m- Xylenes	19.0		"	20.0		94.8	77-133				
p-Isopropyltoluene	9.34		"	10.0		93.4	81-136				
sec-Butylbenzene	9.38		"	10.0		93.8	79-137				
Styrene	10.4		"	10.0		104	67-132				
tert-Butylbenzene	9.37		"	10.0		93.7	77-138				
Tetrachloroethylene	10.5		"	10.0		105	82-131				
Toluene	10.0		"	10.0		100	80-127				
trans-1,2-Dichloroethylene	10.6		"	10.0		106	80-132				
trans-1,3-Dichloropropylene	9.92		"	10.0		99.2	78-131				
Trichloroethylene	9.69		"	10.0		96.9	82-128				
Trichlorofluoromethane	10.9		"	10.0		109	67-139				
Vinyl Chloride	10.1		"	10.0		101	58-145				
Surrogate: 1,2-Dichloroethane-d4	*10.4*		*"*	*10.0*		*104*	*69-130*				
Surrogate: Toluene-d8	*9.61*		*"*	*10.0*		*96.1*	*81-117*				
Surrogate: p-Bromofluorobenzene	*9.44*		*"*	*10.0*		*94.4*	*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 BG80246 - EPA 5030B											
LCS Dup (BG80246-BSD1)								Prepared & Analyzed: 07/06/2018			
1,1,1,2-Tetrachloroethane	10.4		ug/L	10.0		104	82-126		0.673	30	
1,1,1-Trichloroethane	10.5		"	10.0		105	78-136		4.91	30	
1,1,2,2-Tetrachloroethane	9.79		"	10.0		97.9	76-129		3.02	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.0		"	10.0		110	54-165		5.59	30	
1,1,2-Trichloroethane	10.5		"	10.0		105	82-123		3.19	30	
1,1-Dichloroethane	10.5		"	10.0		105	82-129		3.65	30	
1,1-Dichloroethylene	9.93		"	10.0		99.3	68-138		4.33	30	
1,1-Dichloropropylene	10.4		"	10.0		104	83-133		4.14	30	
1,2,3-Trichlorobenzene	9.60		"	10.0		96.0	76-136		6.06	30	
1,2,3-Trichloropropane	9.75		"	10.0		97.5	77-128		5.78	30	
1,2,4-Trichlorobenzene	9.13		"	10.0		91.3	76-137		3.44	30	
1,2,4-Trimethylbenzene	9.20		"	10.0		92.0	82-132		3.31	30	
1,2-Dibromo-3-chloropropane	9.59		"	10.0		95.9	45-147		5.38	30	
1,2-Dibromoethane	10.4		"	10.0		104	83-124		3.87	30	
1,2-Dichlorobenzene	9.28		"	10.0		92.8	79-123		3.08	30	
1,2-Dichloroethane	11.0		"	10.0		110	73-132		4.10	30	
1,2-Dichloropropane	9.70		"	10.0		97.0	78-126		2.24	30	
1,3,5-Trimethylbenzene	9.12		"	10.0		91.2	80-131		3.24	30	
1,3-Dichlorobenzene	9.31		"	10.0		93.1	86-122		3.59	30	
1,3-Dichloropropane	10.2		"	10.0		102	81-125		3.77	30	
1,4-Dichlorobenzene	9.20		"	10.0		92.0	85-124		2.47	30	
2,2-Dichloropropane	10.3		"	10.0		103	56-150		4.75	30	
2-Chlorotoluene	9.20		"	10.0		92.0	79-130		3.63	30	
2-Hexanone	11.0		"	10.0		110	51-146		1.89	30	
4-Chlorotoluene	9.32		"	10.0		93.2	79-128		2.23	30	
Acetone	16.2		"	10.0		162	14-150	High Bias	16.9	30	
Benzene	10.6		"	10.0		106	85-126		2.87	30	
Bromobenzene	9.07		"	10.0		90.7	78-129		3.89	30	
Bromochloromethane	11.1		"	10.0		111	77-128		2.41	30	
Bromodichloromethane	10.1		"	10.0		101	79-128		1.18	30	
Bromoform	10.4		"	10.0		104	78-133		1.53	30	
Bromomethane	4.72		"	10.0		47.2	43-168		10.0	30	
Carbon tetrachloride	10.4		"	10.0		104	77-141		5.22	30	
Chlorobenzene	10.2		"	10.0		102	88-120		0.293	30	
Chloroethane	10.0		"	10.0		100	65-136		3.82	30	
Chloroform	10.9		"	10.0		109	82-128		2.71	30	
Chloromethane	7.91		"	10.0		79.1	43-155		0.507	30	
cis-1,2-Dichloroethylene	10.7		"	10.0		107	83-129		2.75	30	
cis-1,3-Dichloropropylene	9.72		"	10.0		97.2	80-131		2.94	30	
Dibromochloromethane	10.3		"	10.0		103	80-130		2.68	30	
Dibromomethane	10.3		"	10.0		103	72-134		3.26	30	
Dichlorodifluoromethane	8.85		"	10.0		88.5	44-144		3.99	30	
Ethyl Benzene	9.94		"	10.0		99.4	80-131		2.68	30	
Hexachlorobutadiene	7.77		"	10.0		77.7	67-146		4.53	30	
Isopropylbenzene	9.19		"	10.0		91.9	76-140		2.05	30	
Methyl tert-butyl ether (MTBE)	11.2		"	10.0		112	76-135		3.08	30	
Methylene chloride	8.28		"	10.0		82.8	55-137		2.62	30	
Naphthalene	9.93		"	10.0		99.3	70-147		6.81	30	
n-Butylbenzene	8.72		"	10.0		87.2	79-132		4.81	30	
n-Propylbenzene	9.17		"	10.0		91.7	78-133		3.32	30	
o-Xylene	10.1		"	10.0		101	78-130		1.76	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 BG80246 - EPA 5030B											
LCS Dup (BG80246-BSD1)								Prepared & Analyzed: 07/06/2018			
p- & m- Xylenes	18.5		ug/L	20.0		92.4	77-133		2.51	30	
p-Isopropyltoluene	8.91		"	10.0		89.1	81-136		4.71	30	
sec-Butylbenzene	8.93		"	10.0		89.3	79-137		4.92	30	
Styrene	10.3		"	10.0		103	67-132		1.45	30	
tert-Butylbenzene	9.04		"	10.0		90.4	77-138		3.59	30	
Tetrachloroethylene	10.5		"	10.0		105	82-131		0.0954	30	
Toluene	9.77		"	10.0		97.7	80-127		2.53	30	
trans-1,2-Dichloroethylene	10.3		"	10.0		103	80-132		2.97	30	
trans-1,3-Dichloropropylene	9.74		"	10.0		97.4	78-131		1.83	30	
Trichloroethylene	9.75		"	10.0		97.5	82-128		0.617	30	
Trichlorofluoromethane	10.6		"	10.0		106	67-139		3.17	30	
Vinyl Chloride	9.80		"	10.0		98.0	58-145		3.21	30	
Surrogate: 1,2-Dichloroethane-d4	*10.2*		*"*	*10.0*		*102*	*69-130*				
Surrogate: Toluene-d8	*9.62*		*"*	*10.0*		*96.2*	*81-117*				
Surrogate: p-Bromofluorobenzene	*9.31*		*"*	*10.0*		*93.1*	*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 BG80196 - EPA 3015A											
Blank (BG80196-BLK1)								Prepared & Analyzed: 07/05/2018			
Iron - Dissolved	ND	0.0222	mg/L								
LCS (BG80196-BS1)								Prepared & Analyzed: 07/05/2018			
Iron - Dissolved	1.20		ug/mL	1.00		120	80-120				
Batch BG80329 - EPA 200.7											
Blank (BG80329-BLK1)								Prepared & Analyzed: 07/10/2018			
Iron	ND	0.0222	mg/L								
LCS (BG80329-BS1)								Prepared & Analyzed: 07/10/2018			
Iron	1.12		ug/mL	1.00		112	85-115				

Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG80396 - % Solids Prep											
Blank (BG80396-BLK1)											Prepared & Analyzed: 07/09/2018
Total Dissolved Solids	ND	10.0	mg/L								

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
18G0079-01	WQ070218:1425 NP2-6	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18G0080-01	WQ070218:1430 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.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

YORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
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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. 18G0079

YOUR Information	Report to:	Invoice To:	Your Project ID	Turn-Around Time
Company: WSP USA	SAME [X]	SAME [X]	31401451.000 task 01.00	RUSH-Same Day
Address: 4 Research Drive	Name:	Name:		RUSH-Next Day
Suite 301, Shelton CT 06484	Company:	Company:	Purchase Order #	RUSH-Two Day
Phone.: 203.929.8555	Address:	Address:	31401451.000 task 01.00	RUSH-Three Day
Contact: Tunde Sandor				RUSH-Four Day
E-mail: tunde.sandor@wsp.com		E-mail	Samples from CT__NY x_NJ__	Standard (5-7day) X

Report/Deliverable Type

Summary Report	X, PDF
QA Report	X, PDF
CT RCP	
CT RCP DQA/DUE Pkg	
NY ASP A Package	
NY ASP B Package	X, PDF
NJDEP Reduced Deliv	
Excel	X
NYSDEC EQuIS	
NJDEP SRP HazSite	
EQuIS	
GIS/KEY (std)	

YORK Regulatory Comp Excel compared to:

OTHER:

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

Samples Collected/Authorized By (Signature)

Evan Foster
Name (printed)

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

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

Sample Identification	Date+Time Sampled	Matrix	Analysis Requested (List above includes common analysis)	Container Description
WQ070218:1425 MW-6	7-2-18; 1425	GW	VOCs 8260 full plus freon 113	3 voa's
" 1430 MW-10	" ; 1430	GW	Fe by EPA 200.7; Fe dissolved by EPA 6010; VOCs 8260 full plus freon 113; TDS	3 voa's; 3 plastic

Comments:

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

Special Instructions
Field Filtered ☐
Lab to Filter ☐

system)

Samples Relinquished By	Date/Time	Samples Received By	Date/Time	Temperature on Receipt
	7-3-18 9:00	WSP Fridge	7-3-18 9:00	2-3 °C
	7/3/18 1334		7-3-18 13:34	
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time	

Rec'd by lt 7/3/18 12:23

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Field Chain-of-Custody Record

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York Project No. 18G0080

YOUR Information	Report to:	Invoice To:	Your Project ID	Turn-Around Time	Report/Deliverable Type
Company: WSP USA	SAME [X]	SAME [X]	31401451.000 task 01.00	RUSH-Same Day	Summary Report X, PDF
Address: 4 Research Drive	Name:	Name:		RUSH-Next Day	QA Report X, PDF
Suite 301, Shelton CT 06484	Company:	Company:	Purchase Order #	RUSH-Two Day	CT RCP
Phone.: 203.929.8555	Address:	Address:	31401451.000 task 01.00	RUSH-Three Day	CT RCP DQA/DUE Pkg
Contact: Tunde Sandor				RUSH-Four Day	NY ASP A Package
E-mail: tunde.sandor@wsp.com		E-mail	Samples from CT__NY x_NJ__	Standard (5-7day) X	NY ASP B Package X, PDF
					NJDEP Reduced Deliv
					Excel X
					NYSDEC EQuIS
					NJDEP SRP HazSite
					EQuIS
					GIS/KEY (std)
					YORK Regulatory Comp Excel compared to:
					OTHER:

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

Samples Collected/Authorized By (Signature)

Evan Foster
Name (printed)

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

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

Sample Identification	Date+Time Sampled	Matrix	Analysis Requested (List above includes common analysis)	Container Description
WQ07021B:1425 MP2-6	7-2-18; 1425	GW	VOCs 8260 full plus freon 113	3 voa's
" 1430 MP2-10	" ; 1430	GW	Fe by EPA 200.7; Fe dissolved by EPA 6010; VOCs 8260 full plus freon 113; TDS	3 voa's; 3 plastic

Comments:

(system)

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

Special Instructions
Field Filtered ☐
Lab to Filter ☐

Samples Relinquished By	7-3-18 8:00	WSP Fridge	7-3-18 8:00
Samples Relinquished By	7/3/18 1334	Samples Received in LAB by	7-3-18 13:34

Temperature on Receipt: 2-3 °C

Rec'd by LT 7/3/18 12:23

APPENDIX II

JULY 2018 LABORATORY ANALYTICAL REPORTS

FOR FSP&T AND FP&T RECOVERY WELLS

Technical Report

prepared for:

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

Report Date: 07/10/2018
Client Project ID: 31401451.000 task 01.00
York Project (SDG) No.: 18G0081

Report Date: 07/10/2018
Client Project ID: 31401451.000 task 01.00
York Project (SDG) No.: 18G0081

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

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on July 03, 2018 and listed below. The project was identified as your project: **31401451.000 task 01.00**.

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
18G0081-01	WQ070218:1420 NP1-1-2	Water	07/02/2018	07/03/2018

General Notes for York Project (SDG) No.: 18G0081

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 07/10/2018

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: WQ070218:1420 NP1-1-2 **York Sample ID:** 18G0081-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G0081	31401451.000 task 01.00	Water	July 2, 2018 2:20 pm	07/03/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

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

Sample Information

Client Sample ID: WQ070218:1420 NP1-1-2 **York Sample ID:** 18G0081-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G0081	31401451.000 task 01.00	Water	July 2, 2018 2:20 pm	07/03/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:13 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:13 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
67-66-3	**Chloroform**	**0.28**	J	ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:13 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:13 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:13 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS

Sample Information

Client Sample ID: WQ070218:1420 NP1-1-2 **York Sample ID:** 18G0081-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G0081	31401451.000 task 01.00	Water	July 2, 2018 2:20 pm	07/03/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:13 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:13 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:13 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
127-18-4	**Tetrachloroethylene**	**0.22**	J	ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:13 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*99.8 %*	*69-130*
2037-26-5	*Surrogate: Toluene-d8*	*92.5 %*	*81-117*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*96.0 %*	*79-122*

Analytical Batch Summary

Batch ID: BG80246 **Preparation Method:** EPA 5030B **Prepared By:** TAB

YORK Sample ID	Client Sample ID	Preparation Date
18G0081-01	WQ070218:1420 NP1-1-2	07/06/18
BG80246-BLK1	Blank	07/06/18
BG80246-BS1	LCS	07/06/18
BG80246-BSD1	LCS Dup	07/06/18

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG80246 - EPA 5030B											
Blank (BG80246-BLK1)											Prepared & Analyzed: 07/06/2018
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,1-Dichloropropylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,3-Dichloropropane	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2,2-Dichloropropane	ND	0.50	"								
2-Chlorotoluene	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Chlorotoluene	ND	0.50	"								
Acetone	ND	2.0	"								
Benzene	ND	0.50	"								
Bromobenzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylene chloride	ND	2.0	"								
Naphthalene	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG80246 - EPA 5030B											
Blank (BG80246-BLK1)								Prepared & Analyzed: 07/06/2018			
o-Xylene	ND	0.50	ug/L								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: 1,2-Dichloroethane-d4	*10.5*		*"*	*10.0*		*105*	*69-130*				
Surrogate: Toluene-d8	*9.64*		*"*	*10.0*		*96.4*	*81-117*				
Surrogate: p-Bromofluorobenzene	*9.87*		*"*	*10.0*		*98.7*	*79-122*				
LCS (BG80246-BS1)								Prepared & Analyzed: 07/06/2018			
1,1,1,2-Tetrachloroethane	10.4		ug/L	10.0		104	82-126				
1,1,1-Trichloroethane	11.1		"	10.0		111	78-136				
1,1,2,2-Tetrachloroethane	10.1		"	10.0		101	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.6		"	10.0		116	54-165				
1,1,2-Trichloroethane	10.8		"	10.0		108	82-123				
1,1-Dichloroethane	10.9		"	10.0		109	82-129				
1,1-Dichloroethylene	10.4		"	10.0		104	68-138				
1,1-Dichloropropylene	10.8		"	10.0		108	83-133				
1,2,3-Trichlorobenzene	10.2		"	10.0		102	76-136				
1,2,3-Trichloropropane	10.3		"	10.0		103	77-128				
1,2,4-Trichlorobenzene	9.45		"	10.0		94.5	76-137				
1,2,4-Trimethylbenzene	9.51		"	10.0		95.1	82-132				
1,2-Dibromo-3-chloropropane	10.1		"	10.0		101	45-147				
1,2-Dibromoethane	10.8		"	10.0		108	83-124				
1,2-Dichlorobenzene	9.57		"	10.0		95.7	79-123				
1,2-Dichloroethane	11.5		"	10.0		115	73-132				
1,2-Dichloropropane	9.92		"	10.0		99.2	78-126				
1,3,5-Trimethylbenzene	9.42		"	10.0		94.2	80-131				
1,3-Dichlorobenzene	9.65		"	10.0		96.5	86-122				
1,3-Dichloropropane	10.6		"	10.0		106	81-125				
1,4-Dichlorobenzene	9.43		"	10.0		94.3	85-124				
2,2-Dichloropropane	10.8		"	10.0		108	56-150				
2-Chlorotoluene	9.54		"	10.0		95.4	79-130				
2-Hexanone	11.2		"	10.0		112	51-146				
4-Chlorotoluene	9.53		"	10.0		95.3	79-128				
Acetone	13.7		"	10.0		137	14-150				
Benzene	11.0		"	10.0		110	85-126				
Bromobenzene	9.43		"	10.0		94.3	78-129				
Bromochloromethane	11.3		"	10.0		113	77-128				
Bromodichloromethane	10.2		"	10.0		102	79-128				
Bromoform	10.5		"	10.0		105	78-133				
Bromomethane	4.27		"	10.0		42.7	43-168	Low Bias			

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 BG80246 - EPA 5030B											
LCS (BG80246-BS1)								Prepared & Analyzed: 07/06/2018			
Carbon tetrachloride	11.0		ug/L	10.0		110	77-141				
Chlorobenzene	10.2		"	10.0		102	88-120				
Chloroethane	10.4		"	10.0		104	65-136				
Chloroform	11.2		"	10.0		112	82-128				
Chloromethane	7.87		"	10.0		78.7	43-155				
cis-1,2-Dichloroethylene	11.0		"	10.0		110	83-129				
cis-1,3-Dichloropropylene	10.0		"	10.0		100	80-131				
Dibromochloromethane	10.6		"	10.0		106	80-130				
Dibromomethane	10.6		"	10.0		106	72-134				
Dichlorodifluoromethane	9.21		"	10.0		92.1	44-144				
Ethyl Benzene	10.2		"	10.0		102	80-131				
Hexachlorobutadiene	8.13		"	10.0		81.3	67-146				
Isopropylbenzene	9.38		"	10.0		93.8	76-140				
Methyl tert-butyl ether (MTBE)	11.6		"	10.0		116	76-135				
Methylene chloride	8.50		"	10.0		85.0	55-137				
Naphthalene	10.6		"	10.0		106	70-147				
n-Butylbenzene	9.15		"	10.0		91.5	79-132				
n-Propylbenzene	9.48		"	10.0		94.8	78-133				
o-Xylene	10.3		"	10.0		103	78-130				
p- & m- Xylenes	19.0		"	20.0		94.8	77-133				
p-Isopropyltoluene	9.34		"	10.0		93.4	81-136				
sec-Butylbenzene	9.38		"	10.0		93.8	79-137				
Styrene	10.4		"	10.0		104	67-132				
tert-Butylbenzene	9.37		"	10.0		93.7	77-138				
Tetrachloroethylene	10.5		"	10.0		105	82-131				
Toluene	10.0		"	10.0		100	80-127				
trans-1,2-Dichloroethylene	10.6		"	10.0		106	80-132				
trans-1,3-Dichloropropylene	9.92		"	10.0		99.2	78-131				
Trichloroethylene	9.69		"	10.0		96.9	82-128				
Trichlorofluoromethane	10.9		"	10.0		109	67-139				
Vinyl Chloride	10.1		"	10.0		101	58-145				
Surrogate: 1,2-Dichloroethane-d4	*10.4*		*"*	*10.0*		*104*	*69-130*				
Surrogate: Toluene-d8	*9.61*		*"*	*10.0*		*96.1*	*81-117*				
Surrogate: p-Bromofluorobenzene	*9.44*		*"*	*10.0*		*94.4*	*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 BG80246 - EPA 5030B											
LCS Dup (BG80246-BSD1)								Prepared & Analyzed: 07/06/2018			
1,1,1,2-Tetrachloroethane	10.4		ug/L	10.0		104	82-126		0.673	30	
1,1,1-Trichloroethane	10.5		"	10.0		105	78-136		4.91	30	
1,1,2,2-Tetrachloroethane	9.79		"	10.0		97.9	76-129		3.02	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.0		"	10.0		110	54-165		5.59	30	
1,1,2-Trichloroethane	10.5		"	10.0		105	82-123		3.19	30	
1,1-Dichloroethane	10.5		"	10.0		105	82-129		3.65	30	
1,1-Dichloroethylene	9.93		"	10.0		99.3	68-138		4.33	30	
1,1-Dichloropropylene	10.4		"	10.0		104	83-133		4.14	30	
1,2,3-Trichlorobenzene	9.60		"	10.0		96.0	76-136		6.06	30	
1,2,3-Trichloropropane	9.75		"	10.0		97.5	77-128		5.78	30	
1,2,4-Trichlorobenzene	9.13		"	10.0		91.3	76-137		3.44	30	
1,2,4-Trimethylbenzene	9.20		"	10.0		92.0	82-132		3.31	30	
1,2-Dibromo-3-chloropropane	9.59		"	10.0		95.9	45-147		5.38	30	
1,2-Dibromoethane	10.4		"	10.0		104	83-124		3.87	30	
1,2-Dichlorobenzene	9.28		"	10.0		92.8	79-123		3.08	30	
1,2-Dichloroethane	11.0		"	10.0		110	73-132		4.10	30	
1,2-Dichloropropane	9.70		"	10.0		97.0	78-126		2.24	30	
1,3,5-Trimethylbenzene	9.12		"	10.0		91.2	80-131		3.24	30	
1,3-Dichlorobenzene	9.31		"	10.0		93.1	86-122		3.59	30	
1,3-Dichloropropane	10.2		"	10.0		102	81-125		3.77	30	
1,4-Dichlorobenzene	9.20		"	10.0		92.0	85-124		2.47	30	
2,2-Dichloropropane	10.3		"	10.0		103	56-150		4.75	30	
2-Chlorotoluene	9.20		"	10.0		92.0	79-130		3.63	30	
2-Hexanone	11.0		"	10.0		110	51-146		1.89	30	
4-Chlorotoluene	9.32		"	10.0		93.2	79-128		2.23	30	
Acetone	16.2		"	10.0		162	14-150	High Bias	16.9	30	
Benzene	10.6		"	10.0		106	85-126		2.87	30	
Bromobenzene	9.07		"	10.0		90.7	78-129		3.89	30	
Bromochloromethane	11.1		"	10.0		111	77-128		2.41	30	
Bromodichloromethane	10.1		"	10.0		101	79-128		1.18	30	
Bromoform	10.4		"	10.0		104	78-133		1.53	30	
Bromomethane	4.72		"	10.0		47.2	43-168		10.0	30	
Carbon tetrachloride	10.4		"	10.0		104	77-141		5.22	30	
Chlorobenzene	10.2		"	10.0		102	88-120		0.293	30	
Chloroethane	10.0		"	10.0		100	65-136		3.82	30	
Chloroform	10.9		"	10.0		109	82-128		2.71	30	
Chloromethane	7.91		"	10.0		79.1	43-155		0.507	30	
cis-1,2-Dichloroethylene	10.7		"	10.0		107	83-129		2.75	30	
cis-1,3-Dichloropropylene	9.72		"	10.0		97.2	80-131		2.94	30	
Dibromochloromethane	10.3		"	10.0		103	80-130		2.68	30	
Dibromomethane	10.3		"	10.0		103	72-134		3.26	30	
Dichlorodifluoromethane	8.85		"	10.0		88.5	44-144		3.99	30	
Ethyl Benzene	9.94		"	10.0		99.4	80-131		2.68	30	
Hexachlorobutadiene	7.77		"	10.0		77.7	67-146		4.53	30	
Isopropylbenzene	9.19		"	10.0		91.9	76-140		2.05	30	
Methyl tert-butyl ether (MTBE)	11.2		"	10.0		112	76-135		3.08	30	
Methylene chloride	8.28		"	10.0		82.8	55-137		2.62	30	
Naphthalene	9.93		"	10.0		99.3	70-147		6.81	30	
n-Butylbenzene	8.72		"	10.0		87.2	79-132		4.81	30	
n-Propylbenzene	9.17		"	10.0		91.7	78-133		3.32	30	
o-Xylene	10.1		"	10.0		101	78-130		1.76	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 BG80246 - EPA 5030B											
LCS Dup (BG80246-BSD1)								Prepared & Analyzed: 07/06/2018			
p- & m- Xylenes	18.5		ug/L	20.0		92.4	77-133		2.51	30	
p-Isopropyltoluene	8.91		"	10.0		89.1	81-136		4.71	30	
sec-Butylbenzene	8.93		"	10.0		89.3	79-137		4.92	30	
Styrene	10.3		"	10.0		103	67-132		1.45	30	
tert-Butylbenzene	9.04		"	10.0		90.4	77-138		3.59	30	
Tetrachloroethylene	10.5		"	10.0		105	82-131		0.0954	30	
Toluene	9.77		"	10.0		97.7	80-127		2.53	30	
trans-1,2-Dichloroethylene	10.3		"	10.0		103	80-132		2.97	30	
trans-1,3-Dichloropropylene	9.74		"	10.0		97.4	78-131		1.83	30	
Trichloroethylene	9.75		"	10.0		97.5	82-128		0.617	30	
Trichlorofluoromethane	10.6		"	10.0		106	67-139		3.17	30	
Vinyl Chloride	9.80		"	10.0		98.0	58-145		3.21	30	
Surrogate: 1,2-Dichloroethane-d4	*10.2*		*"*	*10.0*		*102*	*69-130*				
Surrogate: Toluene-d8	*9.62*		*"*	*10.0*		*96.2*	*81-117*				
Surrogate: p-Bromofluorobenzene	*9.31*		*"*	*10.0*		*93.1*	*79-122*				

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
18G0081-01	WQ070218:1420 NP1-1-2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

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

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

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

Field Chain-of-Custody Record

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

York Project No. 18G0081

YOUR Information	Report to:	Invoice To:	Your Project ID	Turn-Around Time
Company: WSP USA	SAME [X]	SAME [X]	31401451.000 task 01.00	RUSH-Same Day
Address: 4 Research Drive	Name:	Name:		RUSH-Next Day
Suite 301, Shelton CT 06484	Company:	Company:	Purchase Order #	RUSH-Two Day
Phone.: 203.929.8555	Address:	Address:	31401451.000 task 01.00	RUSH-Three Day
Contact: Tunde Sandor				RUSH-Four Day
E-mail: tunde.sandor@wsp.com		E-mail	Samples from CT__NY x_NJ__	Standard (5-7day) X

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

YORK Regulatory Comp Excel *compared to:*

OTHER:

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

Samples Collected/Authorized By (Signature)

Evan Foster
Name (printed)

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

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

Sample Identification	Date+Time Sampled	Matrix	Analysis Requested (List above includes common analysis)	Container Description
WBO70218:1420 MP1-1-2	7-2-18; 1420	GW	VOCs 8260 full plus freon 113	3 voa's

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

Comments:

(system)

Special Instructions
Field Filtered ☐
Lab to Filter ☐

Samples Relinquished By	Date/Time 7-3-18 800	Samples Received By WSP Fridge	Date/Time 7-3-18 800
Samples Relinquished By	Date/Time 7/3/18 1334	Samples Received in LAB by	Date/Time 7-3-18 13:34

Temperature on Receipt 2-3 °C

Rec'd at 7/3/18 12:25

Technical Report

prepared for:

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

Report Date: 07/10/2018
Client Project ID: 31401451.00 task 01.00
York Project (SDG) No.: 18G0083

Report Date: 07/10/2018
Client Project ID: 31401451.00 task 01.00
York Project (SDG) No.: 18G0083

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

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on July 03, 2018 and listed below. The project was identified as your project: **31401451.00 task 01.00**.

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
18G0083-01	WQ070218:1350 FRW-1	Water	07/02/2018	07/03/2018
18G0083-02	WQ070218:1355 FRW-2	Water	07/02/2018	07/03/2018
18G0083-03	WQ070218:1400 FRW-3	Water	07/02/2018	07/03/2018
18G0083-04	WQ070218:1405 FRW-4	Water	07/02/2018	07/03/2018

General Notes for York Project (SDG) No.: 18G0083

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 07/10/2018

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: WQ070218:1350 FRW-1 **York Sample ID:** 18G0083-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G0083	31401451.00 task 01.00	Water	July 2, 2018 1:50 pm	07/03/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:45	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:45	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:45	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:45	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:45	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:45	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:45	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:45	SS NELAC-NY10854,NELAC-NY12058,NJDEP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:45	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:45	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:45	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:45	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:45	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:45	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:45	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:45	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:45	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:45	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:45	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:45	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:45	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:45	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP

Sample Information

Client Sample ID: WQ070218:1350 FRW-1 **York Sample ID:** 18G0083-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G0083	31401451.00 task 01.00	Water	July 2, 2018 1:50 pm	07/03/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 19:45	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 19:45	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 19:45	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 19:45	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 19:45	SS
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 19:45	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 19:45	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 19:45	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 19:45	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 19:45	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 19:45	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 19:45	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 19:45	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 19:45	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 19:45	SS
156-59-2	**cis-1,2-Dichloroethylene**	**0.60**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 19:45	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 19:45	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 19:45	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 19:45	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 19:45	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 19:45	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 19:45	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 19:45	SS

Sample Information

Client Sample ID: WQ070218:1350 FRW-1 **York Sample ID:** 18G0083-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G0083	31401451.00 task 01.00	Water	July 2, 2018 1:50 pm	07/03/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:45 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:45 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:45 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:45 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:45 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:45 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:45 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:45 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:45 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:45 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:45 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
127-18-4	**Tetrachloroethylene**	**22**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:45 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:45 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:45 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:45 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
79-01-6	**Trichloroethylene**	**0.66**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:45 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:45 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:45 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 19:45 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*97.6 %*	*69-130*
2037-26-5	*Surrogate: Toluene-d8*	*92.7 %*	*81-117*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*99.6 %*	*79-122*

Nitrate as N

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: WQ070218:1350 FRW-1 **York Sample ID:** 18G0083-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G0083	31401451.00 task 01.00	Water	July 2, 2018 1:50 pm	07/03/2018

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	**Nitrate as N**	**0.870**		mg/L	0.0500	1	EPA 300.0	07/03/2018 20:16	07/03/2018 20:16	AD
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Nitrite as N **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-65-0	Nitrite as N	ND		mg/L	0.0500	1	EPA 300.0	07/03/2018 20:16	07/03/2018 20:16	AD
							Certifications: NELAC-NY10854,CTDOH,PADEP			

Sample Information

Client Sample ID: WQ070218:1355 FRW-2 **York Sample ID:** 18G0083-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G0083	31401451.00 task 01.00	Water	July 2, 2018 1:55 pm	07/03/2018

Volatile Organics, 8260 List - Low Level **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 20:17	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 20:17	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 20:17	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 20:17	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 20:17	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 20:17	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 20:17	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 20:17	SS
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 20:17	SS
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 20:17	SS
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 20:17	SS
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 20:17	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: WQ070218:1355 FRW-2 **York Sample ID:** 18G0083-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G0083	31401451.00 task 01.00	Water	July 2, 2018 1:55 pm	07/03/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS

Sample Information

Client Sample ID: WQ070218:1355 FRW-2 **York Sample ID:** 18G0083-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G0083	31401451.00 task 01.00	Water	July 2, 2018 1:55 pm	07/03/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17	SS CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17	SS CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
127-18-4	**Tetrachloroethylene**	**3.8**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:17	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP

Sample Information

Client Sample ID: WQ070218:1355 FRW-2 **York Sample ID:** 18G0083-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G0083	31401451.00 task 01.00	Water	July 2, 2018 1:55 pm	07/03/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 20:17	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 20:17	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 20:17	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 20:17	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 20:17	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	07/06/2018 07:30	07/06/2018 20:17	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*98.0 %*	*69-130*
2037-26-5	*Surrogate: Toluene-d8*	*92.5 %*	*81-117*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*98.2 %*	*79-122*

Nitrate as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	**Nitrate as N**	**0.0820**		mg/L	0.0500	1	EPA 300.0	07/03/2018 20:34	07/03/2018 20:34	AD
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

Nitrite as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-65-0	Nitrite as N	ND		mg/L	0.0500	1	EPA 300.0	07/03/2018 20:34	07/03/2018 20:34	AD
							Certifications:	NELAC-NY10854,CTDOH,PADEP		

Sample Information

Client Sample ID: WQ070218:1400 FRW-3 **York Sample ID:** 18G0083-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G0083	31401451.00 task 01.00	Water	July 2, 2018 2:00 pm	07/03/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

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

Sample Information

Client Sample ID: WQ070218:1400 FRW-3 **York Sample ID:** 18G0083-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G0083	31401451.00 task 01.00	Water	July 2, 2018 2:00 pm	07/03/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48 NELAC-NY10854,NELAC-NY12058,NJDEP	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS

Sample Information

Client Sample ID: WQ070218:1400 FRW-3 **York Sample ID:** 18G0083-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G0083	31401451.00 task 01.00	Water	July 2, 2018 2:00 pm	07/03/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
156-59-2	**cis-1,2-Dichloroethylene**	**1.4**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP

Sample Information

Client Sample ID: WQ070218:1400 FRW-3 **York Sample ID:** 18G0083-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G0083	31401451.00 task 01.00	Water	July 2, 2018 2:00 pm	07/03/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
127-18-4	**Tetrachloroethylene**	**49**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
79-01-6	**Trichloroethylene**	**1.4**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 20:48 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*98.2 %*	*69-130*
2037-26-5	*Surrogate: Toluene-d8*	*92.9 %*	*81-117*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*104 %*	*79-122*

Nitrate as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

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

Sample Information

Client Sample ID: WQ070218:1400 FRW-3 **York Sample ID:** 18G0083-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G0083	31401451.00 task 01.00	Water	July 2, 2018 2:00 pm	07/03/2018

Nitrate as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	**Nitrate as N**	**1.02**		mg/L	0.0500	1	EPA 300.0	07/03/2018 20:52	07/03/2018 20:52	AD
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Nitrite as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-65-0	Nitrite as N	ND		mg/L	0.0500	1	EPA 300.0	07/03/2018 20:52	07/03/2018 20:52	AD
							Certifications: NELAC-NY10854,CTDOH,PADEP			

Sample Information

Client Sample ID: WQ070218:1405 FRW-4 **York Sample ID:** 18G0083-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G0083	31401451.00 task 01.00	Water	July 2, 2018 2:05 pm	07/03/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 21:20	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 21:20	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 21:20	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 21:20	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 21:20	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 21:20	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 21:20	SS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 21:20	SS
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 21:20	SS
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 21:20	SS
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: WQ070218:1405 FRW-4 **York Sample ID:** 18G0083-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G0083	31401451.00 task 01.00	Water	July 2, 2018 2:05 pm	07/03/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 21:20	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 21:20	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 21:20	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 21:20	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 21:20	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 21:20	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 21:20	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 21:20	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 21:20	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 21:20	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 21:20	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 21:20	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 21:20	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 21:20	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 21:20	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 21:20	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 21:20	SS
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 21:20	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 21:20	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 21:20	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 21:20	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 21:20	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/06/2018 21:20	SS

Sample Information

Client Sample ID: WQ070218:1405 FRW-4 **York Sample ID:** 18G0083-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G0083	31401451.00 task 01.00	Water	July 2, 2018 2:05 pm	07/03/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 21:20 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 21:20 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 21:20 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 21:20 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 21:20 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 21:20 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 21:20 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 21:20 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 21:20 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 21:20 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 21:20 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 21:20 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 21:20 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 21:20 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 21:20 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 21:20 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 21:20 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 21:20 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 21:20 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 21:20 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 21:20 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 21:20 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/06/2018 07:30	07/06/2018 21:20 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS

Sample Information

Client Sample ID: WQ070218:1405 FRW-4 **York Sample ID:** 18G0083-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G0083	31401451.00 task 01.00	Water	July 2, 2018 2:05 pm	07/03/2018

Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	**Tetrachloroethylene**	**1.7**		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 21:20	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 21:20	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 21:20	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 21:20	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 21:20	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 21:20	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	07/06/2018 07:30	07/06/2018 21:20	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	07/06/2018 07:30	07/06/2018 21:20	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*99.4 %*	*69-130*
2037-26-5	*Surrogate: Toluene-d8*	*92.7 %*	*81-117*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*101 %*	*79-122*

Analytical Batch Summary

Batch ID: BG80217 **Preparation Method:** EPA 300 **Prepared By:** AD

YORK Sample ID	Client Sample ID	Preparation Date
18G0083-01	WQ070218:1350 FRW-1	07/03/18
18G0083-02	WQ070218:1355 FRW-2	07/03/18
18G0083-03	WQ070218:1400 FRW-3	07/03/18
BG80217-BLK1	Blank	07/03/18
BG80217-BS1	LCS	07/03/18

Batch ID: BG80246 **Preparation Method:** EPA 5030B **Prepared By:** TAB

YORK Sample ID	Client Sample ID	Preparation Date
18G0083-01	WQ070218:1350 FRW-1	07/06/18
18G0083-02	WQ070218:1355 FRW-2	07/06/18
18G0083-03	WQ070218:1400 FRW-3	07/06/18
18G0083-04	WQ070218:1405 FRW-4	07/06/18
BG80246-BLK1	Blank	07/06/18
BG80246-BS1	LCS	07/06/18
BG80246-BSD1	LCS Dup	07/06/18

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG80246 - EPA 5030B											
Blank (BG80246-BLK1)											Prepared & Analyzed: 07/06/2018
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,1-Dichloropropylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,3-Dichloropropane	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2,2-Dichloropropane	ND	0.50	"								
2-Chlorotoluene	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Chlorotoluene	ND	0.50	"								
Acetone	ND	2.0	"								
Benzene	ND	0.50	"								
Bromobenzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylene chloride	ND	2.0	"								
Naphthalene	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG80246 - EPA 5030B											
Blank (BG80246-BLK1)								Prepared & Analyzed: 07/06/2018			
o-Xylene	ND	0.50	ug/L								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: 1,2-Dichloroethane-d4	*10.5*		*"*	*10.0*		*105*	*69-130*				
Surrogate: Toluene-d8	*9.64*		*"*	*10.0*		*96.4*	*81-117*				
Surrogate: p-Bromofluorobenzene	*9.87*		*"*	*10.0*		*98.7*	*79-122*				
LCS (BG80246-BS1)								Prepared & Analyzed: 07/06/2018			
1,1,1,2-Tetrachloroethane	10.4		ug/L	10.0		104	82-126				
1,1,1-Trichloroethane	11.1		"	10.0		111	78-136				
1,1,2,2-Tetrachloroethane	10.1		"	10.0		101	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.6		"	10.0		116	54-165				
1,1,2-Trichloroethane	10.8		"	10.0		108	82-123				
1,1-Dichloroethane	10.9		"	10.0		109	82-129				
1,1-Dichloroethylene	10.4		"	10.0		104	68-138				
1,1-Dichloropropylene	10.8		"	10.0		108	83-133				
1,2,3-Trichlorobenzene	10.2		"	10.0		102	76-136				
1,2,3-Trichloropropane	10.3		"	10.0		103	77-128				
1,2,4-Trichlorobenzene	9.45		"	10.0		94.5	76-137				
1,2,4-Trimethylbenzene	9.51		"	10.0		95.1	82-132				
1,2-Dibromo-3-chloropropane	10.1		"	10.0		101	45-147				
1,2-Dibromoethane	10.8		"	10.0		108	83-124				
1,2-Dichlorobenzene	9.57		"	10.0		95.7	79-123				
1,2-Dichloroethane	11.5		"	10.0		115	73-132				
1,2-Dichloropropane	9.92		"	10.0		99.2	78-126				
1,3,5-Trimethylbenzene	9.42		"	10.0		94.2	80-131				
1,3-Dichlorobenzene	9.65		"	10.0		96.5	86-122				
1,3-Dichloropropane	10.6		"	10.0		106	81-125				
1,4-Dichlorobenzene	9.43		"	10.0		94.3	85-124				
2,2-Dichloropropane	10.8		"	10.0		108	56-150				
2-Chlorotoluene	9.54		"	10.0		95.4	79-130				
2-Hexanone	11.2		"	10.0		112	51-146				
4-Chlorotoluene	9.53		"	10.0		95.3	79-128				
Acetone	13.7		"	10.0		137	14-150				
Benzene	11.0		"	10.0		110	85-126				
Bromobenzene	9.43		"	10.0		94.3	78-129				
Bromochloromethane	11.3		"	10.0		113	77-128				
Bromodichloromethane	10.2		"	10.0		102	79-128				
Bromoform	10.5		"	10.0		105	78-133				
Bromomethane	4.27		"	10.0		42.7	43-168	Low Bias			

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 BG80246 - EPA 5030B											
LCS (BG80246-BS1)								Prepared & Analyzed: 07/06/2018			
Carbon tetrachloride	11.0		ug/L	10.0		110	77-141				
Chlorobenzene	10.2		"	10.0		102	88-120				
Chloroethane	10.4		"	10.0		104	65-136				
Chloroform	11.2		"	10.0		112	82-128				
Chloromethane	7.87		"	10.0		78.7	43-155				
cis-1,2-Dichloroethylene	11.0		"	10.0		110	83-129				
cis-1,3-Dichloropropylene	10.0		"	10.0		100	80-131				
Dibromochloromethane	10.6		"	10.0		106	80-130				
Dibromomethane	10.6		"	10.0		106	72-134				
Dichlorodifluoromethane	9.21		"	10.0		92.1	44-144				
Ethyl Benzene	10.2		"	10.0		102	80-131				
Hexachlorobutadiene	8.13		"	10.0		81.3	67-146				
Isopropylbenzene	9.38		"	10.0		93.8	76-140				
Methyl tert-butyl ether (MTBE)	11.6		"	10.0		116	76-135				
Methylene chloride	8.50		"	10.0		85.0	55-137				
Naphthalene	10.6		"	10.0		106	70-147				
n-Butylbenzene	9.15		"	10.0		91.5	79-132				
n-Propylbenzene	9.48		"	10.0		94.8	78-133				
o-Xylene	10.3		"	10.0		103	78-130				
p- & m- Xylenes	19.0		"	20.0		94.8	77-133				
p-Isopropyltoluene	9.34		"	10.0		93.4	81-136				
sec-Butylbenzene	9.38		"	10.0		93.8	79-137				
Styrene	10.4		"	10.0		104	67-132				
tert-Butylbenzene	9.37		"	10.0		93.7	77-138				
Tetrachloroethylene	10.5		"	10.0		105	82-131				
Toluene	10.0		"	10.0		100	80-127				
trans-1,2-Dichloroethylene	10.6		"	10.0		106	80-132				
trans-1,3-Dichloropropylene	9.92		"	10.0		99.2	78-131				
Trichloroethylene	9.69		"	10.0		96.9	82-128				
Trichlorofluoromethane	10.9		"	10.0		109	67-139				
Vinyl Chloride	10.1		"	10.0		101	58-145				
Surrogate: 1,2-Dichloroethane-d4	*10.4*		*"*	*10.0*		*104*	*69-130*				
Surrogate: Toluene-d8	*9.61*		*"*	*10.0*		*96.1*	*81-117*				
Surrogate: p-Bromofluorobenzene	*9.44*		*"*	*10.0*		*94.4*	*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 BG80246 - EPA 5030B											
LCS Dup (BG80246-BSD1)								Prepared & Analyzed: 07/06/2018			
1,1,1,2-Tetrachloroethane	10.4		ug/L	10.0		104	82-126		0.673	30	
1,1,1-Trichloroethane	10.5		"	10.0		105	78-136		4.91	30	
1,1,2,2-Tetrachloroethane	9.79		"	10.0		97.9	76-129		3.02	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.0		"	10.0		110	54-165		5.59	30	
1,1,2-Trichloroethane	10.5		"	10.0		105	82-123		3.19	30	
1,1-Dichloroethane	10.5		"	10.0		105	82-129		3.65	30	
1,1-Dichloroethylene	9.93		"	10.0		99.3	68-138		4.33	30	
1,1-Dichloropropylene	10.4		"	10.0		104	83-133		4.14	30	
1,2,3-Trichlorobenzene	9.60		"	10.0		96.0	76-136		6.06	30	
1,2,3-Trichloropropane	9.75		"	10.0		97.5	77-128		5.78	30	
1,2,4-Trichlorobenzene	9.13		"	10.0		91.3	76-137		3.44	30	
1,2,4-Trimethylbenzene	9.20		"	10.0		92.0	82-132		3.31	30	
1,2-Dibromo-3-chloropropane	9.59		"	10.0		95.9	45-147		5.38	30	
1,2-Dibromoethane	10.4		"	10.0		104	83-124		3.87	30	
1,2-Dichlorobenzene	9.28		"	10.0		92.8	79-123		3.08	30	
1,2-Dichloroethane	11.0		"	10.0		110	73-132		4.10	30	
1,2-Dichloropropane	9.70		"	10.0		97.0	78-126		2.24	30	
1,3,5-Trimethylbenzene	9.12		"	10.0		91.2	80-131		3.24	30	
1,3-Dichlorobenzene	9.31		"	10.0		93.1	86-122		3.59	30	
1,3-Dichloropropane	10.2		"	10.0		102	81-125		3.77	30	
1,4-Dichlorobenzene	9.20		"	10.0		92.0	85-124		2.47	30	
2,2-Dichloropropane	10.3		"	10.0		103	56-150		4.75	30	
2-Chlorotoluene	9.20		"	10.0		92.0	79-130		3.63	30	
2-Hexanone	11.0		"	10.0		110	51-146		1.89	30	
4-Chlorotoluene	9.32		"	10.0		93.2	79-128		2.23	30	
Acetone	16.2		"	10.0		162	14-150	High Bias	16.9	30	
Benzene	10.6		"	10.0		106	85-126		2.87	30	
Bromobenzene	9.07		"	10.0		90.7	78-129		3.89	30	
Bromochloromethane	11.1		"	10.0		111	77-128		2.41	30	
Bromodichloromethane	10.1		"	10.0		101	79-128		1.18	30	
Bromoform	10.4		"	10.0		104	78-133		1.53	30	
Bromomethane	4.72		"	10.0		47.2	43-168		10.0	30	
Carbon tetrachloride	10.4		"	10.0		104	77-141		5.22	30	
Chlorobenzene	10.2		"	10.0		102	88-120		0.293	30	
Chloroethane	10.0		"	10.0		100	65-136		3.82	30	
Chloroform	10.9		"	10.0		109	82-128		2.71	30	
Chloromethane	7.91		"	10.0		79.1	43-155		0.507	30	
cis-1,2-Dichloroethylene	10.7		"	10.0		107	83-129		2.75	30	
cis-1,3-Dichloropropylene	9.72		"	10.0		97.2	80-131		2.94	30	
Dibromochloromethane	10.3		"	10.0		103	80-130		2.68	30	
Dibromomethane	10.3		"	10.0		103	72-134		3.26	30	
Dichlorodifluoromethane	8.85		"	10.0		88.5	44-144		3.99	30	
Ethyl Benzene	9.94		"	10.0		99.4	80-131		2.68	30	
Hexachlorobutadiene	7.77		"	10.0		77.7	67-146		4.53	30	
Isopropylbenzene	9.19		"	10.0		91.9	76-140		2.05	30	
Methyl tert-butyl ether (MTBE)	11.2		"	10.0		112	76-135		3.08	30	
Methylene chloride	8.28		"	10.0		82.8	55-137		2.62	30	
Naphthalene	9.93		"	10.0		99.3	70-147		6.81	30	
n-Butylbenzene	8.72		"	10.0		87.2	79-132		4.81	30	
n-Propylbenzene	9.17		"	10.0		91.7	78-133		3.32	30	
o-Xylene	10.1		"	10.0		101	78-130		1.76	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 BG80246 - EPA 5030B											
LCS Dup (BG80246-BSD1)								Prepared & Analyzed: 07/06/2018			
p- & m- Xylenes	18.5		ug/L	20.0		92.4	77-133		2.51	30	
p-Isopropyltoluene	8.91		"	10.0		89.1	81-136		4.71	30	
sec-Butylbenzene	8.93		"	10.0		89.3	79-137		4.92	30	
Styrene	10.3		"	10.0		103	67-132		1.45	30	
tert-Butylbenzene	9.04		"	10.0		90.4	77-138		3.59	30	
Tetrachloroethylene	10.5		"	10.0		105	82-131		0.0954	30	
Toluene	9.77		"	10.0		97.7	80-127		2.53	30	
trans-1,2-Dichloroethylene	10.3		"	10.0		103	80-132		2.97	30	
trans-1,3-Dichloropropylene	9.74		"	10.0		97.4	78-131		1.83	30	
Trichloroethylene	9.75		"	10.0		97.5	82-128		0.617	30	
Trichlorofluoromethane	10.6		"	10.0		106	67-139		3.17	30	
Vinyl Chloride	9.80		"	10.0		98.0	58-145		3.21	30	
Surrogate: 1,2-Dichloroethane-d4	*10.2*		*"*	*10.0*		*102*	*69-130*				
Surrogate: Toluene-d8	*9.62*		*"*	*10.0*		*96.2*	*81-117*				
Surrogate: p-Bromofluorobenzene	*9.31*		*"*	*10.0*		*93.1*	*79-122*				

Anions by Ion Chromatography - 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 BG80217 - EPA 300											
Blank (BG80217-BLK1)									Prepared & Analyzed: 07/03/2018		
Nitrate as N	ND	0.0500	mg/L								
Nitrite as N	ND	0.0500	"								
LCS (BG80217-BS1)									Prepared & Analyzed: 07/03/2018		
Nitrate as N	9.90	0.0500	mg/L	10.0		99.0	90-110				
Nitrite as N	10.2	0.0500	"	10.0		102	90-110				

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
18G0083-01	WQ070218:1350 FRW-1	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18G0083-02	WQ070218:1355 FRW-2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18G0083-03	WQ070218:1400 FRW-3	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18G0083-04	WQ070218:1405 FRW-4	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

YORK ANALYTICAL LABORATORIES
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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. 18G0083

YOUR Information	Report to:	Invoice To:	Your Project ID	Turn-Around Time
Company: WSP USA	SAME [X]	SAME [X]	31401451.000 task 01.00	RUSH-Same Day
Address: 4 Research Drive	Name:	Name:		RUSH-Next Day
Suite 301, Shelton CT 06484	Company:	Company:	Purchase Order #	RUSH-Two Day
Phone.: 203.929.8555	Address:	Address:	31401451.000 task 01.00	RUSH-Three Day
Contact: Tunde Sandor				RUSH-Four Day
E-mail: tunde.sandor@wsp.com		E-mail	Samples from CT__NY x_NJ__	Standard (5-7day) X

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

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

Samples Collected/Authorized By (Signature)

Evan Foster
Name (printed)

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

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

Sample Identification	Date+Time Sampled	Matrix	Analysis Requested (List above includes common analysis)	Container Description
WQ070218: 1350 FRW-1	7-2-18 ; 1350	GW	VOCs 8260 full plus freon 113; Nitrate/Nitrite	3 Voa; 1 plastic
1355 FRW-2	; 1355			3 Voa; 1 plastic
1400 FRW-3	; 1400			3 Voa; 1 plastic
1405 FRW-4	; 1405			

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

Comments:

Special Instructions
Field Filtered ☐
Lab to Filter ☐

(system)

Samples Relinquished By	7-3-18 800 Date/Time	Samples Received By: WSP Fridge	7-3-18 800 Date/Time
Samples Relinquished By	7/3/18 13:34 Date/Time	Samples Received in LAB by	7-3-18 13:34 Date/Time

Temperature on Receipt 2-3 °C

Rec'd 7/3/18 1223