

TABLE 2

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

Effluent Water Quality Results

Date Sampled ^{2/}	pH ^{1/}	TDS ^{4/} (mg/l)	PCE (ug/l)	1,1,1-TCA (ug/l)	TCE (ug/l)	1,1-DCA (ug/l)	1,1-DCE (ug/l)	cis-1,2-DCE (ug/l)	trans-1,2-DCE (ug/l)	Xylene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Methylene Chloride (ug/l)	Freon 113 (ug/l)	Naphthalene (ug/l)	Chloroform (ug/l)	Total Iron (mg/l)	Dissolved Iron (mg/l)
SPDES Limits	6.5 to 8.5	---	5	5	5	5	5	5	5	5	5	5	5	---	10	7	---	---
3-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<0.2
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
28-Aug-18	6.9	NA	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	0.124	0.125
21-Sep-18	6.8	155	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	7.48	0.037
5-Oct-18	6.9	145	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	1.66	ND<0.2

SPDES: State Pollutant Discharge Elimination System

mg/l: Milligrams per liter

ug/l: Micrograms per liter

----: Not established

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

NM: Not Measured

TDS: Total dissolved solids

PCE: Tetrachloroethylene

1,1,1-TCA: 1,1,1-Trichloroethane

TCE: Trichloroethene

1,1-DCA: 1,1-Dichloroethane

1,1-DCE: 1,1-Dichloroethene

cis-1,2-DCE: cis-1,2-Dichloroethene

trans-1,2,-DCE: trans-1,2-Dichloroethene

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 October 16, 2018 was 6.9.

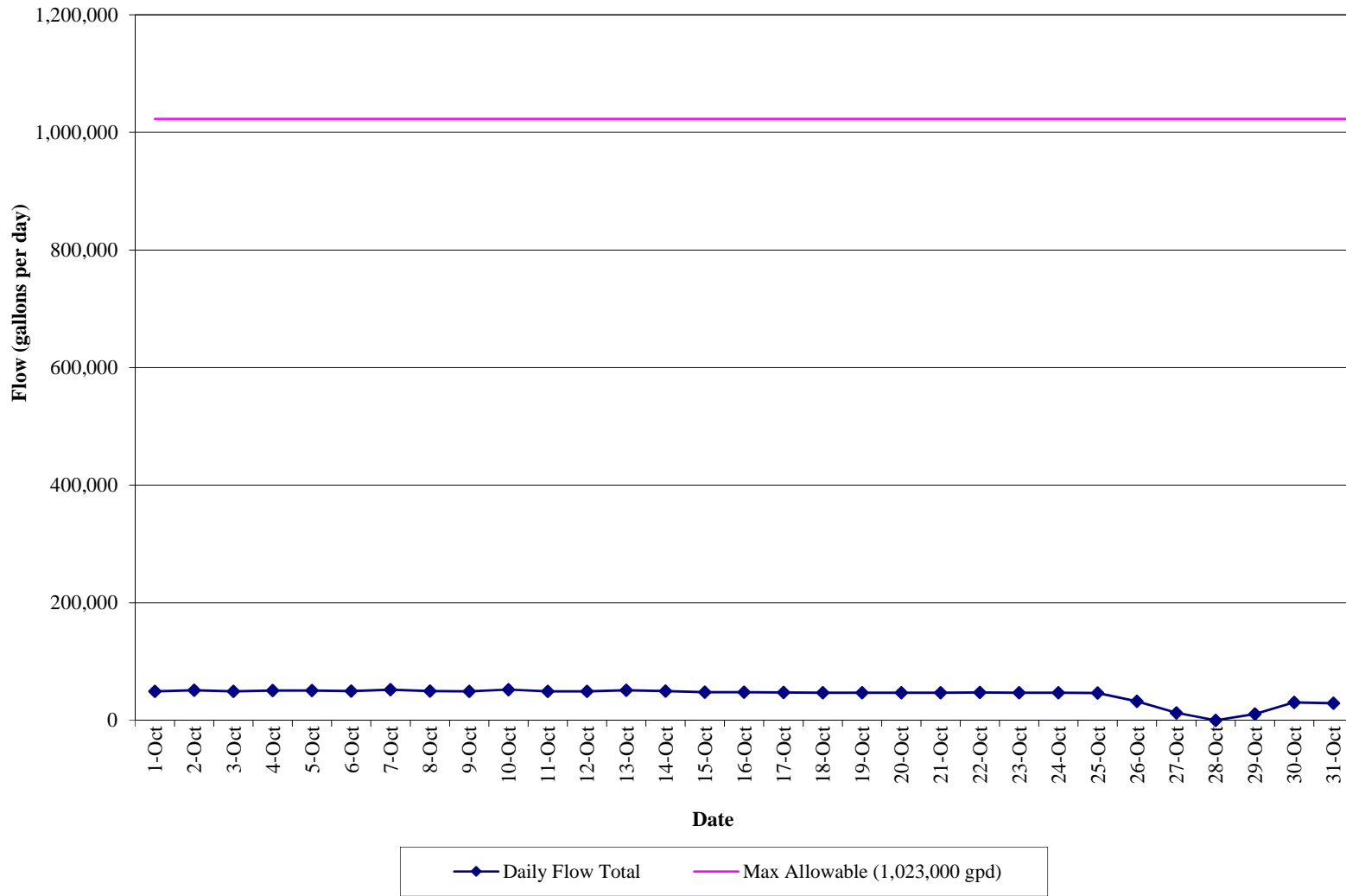
2. "Effluent" samples were collected from sample port labeled NP2-10 unless otherwise noted.

3. Starting in October 2016, FSP&T system samples are collected monthly instead of once every two weeks. The pH of the effluent water is measured two times per month in accordance with the SPDES requirements.

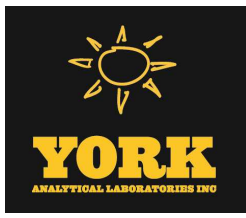
4. The laboratory mistakenly forgot to analyze the system effluent sample collected on August 28, 2018 for total dissolved solids (TDS).

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

**Effluent Flow Data
(October 1, 2018 to October 31, 2018)**



APPENDIX I
OCTOBER 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: 10/16/2018
Client Project ID: 31401451.000 task 01.00
York Project (SDG) No.: 18J0417

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE
www.YORKLAB.com

STRATFORD, CT 06615
(203) 325-1371

132-02 89th AVENUE
FAX (203) 357-0166

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 10/16/2018
Client Project ID: 31401451.000 task 01.00
York Project (SDG) No.: 18J0417

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

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on October 09, 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.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
18J0417-01	WQ100518:1255 NP2-6	Water	10/05/2018	10/09/2018
18J0417-02	WQ100518:1300 NP2-10	Water	10/05/2018	10/09/2018

General Notes for York Project (SDG) No.: 18J0417

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:



Benjamin Gulizia
Laboratory Director

Date: 10/16/2018





Sample Information

Client Sample ID: WQ100518:1255 NP2-6

York Sample ID: 18J0417-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J0417	31401451.000 task 01.00	Water	October 5, 2018 12:55 pm	10/09/2018

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	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	10/12/2018 07:30	10/12/2018 14:03	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS



Sample Information

Client Sample ID: WQ100518:1255 NP2-6

York Sample ID: 18J0417-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18J0417

31401451.000 task 01.00

Water

October 5, 2018 12:55 pm

10/09/2018

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	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
67-66-3	Chloroform	0.280		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
156-59-2	cis-1,2-Dichloroethylene	0.270		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS



Sample Information

Client Sample ID: WQ100518:1255 NP2-6

York Sample ID: 18J0417-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18J0417

31401451.000 task 01.00

Water

October 5, 2018 12:55 pm

10/09/2018

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	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
127-18-4	Tetrachloroethylene	0.980		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
79-01-6	Trichloroethylene	0.220		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:03	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/12/2018 07:30	10/12/2018 14:03	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	105 %	70-130								
2037-26-5	Surrogate: SURRE: Toluene-d8	92.9 %	70-130								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	104 %	70-130								



Sample Information

Client Sample ID: WQ100518:1300 NP2-10

York Sample ID: 18J0417-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18J0417

31401451.000 task 01.00

Water

October 5, 2018 1:00 pm

10/09/2018

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	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	10/12/2018 07:30	10/12/2018 14:35	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS



Sample Information

Client Sample ID: WQ100518:1300 NP2-10

York Sample ID: 18J0417-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18J0417

31401451.000 task 01.00

Water

October 5, 2018 1:00 pm

10/09/2018

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	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS



Sample Information

Client Sample ID: WQ100518:1300 NP2-10

York Sample ID: 18J0417-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18J0417

31401451.000 task 01.00

Water

October 5, 2018 1:00 pm

10/09/2018

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	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 14:35	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/12/2018 07:30	10/12/2018 14:35	SS

Surrogate Recoveries

Result

Acceptance Range

17060-07-0 Surrogate: SURR: 1,2-Dichloroethane-d4

108 %

70-130

2037-26-5 Surrogate: SURR: Toluene-d8

92.0 %

70-130

460-00-4 Surrogate: SURR: p-Bromofluorobenzene

101 %

70-130

Iron by EPA 200.7

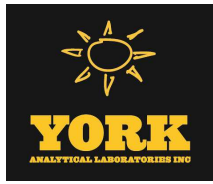
Log-in Notes:

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
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Sample Information

Client Sample ID: WQ100518:1300 NP2-10

York Sample ID: 18J0417-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18J0417

31401451.000 task 01.00

Water

October 5, 2018 1:00 pm

10/09/2018

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	1.66		mg/L	0.278	1	EPA 200.7	10/12/2018 11:37	10/16/2018 12:57	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	ND		mg/L	0.278	1	EPA 6010D	10/16/2018 11:35	10/16/2018 16:26	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Total Dissolved Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	145		mg/L	10.0	1	SM 2540C	10/09/2018 18:36	10/10/2018 20:39	AA
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		



Analytical Batch Summary

Batch ID: BJ80523 **Preparation Method:** % Solids Prep **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
18J0417-02	WQ100518:1300 NP2-10	10/09/18
BJ80523-BLK1	Blank	10/09/18

Batch ID: BJ80702 **Preparation Method:** EPA 5030B **Prepared By:** TAB

YORK Sample ID	Client Sample ID	Preparation Date
18J0417-01	WQ100518:1255 NP2-6	10/12/18
18J0417-02	WQ100518:1300 NP2-10	10/12/18
BJ80702-BLK1	Blank	10/12/18
BJ80702-BS1	LCS	10/12/18
BJ80702-BSD1	LCS Dup	10/12/18

Batch ID: BJ80739 **Preparation Method:** EPA 200.7 **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
18J0417-02	WQ100518:1300 NP2-10	10/12/18
BJ80739-BLK1	Blank	10/12/18
BJ80739-BS1	LCS	10/12/18

Batch ID: BJ80878 **Preparation Method:** EPA 3015A **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
18J0417-02	WQ100518:1300 NP2-10	10/16/18
BJ80878-BLK1	Blank	10/16/18
BJ80878-BS1	LCS	10/16/18
BJ80878-DUP1	Duplicate	10/16/18
BJ80878-MS1	Matrix Spike	10/16/18



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
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Batch BJ80702 - EPA 5030B

Blank (BJ80702-BLK1)

Prepared & Analyzed: 10/12/2018

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



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Flag	RPD	RPD	Limit	Flag
		Limit			Result							
Batch BJ80702 - EPA 5030B												
Blank (BJ80702-BLK1)											Prepared & Analyzed: 10/12/2018	
o-Xylene	ND	0.500	ug/L									
p- & m- Xylenes	ND	1.00	"									
p-Isopropyltoluene	ND	0.500	"									
sec-Butylbenzene	ND	0.500	"									
Styrene	ND	0.500	"									
tert-Butylbenzene	ND	0.500	"									
Tetrachloroethylene	ND	0.500	"									
Toluene	ND	0.500	"									
trans-1,2-Dichloroethylene	ND	0.500	"									
trans-1,3-Dichloropropylene	ND	0.500	"									
Trichloroethylene	ND	0.500	"									
Trichlorofluoromethane	ND	0.500	"									
Vinyl Chloride	ND	0.500	"									
Xylenes, Total	ND	1.50	"									
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	10.8		"	10.0		108	70-130					
<i>Surrogate: SURR: Toluene-d8</i>	9.68		"	10.0		96.8	70-130					
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	9.90		"	10.0		99.0	70-130					
LCS (BJ80702-BS1)											Prepared & Analyzed: 10/12/2018	
1,1,1,2-Tetrachloroethane	10.4		ug/L	10.0		104	82-126					30
1,1,1-Trichloroethane	11.7		"	10.0		117	70-130					20
1,1,2,2-Tetrachloroethane	9.74		"	10.0		97.4	70-130					20
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.2		"	10.0		112	70-130					20
1,1,2-Trichloroethane	10.1		"	10.0		101	70-130					20
1,1-Dichloroethane	11.4		"	10.0		114	70-130					20
1,1-Dichloroethylene	10.4		"	10.0		104	70-130					20
1,1-Dichloropropylene	11.2		"	10.0		112	83-133					30
1,2,3-Trichlorobenzene	8.05		"	10.0		80.5	70-130					20
1,2,3-Trichloropropane	9.69		"	10.0		96.9	77-128					30
1,2,4-Trichlorobenzene	8.30		"	10.0		83.0	70-130					20
1,2,4-Trimethylbenzene	9.45		"	10.0		94.5	82-132					20
1,2-Dibromo-3-chloropropane	8.86		"	10.0		88.6	40-160					20
1,2-Dibromoethane	10.0		"	10.0		100	70-130					20
1,2-Dichlorobenzene	9.72		"	10.0		97.2	70-130					20
1,2-Dichloroethane	12.9		"	10.0		129	70-130					20
1,2-Dichloropropane	9.60		"	10.0		96.0	70-130					20
1,3,5-Trimethylbenzene	9.35		"	10.0		93.5	80-131					30
1,3-Dichlorobenzene	9.72		"	10.0		97.2	70-130					20
1,3-Dichloropropane	10.5		"	10.0		105	81-125					30
1,4-Dichlorobenzene	9.58		"	10.0		95.8	70-130					20
2,2-Dichloropropane	12.1		"	10.0		121	56-150					30
2-Chlorotoluene	9.72		"	10.0		97.2	79-130					30
2-Hexanone	9.00		"	10.0		90.0	40-160					20
4-Chlorotoluene	9.69		"	10.0		96.9	79-128					30
Acetone	9.51		"	10.0		95.1	40-160					20
Benzene	11.8		"	10.0		118	70-130					20
Bromobenzene	9.34		"	10.0		93.4	78-129					30
Bromochloromethane	11.0		"	10.0		110	70-130					20
Bromodichloromethane	10.4		"	10.0		104	70-130					20
Bromoform	9.36		"	10.0		93.6	70-130					20
Bromomethane	2.38		"	10.0		23.8	40-160	Low Bias				20



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Flag
		Limit								Units	

Batch BJ80702 - EPA 5030B

LCS (BJ80702-BS1)

Prepared & Analyzed: 10/12/2018

Carbon tetrachloride	11.8		ug/L	10.0	118	70-130				20	
Chlorobenzene	10.4		"	10.0	104	70-130				20	
Chloroethane	12.0		"	10.0	120	40-160				20	
Chloroform	12.1		"	10.0	121	70-130				20	
Chloromethane	7.37		"	10.0	73.7	40-160				20	
cis-1,2-Dichloroethylene	11.4		"	10.0	114	70-130				20	
cis-1,3-Dichloropropylene	10.2		"	10.0	102	70-130				20	
Dibromochloromethane	9.98		"	10.0	99.8	70-130				20	
Dibromomethane	10.8		"	10.0	108	72-134				30	
Dichlorodifluoromethane	13.2		"	10.0	132	40-160				20	
Ethyl Benzene	10.4		"	10.0	104	70-130				20	
Hexachlorobutadiene	8.34		"	10.0	83.4	67-146				30	
Isopropylbenzene	8.96		"	10.0	89.6	70-130				20	
Methyl tert-butyl ether (MTBE)	12.3		"	10.0	123	70-130				20	
Methylene chloride	9.96		"	10.0	99.6	70-130				20	
Naphthalene	7.97		"	10.0	79.7	70-147				30	
n-Butylbenzene	8.39		"	10.0	83.9	79-132				30	
n-Propylbenzene	9.40		"	10.0	94.0	78-133				30	
o-Xylene	10.5		"	10.0	105	70-130				20	
p- & m- Xylenes	17.6		"	20.0	88.2	70-130				20	
p-Isopropyltoluene	9.42		"	10.0	94.2	81-136				30	
sec-Butylbenzene	9.76		"	10.0	97.6	79-137				30	
Styrene	10.1		"	10.0	101	70-130				20	
tert-Butylbenzene	9.19		"	10.0	91.9	77-138				30	
Tetrachloroethylene	7.41		"	10.0	74.1	70-130				20	
Toluene	10.4		"	10.0	104	70-130				20	
trans-1,2-Dichloroethylene	10.8		"	10.0	108	70-130				20	
trans-1,3-Dichloropropylene	10.0		"	10.0	100	70-130				20	
Trichloroethylene	9.70		"	10.0	97.0	70-130				20	
Trichlorofluoromethane	13.6		"	10.0	136	40-160				20	
Vinyl Chloride	11.5		"	10.0	115	70-130				20	
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>11.2</i>		<i>"</i>	<i>10.0</i>	<i>112</i>	<i>70-130</i>					
<i>Surrogate: SURR: Toluene-d8</i>	<i>9.33</i>		<i>"</i>	<i>10.0</i>	<i>93.3</i>	<i>70-130</i>					
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>9.59</i>		<i>"</i>	<i>10.0</i>	<i>95.9</i>	<i>70-130</i>					



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 BJ80702 - EPA 5030B											
LCS Dup (BJ80702-BSD1)											
Prepared & Analyzed: 10/12/2018											
1,1,1,2-Tetrachloroethane	10.3		ug/L	10.0		103	82-126		1.25	30	
1,1,1-Trichloroethane	11.9		"	10.0		119	70-130		1.87	20	
1,1,2,2-Tetrachloroethane	8.84		"	10.0		88.4	70-130		9.69	20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.5		"	10.0		115	70-130		2.64	20	
1,1,2-Trichloroethane	9.69		"	10.0		96.9	70-130		3.95	20	
1,1-Dichloroethane	11.2		"	10.0		112	70-130		1.95	20	
1,1-Dichloroethylene	10.7		"	10.0		107	70-130		2.84	20	
1,1-Dichloropropylene	11.6		"	10.0		116	83-133		3.43	30	
1,2,3-Trichlorobenzene	8.22		"	10.0		82.2	70-130		2.09	20	
1,2,3-Trichloropropane	8.93		"	10.0		89.3	77-128		8.16	30	
1,2,4-Trichlorobenzene	8.19		"	10.0		81.9	70-130		1.33	20	
1,2,4-Trimethylbenzene	9.13		"	10.0		91.3	82-132		3.44	20	
1,2-Dibromo-3-chloropropane	8.08		"	10.0		80.8	40-160		9.21	20	
1,2-Dibromoethane	9.35		"	10.0		93.5	70-130		6.82	20	
1,2-Dichlorobenzene	9.30		"	10.0		93.0	70-130		4.42	20	
1,2-Dichloroethane	12.2		"	10.0		122	70-130		5.81	20	
1,2-Dichloropropane	9.38		"	10.0		93.8	70-130		2.32	20	
1,3,5-Trimethylbenzene	9.13		"	10.0		91.3	80-131		2.38	30	
1,3-Dichlorobenzene	9.27		"	10.0		92.7	70-130		4.74	20	
1,3-Dichloropropane	10.0		"	10.0		100	81-125		4.96	30	
1,4-Dichlorobenzene	9.19		"	10.0		91.9	70-130		4.16	20	
2,2-Dichloropropane	12.0		"	10.0		120	56-150		0.332	30	
2-Chlorotoluene	9.40		"	10.0		94.0	79-130		3.35	30	
2-Hexanone	8.30		"	10.0		83.0	40-160		8.09	20	
4-Chlorotoluene	9.34		"	10.0		93.4	79-128		3.68	30	
Acetone	8.92		"	10.0		89.2	40-160		6.40	20	
Benzene	11.6		"	10.0		116	70-130		1.88	20	
Bromobenzene	8.87		"	10.0		88.7	78-129		5.16	30	
Bromochloromethane	10.3		"	10.0		103	70-130		6.09	20	
Bromodichloromethane	10.0		"	10.0		100	70-130		3.62	20	
Bromoform	8.73		"	10.0		87.3	70-130		6.97	20	
Bromomethane	2.56		"	10.0		25.6	40-160	Low Bias	7.29	20	
Carbon tetrachloride	12.1		"	10.0		121	70-130		2.59	20	
Chlorobenzene	10.3		"	10.0		103	70-130		1.26	20	
Chloroethane	12.0		"	10.0		120	40-160		0.250	20	
Chloroform	11.6		"	10.0		116	70-130		3.63	20	
Chloromethane	7.30		"	10.0		73.0	40-160		0.954	20	
cis-1,2-Dichloroethylene	11.2		"	10.0		112	70-130		1.85	20	
cis-1,3-Dichloropropylene	9.75		"	10.0		97.5	70-130		4.51	20	
Dibromochloromethane	9.59		"	10.0		95.9	70-130		3.99	20	
Dibromomethane	10.2		"	10.0		102	72-134		5.60	30	
Dichlorodifluoromethane	13.8		"	10.0		138	40-160		4.96	20	
Ethyl Benzene	10.5		"	10.0		105	70-130		1.44	20	
Hexachlorobutadiene	8.28		"	10.0		82.8	67-146		0.722	30	
Isopropylbenzene	8.87		"	10.0		88.7	70-130		1.01	20	
Methyl tert-butyl ether (MTBE)	11.6		"	10.0		116	70-130		5.43	20	
Methylene chloride	9.57		"	10.0		95.7	70-130		3.99	20	
Naphthalene	7.76		"	10.0		77.6	70-147		2.67	30	
n-Butylbenzene	8.43		"	10.0		84.3	79-132		0.476	30	
n-Propylbenzene	9.25		"	10.0		92.5	78-133		1.61	30	
o-Xylene	10.4		"	10.0		104	70-130		0.668	20	



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

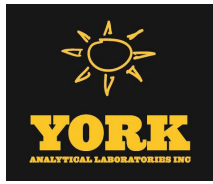
Analyte	Result	Reporting	Units	Spike Level	Source*	%REC	Flag	RPD	RPD Limit	Flag
		Limit			Result	Limits		Limit		

Batch BJ80702 - EPA 5030B

LCS Dup (BJ80702-BSD1)

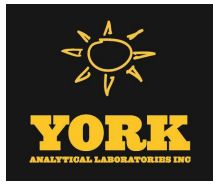
Prepared & Analyzed: 10/12/2018

p- & m- Xylenes	17.9		ug/L	20.0		89.6	70-130		1.52	20
p-Isopropyltoluene	9.29		"	10.0		92.9	81-136		1.39	30
sec-Butylbenzene	9.66		"	10.0		96.6	79-137		1.03	30
Styrene	10.0		"	10.0		100	70-130		0.698	20
tert-Butylbenzene	9.07		"	10.0		90.7	77-138		1.31	30
Tetrachloroethylene	7.71		"	10.0		77.1	70-130		3.97	20
Toluene	10.5		"	10.0		105	70-130		1.15	20
trans-1,2-Dichloroethylene	10.8		"	10.0		108	70-130		0.0926	20
trans-1,3-Dichloropropylene	9.53		"	10.0		95.3	70-130		5.01	20
Trichloroethylene	9.75		"	10.0		97.5	70-130		0.514	20
Trichlorofluoromethane	14.0		"	10.0		140	40-160		2.25	20
Vinyl Chloride	11.8		"	10.0		118	70-130		3.26	20
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>10.7</i>		<i>"</i>	<i>10.0</i>		<i>107</i>	<i>70-130</i>			
<i>Surrogate: SURR: Toluene-d8</i>	<i>9.54</i>		<i>"</i>	<i>10.0</i>		<i>95.4</i>	<i>70-130</i>			
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>9.52</i>		<i>"</i>	<i>10.0</i>		<i>95.2</i>	<i>70-130</i>			



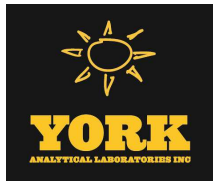
Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ80739 - EPA 200.7											
Blank (BJ80739-BLK1)										Prepared & Analyzed: 10/12/2018	
Iron	ND	0.278	mg/L								
LCS (BJ80739-BS1)										Prepared & Analyzed: 10/12/2018	
Iron	1.03		ug/mL	1.00		103	85-115				
Batch BJ80878 - EPA 3015A											
Blank (BJ80878-BLK1)										Prepared & Analyzed: 10/16/2018	
Iron - Dissolved	ND	0.278	mg/L								
LCS (BJ80878-BS1)										Prepared & Analyzed: 10/16/2018	
Iron - Dissolved	1.03		ug/mL	1.00		103	80-120				
Duplicate (BJ80878-DUP1)										*Source sample: 18J0417-02 (WQ100518:1300 NP2-10) Prepared & Analyzed: 10/16/2018	
Iron - Dissolved	ND	0.278	mg/L		ND						20
Matrix Spike (BJ80878-MS1)										*Source sample: 18J0417-02 (WQ100518:1300 NP2-10) Prepared & Analyzed: 10/16/2018	
Iron - Dissolved	1.14	0.278	mg/L	1.11	ND	102	75-125				



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 BJ80523 - % Solids Prep											
Blank (BJ80523-BLK1)											
Prepared: 10/09/2018 Analyzed: 10/10/2018											
Total Dissolved Solids	ND	10.0	mg/L								



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
18J0417-01	WQ100518:1255 NP2-6	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18J0417-02	WQ100518:1300 NP2-10	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



Sample and Data Qualifiers Relating to This Work Order

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

Definitions and Other Explanations

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

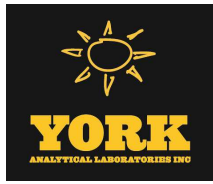
If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For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

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

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

Certification for pH is no longer offered by NYDOH ELAP.

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



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



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

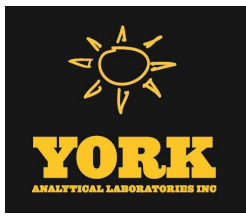
Field Chain-of-Custody Record

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. 18J0417

YOUR INFORMATION		Report to:		Invoice To:		Your Project ID		Turn-Around Time		Report/Deliverable Type			
Company:	WSP USA	SAME <input checked="" type="checkbox"/>		SAME <input checked="" type="checkbox"/>		31401451.000 task		RUSH-Same Day		Summary Report			
Address:	4 Research Drive	Name:		Name:		01.00		RUSH-Next Day		QA Report			
Phone:	Suite 301, Shelton CT 06484	Company:		Company:		Purchase Order #		RUSH-Two Day		CT RCP			
Contact:	203.929.8555	Address:		Address:		31401451.000 task		RUSH-Three Day		CT RCP DQAVDUE Pkg			
E-mail:	Tunde Sandor	E-mail:		E-mail:		01.00		RUSH-Four Day		NY ASP A Package			
	tunde.sandor@wsp.com					Samples from CT_NY_x_NJ_		Standard (5-7day)		NY ASP B Package			
<p>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.</p>													
Samples Collected/Authorized By (Signature)		Matrix Codes		Volatiles		Semi-Vols.		Metals		Full Lists			
<i>[Signature]</i>		S - soil Other - specify (oil, etc.) WW - wastewater GW - groundwater DW - drinking water Air-A - ambient air Air-SV - soil vapor		8260 full 624 STARS list BTEX MTBE TCL list TAGM list CT RCP list Arom. only Halog. only App. IX list 8021B list		8270 or 625 STARS list BN Only Acids Only PAH list TAGM list CT RCP list TCL list Arom. only Halog. only App. IX list 8021B list		RCRA8 PPI3 list TAL CTI5 list TAGM list NIDEP list Total Dissolved SELP or TCLP Chlordane 608 Pest SELP or TCLP		TPH GRO TPH DRO CT ETPH NY 310-13 Full App IX TPH 1664 Air TO14A Air TO15 Air STARS Air VPH Air TICs Mediane Heptim		Phl. Poll. TCL Organics TAL/MeqCN Full TCLP Full App IX Part 300-Resazne Part 300-Baseline Part 300-General Full App IX NY/DEP-Sewer NY/DECSewer TAGM	
Name (printed)		Matrix		Preservation		Analysis Requested (List above includes common analysis)		OTHER:		Container Description			
Edwin Foster		GW		(check all applicable) 4°C <input checked="" type="checkbox"/> Frozen <input checked="" type="checkbox"/> HCl <input checked="" type="checkbox"/> MeOH <input checked="" type="checkbox"/> ZnAc Ascorbic Acid		VOCs 8260 full plus freon 113 Fe by EPA 200.7; Fe dissolved by EPA 6010; VOCs 8260 full plus freon 113; TDS		300A 300A, 3 Plastic					
Date/Time Sampled		Date/Time		Date/Time		Date/Time		Date/Time		Temperature on Receipt			
10-5-18 1255		10-5-18 1300		10-5-18 1950		10-5-18 1950		10-5-18 1950		5.1 °C			
<p>Comments:</p> <p><i>[Signature]</i> 10-5-18 1950 WSP Fudge 10-5-18 1950 <i>[Signature]</i> 10-5-18 1300 WSP Fudge 10-5-18 1950 Samples Relinquished By Date/Time Samples Received By Date/Time <i>[Signature]</i> 10-5-18 1300 <i>[Signature]</i> 10-5-18 1950 Samples Relinquished By Date/Time Samples Received in LAB by Date/Time</p>													

APPENDIX II
OCTOBER 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: 12/07/2018
Client Project ID: 31401451.000 task 01.00
York Project (SDG) No.: 18J0413

Revision No. 1.0

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE
www.YORKLAB.com

STRATFORD, CT 06615
(203) 325-1371

132-02 89th AVENUE
FAX (203) 357-0166

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 12/07/2018
Client Project ID: 31401451.000 task 01.00
York Project (SDG) No.: 18J0413

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

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on October 09, 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.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
18J0413-01	WQ100518:1400 FRW-1	Water	10/05/2018	10/09/2018
18J0413-02	WQ100518:1405 FRW-2	Water	10/05/2018	10/09/2018
18J0413-03	WQ100518:1410 FRW-3	Water	10/05/2018	10/09/2018
18J0413-04	WQ100518:1415 FRW-4	Water	10/05/2018	10/09/2018
18J0413-05	WQ100518:1310 NP1-1-2	Water	10/05/2018	10/09/2018

General Notes for York Project (SDG) No.: 18J0413

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:



Benjamin Gulizia
Laboratory Director

Date: 12/07/2018





Sample Information

Client Sample ID: WQ100518:1400 FRW-1

York Sample ID: 18J0413-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J0413	31401451.000 task 01.00	Water	October 5, 2018 2:00 pm	10/09/2018

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	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	10/12/2018 07:30	10/12/2018 15:07	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS



Sample Information

Client Sample ID: WQ100518:1400 FRW-1

York Sample ID: 18J0413-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18J0413

31401451.000 task 01.00

Water

October 5, 2018 2:00 pm

10/09/2018

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	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
156-59-2	cis-1,2-Dichloroethylene	0.280		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS



Sample Information

Client Sample ID: WQ100518:1400 FRW-1

York Sample ID: 18J0413-01

<u>York Project (SDG) No.</u> 18J0413	<u>Client Project ID</u> 31401451.000 task 01.00	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 5, 2018 2:00 pm	<u>Date Received</u> 10/09/2018
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Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
127-18-4	Tetrachloroethylene	1.19		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:07	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/12/2018 07:30	10/12/2018 15:07	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	108 %	70-130								
2037-26-5	Surrogate: SURRE: Toluene-d8	91.9 %	70-130								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	102 %	70-130								



Sample Information

Client Sample ID: WQ100518:1405 FRW-2

York Sample ID: 18J0413-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18J0413

31401451.000 task 01.00

Water

October 5, 2018 2:05 pm

10/09/2018

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	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	10/12/2018 07:30	10/12/2018 15:39	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS



Sample Information

Client Sample ID: WQ100518:1405 FRW-2

York Sample ID: 18J0413-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18J0413

31401451.000 task 01.00

Water

October 5, 2018 2:05 pm

10/09/2018

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	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS



Sample Information

Client Sample ID: WQ100518:1405 FRW-2

York Sample ID: 18J0413-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18J0413

31401451.000 task 01.00

Water

October 5, 2018 2:05 pm

10/09/2018

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	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
127-18-4	Tetrachloroethylene	1.86		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 15:39	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/12/2018 07:30	10/12/2018 15:39	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	108 %	70-130								
2037-26-5	Surrogate: SURRE: Toluene-d8	91.9 %	70-130								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	104 %	70-130								



Sample Information

Client Sample ID: WQ100518:1410 FRW-3

York Sample ID: 18J0413-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18J0413

31401451.000 task 01.00

Water

October 5, 2018 2:10 pm

10/09/2018

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	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	10/12/2018 07:30	10/12/2018 16:11	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS



Sample Information

Client Sample ID: WQ100518:1410 FRW-3

York Sample ID: 18J0413-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18J0413

31401451.000 task 01.00

Water

October 5, 2018 2:10 pm

10/09/2018

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	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
156-59-2	cis-1,2-Dichloroethylene	4.31		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS



Sample Information

Client Sample ID: WQ100518:1410 FRW-3

York Sample ID: 18J0413-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18J0413

31401451.000 task 01.00

Water

October 5, 2018 2:10 pm

10/09/2018

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	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
127-18-4	Tetrachloroethylene	0.730		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
79-01-6	Trichloroethylene	0.530		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:11	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/12/2018 07:30	10/12/2018 16:11	SS
	Surrogate Recoveries	Result						Acceptance Range			
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	108 %						70-130			
2037-26-5	Surrogate: SURRE: Toluene-d8	91.7 %						70-130			
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	104 %						70-130			



Sample Information

Client Sample ID: WQ100518:1415 FRW-4

York Sample ID: 18J0413-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18J0413

31401451.000 task 01.00

Water

October 5, 2018 2:15 pm

10/09/2018

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	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	10/12/2018 07:30	10/12/2018 16:43	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS



Sample Information

Client Sample ID: WQ100518:1415 FRW-4

York Sample ID: 18J0413-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18J0413

31401451.000 task 01.00

Water

October 5, 2018 2:15 pm

10/09/2018

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	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
67-64-1	Acetone	1.23	CCV-E, SCAL- E	ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
74-87-3	Chloromethane	0.560	CCV-E	ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
156-59-2	cis-1,2-Dichloroethylene	0.630		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS



Sample Information

Client Sample ID: WQ100518:1415 FRW-4

York Sample ID: 18J0413-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18J0413

31401451.000 task 01.00

Water

October 5, 2018 2:15 pm

10/09/2018

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	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
127-18-4	Tetrachloroethylene	0.260		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 16:43	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/12/2018 07:30	10/12/2018 16:43	SS
	Surrogate Recoveries	Result						Acceptance Range			
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	108 %						70-130			
2037-26-5	Surrogate: SURRE: Toluene-d8	91.4 %						70-130			
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	105 %						70-130			



Sample Information

Client Sample ID: WQ100518:1310 NP1-1-2

York Sample ID: 18J0413-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18J0413

31401451.000 task 01.00

Water

October 5, 2018 1:10 pm

10/09/2018

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	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	10/12/2018 07:30	10/12/2018 17:15	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS



Sample Information

Client Sample ID: WQ100518:1310 NP1-1-2

York Sample ID: 18J0413-05

<u>York Project (SDG) No.</u> 18J0413	<u>Client Project ID</u> 31401451.000 task 01.00	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 5, 2018 1:10 pm	<u>Date Received</u> 10/09/2018
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Volatile Organics, 8260 List - Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
108-86-1	Bromobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
67-66-3	Chloroform	0.370		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
74-87-3	Chloromethane	0.300	CCV-E	ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS



Sample Information

Client Sample ID: WQ100518:1310 NP1-1-2

York Sample ID: 18J0413-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18J0413

31401451.000 task 01.00

Water

October 5, 2018 1:10 pm

10/09/2018

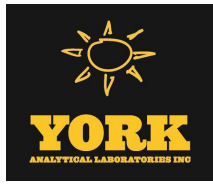
Volatile Organics, 8260 List - Low Level

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	1.00	2.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
127-18-4	Tetrachloroethylene	0.250		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/12/2018 07:30	10/12/2018 17:15	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/12/2018 07:30	10/12/2018 17:15	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	106 %	70-130								
2037-26-5	Surrogate: SURR: Toluene-d8	93.1 %	70-130								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	121 %	70-130								



Analytical Batch Summary

Batch ID: BJ80702

Preparation Method: EPA 5030B

Prepared By: TAB

YORK Sample ID	Client Sample ID	Preparation Date
18J0413-01	WQ100518:1400 FRW-1	10/12/18
18J0413-02	WQ100518:1405 FRW-2	10/12/18
18J0413-03	WQ100518:1410 FRW-3	10/12/18
18J0413-04	WQ100518:1415 FRW-4	10/12/18
18J0413-05	WQ100518:1310 NP1-1-2	10/12/18
BJ80702-BLK1	Blank	10/12/18
BJ80702-BS1	LCS	10/12/18
BJ80702-BSD1	LCS Dup	10/12/18



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
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Batch BJ80702 - EPA 5030B

Blank (BJ80702-BLK1)

Prepared & Analyzed: 10/12/2018

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



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ80702 - EPA 5030B

Blank (BJ80702-BLK1)

Prepared & Analyzed: 10/12/2018

o-Xylene	ND	0.500	ug/L								
p- & m- Xylenes	ND	1.00	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	10.8		"	10.0		108	70-130				
<i>Surrogate: SURR: Toluene-d8</i>	9.68		"	10.0		96.8	70-130				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	9.90		"	10.0		99.0	70-130				

LCS (BJ80702-BS1)

Prepared & Analyzed: 10/12/2018

1,1,1,2-Tetrachloroethane	10.4		ug/L	10.0		104	82-126				30
1,1,1-Trichloroethane	11.7		"	10.0		117	70-130				20
1,1,2,2-Tetrachloroethane	9.74		"	10.0		97.4	70-130				20
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.2		"	10.0		112	70-130				20
1,1,2-Trichloroethane	10.1		"	10.0		101	70-130				20
1,1-Dichloroethane	11.4		"	10.0		114	70-130				20
1,1-Dichloroethylene	10.4		"	10.0		104	70-130				20
1,1-Dichloropropylene	11.2		"	10.0		112	83-133				30
1,2,3-Trichlorobenzene	8.05		"	10.0		80.5	70-130				20
1,2,3-Trichloropropane	9.69		"	10.0		96.9	77-128				30
1,2,4-Trichlorobenzene	8.30		"	10.0		83.0	70-130				20
1,2,4-Trimethylbenzene	9.45		"	10.0		94.5	82-132				20
1,2-Dibromo-3-chloropropane	8.86		"	10.0		88.6	40-160				20
1,2-Dibromoethane	10.0		"	10.0		100	70-130				20
1,2-Dichlorobenzene	9.72		"	10.0		97.2	70-130				20
1,2-Dichloroethane	12.9		"	10.0		129	70-130				20
1,2-Dichloropropane	9.60		"	10.0		96.0	70-130				20
1,3,5-Trimethylbenzene	9.35		"	10.0		93.5	80-131				30
1,3-Dichlorobenzene	9.72		"	10.0		97.2	70-130				20
1,3-Dichloropropane	10.5		"	10.0		105	81-125				30
1,4-Dichlorobenzene	9.58		"	10.0		95.8	70-130				20
2,2-Dichloropropane	12.1		"	10.0		121	56-150				30
2-Chlorotoluene	9.72		"	10.0		97.2	79-130				30
2-Hexanone	9.00		"	10.0		90.0	40-160				20
4-Chlorotoluene	9.69		"	10.0		96.9	79-128				30
Acetone	9.51		"	10.0		95.1	40-160				20
Benzene	11.8		"	10.0		118	70-130				20
Bromobenzene	9.34		"	10.0		93.4	78-129				30
Bromochloromethane	11.0		"	10.0		110	70-130				20
Bromodichloromethane	10.4		"	10.0		104	70-130				20
Bromoform	9.36		"	10.0		93.6	70-130				20
Bromomethane	2.38		"	10.0		23.8	40-160	Low Bias			20



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Flag
		Limit								Units	

Batch BJ80702 - EPA 5030B

LCS (BJ80702-BS1)

Prepared & Analyzed: 10/12/2018

Carbon tetrachloride	11.8		ug/L	10.0		118	70-130				20
Chlorobenzene	10.4		"	10.0		104	70-130				20
Chloroethane	12.0		"	10.0		120	40-160				20
Chloroform	12.1		"	10.0		121	70-130				20
Chloromethane	7.37		"	10.0		73.7	40-160				20
cis-1,2-Dichloroethylene	11.4		"	10.0		114	70-130				20
cis-1,3-Dichloropropylene	10.2		"	10.0		102	70-130				20
Dibromochloromethane	9.98		"	10.0		99.8	70-130				20
Dibromomethane	10.8		"	10.0		108	72-134				30
Dichlorodifluoromethane	13.2		"	10.0		132	40-160				20
Ethyl Benzene	10.4		"	10.0		104	70-130				20
Hexachlorobutadiene	8.34		"	10.0		83.4	67-146				30
Isopropylbenzene	8.96		"	10.0		89.6	70-130				20
Methyl tert-butyl ether (MTBE)	12.3		"	10.0		123	70-130				20
Methylene chloride	9.96		"	10.0		99.6	70-130				20
Naphthalene	7.97		"	10.0		79.7	70-147				30
n-Butylbenzene	8.39		"	10.0		83.9	79-132				30
n-Propylbenzene	9.40		"	10.0		94.0	78-133				30
o-Xylene	10.5		"	10.0		105	70-130				20
p- & m- Xylenes	17.6		"	20.0		88.2	70-130				20
p-Isopropyltoluene	9.42		"	10.0		94.2	81-136				30
sec-Butylbenzene	9.76		"	10.0		97.6	79-137				30
Styrene	10.1		"	10.0		101	70-130				20
tert-Butylbenzene	9.19		"	10.0		91.9	77-138				30
Tetrachloroethylene	7.41		"	10.0		74.1	70-130				20
Toluene	10.4		"	10.0		104	70-130				20
trans-1,2-Dichloroethylene	10.8		"	10.0		108	70-130				20
trans-1,3-Dichloropropylene	10.0		"	10.0		100	70-130				20
Trichloroethylene	9.70		"	10.0		97.0	70-130				20
Trichlorofluoromethane	13.6		"	10.0		136	40-160				20
Vinyl Chloride	11.5		"	10.0		115	70-130				20
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>11.2</i>		<i>"</i>	<i>10.0</i>		<i>112</i>	<i>70-130</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>9.33</i>		<i>"</i>	<i>10.0</i>		<i>93.3</i>	<i>70-130</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>9.59</i>		<i>"</i>	<i>10.0</i>		<i>95.9</i>	<i>70-130</i>				



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 BJ80702 - EPA 5030B											
LCS Dup (BJ80702-BSD1)											
										Prepared & Analyzed: 10/12/2018	
1,1,1,2-Tetrachloroethane	10.3		ug/L	10.0		103	82-126		1.25	30	
1,1,1-Trichloroethane	11.9		"	10.0		119	70-130		1.87	20	
1,1,2,2-Tetrachloroethane	8.84		"	10.0		88.4	70-130		9.69	20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.5		"	10.0		115	70-130		2.64	20	
1,1,2-Trichloroethane	9.69		"	10.0		96.9	70-130		3.95	20	
1,1-Dichloroethane	11.2		"	10.0		112	70-130		1.95	20	
1,1-Dichloroethylene	10.7		"	10.0		107	70-130		2.84	20	
1,1-Dichloropropylene	11.6		"	10.0		116	83-133		3.43	30	
1,2,3-Trichlorobenzene	8.22		"	10.0		82.2	70-130		2.09	20	
1,2,3-Trichloropropane	8.93		"	10.0		89.3	77-128		8.16	30	
1,2,4-Trichlorobenzene	8.19		"	10.0		81.9	70-130		1.33	20	
1,2,4-Trimethylbenzene	9.13		"	10.0		91.3	82-132		3.44	20	
1,2-Dibromo-3-chloropropane	8.08		"	10.0		80.8	40-160		9.21	20	
1,2-Dibromoethane	9.35		"	10.0		93.5	70-130		6.82	20	
1,2-Dichlorobenzene	9.30		"	10.0		93.0	70-130		4.42	20	
1,2-Dichloroethane	12.2		"	10.0		122	70-130		5.81	20	
1,2-Dichloropropane	9.38		"	10.0		93.8	70-130		2.32	20	
1,3,5-Trimethylbenzene	9.13		"	10.0		91.3	80-131		2.38	30	
1,3-Dichlorobenzene	9.27		"	10.0		92.7	70-130		4.74	20	
1,3-Dichloropropane	10.0		"	10.0		100	81-125		4.96	30	
1,4-Dichlorobenzene	9.19		"	10.0		91.9	70-130		4.16	20	
2,2-Dichloropropane	12.0		"	10.0		120	56-150		0.332	30	
2-Chlorotoluene	9.40		"	10.0		94.0	79-130		3.35	30	
2-Hexanone	8.30		"	10.0		83.0	40-160		8.09	20	
4-Chlorotoluene	9.34		"	10.0		93.4	79-128		3.68	30	
Acetone	8.92		"	10.0		89.2	40-160		6.40	20	
Benzene	11.6		"	10.0		116	70-130		1.88	20	
Bromobenzene	8.87		"	10.0		88.7	78-129		5.16	30	
Bromochloromethane	10.3		"	10.0		103	70-130		6.09	20	
Bromodichloromethane	10.0		"	10.0		100	70-130		3.62	20	
Bromoform	8.73		"	10.0		87.3	70-130		6.97	20	
Bromomethane	2.56		"	10.0		25.6	40-160	Low Bias	7.29	20	
Carbon tetrachloride	12.1		"	10.0		121	70-130		2.59	20	
Chlorobenzene	10.3		"	10.0		103	70-130		1.26	20	
Chloroethane	12.0		"	10.0		120	40-160		0.250	20	
Chloroform	11.6		"	10.0		116	70-130		3.63	20	
Chloromethane	7.30		"	10.0		73.0	40-160		0.954	20	
cis-1,2-Dichloroethylene	11.2		"	10.0		112	70-130		1.85	20	
cis-1,3-Dichloropropylene	9.75		"	10.0		97.5	70-130		4.51	20	
Dibromochloromethane	9.59		"	10.0		95.9	70-130		3.99	20	
Dibromomethane	10.2		"	10.0		102	72-134		5.60	30	
Dichlorodifluoromethane	13.8		"	10.0		138	40-160		4.96	20	
Ethyl Benzene	10.5		"	10.0		105	70-130		1.44	20	
Hexachlorobutadiene	8.28		"	10.0		82.8	67-146		0.722	30	
Isopropylbenzene	8.87		"	10.0		88.7	70-130		1.01	20	
Methyl tert-butyl ether (MTBE)	11.6		"	10.0		116	70-130		5.43	20	
Methylene chloride	9.57		"	10.0		95.7	70-130		3.99	20	
Naphthalene	7.76		"	10.0		77.6	70-147		2.67	30	
n-Butylbenzene	8.43		"	10.0		84.3	79-132		0.476	30	
n-Propylbenzene	9.25		"	10.0		92.5	78-133		1.61	30	
o-Xylene	10.4		"	10.0		104	70-130		0.668	20	



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

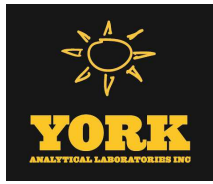
Analyte	Result	Reporting	Units	Spike Level	Source*	%REC	%REC Limits	Flag	RPD	
		Limit			Result				RPD	Limit

Batch BJ80702 - EPA 5030B

LCS Dup (BJ80702-BSD1)

Prepared & Analyzed: 10/12/2018

p- & m- Xylenes	17.9		ug/L	20.0		89.6	70-130		1.52	20
p-Isopropyltoluene	9.29		"	10.0		92.9	81-136		1.39	30
sec-Butylbenzene	9.66		"	10.0		96.6	79-137		1.03	30
Styrene	10.0		"	10.0		100	70-130		0.698	20
tert-Butylbenzene	9.07		"	10.0		90.7	77-138		1.31	30
Tetrachloroethylene	7.71		"	10.0		77.1	70-130		3.97	20
Toluene	10.5		"	10.0		105	70-130		1.15	20
trans-1,2-Dichloroethylene	10.8		"	10.0		108	70-130		0.0926	20
trans-1,3-Dichloropropylene	9.53		"	10.0		95.3	70-130		5.01	20
Trichloroethylene	9.75		"	10.0		97.5	70-130		0.514	20
Trichlorofluoromethane	14.0		"	10.0		140	40-160		2.25	20
Vinyl Chloride	11.8		"	10.0		118	70-130		3.26	20
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>10.7</i>		<i>"</i>	<i>10.0</i>		<i>107</i>	<i>70-130</i>			
<i>Surrogate: SURR: Toluene-d8</i>	<i>9.54</i>		<i>"</i>	<i>10.0</i>		<i>95.4</i>	<i>70-130</i>			
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>9.52</i>		<i>"</i>	<i>10.0</i>		<i>95.2</i>	<i>70-130</i>			



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
18J0413-01	WQ100518:1400 FRW-1	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18J0413-02	WQ100518:1405 FRW-2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18J0413-03	WQ100518:1410 FRW-3	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18J0413-04	WQ100518:1415 FRW-4	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18J0413-05	WQ100518:1310 NP1-1-2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



Sample and Data Qualifiers Relating to This Work Order

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

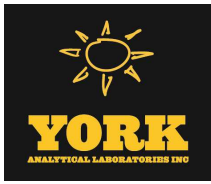
If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For 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.

Revision Description: This report has been revised to correct VOA results for Sample -02.



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. 18J0413

YOUR INFORMATION		Report to:		Invoice To:		Your Project ID		Turn-Around Time		Report/Deliverable Type	
Company: <u>WSP USA</u>	<input checked="" type="checkbox"/> SAME	Name: _____	<input checked="" type="checkbox"/> SAME	31401451.000 task		RUSH-Same Day		Summary Report		X, PDF	
Address: <u>4 Research Drive</u>	Name: _____	Company: _____	Company: _____	Purchase Order #		RUSH-Next Day		QA Report		X, PDF	
Suite: <u>301, Shelton CT 06484</u>	Address: _____	Address: _____	Address: _____	31401451.000 task		RUSH-Two Day		CT RCP			
Phone: <u>203.929.8555</u>	Contact: <u>Tunde Sandor</u>	E-mail: _____	E-mail: _____	01.00		RUSH-Three Day		CT RCP DOA/DUE Pkg			
	E-mail: <u>tunde.sandor@wsp.com</u>	Samples from CT: <u>NY X_NJ</u>		Standard (5-7day)		RUSH-Four Day		NY ASP A Package		X, PDF	
						Standard (5-7day)		NY ASP B Package		X, PDF	

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.

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

Samples Collected/Authorized By (Signature)
Evan Foster
Name (printed)
Evan Foster

Volatiles	Semi-Volts	pest/CE/Herb	Metals	Misc. Org.	Full Lists
8260 full 624 STARS list BTEX MTBE TCL list TAGM list CT RCP list Arom. only Halog. only App. IX list 8021B list	E270 or 625 STARS list BN Only PAH list TAGM list CT RCP list TCL list NIDEP list App. IX SELP or TCLP	8082PCB 8081P est 8151 Herb CT RCP App. IX Site Spec. SELP or TCLP TCLP Pest TCLP Herb Chlordane 608 Pest 608 PCB	R CRA8 PPI3 list TAL CT15 list TAGM list NIDEP list Total Dissolved SELP or TCLP Indic. Metals LEST Below	TPH GRO TPH DRO CT ETPH NY 310-13 TPH 1664 Air TO14A Air TO15 Air STARS Air VPH Air TCS Methane Hexium	Ph. Poll. TCL Organics TAL Met/CN Full TCLP Full App. IX Part 300-Reg. 2 Part 300-Reg. 3 Part 300-Reg. 4 Part 300-Reg. 5 NYDEC Sewer NYDEC Sewer TAGM

Sample Identification	Date+Time Sampled	Matrix	Analysis Requested (List above includes common analysis)	Container Description
<u>WQ00518: 1400 FRLW-1</u>	<u>10-5-18 1400</u>	<u>GW</u>	VOCs 8260 full plus freon 113	<u>3 Jugs</u>
<u>: 1405 FRLW-2</u>	<u>1405</u>			
<u>: 1410 FRLW-3</u>	<u>1410</u>			
<u>: 1415 FRLW-4</u>	<u>1415</u>			<u>2 Jugs</u>
<u>: 1310 NP1-1-2</u>	<u>1310</u>			

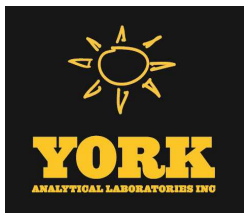
Preservation (check all applicable):
 4°C
 Frozen
 HCl
 ZnAc
 MeOH
 Ascorbic Acid
 HNO₃
 H₂SO₄
 NaOH

Special Instructions:
 Field Filtered
 Lab to Filter

Comments:
Photographs 10/9/18 10:05
WSP Fudge 10-5-18 1930
10-5-18 1930
10-9-18 1310
10-9-18 1310
 Samples Relinquished By: _____ Date/Time: _____
 Samples Received By: _____ Date/Time: _____
 Samples Relinquished By: _____ Date/Time: _____
 Samples Received in LAB by: _____ Date/Time: _____

Temperature on Receipt: 5.1 °C

APPENDIX III
OCTOBER 2018 LABORATORY ANALYTICAL REPORT
FOR AIR SAMPLES



Technical Report

prepared for:

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

Report Date: 10/16/2018
Client Project ID: 31401451.000 task 01.00
York Project (SDG) No.: 18J0419

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE
www.YORKLAB.com

STRATFORD, CT 06615
(203) 325-1371

132-02 89th AVENUE
FAX (203) 357-0166

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 10/16/2018
Client Project ID: 31401451.000 task 01.00
York Project (SDG) No.: 18J0419

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

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on October 09, 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.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
18J0419-01	AQ100518:1230 NP4-1	Soil Vapor	10/05/2018	10/09/2018
18J0419-02	AQ100518:1235 NP4-3	Soil Vapor	10/05/2018	10/09/2018

General Notes for York Project (SDG) No.: 18J0419

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.

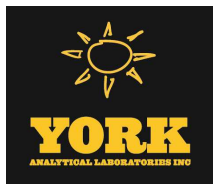
Approved By:



Benjamin Gulizia
Laboratory Director

Date: 10/16/2018





Sample Information

Client Sample ID: AQ100518:1230 NP4-1

York Sample ID: 18J0419-01

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
18J0419	31401451.000 task 01.00	Soil Vapor	October 5, 2018 12:30 pm	10/09/2018

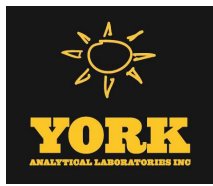
Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m ³	1.1	1.648	EPA TO-15 Certifications:	10/10/2018 16:00	10/11/2018 12:31	AS
71-55-6	1,1,1-Trichloroethane	ND		ug/m ³	0.90	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	1.1	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	1.3	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	0.90	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
75-34-3	1,1-Dichloroethane	ND		ug/m ³	0.67	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	0.16	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	1.2	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
95-63-6	1,2,4-Trimethylbenzene	9.2		ug/m ³	0.81	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
106-93-4	1,2-Dibromoethane	ND		ug/m ³	1.3	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	0.99	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
107-06-2	1,2-Dichloroethane	ND		ug/m ³	0.67	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
78-87-5	1,2-Dichloropropane	ND		ug/m ³	0.76	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	1.2	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
108-67-8	1,3,5-Trimethylbenzene	2.5		ug/m ³	0.81	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
106-99-0	1,3-Butadiene	ND		ug/m ³	1.1	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	0.99	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
142-28-9	* 1,3-Dichloropropane	ND		ug/m ³	0.76	1.648	EPA TO-15 Certifications:	10/10/2018 16:00	10/11/2018 12:31	AS
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	0.99	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
123-91-1	1,4-Dioxane	ND		ug/m ³	1.2	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
78-93-3	2-Butanone	ND		ug/m ³	0.49	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
591-78-6	* 2-Hexanone	ND		ug/m ³	1.4	1.648	EPA TO-15 Certifications:	10/10/2018 16:00	10/11/2018 12:31	AS



Sample Information

Client Sample ID: AQ100518:1230 NP4-1

York Sample ID: 18J0419-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18J0419

31401451.000 task 01.00

Soil Vapor

October 5, 2018 12:30 pm

10/09/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m ³	2.6	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	0.68	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
67-64-1	Acetone	3.2		ug/m ³	0.78	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
107-13-1	Acrylonitrile	ND		ug/m ³	0.36	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
71-43-2	Benzene	ND		ug/m ³	0.53	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
100-44-7	Benzyl chloride	ND		ug/m ³	0.85	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
75-27-4	Bromodichloromethane	ND		ug/m ³	1.1	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
75-25-2	Bromoform	ND		ug/m ³	1.7	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
74-83-9	Bromomethane	ND		ug/m ³	0.64	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
75-15-0	Carbon disulfide	ND		ug/m ³	0.51	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
56-23-5	Carbon tetrachloride	ND		ug/m ³	0.26	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
108-90-7	Chlorobenzene	ND		ug/m ³	0.76	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
75-00-3	Chloroethane	ND		ug/m ³	0.43	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
67-66-3	Chloroform	ND		ug/m ³	0.80	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
74-87-3	Chloromethane	ND		ug/m ³	0.34	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
156-59-2	cis-1,2-Dichloroethylene	0.65		ug/m ³	0.16	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	0.75	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
110-82-7	Cyclohexane	ND		ug/m ³	0.57	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
124-48-1	Dibromochloromethane	ND		ug/m ³	1.4	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
75-71-8	Dichlorodifluoromethane	2.2		ug/m ³	0.81	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
141-78-6	* Ethyl acetate	ND		ug/m ³	1.2	1.648	EPA TO-15 Certifications:	10/10/2018 16:00	10/11/2018 12:31	AS
100-41-4	Ethyl Benzene	8.4		ug/m ³	0.72	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
87-68-3	Hexachlorobutadiene	ND		ug/m ³	1.8	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS



Sample Information

Client Sample ID: AQ100518:1230 NP4-1

York Sample ID: 18J0419-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18J0419

31401451.000 task 01.00

Soil Vapor

October 5, 2018 12:30 pm

10/09/2018

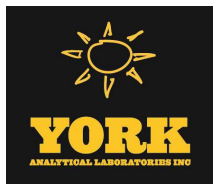
Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-63-0	Isopropanol	8.1		ug/m ³	0.81	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
80-62-6	Methyl Methacrylate	ND		ug/m ³	0.67	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.59	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
75-09-2	Methylene chloride	ND		ug/m ³	1.1	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
142-82-5	n-Heptane	ND		ug/m ³	0.68	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
110-54-3	n-Hexane	ND		ug/m ³	0.58	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
95-47-6	o-Xylene	9.6		ug/m ³	0.72	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
179601-23-1	p- & m- Xylenes	31		ug/m ³	1.4	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
622-96-8	* p-Ethyltoluene	9.6		ug/m ³	0.81	1.648	EPA TO-15 Certifications:	10/10/2018 16:00	10/11/2018 12:31	AS
115-07-1	* Propylene	ND		ug/m ³	0.28	1.648	EPA TO-15 Certifications:	10/10/2018 16:00	10/11/2018 12:31	AS
100-42-5	Styrene	ND		ug/m ³	0.70	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
127-18-4	Tetrachloroethylene	3.8		ug/m ³	0.28	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
109-99-9	* Tetrahydrofuran	ND		ug/m ³	0.97	1.648	EPA TO-15 Certifications:	10/10/2018 16:00	10/11/2018 12:31	AS
108-88-3	Toluene	3.7		ug/m ³	0.62	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	0.65	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	0.75	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
79-01-6	Trichloroethylene	0.35		ug/m ³	0.22	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m ³	0.93	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
108-05-4	Vinyl acetate	ND		ug/m ³	0.58	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
593-60-2	Vinyl bromide	ND		ug/m ³	0.72	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
75-01-4	Vinyl Chloride	ND		ug/m ³	0.11	1.648	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 12:31	AS
	Surrogate Recoveries	Result		Acceptance Range						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	99.2 %		70-130						



Sample Information

Client Sample ID: AQ100518:1235 NP4-3

York Sample ID: 18J0419-02

<u>York Project (SDG) No.</u> 18J0419	<u>Client Project ID</u> 31401451.000 task 01.00	<u>Matrix</u> Soil Vapor	<u>Collection Date/Time</u> October 5, 2018 12:35 pm	<u>Date Received</u> 10/09/2018
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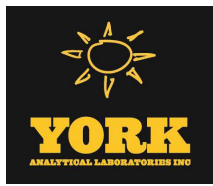
Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m ³	0.99	1.436	EPA TO-15 Certifications:	10/10/2018 16:00	10/11/2018 13:23	AS
71-55-6	1,1,1-Trichloroethane	ND		ug/m ³	0.78	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	0.99	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	1.1	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	0.78	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
75-34-3	1,1-Dichloroethane	ND		ug/m ³	0.58	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	0.14	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	1.1	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m ³	0.71	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
106-93-4	1,2-Dibromoethane	ND		ug/m ³	1.1	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	0.86	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
107-06-2	1,2-Dichloroethane	ND		ug/m ³	0.58	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
78-87-5	1,2-Dichloropropane	ND		ug/m ³	0.66	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	1.0	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m ³	0.71	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
106-99-0	1,3-Butadiene	ND		ug/m ³	0.95	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	0.86	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
142-28-9	* 1,3-Dichloropropane	ND		ug/m ³	0.66	1.436	EPA TO-15 Certifications:	10/10/2018 16:00	10/11/2018 13:23	AS
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	0.86	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
123-91-1	1,4-Dioxane	ND		ug/m ³	1.0	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
78-93-3	2-Butanone	3.9		ug/m ³	0.42	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
591-78-6	* 2-Hexanone	ND		ug/m ³	1.2	1.436	EPA TO-15 Certifications:	10/10/2018 16:00	10/11/2018 13:23	AS
107-05-1	3-Chloropropene	ND		ug/m ³	2.2	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS



Sample Information

Client Sample ID: AQ100518:1235 NP4-3

York Sample ID: 18J0419-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18J0419

31401451.000 task 01.00

Soil Vapor

October 5, 2018 12:35 pm

10/09/2018

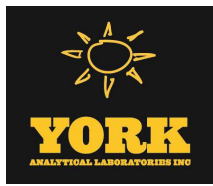
Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	0.76		ug/m ³	0.59	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
67-64-1	Acetone	11		ug/m ³	0.68	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
107-13-1	Acrylonitrile	ND		ug/m ³	0.31	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
71-43-2	Benzene	ND		ug/m ³	0.46	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
100-44-7	Benzyl chloride	ND		ug/m ³	0.74	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
75-27-4	Bromodichloromethane	ND		ug/m ³	0.96	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
75-25-2	Bromoform	ND		ug/m ³	1.5	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
74-83-9	Bromomethane	ND		ug/m ³	0.56	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
75-15-0	Carbon disulfide	ND		ug/m ³	0.45	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
56-23-5	Carbon tetrachloride	ND		ug/m ³	0.23	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
108-90-7	Chlorobenzene	ND		ug/m ³	0.66	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
75-00-3	Chloroethane	ND		ug/m ³	0.38	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
67-66-3	Chloroform	ND		ug/m ³	0.70	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
74-87-3	Chloromethane	ND		ug/m ³	0.30	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
156-59-2	cis-1,2-Dichloroethylene	2.2		ug/m ³	0.14	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	0.65	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
110-82-7	Cyclohexane	ND		ug/m ³	0.49	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
124-48-1	Dibromochloromethane	ND		ug/m ³	1.2	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
75-71-8	Dichlorodifluoromethane	2.3		ug/m ³	0.71	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
141-78-6	* Ethyl acetate	ND		ug/m ³	1.0	1.436	EPA TO-15 Certifications:	10/10/2018 16:00	10/11/2018 13:23	AS
100-41-4	Ethyl Benzene	0.69		ug/m ³	0.62	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
87-68-3	Hexachlorobutadiene	ND		ug/m ³	1.5	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
67-63-0	Isopropanol	ND		ug/m ³	0.71	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS



Sample Information

Client Sample ID: AQ100518:1235 NP4-3

York Sample ID: 18J0419-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18J0419

31401451.000 task 01.00

Soil Vapor

October 5, 2018 12:35 pm

10/09/2018

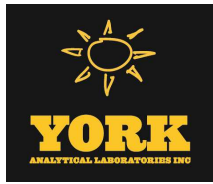
Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
80-62-6	Methyl Methacrylate	ND		ug/m ³	0.59	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.52	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
75-09-2	Methylene chloride	5.7		ug/m ³	1.0	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
142-82-5	n-Heptane	ND		ug/m ³	0.59	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
110-54-3	n-Hexane	2.4		ug/m ³	0.51	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
95-47-6	o-Xylene	0.81		ug/m ³	0.62	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
179601-23-1	p- & m- Xylenes	2.7		ug/m ³	1.2	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
622-96-8	* p-Ethyltoluene	ND		ug/m ³	0.71	1.436	EPA TO-15 Certifications:	10/10/2018 16:00	10/11/2018 13:23	AS
115-07-1	* Propylene	0.74		ug/m ³	0.25	1.436	EPA TO-15 Certifications:	10/10/2018 16:00	10/11/2018 13:23	AS
100-42-5	Styrene	ND		ug/m ³	0.61	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
127-18-4	Tetrachloroethylene	ND		ug/m ³	0.24	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
109-99-9	* Tetrahydrofuran	ND		ug/m ³	0.85	1.436	EPA TO-15 Certifications:	10/10/2018 16:00	10/11/2018 13:23	AS
108-88-3	Toluene	4.1		ug/m ³	0.54	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	0.57	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	0.65	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
79-01-6	Trichloroethylene	ND		ug/m ³	0.19	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
75-69-4	Trichlorofluoromethane (Freon 11)	1.7		ug/m ³	0.81	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
108-05-4	Vinyl acetate	ND		ug/m ³	0.51	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
593-60-2	Vinyl bromide	ND		ug/m ³	0.63	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
75-01-4	Vinyl Chloride	ND		ug/m ³	0.092	1.436	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/10/2018 16:00	10/11/2018 13:23	AS
	Surrogate Recoveries	Result					Acceptance Range			
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	96.1 %					70-130			



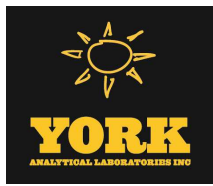
Analytical Batch Summary

Batch ID: BJ80685

Preparation Method: EPA TO15 PREP

Prepared By: AS

YORK Sample ID	Client Sample ID	Preparation Date
18J0419-01	AQ100518:1230 NP4-1	10/10/18
18J0419-02	AQ100518:1235 NP4-3	10/10/18
BJ80685-BLK1	Blank	10/10/18
BJ80685-BS1	LCS	10/10/18



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

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ80685 - EPA TO15 PREP

Blank (BJ80685-BLK1)

Prepared & Analyzed: 10/10/2018

1,1,1,2-Tetrachloroethane	ND	0.69	ug/m ³
1,1,1-Trichloroethane	ND	0.55	"
1,1,2,2-Tetrachloroethane	ND	0.69	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.77	"
1,1,2-Trichloroethane	ND	0.55	"
1,1-Dichloroethane	ND	0.40	"
1,1-Dichloroethylene	ND	0.099	"
1,2,4-Trichlorobenzene	ND	0.74	"
1,2,4-Trimethylbenzene	ND	0.49	"
1,2-Dibromoethane	ND	0.77	"
1,2-Dichlorobenzene	ND	0.60	"
1,2-Dichloroethane	ND	0.40	"
1,2-Dichloropropane	ND	0.46	"
1,2-Dichlorotetrafluoroethane	ND	0.70	"
1,3,5-Trimethylbenzene	ND	0.49	"
1,3-Butadiene	ND	0.66	"
1,3-Dichlorobenzene	ND	0.60	"
1,3-Dichloropropane	ND	0.46	"
1,4-Dichlorobenzene	ND	0.60	"
1,4-Dioxane	ND	0.72	"
2-Butanone	ND	0.29	"
2-Hexanone	ND	0.82	"
3-Chloropropene	ND	1.6	"
4-Methyl-2-pentanone	ND	0.41	"
Acetone	ND	0.48	"
Acrylonitrile	ND	0.22	"
Benzene	ND	0.32	"
Benzyl chloride	ND	0.52	"
Bromodichloromethane	ND	0.67	"
Bromoform	ND	1.0	"
Bromomethane	ND	0.39	"
Carbon disulfide	ND	0.31	"
Carbon tetrachloride	ND	0.16	"
Chlorobenzene	ND	0.46	"
Chloroethane	ND	0.26	"
Chloroform	ND	0.49	"
Chloromethane	ND	0.21	"
cis-1,2-Dichloroethylene	ND	0.099	"
cis-1,3-Dichloropropylene	ND	0.45	"
Cyclohexane	ND	0.34	"
Dibromochloromethane	ND	0.85	"
Dichlorodifluoromethane	ND	0.49	"
Ethyl acetate	ND	0.72	"
Ethyl Benzene	ND	0.43	"
Hexachlorobutadiene	ND	1.1	"
Isopropanol	ND	0.49	"
Methyl Methacrylate	ND	0.41	"
Methyl tert-butyl ether (MTBE)	ND	0.36	"
Methylene chloride	ND	0.69	"
n-Heptane	ND	0.41	"



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

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ80685 - EPA TO15 PREP

Blank (BJ80685-BLK1)

Prepared & Analyzed: 10/10/2018

n-Hexane	ND	0.35	ug/m ³								
o-Xylene	ND	0.43	"								
p- & m- Xylenes	ND	0.87	"								
p-Ethyltoluene	ND	0.49	"								
Propylene	ND	0.17	"								
Styrene	ND	0.43	"								
Tetrachloroethylene	ND	0.17	"								
Tetrahydrofuran	ND	0.59	"								
Toluene	ND	0.38	"								
trans-1,2-Dichloroethylene	ND	0.40	"								
trans-1,3-Dichloropropylene	ND	0.45	"								
Trichloroethylene	ND	0.13	"								
Trichlorofluoromethane (Freon 11)	ND	0.56	"								
Vinyl acetate	ND	0.35	"								
Vinyl bromide	ND	0.44	"								
Vinyl Chloride	ND	0.064	"								

<i>Surrogate: SURR: p-Bromofluorobenzene</i>	8.67		ppbv	10.0		86.7	70-130				
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LCS (BJ80685-BS1)

Prepared & Analyzed: 10/10/2018

1,1,1,2-Tetrachloroethane	9.34		ppbv	10.0		93.4	70-130				
1,1,1-Trichloroethane	10.5		"	10.0		105	70-130				
1,1,2,2-Tetrachloroethane	8.58		"	10.0		85.8	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.4		"	10.0		104	70-130				
1,1,2-Trichloroethane	8.89		"	10.0		88.9	70-130				
1,1-Dichloroethane	9.29		"	10.0		92.9	70-130				
1,1-Dichloroethylene	8.54		"	10.0		85.4	70-130				
1,2,4-Trichlorobenzene	10.0		"	10.0		100	70-130				
1,2,4-Trimethylbenzene	9.31		"	10.0		93.1	70-130				
1,2-Dibromoethane	8.82		"	10.0		88.2	70-130				
1,2-Dichlorobenzene	10.7		"	10.0		107	70-130				
1,2-Dichloroethane	9.17		"	10.0		91.7	70-130				
1,2-Dichloropropane	7.93		"	10.0		79.3	70-130				
1,2-Dichlorotetrafluoroethane	10.2		"	10.0		102	70-130				
1,3,5-Trimethylbenzene	8.89		"	10.0		88.9	70-130				
1,3-Butadiene	9.03		"	10.0		90.3	70-130				
1,3-Dichlorobenzene	10.9		"	10.0		109	70-130				
1,3-Dichloropropane	8.48		"	10.0		84.8	70-130				
1,4-Dichlorobenzene	11.1		"	10.0		111	70-130				
1,4-Dioxane	7.90		"	10.0		79.0	70-130				
2-Butanone	7.90		"	10.0		79.0	70-130				
2-Hexanone	7.53		"	10.0		75.3	70-130				
3-Chloropropene	7.88		"	10.0		78.8	70-130				
4-Methyl-2-pentanone	7.12		"	10.0		71.2	70-130				
Acetone	7.70		"	10.0		77.0	70-130				
Acrylonitrile	8.46		"	10.0		84.6	70-130				
Benzene	9.29		"	10.0		92.9	70-130				
Benzyl chloride	9.66		"	10.0		96.6	70-130				
Bromodichloromethane	8.86		"	10.0		88.6	70-130				
Bromoform	10.1		"	10.0		101	70-130				
Bromomethane	10.2		"	10.0		102	70-130				
Carbon disulfide	9.83		"	10.0		98.3	70-130				



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

York Analytical Laboratories, Inc.

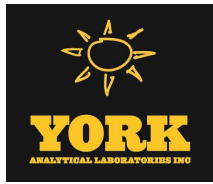
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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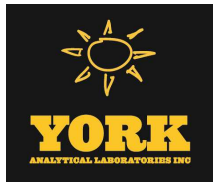
Batch BJ80685 - EPA TO15 PREP

LCS (BJ80685-BS1)

Prepared & Analyzed: 10/10/2018

Carbon tetrachloride	10.2		ppbv	10.0		102	70-130				
Chlorobenzene	8.87		"	10.0		88.7	70-130				
Chloroethane	10.6		"	10.0		106	70-130				
Chloroform	10.1		"	10.0		101	70-130				
Chloromethane	8.73		"	10.0		87.3	70-130				
cis-1,2-Dichloroethylene	8.96		"	10.0		89.6	70-130				
cis-1,3-Dichloropropylene	8.48		"	10.0		84.8	70-130				
Cyclohexane	8.65		"	10.0		86.5	70-130				
Dibromochloromethane	9.68		"	10.0		96.8	70-130				
Dichlorodifluoromethane	9.80		"	10.0		98.0	70-130				
Ethyl acetate	8.37		"	10.0		83.7	70-130				
Ethyl Benzene	8.08		"	10.0		80.8	70-130				
Hexachlorobutadiene	10.5		"	10.0		105	70-130				
Isopropanol	7.56		"	10.0		75.6	70-130				
Methyl Methacrylate	8.33		"	10.0		83.3	70-130				
Methyl tert-butyl ether (MTBE)	5.56		"	10.0		55.6	70-130	Low Bias			
Methylene chloride	8.56		"	10.0		85.6	70-130				
n-Heptane	7.51		"	10.0		75.1	70-130				
n-Hexane	8.62		"	10.0		86.2	70-130				
o-Xylene	8.48		"	10.0		84.8	70-130				
p- & m- Xylenes	17.3		"	20.0		86.4	70-130				
p-Ethyltoluene	9.84		"	10.0		98.4	70-130				
Propylene	7.61		"	10.0		76.1	70-130				
Styrene	8.96		"	10.0		89.6	70-130				
Tetrachloroethylene	9.70		"	10.0		97.0	70-130				
Tetrahydrofuran	7.88		"	10.0		78.8	70-130				
Toluene	8.47		"	10.0		84.7	70-130				
trans-1,2-Dichloroethylene	8.95		"	10.0		89.5	70-130				
trans-1,3-Dichloropropylene	8.73		"	10.0		87.3	70-130				
Trichloroethylene	8.04		"	10.0		80.4	70-130				
Trichlorofluoromethane (Freon 11)	10.7		"	10.0		107	70-130				
Vinyl acetate	5.46		"	10.0		54.6	70-130	Low Bias			
Vinyl bromide	10.5		"	10.0		105	70-130				
Vinyl Chloride	8.96		"	10.0		89.6	70-130				
Surrogate: SURR: p-Bromofluorobenzene	10.2		"	10.0		102	70-130				





Sample and Data Qualifiers Relating to This Work Order

- QL-03 This LCS analyte recovered outside of acceptance limits. The LCS contains approximately 70 compounds, a limited number of which may be outside acceptance windows.
- CCV-A The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>30% Difference for average Rf). This applies to detected analytes only.

Definitions and Other Explanations

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

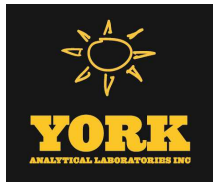
If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For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

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

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

Certification for pH is no longer offered by NYDOH ELAP.

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



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