THE Chazen COMPANIES®
Proud to be Employee Owned
Engineers
Land Surveyors
Planners
Environmental & Safety Professionals
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April 15, 2016

Harry Avakin
528 19th Street
Watervliet, New York 12589
Via email: armeniangod@yahoo.com

Re: Limited Subsurface Sampling Report
Former Dry Cleaner Property, 617 19th Street,
City of Watervliet, Albany County, New York

Dear Mr. Avakin:

The Chazen Companies (Chazen) has completed a limited subsurface sampling investigation at the above-referenced property (the "Site"). The property was previously used as an active dry cleaning facility and is currently operated as a pick-up and drop-off dry-cleaning site managed the former owner.

This limited site investigation has identified the presence of volatile organic compounds (VOCs) in soil, groundwater, and in sub-slab vapor at levels that exceed regulatory standards and guidance values. Chazen understands that you have already notified New York State Department of Environmental Conservation of the field evidence suggesting a chemical release.

LIMITED SUBSURFACE SAMPLING INVESTIGATION

The investigation included the collection of two soil samples, one groundwater sample, and one sub-slab vapor sample for laboratory analysis of VOCs. To collect these samples, Chazen completed two interior borings (SB-1, SB-2) and one exterior boring (SB-3) using a Geoprobe® drilling. Sampling locations are shown on the attached **Sample Location Map** with descriptive boring logs provided for reference.

Borings were advanced far enough to encounter groundwater, encountered at a maximum depth of 9.5 feet in soil boring SB-3. Soils with solvent-like odors were noted in soil borings SB-1 and SB-3, supported by photoionization detector (PID) headspace readings ranging from 1.7 to 1,118 parts per million. No impacts were observed near the front of the site, in boring SB-2. Soil samples were collected from borings SB-1 and SB-3 from the depth interval exhibiting the highest degree of suspected impacts based on field observations, with one groundwater sample collected from SB-1. No soil sample was collected from SB-2 due to budget limits and an absence of observed field evidence of solvent impacts. The soil and groundwater samples were submitted for laboratory analysis of full list VOCs via EPA method 8260. Soil borings were backfilled with native material and interior surfaces were restored with concrete.

A sub-slab vapor sample was collected by advancing a 1-inch diameter hole through the concrete slab near the center of the building. New sample tubing was placed though the hole, sealed with hydrated bentonite, then purged of indoor air prior to opening the summa canister to allow collection of a sub-

slab sample. As a screening sample, no helium seal test was conducted. The vapor sample drawn by the summa canister was collected over a 1-hour period and then submitted for laboratory analysis of VOCs via EPA method TO-15. The floor penetration was patched with cement following sample collection.

SAMPLING RESULTS

A comparison of the analytical results to regulatory standards and guidance values is provided in the attached "hit" summary tables, which list only detected compounds. The results identify gasoline-range and chlorinated VOCs in soil, groundwater, and subslab vapor at the Site. A brief summary of the findings is provided below:

Soil Samples

Analytical results are compared to NYSDEC Part 375 soil cleanup objectives (SCOs) for Unrestricted Use (**Table 1**) . As a point of reference, results exceeding Unrestricted Use SCOs were also compared to Commercial SCOs.

SB-1: Fourteen VOCs were identified. The detected concentrations met the Unrestricted Use Soil SCOs except for Cis-1,2-Dichloroethylene, which was less than the Commercial SCO.

SB-3: Thirteen VOCs were identified. Nine constituents reported concentrations greater than Unrestricted Use SCOs, including Tetrachlorethylene (PCE) and gasoline-range constituents. One of these constituents, 1,2,4-Trimethylbenzene (260 ppm), reported a concentration that also exceeds the Commercial SCO (190 ppm).

The analytical laboratory reports showing all analyzed compounds are attached.

Groundwater Sample

Twenty-two VOCs were detected in the groundwater sample (SB-1:GW), sixteen of which exceeded NYSDEC TOGS 1.1.1 groundwater standards (**Table 2**).

The chlorinated VOC Cis-1,2-Dichloroethylene was detected at 4,400 µg/L, which is significantly greater than the published standard (5 µg/L). PCE and other degradation products as well as gasoline-range constituents were also reported.

Sub-Slab Vapor Sample

Eight VOCs were present in sub-slab vapor sample SS-1 (**Table 3**). The chlorinated solvent PCE was reported at 5,600 µg/m^3. According to NYSDOH soil vapor intrusion guidance, mitigation is required for PCE concentrations exceeding 1,000 µg/m^3 in sub-slab vapor to protect indoor air quality and minimize current or potential exposure.

CONCLUSION AND CLOSING

Chazen's limited subsurface sampling effort has identified chlorinated VOCs as well as some gasoline-range VOCs in soil, groundwater, and sub-slab vapor at the Site. The vapor sample identified a concentrated presence of Tetrachlorethylene (PCE) and the groundwater sample identified sharply elevated concentration of Cis-1,2-Dichloroethylene which is a degradation product of PCE. The results all point to site impacts warranting the spill report that Chazen recommended be made to NYSDEC. The results also indicate that the site would likely require further investigation and remediation. Should you move forward with purchasing the property, you may wish to first consider NYS Brownfields Cleanup Program which can offer liability protection from off-site impacts and also provide tax credits for eligible remediation and site development costs.

This limited investigation was not intended to provide sufficient information to fully characterize the nature and extent of impacts nor evaluate potential remedial actions or costs.

Chazen would be pleased to provide you with a service change order to further delineate the impacts identified by this study and/or help evaluate remedial options.

Please feel free to contact me at (845) 486-1521 or Arlette St. Romain at (518) 266-7328 if you have any questions. Thank you for allowing Chazen to work with you on this project.

Sincerely,

William G. Olsen
Hydrogeologist

WGO/rum

Attachments: Sample Location Map
Boring Logs
Data Summary Tables
Analytical Laboratory Reports

SB-3
SB-1
SS-1
SB-2
NORTH
19th Street
SAMPLING LOCATION MAP
Soil Boring
Sub-slab Vapor Sample

Table 1

Summary of Detected VOCs in Soil

617 19th Street, Watervliet, New York

Sample ID	**SB-1 (7-8')**		**SB-3 (9-10')**		NYSDEC Part 375 Restricted Use Soil Cleanup Objectives			
York ID	**16C1186-01**		**16C1186-03**					
Sampling Date	**3/29/2016**		**3/29/2016**					
Sample Matrix	**Soil**		**Soil**					
Compound	Result	Q	Result	Q	**Unrestricted**	**Residential**	**Restricted-Residential**	**Commercial**
Volatile Organics, 8260 - Comprehensive	mg/Kg		mg/Kg		mg/Kg	mg/Kg	mg/Kg	mg/Kg
1,2,4-Trimethylbenzene	0.48	E	**260**	D	3.6	47	52	190
1,3,5-Trimethylbenzene	0.19	E	**92**	D	8.4	47	52	190
Benzene	0.0025	J	1.10	U	0.06	2.9	4.8	44
cis-1,2-Dichloroethylene	**3**	D	**5.70**	D	0.25	59	100	500
Ethyl Benzene	0.025		**13**	D	1	30	41	390
Isopropylbenzene	0.041		18	D	~	~	~	~
Methylcyclohexane	0.021		1.10	U	~	~	~	~
n-Propylbenzene	0.10		**53**	D	3.9	100	100	500
o-Xylene	0.033		14	D	~	~	~	~
p- & m- Xylenes	0.036		21	D	~	~	~	~
p-Isopropyltoluene	0.094		48	D	~	~	~	~
sec-Butylbenzene	0.067		**33**	D	11	100	100	500
tert-Butylbenzene	0.0022	U	2.40	D	5.9	100	100	500
Tetrachloroethylene	0.0022	U	**97**	D	1.3	5.5	19	150
Toluene	0.0029	J	1.10	U	0.7	100	100	500
Trichloroethylene	0.0022	U	1.70	JD	0.47	10	21	200
Vinyl Chloride	0.0082		1.10	U	0.02	0.21	0.9	13

NOTES:

Results that exceed the Unrestricted Use SCO are bold and shaded yellow.

Q is the Qualifier Column with definitions as follows:

D=result is from an analysis that required a dilution

J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

U=analyte not detected at or above the level indicated

Table 2

Summary of Detected VOCs in Groundwater

617 19th Street, Watervliet, New York

Sample ID **York ID** **Sampling Date** **Sample Matrix**	**SB-1 : GW** **16C1186-02** **3/29/2016** **Water**		**NYSDEC TOGS 1.1.1 Groundwater Standards and Guidance Values**
Compound	Result	Q	
Volatile Organics, 8260 - Comprehensive	ug/L		ug/L
1,1-Dichloroethylene	4.20	D	5
1,2,4-Trimethylbenzene	**52**	D	5
1,3,5-Trimethylbenzene	**28**	D	5
Acetone	12	BD	50
Benzene	**2.80**	D	1
cis-1,2-Dichloroethylene	**4,400**	D	5
Cyclohexane	4.40	D	~
Ethyl Benzene	**12**	D	5
Isopropylbenzene	**13**	D	5
Methylcyclohexane	12	D	~
n-Butylbenzene	**18**	D	5
n-Propylbenzene	**16**	D	5
o-Xylene	**11**	D	5
p- & m- Xylenes	**12**	D	5
p-Isopropyltoluene	**5.40**	D	5
sec-Butylbenzene	**17**	D	5
tert-Butylbenzene	2	JD	5
Tetrachloroethylene	**9.70**	D	5
Toluene	4.20	D	5
trans-1,2-Dichloroethylene	**43**	D	5
Trichloroethylene	**7**	D	5
Vinyl Chloride	**26**	D	2

NOTES:

Results that exceed the groundwater standard are bold and shaded yellow.

Q is the Qualifier Column with definitions as follows:

D=result is from an analysis that required a dilution

J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

U=analyte not detected at or above the level indicated

B=analyte found in the analysis batch blank

E=result is estimated and cannot be accurately reported due to levels encountered or interferences

NT=this indicates the analyte was not a target for this sample

~=this indicates that no regulatory limit has been established for this analyte

Table 3

Summary of Detected VOCs in Sub-Slab Vapor

617 19th Street, Watervliet, New York

Sample ID	**SS-1**	
York ID	**16C1189-01**	
Sampling Date	**3/29/2016**	
Sample Matrix	**Soil Vapor**	
Compound	Result	Q
Volatile Organics, EPA TO15	ug/m3	
2-Butanone	6.30	D
Acetone	35	D
Chloroform	25	D
Chloromethane	3.70	U
cis-1,2-Dichloroethylene	170	D
Tetrachloroethylene	**5,600**	D
Toluene	18	D
Trichloroethylene	89	D

NOTES:

Per NYSDOH soil vapor intrusion guidance, Tetrachloroethylene concentrations greater than 1,000 ug/m3 in sub-slab vapor require mitigation to minimize current or potential exposures

Q is the Qualifier Column with definitions as follows:

D=result is from an analysis that required a dilution

J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

U=analyte not detected at or above the level indicated

B=analyte found in the analysis batch blank

E=result is estimated and cannot be accurately reported due to levels encountered or interferences

NT=this indicates the analyte was not a target for this sample

~=this indicates that no regulatory limit has been established for this analyte

THE Chazen COMPANIES

21 Fox Street
Poughkeepsie, NY 12601
Phn: (845) 454-3980
Fax: (845) 454-4026

PROJECT: Avakin - Former Dry Cleaner Sampling Investigation
LOCATION: 617 19th Street, Watervliet, New York
CLIENT: Harry Avakin
PROJECT NO.: 41616.00

Test Boring No.: **SB-1**

Total Depth: 8 ft.

Contractor: Core Down Drilling
Drill Rig: Geoprobe 54DT
Driller: Joe Bellucci
Geologist: Will Olsen

Start Date: March 29, 2016
Finish Date: March 29, 2016
El. Datum:
G.S. Elevation:

Northing: na
Easting: na
Longitude: na
Latitude: na

Borehole Dia.: 2.5 in.
Water Depth: 5 ft.
Rock Depth: >8 ft.
Well Depth: 8 ft.

Depth (Ft)	Elevation (Ft)	Casing Blows	Sample No.	PID (ppm)	Recovery(in)	Groundwater	Group Symbol	Stratum and Field Descriptions:	Well Diagram	Field Notes, Well Notes, Comments:
0			1					6" concrete slab		
1										Set 1" PVC TGSP to 8 ft bgs, 5-ft 10-slot screen
2				0.0	36			30" brown gravelly clay, mostly moist clay bottom 6", faint odor bottom 6"		Collected grab groundwater sample SB-1:GW
3										
4				1.7						
5			2	17.0	48	▼		6" brown gravelly clay, wet		
6								42" brown-grey mottled clay, stiff, moisture decreasing with depth, solvent-like odor 7-8 feet		
7				38						
8				340						
9								End of Boring at 8 feet bgs		
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										

METHODS: **HSA**- Hollow Stem Auger, **RWH**- Rotary Wash, **SSA**- Solid Stem Auger, **CPT**- Cone Penetrometer

SAMPLE TYPES: **AS**-Auger, **WS**-Wash, **SS**-Split Spoon, **RC**-Rock Core, **GS**-Grab, **ST**-Shelby Tube, **PS**-Piston

STANDARD 1. Samples classified in accordance with ASTM D-2488 unless otherwise noted.

NOTES: 2. Test Boring Log Page 1: 0 - 20 feet. Each subsequent page: Additional 20 feet.

3. Refer to the "Interpretation of Subsurface Logs" for additional symbology and abbreviation definitions.

ADDITIONAL NOTES:
1. **NOSOI - No obvious signs of impacts**
2. **saa - same as above**
3 **bgs - below ground surface**
4. TGSP - temporary groundwater sampling point

DRILLING INFORMATION

Method: Direct Push
Method:

	Casing	Sample	Core
Type:		Macrocore	
Diam.:			
Weight:			
Fall:			

THE Chazen COMPANIES

21 Fox Street
Poughkeepsie, NY 12601
Phn: (845) 454-3980
Fax: (845) 454-4026

PROJECT: Avakin - Former Dry Cleaner Sampling Investigation
LOCATION: 617 19th Street, Watervliet, New York
CLIENT: Harry Avakin
PROJECT NO.: 41616.00

Test Boring No.: **SB-2**

Total Depth: 8 ft.

Contractor: Core Down Drilling
Drill Rig: Geoprobe 54DT
Driller: Joe Bellucci
Geologist: Will Olsen

Start Date: March 29, 2016
Finish Date: March 29, 2016
El. Datum:
G.S. Elevation:

Northing: na
Easting: na
Longitude: na
Latitude: na

Borehole Dia.: 2.5 in.
Water Depth: 5 ft.
Rock Depth: >8 ft.
Well Depth: na ft.

Depth (Ft)	Elevation (Ft)	Casing Blows	Sample No.	PID (ppm)	Recovery(in)	Groundwater	Group Symbol	Stratum and Field Descriptions:	Well Diagram	Field Notes, Well Notes, Comments:
0			1					6" concrete slab		
1										
2				0.0	40			34" brown clayey gravel, some brick, dry to moist, NOSOI		
3										
4			2			▼		14" brown-grey clay, soft, moist, NOSOI		
5								3" brown-grey sandy gravel seam, wet, NOSOI		
6				0.0	38			21" brown-grey clayey gravel, till-like, mottled, moist, broken dark grey shale in tip, NOSOI		
7										
8								End of Boring at 8 feet bgs		
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										

METHODS: **HSA**- Hollow Stem Auger, **RWH**- Rotary Wash, **SSA**- Solid Stem Auger, **CPT**- Cone Penetrometer

SAMPLE TYPES: **AS**-Auger, **WS**-Wash, **SS**-Split Spoon, **RC**-Rock Core, **GS**-Grab, **ST**-Shelby Tube, **PS**-Piston

STANDARD 1. Samples classified in accordance with ASTM D-2488 unless otherwise noted.

NOTES: 2. Test Boring Log Page 1: 0 - 20 feet. Each subsequent page: Additional 20 feet.

3. Refer to the "Interpretation of Subsurface Logs" for additional symbology and abbreviation definitions.

ADDITIONAL NOTES:
1. **NOSOI - No obvious signs of impacts**
2. **saa - same as above**
3 **bgs - below ground surface**

DRILLING INFORMATION

Method: Direct Push
Method:

	Casing	Sample	Core
Type:		Macrocore	
Diam.:			
Weight:			
Fall:			

THE Chazen COMPANIES

21 Fox Street
Poughkeepsie, NY 12601
Phn: (845) 454-3980
Fax: (845) 454-4026

PROJECT: Avakin - Former Dry Cleaner Sampling Investigation
LOCATION: 617 19th Street, Watervliet, New York
CLIENT: Harry Avakin
PROJECT NO.: 41616.00

Test Boring No.: **SB-3**

Total Depth: 8 ft.

Contractor: Core Down Drilling
Drill Rig: Geoprobe 54DT
Driller: Joe Bellucci
Geologist: Will Olsen

Start Date: March 29, 2016
Finish Date: March 29, 2016
El. Datum:
G.S. Elevation:

Northing: na
Easting: na
Longitude: na
Latitude: na

Borehole Dia.: 2.5 in.
Water Depth: 9.5 ft.
Rock Depth: ~12 ft.
Well Depth: na ft.

Depth (Ft)	Elevation (Ft)	Casing Blows	Sample No.	PID (ppm)	Recovery(in)	Groundwater	Group Symbol	Stratum and Field Descriptions:	Well Diagram	Field Notes, Well Notes, Comments:
0-4			1	0.0	40			34" brown-grey clayey gravel, trace brick and ash, moist to dry, NOSOI		
4-5			2	0.0	38			4" saa		
5-6				35				14" brown sandy clay		
6-8				657 79				31" brown-grey-olive gravelly clay, till-like, stiff, moist, strong solvent odor in upper foot		
8-9			3	214		▼		16" saa, solvent odor		
9-10				1,118				14" grey silty f-m sand, wet, solvent odor		
10-11				609				12" grey-brown, mottled sandy clay, med. stiff, moist, solvent odor		
11-12				126				4" dark grey weathered shale, dry		
12								End of Boring at 12 feet bgs		

METHODS: **HSA**- Hollow Stem Auger, **RWH**- Rotary Wash, **SSA**- Solid Stem Auger, **CPT**- Cone Penetrometer

SAMPLE TYPES: **AS**-Auger, **WS**-Wash, **SS**-Split Spoon, **RC**-Rock Core, **GS**-Grab, **ST**-Shelby Tube, **PS**-Piston

STANDARD 1. Samples classified in accordance with ASTM D-2488 unless otherwise noted.

NOTES: 2. Test Boring Log Page 1: 0 - 20 feet. Each subsequent page: Additional 20 feet.

3. Refer to the "Interpretation of Subsurface Logs" for additional symbology and abbreviation definitions.

ADDITIONAL NOTES:
1. **NOSOI - No obvious signs of impacts**
2. **saa - same as above**
3 **bgs - below ground surface**

DRILLING INFORMATION

Method: Direct Push
Method:

	Casing	Sample	Core
Type:		Macrocore	
Diam.:			
Weight:			
Fall:			

Technical Report

prepared for:

Chazen Environmental Services (Poughkeepsie)
21 Fox Street
Poughkeepsie NY, 12601
Attention: Will Olsen

Report Date: 04/06/2016
Client Project ID: 41616.00 TASK0100 Avakin-Watervliet
York Project (SDG) No.: 16C1186

Report Date: 04/06/2016
Client Project ID: 41616.00 TASK0100 Avakin-Watervliet
York Project (SDG) No.: 16C1186

Chazen Environmental Services (Poughkeepsie)
21 Fox Street
Poughkeepsie NY, 12601
Attention: Will Olsen

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 March 30, 2016 and listed below. The project was identified as your project: **41616.00 TASK0100 Avakin-Watervliet**.

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 Notes 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 attachment to this report, and case narrative if applicable.

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

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
16C1186-01	SB-1(7-8')	Soil	03/29/2016	03/30/2016
16C1186-02	SB-1 : GW	Water	03/29/2016	03/30/2016
16C1186-03	SB-3(9-10')	Soil	03/29/2016	03/30/2016

General Notes for York Project (SDG) No.: 16C1186

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 samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By: 

Date: 04/06/2016

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: SB-1(7-8')

York Sample ID: 16C1186-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16C1186	41616.00 TASK0100 Avakin-Watervliet	Soil	March 29, 2016 11:15 am	03/30/2016

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

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		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 08:52	04/01/2016 10:44	BK
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 08:52	04/01/2016 10:44	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 08:52	04/01/2016 10:44	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 08:52	04/01/2016 10:44	BK
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 08:52	04/01/2016 10:44	BK
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 08:52	04/01/2016 10:44	BK
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 08:52	04/01/2016 10:44	BK
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/01/2016 08:52	04/01/2016 10:44	BK
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/01/2016 08:52	04/01/2016 10:44	BK
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/01/2016 08:52	04/01/2016 10:44	BK
95-63-6	**1,2,4-Trimethylbenzene**	**0.48**	E	mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 08:52	04/01/2016 10:44	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 08:52	04/01/2016 10:44	BK
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 08:52	04/01/2016 10:44	BK
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 08:52	04/01/2016 10:44	BK
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 08:52	04/01/2016 10:44	BK
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 08:52	04/01/2016 10:44	BK
108-67-8	**1,3,5-Trimethylbenzene**	**0.19**	E	mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 08:52	04/01/2016 10:44	BK
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 08:52	04/01/2016 10:44	BK
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 08:52	04/01/2016 10:44	BK
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.045	0.089	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/01/2016 08:52	04/01/2016 10:44	BK
78-93-3	2-Butanone	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 08:52	04/01/2016 10:44	BK
591-78-6	2-Hexanone	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 08:52	04/01/2016 10:44	BK
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 08:52	04/01/2016 10:44	BK

Sample Information

Client Sample ID: SB-1(7-8')

York Sample ID: 16C1186-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16C1186	41616.00 TASK0100 Avakin-Watervliet	Soil	March 29, 2016 11:15 am	03/30/2016

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	Acetone	ND		mg/kg dry	0.0045	0.0089	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 08:52	04/01/2016 10:44	BK
107-02-8	Acrolein	ND		mg/kg dry	0.0045	0.0089	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 08:52	04/01/2016 10:44	BK
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 08:52	04/01/2016 10:44	BK
71-43-2	**Benzene**	**0.0025**	J	mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 08:52	04/01/2016 10:44	BK
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/01/2016 08:52	04/01/2016 10:44	BK
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 08:52	04/01/2016 10:44	BK
75-25-2	Bromoform	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 08:52	04/01/2016 10:44	BK
74-83-9	Bromomethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 08:52	04/01/2016 10:44	BK
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 08:52	04/01/2016 10:44	BK
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 08:52	04/01/2016 10:44	BK
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 08:52	04/01/2016 10:44	BK
75-00-3	Chloroethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 08:52	04/01/2016 10:44	BK
67-66-3	Chloroform	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 08:52	04/01/2016 10:44	BK
74-87-3	Chloromethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 08:52	04/01/2016 10:44	BK
156-59-2	**cis-1,2-Dichloroethylene**	**3.0**		mg/kg dry	0.22	0.45	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 08:52	04/04/2016 12:59	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 08:52	04/01/2016 10:44	BK
110-82-7	Cyclohexane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/01/2016 08:52	04/01/2016 10:44	BK
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/01/2016 08:52	04/01/2016 10:44	BK
74-95-3	Dibromomethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/01/2016 08:52	04/01/2016 10:44	BK
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/01/2016 08:52	04/01/2016 10:44	BK
100-41-4	**Ethyl Benzene**	**0.025**		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 08:52	04/01/2016 10:44	BK
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/01/2016 08:52	04/01/2016 10:44	BK
98-82-8	**Isopropylbenzene**	**0.041**		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 08:52	04/01/2016 10:44	BK

Sample Information

Client Sample ID: SB-1(7-8') **York Sample ID:** 16C1186-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16C1186	41616.00 TASK0100 Avakin-Watervliet	Soil	March 29, 2016 11:15 am	03/30/2016

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/01/2016 08:52	04/01/2016 10:44	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 08:52	04/01/2016 10:44	BK
108-87-2	**Methylcyclohexane**	**0.021**		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/01/2016 08:52	04/01/2016 10:44	BK
75-09-2	Methylene chloride	ND		mg/kg dry	0.0045	0.0089	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 08:52	04/01/2016 10:44	BK
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 08:52	04/01/2016 10:44	BK
103-65-1	**n-Propylbenzene**	**0.10**		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 08:52	04/01/2016 10:44	BK
95-47-6	**o-Xylene**	**0.033**		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	04/01/2016 08:52	04/01/2016 10:44	BK
179601-23-1	**p- & m- Xylenes**	**0.036**		mg/kg dry	0.0045	0.0089	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	04/01/2016 08:52	04/01/2016 10:44	BK
99-87-6	**p-Isopropyltoluene**	**0.094**		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 08:52	04/01/2016 10:44	BK
135-98-8	**sec-Butylbenzene**	**0.067**		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 08:52	04/01/2016 10:44	BK
100-42-5	Styrene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 08:52	04/01/2016 10:44	BK
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0045	0.0089	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/01/2016 08:52	04/01/2016 10:44	BK
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 08:52	04/01/2016 10:44	BK
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 08:52	04/01/2016 10:44	BK
108-88-3	**Toluene**	**0.0029**	J	mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 08:52	04/01/2016 10:44	BK
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/01/2016 08:52	04/01/2016 10:44	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 08:52	04/01/2016 10:44	BK
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 08:52	04/01/2016 10:44	BK
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 08:52	04/01/2016 10:44	BK
75-01-4	**Vinyl Chloride**	**0.0082**		mg/kg dry	0.0022	0.0045	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 08:52	04/01/2016 10:44	BK
1330-20-7	**Xylenes, Total**	**0.068**		mg/kg dry	0.0067	0.013	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/01/2016 08:52	04/01/2016 10:44	BK

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*89.5 %*	*77-125*
2037-26-5	*Surrogate: Toluene-d8*	*108 %*	*85-120*

Sample Information

Client Sample ID: SB-1(7-8') **York Sample ID:** 16C1186-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16C1186	41616.00 TASK0100 Avakin-Watervliet	Soil	March 29, 2016 11:15 am	03/30/2016

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
460-00-4	*Surrogate: p-Bromofluorobenzene*	*104 %*			*76-130*						

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**84.6**		%	0.100	0.100	1	SM 2540G Certifications: CTDOH	03/31/2016 12:03	03/31/2016 19:39	CLS

Sample Information

Client Sample ID: SB-1 : GW **York Sample ID:** 16C1186-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16C1186	41616.00 TASK0100 Avakin-Watervliet	Water	March 29, 2016 11:30 am	03/30/2016

Volatile Organics, 8260 - Comprehensive

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	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
75-35-4	**1,1-Dichloroethylene**	**4.2**		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
95-63-6	**1,2,4-Trimethylbenzene**	**52**		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS

Sample Information

Client Sample ID: SB-1 : GW

York Sample ID: 16C1186-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16C1186	41616.00 TASK0100 Avakin-Watervliet	Water	March 29, 2016 11:30 am	03/30/2016

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
108-67-8	**1,3,5-Trimethylbenzene**	**28**		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
123-91-1	1,4-Dioxane	ND		ug/L	200	200	5	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
78-93-3	2-Butanone	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
591-78-6	2-Hexanone	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
67-64-1	**Acetone**	**12**	SCAL-E, B	ug/L	5.0	10	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
107-02-8	Acrolein	ND		ug/L	1.0	10	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
107-13-1	Acrylonitrile	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
71-43-2	**Benzene**	**2.8**		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
74-97-5	Bromochloromethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
75-27-4	Bromodichloromethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
75-25-2	Bromoform	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
74-83-9	Bromomethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
75-15-0	Carbon disulfide	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
56-23-5	Carbon tetrachloride	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
108-90-7	Chlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS

Sample Information

Client Sample ID: **SB-1 : GW** **York Sample ID:** **16C1186-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16C1186	41616.00 TASK0100 Avakin-Watervliet	Water	March 29, 2016 11:30 am	03/30/2016

Volatile Organics, 8260 - Comprehensive **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
75-00-3	Chloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
67-66-3	Chloroform	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
74-87-3	Chloromethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
156-59-2	**cis-1,2-Dichloroethylene**	**4400**		ug/L	10	25	50	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	04/01/2016 13:38	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
110-82-7	**Cyclohexane**	**4.4**		ug/L	1.0	2.5	5	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
124-48-1	Dibromochloromethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
74-95-3	Dibromomethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
100-41-4	**Ethyl Benzene**	**12**		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
98-82-8	**Isopropylbenzene**	**13**		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
79-20-9	Methyl acetate	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
108-87-2	**Methylcyclohexane**	**12**		ug/L	1.0	2.5	5	EPA 8260C Certifications: NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
75-09-2	Methylene chloride	ND		ug/L	5.0	10	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
104-51-8	**n-Butylbenzene**	**18**		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
103-65-1	**n-Propylbenzene**	**16**		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
95-47-6	**o-Xylene**	**11**		ug/L	1.0	2.5	5	EPA 8260C Certifications: NELAC-NY10854	03/31/2016 08:39	03/31/2016 17:46	SS
179601-23-1	**p- & m- Xylenes**	**12**		ug/L	2.5	5.0	5	EPA 8260C Certifications: NELAC-NY10854	03/31/2016 08:39	03/31/2016 17:46	SS
99-87-6	**p-Isopropyltoluene**	**5.4**		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
135-98-8	**sec-Butylbenzene**	**17**		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS
100-42-5	Styrene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	03/31/2016 08:39	03/31/2016 17:46	SS

Sample Information

Client Sample ID: SB-1 : GW **York Sample ID:** 16C1186-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16C1186	41616.00 TASK0100 Avakin-Watervliet	Water	March 29, 2016 11:30 am	03/30/2016

Volatile Organics, 8260 - Comprehensive

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
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	2.5	10	5	EPA 8260C Certifications:	03/31/2016 08:39 NELAC-NY10854,NJDEP	03/31/2016 17:46	SS
98-06-6	**tert-Butylbenzene**	**2.0**	J	ug/L	1.0	2.5	5	EPA 8260C Certifications:	03/31/2016 08:39 CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:46	SS
127-18-4	**Tetrachloroethylene**	**9.7**		ug/L	1.0	2.5	5	EPA 8260C Certifications:	03/31/2016 08:39 CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:46	SS
108-88-3	**Toluene**	**4.2**		ug/L	1.0	2.5	5	EPA 8260C Certifications:	03/31/2016 08:39 CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:46	SS
156-60-5	**trans-1,2-Dichloroethylene**	**43**		ug/L	1.0	2.5	5	EPA 8260C Certifications:	03/31/2016 08:39 CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:46	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	03/31/2016 08:39 CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:46	SS
79-01-6	**Trichloroethylene**	**7.0**		ug/L	1.0	2.5	5	EPA 8260C Certifications:	03/31/2016 08:39 CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:46	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	03/31/2016 08:39 CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:46	SS
75-01-4	**Vinyl Chloride**	**26**		ug/L	1.0	2.5	5	EPA 8260C Certifications:	03/31/2016 08:39 CTDOH,NELAC-NY10854,NJDEP	03/31/2016 17:46	SS
1330-20-7	*** Xylenes, Total**	**22**		ug/L	3.0	7.5	5	EPA 8260C Certifications:	03/31/2016 08:39 CTDOH,NJDEP	03/31/2016 17:46	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*94.0 %*	*69-130*
2037-26-5	*Surrogate: Toluene-d8*	*91.1 %*	*81-117*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*101 %*	*79-122*

Sample Information

Client Sample ID: SB-3(9-10') **York Sample ID:** 16C1186-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16C1186	41616.00 TASK0100 Avakin-Watervliet	Soil	March 29, 2016 2:30 pm	03/30/2016

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

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		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27 CTDOH,NELAC-NY10854,NJDEP	04/04/2016 13:29	BK
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/04/2016 13:29	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/04/2016 13:29	BK

Sample Information

Client Sample ID: SB-3(9-10') **York Sample ID:** 16C1186-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16C1186	41616.00 TASK0100 Avakin-Watervliet	Soil	March 29, 2016 2:30 pm	03/30/2016

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27	04/04/2016 13:29 CTDOH,NELAC-NY10854,NJDEP	BK
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27	04/04/2016 13:29 CTDOH,NELAC-NY10854,NJDEP,PADEP	BK
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27	04/04/2016 13:29 CTDOH,NELAC-NY10854,NJDEP,PADEP	BK
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27	04/04/2016 13:29 CTDOH,NELAC-NY10854,NJDEP,PADEP	BK
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27	04/04/2016 13:29 NELAC-NY10854,NJDEP	BK
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27	04/04/2016 13:29 NELAC-NY10854,NJDEP	BK
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27	04/04/2016 13:29 NELAC-NY10854,NJDEP	BK
95-63-6	**1,2,4-Trimethylbenzene**	**260**		mg/kg dry	11	22	5000	EPA 8260C Certifications:	04/04/2016 08:27	04/05/2016 21:47 CTDOH,NELAC-NY10854,NJDEP	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27	04/04/2016 13:29 CTDOH,NELAC-NY10854,NJDEP	BK
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27	04/04/2016 13:29 CTDOH,NELAC-NY10854,NJDEP	BK
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27	04/04/2016 13:29 CTDOH,NELAC-NY10854,NJDEP,PADEP	BK
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27	04/04/2016 13:29 CTDOH,NELAC-NY10854,NJDEP,PADEP	BK
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27	04/04/2016 13:29 CTDOH,NELAC-NY10854,NJDEP	BK
108-67-8	**1,3,5-Trimethylbenzene**	**92**		mg/kg dry	11	22	5000	EPA 8260C Certifications:	04/04/2016 08:27	04/05/2016 21:47 CTDOH,NELAC-NY10854,NJDEP	BK
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27	04/04/2016 13:29 CTDOH,NELAC-NY10854,NJDEP,PADEP	BK
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27	04/04/2016 13:29 CTDOH,NELAC-NY10854,NJDEP,PADEP	BK
123-91-1	1,4-Dioxane	ND		mg/kg dry	22	45	500	EPA 8260C Certifications:	04/04/2016 08:27	04/04/2016 13:29 NELAC-NY10854,NJDEP	BK
78-93-3	2-Butanone	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27	04/04/2016 13:29 CTDOH,NELAC-NY10854,NJDEP	BK
591-78-6	2-Hexanone	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27	04/04/2016 13:29 CTDOH,NELAC-NY10854,NJDEP	BK
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27	04/04/2016 13:29 CTDOH,NELAC-NY10854,NJDEP	BK
67-64-1	Acetone	ND		mg/kg dry	2.2	4.5	500	EPA 8260C Certifications:	04/04/2016 08:27	04/04/2016 13:29 CTDOH,NELAC-NY10854,NJDEP	BK
107-02-8	Acrolein	ND		mg/kg dry	2.2	4.5	500	EPA 8260C Certifications:	04/04/2016 08:27	04/04/2016 13:29 CTDOH,NELAC-NY10854,NJDEP	BK
107-13-1	Acrylonitrile	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27	04/04/2016 13:29 CTDOH,NELAC-NY10854,NJDEP	BK

Sample Information

Client Sample ID: SB-3(9-10') **York Sample ID:** 16C1186-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16C1186	41616.00 TASK0100 Avakin-Watervliet	Soil	March 29, 2016 2:30 pm	03/30/2016

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-43-2	Benzene	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/04/2016 13:29	BK
74-97-5	Bromochloromethane	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27 NELAC-NY10854,NJDEP	04/04/2016 13:29	BK
75-27-4	Bromodichloromethane	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/04/2016 13:29	BK
75-25-2	Bromoform	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/04/2016 13:29	BK
74-83-9	Bromomethane	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/04/2016 13:29	BK
75-15-0	Carbon disulfide	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27 CTDOH,NELAC-NY10854,NJDEP	04/04/2016 13:29	BK
56-23-5	Carbon tetrachloride	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/04/2016 13:29	BK
108-90-7	Chlorobenzene	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/04/2016 13:29	BK
75-00-3	Chloroethane	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/04/2016 13:29	BK
67-66-3	Chloroform	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/04/2016 13:29	BK
74-87-3	Chloromethane	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/04/2016 13:29	BK
156-59-2	**cis-1,2-Dichloroethylene**	**5.7**		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27 CTDOH,NELAC-NY10854,NJDEP	04/04/2016 13:29	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/04/2016 13:29	BK
110-82-7	Cyclohexane	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27 NELAC-NY10854,NJDEP	04/04/2016 13:29	BK
124-48-1	Dibromochloromethane	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27 NELAC-NY10854,NJDEP,PADEP	04/04/2016 13:29	BK
74-95-3	Dibromomethane	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27 NELAC-NY10854,NJDEP	04/04/2016 13:29	BK
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27 NELAC-NY10854,NJDEP	04/04/2016 13:29	BK
100-41-4	**Ethyl Benzene**	**13**		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27 CTDOH,NELAC-NY10854,NJDEP,PADEP	04/04/2016 13:29	BK
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27 NELAC-NY10854,NJDEP	04/04/2016 13:29	BK
98-82-8	**Isopropylbenzene**	**18**		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27 CTDOH,NELAC-NY10854,NJDEP	04/04/2016 13:29	BK
79-20-9	Methyl acetate	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27 NELAC-NY10854,NJDEP	04/04/2016 13:29	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27 CTDOH,NELAC-NY10854,NJDEP	04/04/2016 13:29	BK
108-87-2	Methylcyclohexane	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27 NELAC-NY10854,NJDEP	04/04/2016 13:29	BK

Sample Information

Client Sample ID: SB-3(9-10') **York Sample ID:** 16C1186-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16C1186	41616.00 TASK0100 Avakin-Watervliet	Soil	March 29, 2016 2:30 pm	03/30/2016

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

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		mg/kg dry	2.2	4.5	500	EPA 8260C Certifications:	04/04/2016 08:27	04/04/2016 13:29 CTDOH,NELAC-NY10854,NJDEP,PADEP	BK
104-51-8	n-Butylbenzene	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27	04/04/2016 13:29 CTDOH,NELAC-NY10854,NJDEP	BK
103-65-1	**n-Propylbenzene**	**53**		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27	04/04/2016 13:29 CTDOH,NELAC-NY10854,NJDEP	BK
95-47-6	**o-Xylene**	**14**		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27	04/04/2016 13:29 CTDOH,NELAC-NY10854	BK
179601-23-1	**p- & m- Xylenes**	**21**		mg/kg dry	2.2	4.5	500	EPA 8260C Certifications:	04/04/2016 08:27	04/04/2016 13:29 CTDOH,NELAC-NY10854	BK
99-87-6	**p-Isopropyltoluene**	**48**		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27	04/04/2016 13:29 CTDOH,NELAC-NY10854,NJDEP	BK
135-98-8	**sec-Butylbenzene**	**33**		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27	04/04/2016 13:29 CTDOH,NELAC-NY10854,NJDEP	BK
100-42-5	Styrene	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27	04/04/2016 13:29 CTDOH,NELAC-NY10854,NJDEP	BK
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	2.2	4.5	500	EPA 8260C Certifications:	04/04/2016 08:27	04/04/2016 13:29 NELAC-NY10854,NJDEP	BK
98-06-6	**tert-Butylbenzene**	**2.4**		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27	04/04/2016 13:29 CTDOH,NELAC-NY10854,NJDEP	BK
127-18-4	**Tetrachloroethylene**	**97**		mg/kg dry	11	22	5000	EPA 8260C Certifications:	04/04/2016 08:27	04/05/2016 21:47 CTDOH,NELAC-NY10854,NJDEP,PADEP	BK
108-88-3	Toluene	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27	04/04/2016 13:29 CTDOH,NELAC-NY10854,NJDEP,PADEP	BK
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27	04/04/2016 13:29 CTDOH,NELAC-NY10854,NJDEP	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27	04/04/2016 13:29 CTDOH,NELAC-NY10854,NJDEP,PADEP	BK
79-01-6	**Trichloroethylene**	**1.7**	J	mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27	04/04/2016 13:29 CTDOH,NELAC-NY10854,NJDEP,PADEP	BK
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27	04/04/2016 13:29 CTDOH,NELAC-NY10854,NJDEP,PADEP	BK
75-01-4	Vinyl Chloride	ND		mg/kg dry	1.1	2.2	500	EPA 8260C Certifications:	04/04/2016 08:27	04/04/2016 13:29 CTDOH,NELAC-NY10854,NJDEP,PADEP	BK
1330-20-7	**Xylenes, Total**	**35**		mg/kg dry	3.3	6.7	500	EPA 8260C Certifications:	04/04/2016 08:27	04/04/2016 13:29 CTDOH,NELAC-NY10854,NJDEP,PADEP	BK

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*99.4 %*	*77-125*
2037-26-5	*Surrogate: Toluene-d8*	*106 %*	*85-120*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*114 %*	*76-130*

Total Solids

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB-3(9-10')** **York Sample ID:** **16C1186-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16C1186	41616.00 TASK0100 Avakin-Watervliet	Soil	March 29, 2016 2:30 pm	03/30/2016

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**85.3**		%	0.100	0.100	1	SM 2540G	03/31/2016 12:03	03/31/2016 19:39	CLS
								Certifications: CTDOH			

Analytical Batch Summary

Batch ID: BC61643 **Preparation Method:** EPA 5030B **Prepared By:** BGS

YORK Sample ID	Client Sample ID	Preparation Date
16C1186-02	SB-1 : GW	03/31/16
BC61643-BLK1	Blank	03/31/16
BC61643-BS1	LCS	03/31/16
BC61643-BSD1	LCS Dup	03/31/16

Batch ID: BC61662 **Preparation Method:** % Solids Prep **Prepared By:** CLS

YORK Sample ID	Client Sample ID	Preparation Date
16C1186-01	SB-1(7-8')	03/31/16
16C1186-03	SB-3(9-10')	03/31/16

Batch ID: BD60025 **Preparation Method:** EPA 5035A **Prepared By:** BK

YORK Sample ID	Client Sample ID	Preparation Date
16C1186-01	SB-1(7-8')	04/01/16
BD60025-BLK1	Blank	04/01/16
BD60025-BS1	LCS	04/01/16
BD60025-BSD1	LCS Dup	04/01/16

Batch ID: BD60030 **Preparation Method:** EPA 5030B **Prepared By:** BGS

YORK Sample ID	Client Sample ID	Preparation Date
16C1186-02RE1	SB-1 : GW	04/01/16
BD60030-BLK1	Blank	04/01/16
BD60030-BS1	LCS	04/01/16
BD60030-BSD1	LCS Dup	04/01/16

Batch ID: BD60093 **Preparation Method:** EPA 5035A **Prepared By:** BGS

YORK Sample ID	Client Sample ID	Preparation Date
16C1186-01RE1	SB-1(7-8')	04/04/16
16C1186-03	SB-3(9-10')	04/04/16
BD60093-BLK1	Blank	04/04/16
BD60093-BLK2	Blank	04/04/16
BD60093-BS1	LCS	04/04/16
BD60093-BSD1	LCS Dup	04/04/16

Batch ID: BD60160 **Preparation Method:** EPA 5035A **Prepared By:** BGS

YORK Sample ID	Client Sample ID	Preparation Date
16C1186-03RE1	SB-3(9-10')	04/05/16
BD60160-BLK1	Blank	04/05/16

BD60160-BLK2	Blank	04/05/16
BD60160-BS1	LCS	04/05/16
BD60160-BSD1	LCS Dup	04/05/16

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 BC61643 - EPA 5030B

Blank (BC61643-BLK1) Prepared & Analyzed: 03/31/2016

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	40	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	1.5	2.0	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC61643 - EPA 5030B											
Blank (BC61643-BLK1)							Prepared & Analyzed: 03/31/2016				
n-Propylbenzene	ND	0.50	ug/L								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	1.0	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: 1,2-Dichloroethane-d4	*9.43*		*"*	*10.0*		*94.3*	*69-130*				
Surrogate: Toluene-d8	*9.28*		*"*	*10.0*		*92.8*	*81-117*				
Surrogate: p-Bromofluorobenzene	*10.2*		*"*	*10.0*		*102*	*79-122*				
LCS (BC61643-BS1)							Prepared & Analyzed: 03/31/2016				
1,1,1,2-Tetrachloroethane	10		ug/L	10.0		101	82-126				
1,1,1-Trichloroethane	11		"	10.0		108	78-136				
1,1,2,2-Tetrachloroethane	9.2		"	10.0		91.9	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11		"	10.0		112	54-165				
1,1,2-Trichloroethane	9.8		"	10.0		97.6	82-123				
1,1-Dichloroethane	11		"	10.0		108	82-129				
1,1-Dichloroethylene	11		"	10.0		107	68-138				
1,2,3-Trichlorobenzene	9.1		"	10.0		90.9	76-136				
1,2,3-Trichloropropane	9.2		"	10.0		92.4	77-128				
1,2,4-Trichlorobenzene	9.3		"	10.0		92.7	76-137				
1,2,4-Trimethylbenzene	10		"	10.0		101	82-132				
1,2-Dibromo-3-chloropropane	8.6		"	10.0		86.0	45-147				
1,2-Dibromoethane	9.8		"	10.0		98.4	83-124				
1,2-Dichlorobenzene	10		"	10.0		102	79-123				
1,2-Dichloroethane	11		"	10.0		108	73-132				
1,2-Dichloropropane	9.6		"	10.0		96.3	78-126				
1,3,5-Trimethylbenzene	10		"	10.0		101	80-131				
1,3-Dichlorobenzene	10		"	10.0		104	86-122				
1,4-Dichlorobenzene	10		"	10.0		104	85-124				
1,4-Dioxane	190		"	200		93.5	10-349				
2-Butanone	11		"	10.0		114	49-152				
2-Hexanone	9.5		"	10.0		94.9	51-146				
4-Methyl-2-pentanone	9.2		"	10.0		92.0	57-145				
Acetone	11		"	10.0		111	14-150				
Acrolein	16		"	10.0		163	10-153	High Bias			
Acrylonitrile	8.7		"	10.0		86.7	51-150				
Benzene	11		"	10.0		114	85-126				
Bromochloromethane	11		"	10.0		112	77-128				
Bromodichloromethane	9.3		"	10.0		92.8	79-128				
Bromoform	9.8		"	10.0		98.4	78-133				
Bromomethane	4.2		"	10.0		41.5	43-168	Low Bias			

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC61643 - EPA 5030B											
LCS (BC61643-BS1)								Prepared & Analyzed: 03/31/2016			
Carbon disulfide	10		ug/L	10.0		105	68-146				
Carbon tetrachloride	11		"	10.0		110	77-141				
Chlorobenzene	11		"	10.0		106	88-120				
Chloroethane	10		"	10.0		105	65-136				
Chloroform	11		"	10.0		107	82-128				
Chloromethane	6.2		"	10.0		62.2	43-155				
cis-1,2-Dichloroethylene	11		"	10.0		111	83-129				
cis-1,3-Dichloropropylene	10		"	10.0		101	80-131				
Cyclohexane	12		"	10.0		118	63-149				
Dibromochloromethane	9.8		"	10.0		97.5	80-130				
Dibromomethane	9.2		"	10.0		91.6	72-134				
Dichlorodifluoromethane	8.0		"	10.0		80.5	44-144				
Ethyl Benzene	10		"	10.0		103	80-131				
Hexachlorobutadiene	10		"	10.0		102	67-146				
Isopropylbenzene	11		"	10.0		108	76-140				
Methyl acetate	11		"	10.0		113	51-139				
Methyl tert-butyl ether (MTBE)	11		"	10.0		110	76-135				
Methylcyclohexane	10		"	10.0		104	72-143				
Methylene chloride	10		"	10.0		104	55-137				
n-Butylbenzene	9.8		"	10.0		98.4	79-132				
n-Propylbenzene	11		"	10.0		106	78-133				
o-Xylene	11		"	10.0		110	78-130				
p- & m- Xylenes	21		"	20.0		107	77-133				
p-Isopropyltoluene	10		"	10.0		100	81-136				
sec-Butylbenzene	11		"	10.0		108	79-137				
Styrene	9.9		"	10.0		99.0	67-132				
tert-Butyl alcohol (TBA)	11		"	10.0		106	25-162				
tert-Butylbenzene	11		"	10.0		107	77-138				
Tetrachloroethylene	10		"	10.0		100	82-131				
Toluene	9.5		"	10.0		94.6	80-127				
trans-1,2-Dichloroethylene	11		"	10.0		111	80-132				
trans-1,3-Dichloropropylene	9.9		"	10.0		98.9	78-131				
Trichloroethylene	9.9		"	10.0		98.8	82-128				
Trichlorofluoromethane	11		"	10.0		107	67-139				
Vinyl Chloride	10		"	10.0		104	58-145				
Surrogate: 1,2-Dichloroethane-d4	*9.11*		*"*	*10.0*		*91.1*	*69-130*				
Surrogate: Toluene-d8	*9.33*		*"*	*10.0*		*93.3*	*81-117*				
Surrogate: p-Bromofluorobenzene	*10.1*		*"*	*10.0*		*101*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC61643 - EPA 5030B											
LCS Dup (BC61643-BSD1)								Prepared & Analyzed: 03/31/2016			
1,1,1,2-Tetrachloroethane	10		ug/L	10.0		101	82-126		0.395	30	
1,1,1-Trichloroethane	11		"	10.0		109	78-136		0.739	30	
1,1,2,2-Tetrachloroethane	9.4		"	10.0		94.1	76-129		2.37	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11		"	10.0		114	54-165		1.86	30	
1,1,2-Trichloroethane	9.9		"	10.0		98.6	82-123		1.02	30	
1,1-Dichloroethane	11		"	10.0		110	82-129		1.01	30	
1,1-Dichloroethylene	11		"	10.0		106	68-138		1.03	30	
1,2,3-Trichlorobenzene	9.3		"	10.0		92.8	76-136		2.07	30	
1,2,3-Trichloropropane	9.3		"	10.0		93.3	77-128		0.969	30	
1,2,4-Trichlorobenzene	9.4		"	10.0		93.6	76-137		0.966	30	
1,2,4-Trimethylbenzene	9.9		"	10.0		99.3	82-132		1.40	30	
1,2-Dibromo-3-chloropropane	8.7		"	10.0		87.2	45-147		1.39	30	
1,2-Dibromoethane	10		"	10.0		100	83-124		1.61	30	
1,2-Dichlorobenzene	10		"	10.0		101	79-123		0.493	30	
1,2-Dichloroethane	11		"	10.0		109	73-132		0.832	30	
1,2-Dichloropropane	9.8		"	10.0		97.5	78-126		1.24	30	
1,3,5-Trimethylbenzene	10		"	10.0		99.8	80-131		1.59	30	
1,3-Dichlorobenzene	10		"	10.0		104	86-122		0.674	30	
1,4-Dichlorobenzene	10		"	10.0		103	85-124		1.16	30	
1,4-Dioxane	160		"	200		78.2	10-349		17.9	30	
2-Butanone	11		"	10.0		109	49-152		4.65	30	
2-Hexanone	9.4		"	10.0		94.1	51-146		0.847	30	
4-Methyl-2-pentanone	9.4		"	10.0		94.2	57-145		2.36	30	
Acetone	10		"	10.0		100	14-150		10.3	30	
Acrolein	17		"	10.0		168	10-153	High Bias	2.90	30	
Acrylonitrile	9.6		"	10.0		96.3	51-150		10.5	30	
Benzene	11		"	10.0		115	85-126		0.525	30	
Bromochloromethane	11		"	10.0		113	77-128		0.178	30	
Bromodichloromethane	9.4		"	10.0		93.5	79-128		0.751	30	
Bromoform	10		"	10.0		99.8	78-133		1.41	30	
Bromomethane	4.8		"	10.0		48.0	43-168		14.5	30	
Carbon disulfide	10		"	10.0		104	68-146		0.478	30	
Carbon tetrachloride	11		"	10.0		111	77-141		0.451	30	
Chlorobenzene	11		"	10.0		106	88-120		0.661	30	
Chloroethane	11		"	10.0		108	65-136		2.91	30	
Chloroform	11		"	10.0		109	82-128		1.57	30	
Chloromethane	6.2		"	10.0		62.3	43-155		0.161	30	
cis-1,2-Dichloroethylene	11		"	10.0		113	83-129		1.61	30	
cis-1,3-Dichloropropylene	10		"	10.0		102	80-131		0.197	30	
Cyclohexane	12		"	10.0		115	63-149		2.31	30	
Dibromochloromethane	10		"	10.0		99.5	80-130		2.03	30	
Dibromomethane	9.3		"	10.0		93.4	72-134		1.95	30	
Dichlorodifluoromethane	8.0		"	10.0		79.6	44-144		1.12	30	
Ethyl Benzene	10		"	10.0		103	80-131		0.486	30	
Hexachlorobutadiene	10		"	10.0		100	67-146		1.87	30	
Isopropylbenzene	11		"	10.0		107	76-140		1.12	30	
Methyl acetate	11		"	10.0		113	51-139		0.354	30	
Methyl tert-butyl ether (MTBE)	11		"	10.0		112	76-135		1.90	30	
Methylcyclohexane	10		"	10.0		104	72-143		0.0964	30	
Methylene chloride	10		"	10.0		105	55-137		0.862	30	
n-Butylbenzene	9.7		"	10.0		96.8	79-132		1.64	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

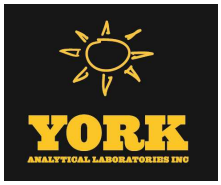
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC61643 - EPA 5030B											
LCS Dup (BC61643-BSD1)								Prepared & Analyzed: 03/31/2016			
n-Propylbenzene	11		ug/L	10.0		106	78-133		0.849	30	
o-Xylene	11		"	10.0		110	78-130		0.00	30	
p- & m- Xylenes	21		"	20.0		107	77-133		0.420	30	
p-Isopropyltoluene	9.8		"	10.0		98.4	81-136		1.91	30	
sec-Butylbenzene	11		"	10.0		106	79-137		1.41	30	
Styrene	10		"	10.0		99.8	67-132		0.805	30	
tert-Butyl alcohol (TBA)	11		"	10.0		108	25-162		2.24	30	
tert-Butylbenzene	11		"	10.0		106	77-138		1.03	30	
Tetrachloroethylene	9.8		"	10.0		98.2	82-131		1.82	30	
Toluene	9.5		"	10.0		94.6	80-127		0.00	30	
trans-1,2-Dichloroethylene	11		"	10.0		111	80-132		0.451	30	
trans-1,3-Dichloropropylene	9.9		"	10.0		99.4	78-131		0.504	30	
Trichloroethylene	9.8		"	10.0		98.4	82-128		0.406	30	
Trichlorofluoromethane	11		"	10.0		107	67-139		0.0937	30	
Vinyl Chloride	10		"	10.0		103	58-145		1.36	30	
Surrogate: 1,2-Dichloroethane-d4	*9.22*		*"*	*10.0*		*92.2*	*69-130*				
Surrogate: Toluene-d8	*9.29*		*"*	*10.0*		*92.9*	*81-117*				
Surrogate: p-Bromofluorobenzene	*10.0*		*"*	*10.0*		*100*	*79-122*				
Batch BD60025 - EPA 5035A											
Blank (BD60025-BLK1)								Prepared & Analyzed: 04/01/2016			
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								

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 BD60025 - EPA 5035A											
Blank (BD60025-BLK1)											
Prepared & Analyzed: 04/01/2016											
Bromomethane	ND	0.0050	mg/kg wet								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.010	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Surrogate: 1,2-Dichloroethane-d4	*47.9*		*ug/L*	*50.0*		*95.7*	*77-125*				
Surrogate: Toluene-d8	*49.1*		*"*	*50.0*		*98.2*	*85-120*				
Surrogate: p-Bromofluorobenzene	*47.5*		*"*	*50.0*		*95.0*	*76-130*				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD60025 - EPA 5035A											
LCS (BD60025-BS1)								Prepared & Analyzed: 04/01/2016			
1,1,1,2-Tetrachloroethane	55		ug/L	50.0		110	75-129				
1,1,1-Trichloroethane	58		"	50.0		116	71-137				
1,1,2,2-Tetrachloroethane	56		"	50.0		112	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	55		"	50.0		110	58-146				
1,1,2-Trichloroethane	51		"	50.0		102	83-123				
1,1-Dichloroethane	55		"	50.0		110	75-130				
1,1-Dichloroethylene	54		"	50.0		108	64-137				
1,2,3-Trichlorobenzene	60		"	50.0		120	81-140				
1,2,3-Trichloropropane	55		"	50.0		110	81-126				
1,2,4-Trichlorobenzene	62		"	50.0		123	80-141				
1,2,4-Trimethylbenzene	55		"	50.0		110	84-125				
1,2-Dibromo-3-chloropropane	55		"	50.0		109	74-142				
1,2-Dibromoethane	55		"	50.0		110	86-123				
1,2-Dichlorobenzene	58		"	50.0		117	85-122				
1,2-Dichloroethane	54		"	50.0		108	71-133				
1,2-Dichloropropane	52		"	50.0		103	81-122				
1,3,5-Trimethylbenzene	56		"	50.0		112	82-126				
1,3-Dichlorobenzene	59		"	50.0		118	84-124				
1,4-Dichlorobenzene	57		"	50.0		115	84-124				
1,4-Dioxane	1100		"	1000		110	10-228				
2-Butanone	60		"	50.0		119	58-147				
2-Hexanone	53		"	50.0		107	70-139				
4-Methyl-2-pentanone	48		"	50.0		95.9	72-132				
Acetone	66		"	50.0		131	36-155				
Acrolein	72		"	50.0		144	10-238				
Acrylonitrile	55		"	50.0		110	66-141				
Benzene	54		"	50.0		108	77-127				
Bromochloromethane	51		"	50.0		101	74-129				
Bromodichloromethane	54		"	50.0		107	81-124				
Bromoform	57		"	50.0		113	80-136				
Bromomethane	53		"	50.0		106	32-177				
Carbon disulfide	51		"	50.0		102	10-136				
Carbon tetrachloride	56		"	50.0		112	66-143				
Chlorobenzene	55		"	50.0		110	86-120				
Chloroethane	54		"	50.0		108	51-142				
Chloroform	55		"	50.0		110	76-131				
Chloromethane	52		"	50.0		103	49-132				
cis-1,2-Dichloroethylene	53		"	50.0		106	74-132				
cis-1,3-Dichloropropylene	55		"	50.0		110	81-129				
Cyclohexane	50		"	50.0		101	70-130				
Dibromochloromethane	54		"	50.0		108	10-200				
Dibromomethane	54		"	50.0		107	83-124				
Dichlorodifluoromethane	62		"	50.0		124	28-158				
Ethyl Benzene	52		"	50.0		104	84-125				
Hexachlorobutadiene	60		"	50.0		121	83-133				
Isopropylbenzene	58		"	50.0		116	81-127				
Methyl acetate	50		"	50.0		101	41-143				
Methyl tert-butyl ether (MTBE)	54		"	50.0		109	74-131				
Methylcyclohexane	53		"	50.0		106	70-130				
Methylene chloride	47		"	50.0		93.1	57-141				
n-Butylbenzene	54		"	50.0		109	80-130				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD60025 - EPA 5035A											
LCS (BD60025-BS1)								Prepared & Analyzed: 04/01/2016			
n-Propylbenzene	57		ug/L	50.0		113	74-136				
o-Xylene	52		"	50.0		104	83-123				
p- & m- Xylenes	100		"	100		104	82-128				
p-Isopropyltoluene	56		"	50.0		111	85-125				
sec-Butylbenzene	57		"	50.0		113	83-125				
Styrene	54		"	50.0		109	86-126				
tert-Butyl alcohol (TBA)	53		"	50.0		105	70-130				
tert-Butylbenzene	60		"	50.0		120	80-127				
Tetrachloroethylene	53		"	50.0		106	80-129				
Toluene	53		"	50.0		107	85-121				
trans-1,2-Dichloroethylene	54		"	50.0		108	72-132				
trans-1,3-Dichloropropylene	54		"	50.0		108	78-132				
Trichloroethylene	55		"	50.0		109	84-123				
Trichlorofluoromethane	55		"	50.0		110	62-140				
Vinyl Chloride	54		"	50.0		108	52-130				
Surrogate: 1,2-Dichloroethane-d4	*49.3*		*"*	*50.0*		*98.5*	*77-125*				
Surrogate: Toluene-d8	*47.3*		*"*	*50.0*		*94.7*	*85-120*				
Surrogate: p-Bromofluorobenzene	*54.2*		*"*	*50.0*		*108*	*76-130*				
LCS Dup (BD60025-BSD1)								Prepared & Analyzed: 04/01/2016			
1,1,1,2-Tetrachloroethane	56		ug/L	50.0		112	75-129		2.00	30	
1,1,1-Trichloroethane	56		"	50.0		112	71-137		3.54	30	
1,1,2,2-Tetrachloroethane	54		"	50.0		109	79-129		2.61	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	54		"	50.0		108	58-146		1.36	30	
1,1,2-Trichloroethane	52		"	50.0		103	83-123		1.07	30	
1,1-Dichloroethane	54		"	50.0		107	75-130		2.95	30	
1,1-Dichloroethylene	54		"	50.0		109	64-137		0.795	30	
1,2,3-Trichlorobenzene	59		"	50.0		118	81-140		0.907	30	
1,2,3-Trichloropropane	55		"	50.0		109	81-126		0.603	30	
1,2,4-Trichlorobenzene	60		"	50.0		121	80-141		2.00	30	
1,2,4-Trimethylbenzene	54		"	50.0		109	84-125		1.17	30	
1,2-Dibromo-3-chloropropane	52		"	50.0		103	74-142		5.75	30	
1,2-Dibromoethane	53		"	50.0		107	86-123		2.98	30	
1,2-Dichlorobenzene	56		"	50.0		113	85-122		3.47	30	
1,2-Dichloroethane	53		"	50.0		107	71-133		0.615	30	
1,2-Dichloropropane	53		"	50.0		106	81-122		2.34	30	
1,3,5-Trimethylbenzene	54		"	50.0		108	82-126		3.41	30	
1,3-Dichlorobenzene	58		"	50.0		115	84-124		2.18	30	
1,4-Dichlorobenzene	56		"	50.0		112	84-124		2.74	30	
1,4-Dioxane	1000		"	1000		104	10-228		6.14	30	
2-Butanone	56		"	50.0		111	58-147		6.96	30	
2-Hexanone	50		"	50.0		101	70-139		5.86	30	
4-Methyl-2-pentanone	45		"	50.0		89.4	72-132		7.04	30	
Acetone	66		"	50.0		133	36-155		1.17	30	
Acrolein	68		"	50.0		135	10-238		6.24	30	
Acrylonitrile	52		"	50.0		104	66-141		5.59	30	
Benzene	53		"	50.0		106	77-127		2.11	30	
Bromochloromethane	49		"	50.0		97.7	74-129		3.68	30	
Bromodichloromethane	53		"	50.0		105	81-124		1.73	30	
Bromoform	56		"	50.0		112	80-136		0.709	30	
Bromomethane	52		"	50.0		104	32-177		2.04	30	
Carbon disulfide	51		"	50.0		101	10-136		0.690	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD60025 - EPA 5035A											
LCS Dup (BD60025-BSD1)								Prepared & Analyzed: 04/01/2016			
Carbon tetrachloride	56		ug/L	50.0		112	66-143		0.500	30	
Chlorobenzene	56		"	50.0		111	86-120		0.850	30	
Chloroethane	57		"	50.0		115	51-142		5.49	30	
Chloroform	54		"	50.0		108	76-131		2.12	30	
Chloromethane	54		"	50.0		108	49-132		4.09	30	
cis-1,2-Dichloroethylene	54		"	50.0		109	74-132		3.21	30	
cis-1,3-Dichloropropylene	55		"	50.0		110	81-129		0.436	30	
Cyclohexane	50		"	50.0		101	70-130		0.0198	30	
Dibromochloromethane	55		"	50.0		110	10-200		1.59	30	
Dibromomethane	54		"	50.0		108	83-124		0.446	30	
Dichlorodifluoromethane	63		"	50.0		125	28-158		1.43	30	
Ethyl Benzene	52		"	50.0		104	84-125		0.115	30	
Hexachlorobutadiene	61		"	50.0		122	83-133		0.891	30	
Isopropylbenzene	55		"	50.0		110	81-127		4.97	30	
Methyl acetate	47		"	50.0		94.1	41-143		6.80	30	
Methyl tert-butyl ether (MTBE)	53		"	50.0		106	74-131		2.40	30	
Methylcyclohexane	52		"	50.0		105	70-130		1.57	30	
Methylene chloride	47		"	50.0		94.2	57-141		1.17	30	
n-Butylbenzene	54		"	50.0		107	80-130		1.42	30	
n-Propylbenzene	54		"	50.0		109	74-136		4.10	30	
o-Xylene	53		"	50.0		106	83-123		1.81	30	
p- & m- Xylenes	100		"	100		104	82-128		0.145	30	
p-Isopropyltoluene	55		"	50.0		111	85-125		0.360	30	
sec-Butylbenzene	56		"	50.0		111	83-125		1.76	30	
Styrene	54		"	50.0		108	86-126		0.350	30	
tert-Butyl alcohol (TBA)	47		"	50.0		93.6	70-130		11.5	30	
tert-Butylbenzene	59		"	50.0		118	80-127		1.56	30	
Tetrachloroethylene	52		"	50.0		105	80-129		0.987	30	
Toluene	54		"	50.0		107	85-121		0.711	30	
trans-1,2-Dichloroethylene	53		"	50.0		107	72-132		1.34	30	
trans-1,3-Dichloropropylene	54		"	50.0		108	78-132		0.242	30	
Trichloroethylene	53		"	50.0		106	84-123		2.52	30	
Trichlorofluoromethane	56		"	50.0		112	62-140		1.41	30	
Vinyl Chloride	54		"	50.0		109	52-130		0.498	30	
Surrogate: 1,2-Dichloroethane-d4	*48.0*		*"*	*50.0*		*96.0*	*77-125*				
Surrogate: Toluene-d8	*48.1*		*"*	*50.0*		*96.1*	*85-120*				
Surrogate: p-Bromofluorobenzene	*52.7*		*"*	*50.0*		*105*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD60030 - EPA 5030B											
Blank (BD60030-BLK1)											
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	40	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	1.0	2.0	"								
Acrolein	ND	2.0	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								

Prepared & Analyzed: 04/01/2016

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 BD60030 - EPA 5030B											
Blank (BD60030-BLK1)								Prepared & Analyzed: 04/01/2016			
n-Propylbenzene	ND	0.50	ug/L								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	2.0	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: 1,2-Dichloroethane-d4	*9.45*		*"*	*10.0*		*94.5*	*69-130*				
Surrogate: Toluene-d8	*9.11*		*"*	*10.0*		*91.1*	*81-117*				
Surrogate: p-Bromofluorobenzene	*10.2*		*"*	*10.0*		*102*	*79-122*				
LCS (BD60030-BS1)								Prepared & Analyzed: 04/01/2016			
1,1,1,2-Tetrachloroethane	10		ug/L	10.0		99.6	82-126				
1,1,1-Trichloroethane	11		"	10.0		115	78-136				
1,1,2,2-Tetrachloroethane	9.2		"	10.0		92.0	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12		"	10.0		121	54-165				
1,1,2-Trichloroethane	9.7		"	10.0		97.3	82-123				
1,1-Dichloroethane	11		"	10.0		114	82-129				
1,1-Dichloroethylene	12		"	10.0		117	68-138				
1,2,3-Trichlorobenzene	8.5		"	10.0		85.2	76-136				
1,2,3-Trichloropropane	9.1		"	10.0		91.1	77-128				
1,2,4-Trichlorobenzene	9.0		"	10.0		89.6	76-137				
1,2,4-Trimethylbenzene	9.7		"	10.0		97.4	82-132				
1,2-Dibromo-3-chloropropane	8.4		"	10.0		83.6	45-147				
1,2-Dibromoethane	9.8		"	10.0		97.6	83-124				
1,2-Dichlorobenzene	9.9		"	10.0		99.3	79-123				
1,2-Dichloroethane	11		"	10.0		109	73-132				
1,2-Dichloropropane	9.8		"	10.0		98.1	78-126				
1,3,5-Trimethylbenzene	10		"	10.0		99.9	80-131				
1,3-Dichlorobenzene	10		"	10.0		102	86-122				
1,4-Dichlorobenzene	10		"	10.0		101	85-124				
1,4-Dioxane	150		"	200		77.2	10-349				
2-Butanone	11		"	10.0		109	49-152				
2-Hexanone	9.4		"	10.0		93.7	51-146				
4-Methyl-2-pentanone	8.8		"	10.0		88.4	57-145				
Acetone	9.9		"	10.0		99.3	14-150				
Acrolein	13		"	10.0		128	10-153				
Acrylonitrile	11		"	10.0		115	51-150				
Benzene	12		"	10.0		118	85-126				
Bromochloromethane	12		"	10.0		116	77-128				
Bromodichloromethane	9.3		"	10.0		92.9	79-128				
Bromoform	9.8		"	10.0		98.3	78-133				
Bromomethane	5.2		"	10.0		51.9	43-168				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD60030 - EPA 5030B											
LCS (BD60030-BS1)								Prepared & Analyzed: 04/01/2016			
Carbon disulfide	12		ug/L	10.0		117	68-146				
Carbon tetrachloride	12		"	10.0		117	77-141				
Chlorobenzene	10		"	10.0		105	88-120				
Chloroethane	12		"	10.0		123	65-136				
Chloroform	11		"	10.0		112	82-128				
Chloromethane	8.4		"	10.0		84.4	43-155				
cis-1,2-Dichloroethylene	12		"	10.0		117	83-129				
cis-1,3-Dichloropropylene	10		"	10.0		102	80-131				
Cyclohexane	12		"	10.0		125	63-149				
Dibromochloromethane	9.8		"	10.0		97.7	80-130				
Dibromomethane	9.2		"	10.0		92.3	72-134				
Dichlorodifluoromethane	15		"	10.0		150	44-144	High Bias			
Ethyl Benzene	10		"	10.0		104	80-131				
Hexachlorobutadiene	9.7		"	10.0		96.7	67-146				
Isopropylbenzene	11		"	10.0		107	76-140				
Methyl acetate	11		"	10.0		111	51-139				
Methyl tert-butyl ether (MTBE)	11		"	10.0		112	76-135				
Methylcyclohexane	11		"	10.0		107	72-143				
Methylene chloride	11		"	10.0		109	55-137				
n-Butylbenzene	9.6		"	10.0		96.1	79-132				
n-Propylbenzene	11		"	10.0		106	78-133				
o-Xylene	11		"	10.0		110	78-130				
p- & m- Xylenes	22		"	20.0		108	77-133				
p-Isopropyltoluene	9.7		"	10.0		97.3	81-136				
sec-Butylbenzene	11		"	10.0		107	79-137				
Styrene	9.8		"	10.0		98.2	67-132				
tert-Butyl alcohol (TBA)	10		"	10.0		104	25-162				
tert-Butylbenzene	11		"	10.0		105	77-138				
Tetrachloroethylene	10		"	10.0		101	82-131				
Toluene	9.6		"	10.0		95.6	80-127				
trans-1,2-Dichloroethylene	12		"	10.0		118	80-132				
trans-1,3-Dichloropropylene	9.9		"	10.0		98.6	78-131				
Trichloroethylene	10		"	10.0		101	82-128				
Trichlorofluoromethane	12		"	10.0		125	67-139				
Vinyl Chloride	13		"	10.0		130	58-145				
Surrogate: 1,2-Dichloroethane-d4	*9.20*		*"*	*10.0*		*92.0*	*69-130*				
Surrogate: Toluene-d8	*9.25*		*"*	*10.0*		*92.5*	*81-117*				
Surrogate: p-Bromofluorobenzene	*10.1*		*"*	*10.0*		*101*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD60030 - EPA 5030B											
LCS Dup (BD60030-BSD1)								Prepared & Analyzed: 04/01/2016			
1,1,1,2-Tetrachloroethane	10		ug/L	10.0		104	82-126		4.42	30	
1,1,1-Trichloroethane	12		"	10.0		115	78-136		0.434	30	
1,1,2,2-Tetrachloroethane	9.5		"	10.0		94.6	76-129		2.79	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12		"	10.0		120	54-165		0.581	30	
1,1,2-Trichloroethane	10		"	10.0		100	82-123		3.14	30	
1,1-Dichloroethane	12		"	10.0		116	82-129		1.74	30	
1,1-Dichloroethylene	12		"	10.0		117	68-138		0.0852	30	
1,2,3-Trichlorobenzene	9.2		"	10.0		91.8	76-136		7.46	30	
1,2,3-Trichloropropane	9.6		"	10.0		96.5	77-128		5.76	30	
1,2,4-Trichlorobenzene	9.4		"	10.0		94.2	76-137		5.01	30	
1,2,4-Trimethylbenzene	10		"	10.0		99.6	82-132		2.23	30	
1,2-Dibromo-3-chloropropane	8.9		"	10.0		89.0	45-147		6.26	30	
1,2-Dibromoethane	10		"	10.0		101	83-124		3.32	30	
1,2-Dichlorobenzene	10		"	10.0		102	79-123		2.78	30	
1,2-Dichloroethane	11		"	10.0		114	73-132		4.21	30	
1,2-Dichloropropane	10		"	10.0		101	78-126		2.71	30	
1,3,5-Trimethylbenzene	10		"	10.0		101	80-131		0.798	30	
1,3-Dichlorobenzene	10		"	10.0		105	86-122		2.42	30	
1,4-Dichlorobenzene	10		"	10.0		105	85-124		3.21	30	
1,4-Dioxane	170		"	200		85.5	10-349		10.2	30	
2-Butanone	12		"	10.0		123	49-152		12.3	30	
2-Hexanone	10		"	10.0		101	51-146		7.10	30	
4-Methyl-2-pentanone	9.4		"	10.0		94.5	57-145		6.67	30	
Acetone	11		"	10.0		112	14-150		12.0	30	
Acrolein	12		"	10.0		125	10-153		2.84	30	
Acrylonitrile	9.7		"	10.0		96.6	51-150		17.3	30	
Benzene	12		"	10.0		120	85-126		1.76	30	
Bromochloromethane	12		"	10.0		119	77-128		2.38	30	
Bromodichloromethane	9.6		"	10.0		95.8	79-128		3.07	30	
Bromoform	10		"	10.0		99.8	78-133		1.51	30	
Bromomethane	5.8		"	10.0		58.4	43-168		11.8	30	
Carbon disulfide	12		"	10.0		116	68-146		0.946	30	
Carbon tetrachloride	12		"	10.0		118	77-141		1.27	30	
Chlorobenzene	11		"	10.0		108	88-120		3.29	30	
Chloroethane	12		"	10.0		123	65-136		0.406	30	
Chloroform	11		"	10.0		115	82-128		2.03	30	
Chloromethane	9.1		"	10.0		91.4	43-155		7.96	30	
cis-1,2-Dichloroethylene	12		"	10.0		120	83-129		2.46	30	
cis-1,3-Dichloropropylene	10		"	10.0		105	80-131		3.00	30	
Cyclohexane	12		"	10.0		124	63-149		0.321	30	
Dibromochloromethane	10		"	10.0		102	80-130		4.21	30	
Dibromomethane	9.7		"	10.0		96.9	72-134		4.86	30	
Dichlorodifluoromethane	15		"	10.0		145	44-144	High Bias	2.91	30	
Ethyl Benzene	11		"	10.0		105	80-131		1.43	30	
Hexachlorobutadiene	10		"	10.0		99.5	67-146		2.85	30	
Isopropylbenzene	11		"	10.0		109	76-140		1.30	30	
Methyl acetate	12		"	10.0		120	51-139		7.71	30	
Methyl tert-butyl ether (MTBE)	12		"	10.0		117	76-135		4.19	30	
Methylcyclohexane	11		"	10.0		106	72-143		1.50	30	
Methylene chloride	11		"	10.0		112	55-137		2.53	30	
n-Butylbenzene	9.7		"	10.0		97.0	79-132		0.932	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD60030 - EPA 5030B											
LCS Dup (BD60030-BSD1)								Prepared & Analyzed: 04/01/2016			
n-Propylbenzene	11		ug/L	10.0		107	78-133		0.658	30	
o-Xylene	11		"	10.0		112	78-130		2.08	30	
p- & m- Xylenes	22		"	20.0		110	77-133		2.15	30	
p-Isopropyltoluene	9.9		"	10.0		99.1	81-136		1.83	30	
sec-Butylbenzene	11		"	10.0		107	79-137		0.374	30	
Styrene	10		"	10.0		102	67-132		3.30	30	
tert-Butyl alcohol (TBA)	10		"	10.0		104	25-162		0.673	30	
tert-Butylbenzene	11		"	10.0		106	77-138		1.04	30	
Tetrachloroethylene	10		"	10.0		102	82-131		0.591	30	
Toluene	9.7		"	10.0		97.0	80-127		1.45	30	
trans-1,2-Dichloroethylene	12		"	10.0		119	80-132		1.01	30	
trans-1,3-Dichloropropylene	10		"	10.0		102	78-131		3.78	30	
Trichloroethylene	10		"	10.0		102	82-128		0.692	30	
Trichlorofluoromethane	12		"	10.0		123	67-139		1.78	30	
Vinyl Chloride	13		"	10.0		130	58-145		0.230	30	
Surrogate: 1,2-Dichloroethane-d4	*9.17*		*"*	*10.0*		*91.7*	*69-130*				
Surrogate: Toluene-d8	*9.23*		*"*	*10.0*		*92.3*	*81-117*				
Surrogate: p-Bromofluorobenzene	*10.1*		*"*	*10.0*		*101*	*79-122*				
Batch BD60093 - EPA 5035A											
Blank (BD60093-BLK1)								Prepared & Analyzed: 04/04/2016			
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								

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 BD60093 - EPA 5035A											
Blank (BD60093-BLK1)											Prepared & Analyzed: 04/04/2016
Bromomethane	ND	0.0050	mg/kg wet								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.010	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Surrogate: 1,2-Dichloroethane-d4	*51.9*		*ug/L*	*50.0*		*104*	*77-125*				
Surrogate: Toluene-d8	*48.1*		*"*	*50.0*		*96.2*	*85-120*				
Surrogate: p-Bromofluorobenzene	*48.1*		*"*	*50.0*		*96.2*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD60093 - EPA 5035A											
Blank (BD60093-BLK2)											
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								

Prepared & Analyzed: 04/04/2016

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 BD60093 - EPA 5035A											
Blank (BD60093-BLK2)								Prepared & Analyzed: 04/04/2016			
n-Propylbenzene	ND	0.0050	mg/kg wet								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.010	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Surrogate: 1,2-Dichloroethane-d4	*52.8*		*ug/L*	*50.0*		*106*	*77-125*				
Surrogate: Toluene-d8	*48.6*		*"*	*50.0*		*97.2*	*85-120*				
Surrogate: p-Bromofluorobenzene	*46.7*		*"*	*50.0*		*93.4*	*76-130*				
LCS (BD60093-BS1)								Prepared & Analyzed: 04/04/2016			
1,1,1,2-Tetrachloroethane	59		ug/L	50.0		117	75-129				
1,1,1-Trichloroethane	61		"	50.0		121	71-137				
1,1,2,2-Tetrachloroethane	55		"	50.0		110	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	54		"	50.0		109	58-146				
1,1,2-Trichloroethane	50		"	50.0		99.7	83-123				
1,1-Dichloroethane	57		"	50.0		114	75-130				
1,1-Dichloroethylene	56		"	50.0		112	64-137				
1,2,3-Trichlorobenzene	55		"	50.0		111	81-140				
1,2,3-Trichloropropane	53		"	50.0		105	81-126				
1,2,4-Trichlorobenzene	59		"	50.0		119	80-141				
1,2,4-Trimethylbenzene	57		"	50.0		113	84-125				
1,2-Dibromo-3-chloropropane	52		"	50.0		103	74-142				
1,2-Dibromoethane	54		"	50.0		108	86-123				
1,2-Dichlorobenzene	57		"	50.0		114	85-122				
1,2-Dichloroethane	57		"	50.0		114	71-133				
1,2-Dichloropropane	52		"	50.0		104	81-122				
1,3,5-Trimethylbenzene	57		"	50.0		114	82-126				
1,3-Dichlorobenzene	59		"	50.0		118	84-124				
1,4-Dichlorobenzene	58		"	50.0		117	84-124				
1,4-Dioxane	990		"	1000		98.8	10-228				
2-Butanone	70		"	50.0		139	58-147				
2-Hexanone	56		"	50.0		113	70-139				
4-Methyl-2-pentanone	44		"	50.0		88.2	72-132				
Acetone	94		"	50.0		187	36-155	High Bias			
Acrolein	67		"	50.0		134	10-238				
Acrylonitrile	51		"	50.0		103	66-141				
Benzene	56		"	50.0		112	77-127				
Bromochloromethane	52		"	50.0		104	74-129				
Bromodichloromethane	56		"	50.0		112	81-124				
Bromoform	59		"	50.0		117	80-136				
Bromomethane	54		"	50.0		107	32-177				

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 BD60093 - EPA 5035A											
LCS (BD60093-BS1)								Prepared & Analyzed: 04/04/2016			
Carbon disulfide	51		ug/L	50.0		103	10-136				
Carbon tetrachloride	60		"	50.0		121	66-143				
Chlorobenzene	56		"	50.0		112	86-120				
Chloroethane	56		"	50.0		112	51-142				
Chloroform	57		"	50.0		114	76-131				
Chloromethane	51		"	50.0		102	49-132				
cis-1,2-Dichloroethylene	57		"	50.0		114	74-132				
cis-1,3-Dichloropropylene	55		"	50.0		110	81-129				
Cyclohexane	51		"	50.0		103	70-130				
Dibromochloromethane	55		"	50.0		110	10-200				
Dibromomethane	53		"	50.0		106	83-124				
Dichlorodifluoromethane	60		"	50.0		119	28-158				
Ethyl Benzene	53		"	50.0		107	84-125				
Hexachlorobutadiene	62		"	50.0		123	83-133				
Isopropylbenzene	58		"	50.0		115	81-127				
Methyl acetate	47		"	50.0		93.0	41-143				
Methyl tert-butyl ether (MTBE)	55		"	50.0		110	74-131				
Methylcyclohexane	54		"	50.0		108	70-130				
Methylene chloride	45		"	50.0		90.6	57-141				
n-Butylbenzene	55		"	50.0		111	80-130				
n-Propylbenzene	56		"	50.0		111	74-136				
o-Xylene	54		"	50.0		107	83-123				
p- & m- Xylenes	110		"	100		106	82-128				
p-Isopropyltoluene	56		"	50.0		111	85-125				
sec-Butylbenzene	58		"	50.0		116	83-125				
Styrene	55		"	50.0		110	86-126				
tert-Butyl alcohol (TBA)	49		"	50.0		98.3	70-130				
tert-Butylbenzene	54		"	50.0		107	80-127				
Tetrachloroethylene	59		"	50.0		118	80-129				
Toluene	53		"	50.0		106	85-121				
trans-1,2-Dichloroethylene	56		"	50.0		112	72-132				
trans-1,3-Dichloropropylene	56		"	50.0		111	78-132				
Trichloroethylene	57		"	50.0		115	84-123				
Trichlorofluoromethane	61		"	50.0		122	62-140				
Vinyl Chloride	53		"	50.0		105	52-130				
Surrogate: 1,2-Dichloroethane-d4	*52.3*		*"*	*50.0*		*105*	*77-125*				
Surrogate: Toluene-d8	*47.8*		*"*	*50.0*		*95.6*	*85-120*				
Surrogate: p-Bromofluorobenzene	*52.6*		*"*	*50.0*		*105*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD60093 - EPA 5035A											
LCS Dup (BD60093-BSD1)							Prepared & Analyzed: 04/04/2016				
1,1,1,2-Tetrachloroethane	55		ug/L	50.0		110	75-129		6.51	30	
1,1,1-Trichloroethane	57		"	50.0		115	71-137		5.82	30	
1,1,2,2-Tetrachloroethane	51		"	50.0		102	79-129		8.42	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	54		"	50.0		108	58-146		0.627	30	
1,1,2-Trichloroethane	50		"	50.0		99.1	83-123		0.624	30	
1,1-Dichloroethane	54		"	50.0		109	75-130		4.35	30	
1,1-Dichloroethylene	52		"	50.0		104	64-137		7.90	30	
1,2,3-Trichlorobenzene	58		"	50.0		117	81-140		5.10	30	
1,2,3-Trichloropropane	51		"	50.0		101	81-126		3.91	30	
1,2,4-Trichlorobenzene	61		"	50.0		122	80-141		2.59	30	
1,2,4-Trimethylbenzene	54		"	50.0		107	84-125		5.64	30	
1,2-Dibromo-3-chloropropane	47		"	50.0		94.0	74-142		9.51	30	
1,2-Dibromoethane	54		"	50.0		108	86-123		0.648	30	
1,2-Dichlorobenzene	55		"	50.0		109	85-122		4.36	30	
1,2-Dichloroethane	56		"	50.0		112	71-133		2.11	30	
1,2-Dichloropropane	53		"	50.0		105	81-122		0.725	30	
1,3,5-Trimethylbenzene	53		"	50.0		106	82-126		7.56	30	
1,3-Dichlorobenzene	55		"	50.0		111	84-124		6.56	30	
1,4-Dichlorobenzene	55		"	50.0		109	84-124		6.83	30	
1,4-Dioxane	970		"	1000		97.2	10-228		1.61	30	
2-Butanone	49		"	50.0		97.3	58-147		35.3	30	Non-dir.
2-Hexanone	44		"	50.0		88.1	70-139		24.6	30	
4-Methyl-2-pentanone	42		"	50.0		83.9	72-132		5.09	30	
Acetone	48		"	50.0		96.6	36-155		63.8	30	Non-dir.
Acrolein	69		"	50.0		137	10-238		2.80	30	
Acrylonitrile	50		"	50.0		99.1	66-141		3.47	30	
Benzene	53		"	50.0		106	77-127		5.26	30	
Bromochloromethane	48		"	50.0		96.3	74-129		7.82	30	
Bromodichloromethane	54		"	50.0		109	81-124		2.74	30	
Bromoform	56		"	50.0		112	80-136		4.27	30	
Bromomethane	52		"	50.0		103	32-177		3.79	30	
Carbon disulfide	49		"	50.0		97.7	10-136		4.97	30	
Carbon tetrachloride	57		"	50.0		114	66-143		6.28	30	
Chlorobenzene	55		"	50.0		110	86-120		1.89	30	
Chloroethane	53		"	50.0		107	51-142		4.41	30	
Chloroform	54		"	50.0		109	76-131		4.82	30	
Chloromethane	48		"	50.0		95.3	49-132		6.34	30	
cis-1,2-Dichloroethylene	54		"	50.0		108	74-132		5.14	30	
cis-1,3-Dichloropropylene	52		"	50.0		105	81-129		5.17	30	
Cyclohexane	49		"	50.0		97.9	70-130		5.00	30	
Dibromochloromethane	55		"	50.0		110	10-200		0.800	30	
Dibromomethane	51		"	50.0		102	83-124		3.63	30	
Dichlorodifluoromethane	55		"	50.0		110	28-158		8.45	30	
Ethyl Benzene	51		"	50.0		103	84-125		3.94	30	
Hexachlorobutadiene	58		"	50.0		116	83-133		6.47	30	
Isopropylbenzene	55		"	50.0		109	81-127		5.15	30	
Methyl acetate	44		"	50.0		88.1	41-143		5.41	30	
Methyl tert-butyl ether (MTBE)	53		"	50.0		106	74-131		3.39	30	
Methylcyclohexane	51		"	50.0		101	70-130		6.60	30	
Methylene chloride	48		"	50.0		95.9	57-141		5.66	30	
n-Butylbenzene	53		"	50.0		105	80-130		5.32	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD60093 - EPA 5035A											
LCS Dup (BD60093-BSD1)								Prepared & Analyzed: 04/04/2016			
n-Propylbenzene	52		ug/L	50.0		104	74-136		6.81	30	
o-Xylene	53		"	50.0		105	83-123		1.88	30	
p- & m- Xylenes	100		"	100		103	82-128		2.67	30	
p-Isopropyltoluene	53		"	50.0		106	85-125		4.93	30	
sec-Butylbenzene	53		"	50.0		107	83-125		8.08	30	
Styrene	54		"	50.0		108	86-126		1.88	30	
tert-Butyl alcohol (TBA)	46		"	50.0		92.3	70-130		6.25	30	
tert-Butylbenzene	58		"	50.0		115	80-127		7.31	30	
Tetrachloroethylene	51		"	50.0		102	80-129		15.0	30	
Toluene	53		"	50.0		105	85-121		0.171	30	
trans-1,2-Dichloroethylene	52		"	50.0		104	72-132		7.07	30	
trans-1,3-Dichloropropylene	53		"	50.0		107	78-132		4.04	30	
Trichloroethylene	54		"	50.0		107	84-123		6.67	30	
Trichlorofluoromethane	56		"	50.0		112	62-140		7.87	30	
Vinyl Chloride	51		"	50.0		101	52-130		4.15	30	
Surrogate: 1,2-Dichloroethane-d4	*50.1*		*"*	*50.0*		*100*	*77-125*				
Surrogate: Toluene-d8	*47.6*		*"*	*50.0*		*95.2*	*85-120*				
Surrogate: p-Bromofluorobenzene	*55.2*		*"*	*50.0*		*110*	*76-130*				
Batch BD60160 - EPA 5035A											
Blank (BD60160-BLK1)								Prepared & Analyzed: 04/05/2016			
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								

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 BD60160 - EPA 5035A											
Blank (BD60160-BLK1)											Prepared & Analyzed: 04/05/2016
Bromomethane	ND	0.0050	mg/kg wet								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Surrogate: 1,2-Dichloroethane-d4	*46.6*		*ug/L*	*50.0*		*93.1*	*77-125*				
Surrogate: Toluene-d8	*45.1*		*"*	*50.0*		*90.2*	*85-120*				
Surrogate: p-Bromofluorobenzene	*46.3*		*"*	*50.0*		*92.6*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BD60160 - EPA 5035A

Blank (BD60160-BLK2) Prepared & Analyzed: 04/05/2016

Analyte	Result	Reporting Limit	Units
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet
1,1,1-Trichloroethane	ND	0.0050	"
1,1,2,2-Tetrachloroethane	ND	0.0050	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"
1,1,2-Trichloroethane	ND	0.0050	"
1,1-Dichloroethane	ND	0.0050	"
1,1-Dichloroethylene	ND	0.0050	"
1,2,3-Trichlorobenzene	ND	0.0050	"
1,2,3-Trichloropropane	ND	0.0050	"
1,2,4-Trichlorobenzene	ND	0.0050	"
1,2,4-Trimethylbenzene	ND	0.0050	"
1,2-Dibromo-3-chloropropane	ND	0.0050	"
1,2-Dibromoethane	ND	0.0050	"
1,2-Dichlorobenzene	ND	0.0050	"
1,2-Dichloroethane	ND	0.0050	"
1,2-Dichloropropane	ND	0.0050	"
1,3,5-Trimethylbenzene	ND	0.0050	"
1,3-Dichlorobenzene	ND	0.0050	"
1,4-Dichlorobenzene	ND	0.0050	"
1,4-Dioxane	ND	0.10	"
2-Butanone	ND	0.0050	"
2-Hexanone	ND	0.0050	"
4-Methyl-2-pentanone	ND	0.0050	"
Acetone	ND	0.010	"
Acrolein	ND	0.010	"
Acrylonitrile	ND	0.0050	"
Benzene	ND	0.0050	"
Bromochloromethane	ND	0.0050	"
Bromodichloromethane	ND	0.0050	"
Bromoform	ND	0.0050	"
Bromomethane	ND	0.0050	"
Carbon disulfide	ND	0.0050	"
Carbon tetrachloride	ND	0.0050	"
Chlorobenzene	ND	0.0050	"
Chloroethane	ND	0.0050	"
Chloroform	ND	0.0050	"
Chloromethane	ND	0.0050	"
cis-1,2-Dichloroethylene	ND	0.0050	"
cis-1,3-Dichloropropylene	ND	0.0050	"
Cyclohexane	ND	0.0050	"
Dibromochloromethane	ND	0.0050	"
Dibromomethane	ND	0.0050	"
Dichlorodifluoromethane	ND	0.0050	"
Ethyl Benzene	ND	0.0050	"
Hexachlorobutadiene	ND	0.0050	"
Isopropylbenzene	ND	0.0050	"
Methyl acetate	ND	0.0050	"
Methyl tert-butyl ether (MTBE)	ND	0.0050	"
Methylcyclohexane	ND	0.0050	"
Methylene chloride	ND	0.010	"
n-Butylbenzene	ND	0.0050	"

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 BD60160 - EPA 5035A											
Blank (BD60160-BLK2)								Prepared & Analyzed: 04/05/2016			
n-Propylbenzene	ND	0.0050	mg/kg wet								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Surrogate: 1,2-Dichloroethane-d4	*50.6*		*ug/L*	*50.0*		*101*	*77-125*				
Surrogate: Toluene-d8	*45.6*		*"*	*50.0*		*91.2*	*85-120*				
Surrogate: p-Bromofluorobenzene	*47.9*		*"*	*50.0*		*95.8*	*76-130*				
LCS (BD60160-BS1)								Prepared & Analyzed: 04/05/2016			
1,1,1,2-Tetrachloroethane	51		ug/L	50.0		102	75-129				
1,1,1-Trichloroethane	57		"	50.0		113	71-137				
1,1,2,2-Tetrachloroethane	48		"	50.0		96.8	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	59		"	50.0		118	58-146				
1,1,2-Trichloroethane	48		"	50.0		96.6	83-123				
1,1-Dichloroethane	56		"	50.0		113	75-130				
1,1-Dichloroethylene	58		"	50.0		117	64-137				
1,2,3-Trichlorobenzene	48		"	50.0		95.5	81-140				
1,2,3-Trichloropropane	49		"	50.0		97.4	81-126				
1,2,4-Trichlorobenzene	48		"	50.0		95.1	80-141				
1,2,4-Trimethylbenzene	49		"	50.0		97.6	84-125				
1,2-Dibromo-3-chloropropane	53		"	50.0		105	74-142				
1,2-Dibromoethane	49		"	50.0		98.6	86-123				
1,2-Dichlorobenzene	50		"	50.0		99.1	85-122				
1,2-Dichloroethane	62		"	50.0		125	71-133				
1,2-Dichloropropane	50		"	50.0		100	81-122				
1,3,5-Trimethylbenzene	48		"	50.0		95.0	82-126				
1,3-Dichlorobenzene	50		"	50.0		100	84-124				
1,4-Dichlorobenzene	48		"	50.0		96.5	84-124				
1,4-Dioxane	1100		"	1000		107	10-228				
2-Butanone	68		"	50.0		135	58-147				
2-Hexanone	57		"	50.0		113	70-139				
4-Methyl-2-pentanone	100		"	50.0		202	72-132	High Bias			
Acetone	75		"	50.0		151	36-155				
Acrolein	53		"	50.0		105	10-238				
Acrylonitrile	59		"	50.0		118	66-141				
Benzene	58		"	50.0		116	77-127				
Bromochloromethane	59		"	50.0		118	74-129				
Bromodichloromethane	50		"	50.0		99.8	81-124				
Bromoform	50		"	50.0		101	80-136				
Bromomethane	57		"	50.0		115	32-177				

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 BD60160 - EPA 5035A											
LCS (BD60160-BS1)								Prepared & Analyzed: 04/05/2016			
Carbon disulfide	59		ug/L	50.0		119	10-136				
Carbon tetrachloride	59		"	50.0		119	66-143				
Chlorobenzene	50		"	50.0		99.6	86-120				
Chloroethane	61		"	50.0		123	51-142				
Chloroform	57		"	50.0		114	76-131				
Chloromethane	57		"	50.0		114	49-132				
cis-1,2-Dichloroethylene	55		"	50.0		110	74-132				
cis-1,3-Dichloropropylene	50		"	50.0		101	81-129				
Cyclohexane	59		"	50.0		118	70-130				
Dibromochloromethane	53		"	50.0		106	10-200				
Dibromomethane	51		"	50.0		102	83-124				
Dichlorodifluoromethane	49		"	50.0		97.0	28-158				
Ethyl Benzene	48		"	50.0		96.7	84-125				
Hexachlorobutadiene	48		"	50.0		96.7	83-133				
Isopropylbenzene	49		"	50.0		97.7	81-127				
Methyl acetate	59		"	50.0		118	41-143				
Methyl tert-butyl ether (MTBE)	58		"	50.0		115	74-131				
Methylcyclohexane	48		"	50.0		96.3	70-130				
Methylene chloride	57		"	50.0		114	57-141				
n-Butylbenzene	48		"	50.0		95.1	80-130				
n-Propylbenzene	49		"	50.0		98.7	74-136				
o-Xylene	49		"	50.0		98.9	83-123				
p- & m- Xylenes	97		"	100		96.6	82-128				
p-Isopropyltoluene	50		"	50.0		99.1	85-125				
sec-Butylbenzene	50		"	50.0		100	83-125				
Styrene	49		"	50.0		97.5	86-126				
tert-Butyl alcohol (TBA)	0.0		"	50.0			70-130	Low Bias			
tert-Butylbenzene	48		"	50.0		95.1	80-127				
Tetrachloroethylene	49		"	50.0		98.3	80-129				
Toluene	47		"	50.0		94.7	85-121				
trans-1,2-Dichloroethylene	58		"	50.0		116	72-132				
trans-1,3-Dichloropropylene	50		"	50.0		99.8	78-132				
Trichloroethylene	49		"	50.0		98.3	84-123				
Trichlorofluoromethane	53		"	50.0		105	62-140				
Vinyl Chloride	59		"	50.0		117	52-130				
Surrogate: 1,2-Dichloroethane-d4	*50.5*		*"*	*50.0*		*101*	*77-125*				
Surrogate: Toluene-d8	*44.7*		*"*	*50.0*		*89.5*	*85-120*				
Surrogate: p-Bromofluorobenzene	*48.4*		*"*	*50.0*		*96.8*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD60160 - EPA 5035A											
LCS Dup (BD60160-BSD1)								Prepared & Analyzed: 04/05/2016			
1,1,1,2-Tetrachloroethane	52		ug/L	50.0		105	75-129		2.41	30	
1,1,1-Trichloroethane	56		"	50.0		112	71-137		1.65	30	
1,1,2,2-Tetrachloroethane	49		"	50.0		98.8	79-129		2.09	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	58		"	50.0		116	58-146		1.52	30	
1,1,2-Trichloroethane	50		"	50.0		100	83-123		3.80	30	
1,1-Dichloroethane	58		"	50.0		115	75-130		1.97	30	
1,1-Dichloroethylene	58		"	50.0		115	64-137		1.17	30	
1,2,3-Trichlorobenzene	48		"	50.0		95.9	81-140		0.439	30	
1,2,3-Trichloropropane	49		"	50.0		98.4	81-126		0.980	30	
1,2,4-Trichlorobenzene	47		"	50.0		94.5	80-141		0.675	30	
1,2,4-Trimethylbenzene	47		"	50.0		94.2	84-125		3.59	30	
1,2-Dibromo-3-chloropropane	51		"	50.0		101	74-142		4.16	30	
1,2-Dibromoethane	50		"	50.0		99.8	86-123		1.25	30	
1,2-Dichlorobenzene	49		"	50.0		98.0	85-122		1.12	30	
1,2-Dichloroethane	61		"	50.0		121	71-133		3.06	30	
1,2-Dichloropropane	51		"	50.0		102	81-122		1.11	30	
1,3,5-Trimethylbenzene	45		"	50.0		90.7	82-126		4.61	30	
1,3-Dichlorobenzene	49		"	50.0		98.6	84-124		1.41	30	
1,4-Dichlorobenzene	49		"	50.0		97.3	84-124		0.888	30	
1,4-Dioxane	1100		"	1000		110	10-228		2.58	30	
2-Butanone	59		"	50.0		118	58-147		13.1	30	
2-Hexanone	49		"	50.0		98.1	70-139		14.3	30	
4-Methyl-2-pentanone	85		"	50.0		169	72-132	High Bias	17.8	30	
Acetone	39		"	50.0		78.5	36-155		63.1	30	Non-dir.
Acrolein	66		"	50.0		133	10-238		23.4	30	
Acrylonitrile	62		"	50.0		123	66-141		4.40	30	
Benzene	60		"	50.0		120	77-127		3.60	30	
Bromochloromethane	57		"	50.0		114	74-129		3.51	30	
Bromodichloromethane	50		"	50.0		99.1	81-124		0.724	30	
Bromoform	49		"	50.0		98.7	80-136		1.99	30	
Bromomethane	59		"	50.0		117	32-177		1.88	30	
Carbon disulfide	56		"	50.0		113	10-136		5.20	30	
Carbon tetrachloride	58		"	50.0		116	66-143		2.47	30	
Chlorobenzene	50		"	50.0		100	86-120		0.600	30	
Chloroethane	60		"	50.0		121	51-142		1.84	30	
Chloroform	58		"	50.0		116	76-131		1.97	30	
Chloromethane	57		"	50.0		115	49-132		0.893	30	
cis-1,2-Dichloroethylene	55		"	50.0		111	74-132		0.542	30	
cis-1,3-Dichloropropylene	51		"	50.0		101	81-129		0.615	30	
Cyclohexane	58		"	50.0		115	70-130		2.10	30	
Dibromochloromethane	53		"	50.0		105	10-200		0.664	30	
Dibromomethane	51		"	50.0		103	83-124		0.781	30	
Dichlorodifluoromethane	48		"	50.0		96.9	28-158		0.0825	30	
Ethyl Benzene	49		"	50.0		97.1	84-125		0.454	30	
Hexachlorobutadiene	49		"	50.0		98.4	83-133		1.72	30	
Isopropylbenzene	49		"	50.0		98.4	81-127		0.673	30	
Methyl acetate	61		"	50.0		122	41-143		3.23	30	
Methyl tert-butyl ether (MTBE)	58		"	50.0		117	74-131		1.24	30	
Methylcyclohexane	48		"	50.0		96.1	70-130		0.270	30	
Methylene chloride	56		"	50.0		113	57-141		1.23	30	
n-Butylbenzene	46		"	50.0		92.6	80-130		2.62	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD60160 - EPA 5035A											
LCS Dup (BD60160-BSD1)								Prepared & Analyzed: 04/05/2016			
n-Propylbenzene	48		ug/L	50.0		96.8	74-136		2.01	30	
o-Xylene	49		"	50.0		98.3	83-123		0.568	30	
p- & m- Xylenes	96		"	100		95.8	82-128		0.842	30	
p-Isopropyltoluene	49		"	50.0		97.9	85-125		1.26	30	
sec-Butylbenzene	49		"	50.0		98.5	83-125		1.51	30	
Styrene	49		"	50.0		97.8	86-126		0.307	30	
tert-Butyl alcohol (TBA)	0.0		"	50.0			70-130	Low Bias		30	
tert-Butylbenzene	48		"	50.0		95.8	80-127		0.712	30	
Tetrachloroethylene	46		"	50.0		91.9	80-129		6.71	30	
Toluene	47		"	50.0		94.5	85-121		0.190	30	
trans-1,2-Dichloroethylene	58		"	50.0		117	72-132		0.395	30	
trans-1,3-Dichloropropylene	49		"	50.0		98.6	78-132		1.29	30	
Trichloroethylene	48		"	50.0		96.5	84-123		1.79	30	
Trichlorofluoromethane	56		"	50.0		113	62-140		6.77	30	
Vinyl Chloride	60		"	50.0		119	52-130		1.45	30	
Surrogate: 1,2-Dichloroethane-d4	*51.2*		*"*	*50.0*		*102*	*77-125*				
Surrogate: Toluene-d8	*44.9*		*"*	*50.0*		*89.9*	*85-120*				
Surrogate: p-Bromofluorobenzene	*47.3*		*"*	*50.0*		*94.7*	*76-130*				

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
16C1186-01	SB-1(7-8')	40mL Vial with Stir Bar-Cool 4° C
16C1186-02	SB-1 : GW	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
16C1186-03	SB-3(9-10')	40mL Vial with Stir Bar-Cool 4° C

Notes and Definitions

SCAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%).
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.

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

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

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

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

Certification for pH is no longer offered by NYDOH ELAP.

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

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

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

Field Chain-of-Custody Record

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

York Project No. 16C1186

YOUR Information

Company: The Chazen Companies
Address: 21 Fox Street
Poughkeepsie, NY 12601
Phone No. 845-454-3580
Contact Person: Will Olsen
E-Mail Address: wolsen@chazencompanies.com

Report To:

Company: Chazen
Address:
Phone No.
Attention: Will Olsen
E-Mail Address:

Invoice To:

Company: Chazen
Address:
Phone No.
Attention: ACCTS PAYABLE
E-Mail Address:

YOUR Project ID

41616.00
TASK 0100
AJAKIN - WATERVLIET

Purchase Order No.

P17659

Samples from: CT ___ NY X NJ ___

Turn-Around Time

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

Report Type

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

Electronic Data Deliverables (EDD)

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

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

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

Samples Collected/Authorized By (Signature)

William G. Olsen
Name (printed)

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

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

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
SB-1 (7-8')	3-29-16 11:15	S	8260 VOCs	Terracore
SB-1 : GW	" 11:30	GW	"	2 x 40ml VOA w/HCl
SB-3 (9-10')	" 14:30	S	"	Terracore

Comments

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

4°C X Frozen ___ HCl X MeOH X HNO_3 ___ H_2SO_4 ___ NaOH ___
ZnAc Ascorbic Acid Other

William G. Olsen 3-30-16/11:50
Samples Relinquished By Date/Time

Samples Relinquished By Date/Time

Samples Received By 3-30-16 11:50
Date/Time

Samples Received in LAB by 3/30/16 1558
Date/Time

Temperature on Receipt 3.7 °C

Technical Report

prepared for:

Chazen Environmental Services (Poughkeepsie)
21 Fox Street
Poughkeepsie NY, 12601
Attention: Will Olsen

Report Date: 04/08/2016
Client Project ID: 41616.00 TASK 0100 Avakin-Watervliet
York Project (SDG) No.: 16C1189

Report Date: 04/08/2016
Client Project ID: 41616.00 TASK 0100 Avakin-Watervliet
York Project (SDG) No.: 16C1189

Chazen Environmental Services (Poughkeepsie)
21 Fox Street
Poughkeepsie NY, 12601
Attention: Will Olsen

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 March 30, 2016 and listed below. The project was identified as your project: **41616.00 TASK 0100 Avakin-Watervliet**.

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 Notes 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 attachment to this report, and case narrative if applicable.

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

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
16C1189-01	SS-1	Soil Vapor	03/29/2016	03/30/2016

General Notes for York Project (SDG) No.: 16C1189

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 samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By: 

Date: 04/08/2016

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: SS-1 **York Sample ID:** 16C1189-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16C1189	41616.00 TASK 0100 Avakin-Watervliet	Soil Vapor	March 29, 2016 3:00 pm	03/30/2016

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	12	12	17.94	EPA TO-15 Certifications:	04/06/2016 08:53	04/07/2016 16:49	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	9.8	9.8	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	12	12	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	14	14	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	9.8	9.8	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m³	7.3	7.3	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m³	7.1	7.1	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	13	13	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	8.8	8.8	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m³	14	14	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	11	11	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m³	7.3	7.3	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m³	8.3	8.3	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	13	13	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	8.8	8.8	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
106-99-0	1,3-Butadiene	ND		ug/m³	12	12	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	11	11	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	8.3	8.3	17.94	EPA TO-15 Certifications:	04/06/2016 08:53	04/07/2016 16:49	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	11	11	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
123-91-1	1,4-Dioxane	ND		ug/m³	13	13	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
78-93-3	**2-Butanone**	**6.3**		ug/m³	5.3	5.3	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
591-78-6	* 2-Hexanone	ND		ug/m³	15	15	17.94	EPA TO-15 Certifications:	04/06/2016 08:53	04/07/2016 16:49	LDS
107-05-1	3-Chloropropene	ND		ug/m³	28	28	17.94	EPA TO-15 Certifications: NELAC-NY10854	04/06/2016 08:53	04/07/2016 16:49	LDS

Sample Information

Client Sample ID: SS-1 **York Sample ID:** 16C1189-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16C1189	41616.00 TASK 0100 Avakin-Watervliet	Soil Vapor	March 29, 2016 3:00 pm	03/30/2016

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	7.3	7.3	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
67-64-1	**Acetone**	**35**		ug/m³	8.5	8.5	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
107-13-1	Acrylonitrile	ND		ug/m³	3.9	3.9	17.94	EPA TO-15 Certifications: NELAC-NY10854	04/06/2016 08:53	04/07/2016 16:49	LDS
71-43-2	Benzene	ND		ug/m³	5.7	5.7	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
100-44-7	Benzyl chloride	ND		ug/m³	9.3	9.3	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
75-27-4	Bromodichloromethane	ND		ug/m³	12	12	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
75-25-2	Bromoform	ND		ug/m³	19	19	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
74-83-9	Bromomethane	ND		ug/m³	7.0	7.0	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
75-15-0	Carbon disulfide	ND		ug/m³	5.6	5.6	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
56-23-5	Carbon tetrachloride	ND		ug/m³	2.8	2.8	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
108-90-7	Chlorobenzene	ND		ug/m³	8.3	8.3	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
75-00-3	Chloroethane	ND		ug/m³	4.7	4.7	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
67-66-3	**Chloroform**	**25**		ug/m³	8.8	8.8	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
74-87-3	Chloromethane	ND		ug/m³	3.7	3.7	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
156-59-2	**cis-1,2-Dichloroethylene**	**170**		ug/m³	7.1	7.1	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	8.1	8.1	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
110-82-7	Cyclohexane	ND		ug/m³	6.2	6.2	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
124-48-1	Dibromochloromethane	ND		ug/m³	15	15	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
75-71-8	Dichlorodifluoromethane	ND		ug/m³	8.9	8.9	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
141-78-6	* Ethyl acetate	ND		ug/m³	13	13	17.94	EPA TO-15 Certifications:	04/06/2016 08:53	04/07/2016 16:49	LDS
100-41-4	Ethyl Benzene	ND		ug/m³	7.8	7.8	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m³	19	19	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
67-63-0	Isopropanol	ND		ug/m³	8.8	8.8	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS

Sample Information

Client Sample ID: SS-1 **York Sample ID:** 16C1189-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16C1189	41616.00 TASK 0100 Avakin-Watervliet	Soil Vapor	March 29, 2016 3:00 pm	03/30/2016

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
80-62-6	Methyl Methacrylate	ND		ug/m³	7.3	7.3	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	6.5	6.5	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
75-09-2	Methylene chloride	ND		ug/m³	12	12	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
142-82-5	n-Heptane	ND		ug/m³	7.4	7.4	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
110-54-3	n-Hexane	ND		ug/m³	6.3	6.3	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
95-47-6	o-Xylene	ND		ug/m³	7.8	7.8	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
179601-23-1	p- & m- Xylenes	ND		ug/m³	16	16	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
622-96-8	* p-Ethyltoluene	ND		ug/m³	8.8	8.8	17.94	EPA TO-15 Certifications:	04/06/2016 08:53	04/07/2016 16:49	LDS
115-07-1	* Propylene	ND		ug/m³	3.1	3.1	17.94	EPA TO-15 Certifications:	04/06/2016 08:53	04/07/2016 16:49	LDS
100-42-5	Styrene	ND		ug/m³	7.6	7.6	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
127-18-4	**Tetrachloroethylene**	**5600**		ug/m³	6.1	6.1	35.88	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/08/2016 09:02	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m³	11	11	17.94	EPA TO-15 Certifications:	04/06/2016 08:53	04/07/2016 16:49	LDS
108-88-3	**Toluene**	**18**		ug/m³	6.8	6.8	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	7.1	7.1	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	8.1	8.1	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
79-01-6	**Trichloroethylene**	**89**		ug/m³	2.4	2.4	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m³	10	10	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
108-05-4	Vinyl acetate	ND		ug/m³	6.3	6.3	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
593-60-2	Vinyl bromide	ND		ug/m³	7.8	7.8	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS
75-01-4	Vinyl Chloride	ND		ug/m³	4.6	4.6	17.94	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 16:49	LDS

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: p-Bromofluorobenzene*	*99.9 %*	*72-118*

Analytical Batch Summary

Batch ID: BD60230 **Preparation Method:** EPA TO15 PREP **Prepared By:** LDS

YORK Sample ID	Client Sample ID	Preparation Date
16C1189-01	SS-1	04/06/16
BD60230-BLK1	Blank	04/06/16
BD60230-BS1	LCS	04/06/16

Batch ID: BD60343 **Preparation Method:** EPA TO15 PREP **Prepared By:** LDS

YORK Sample ID	Client Sample ID	Preparation Date
16C1189-01RE1	SS-1	04/06/16
BD60343-BLK1	Blank	04/07/16
BD60343-BS1	LCS	04/07/16

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

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD60230 - EPA TO15 PREP											
Blank (BD60230-BLK1)											Prepared: 04/06/2016 Analyzed: 04/07/2016
1,1,1,2-Tetrachloroethane	ND	0.69	ug/m³								
1,1,1-Trichloroethane	ND	0.55	"								
1,1,2,2-Tetrachloroethane	ND	0.69	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.77	"								
1,1,2-Trichloroethane	ND	0.55	"								
1,1-Dichloroethane	ND	0.40	"								
1,1-Dichloroethylene	ND	0.40	"								
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	0.40	"								
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	"								
n-Hexane	ND	0.35	"								

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

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD60230 - EPA TO15 PREP											
Blank (BD60230-BLK1)								Prepared: 04/06/2016 Analyzed: 04/07/2016			
o-Xylene	ND	0.43	ug/m³								
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	0.26	"								
Surrogate: p-Bromofluorobenzene	*9.65*		*ppbv*	*10.0*		*96.5*	*72-118*				
LCS (BD60230-BS1)								Prepared: 04/06/2016 Analyzed: 04/07/2016			
1,1,1,2-Tetrachloroethane	11.4		ppbv	10.0		114	82-126				
1,1,1-Trichloroethane	12.0		"	10.0		120	70-130				
1,1,2,2-Tetrachloroethane	11.1		"	10.0		111	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.3		"	10.0		113	70-130				
1,1,2-Trichloroethane	11.1		"	10.0		111	70-130				
1,1-Dichloroethane	11.4		"	10.0		114	70-130				
1,1-Dichloroethylene	11.6		"	10.0		116	70-130				
1,2,4-Trichlorobenzene	8.33		"	10.0		83.3	70-130				
1,2,4-Trimethylbenzene	13.0		"	10.0		130	70-130				
1,2-Dibromoethane	11.8		"	10.0		118	70-130				
1,2-Dichlorobenzene	12.2		"	10.0		122	70-130				
1,2-Dichloroethane	11.4		"	10.0		114	70-130				
1,2-Dichloropropane	10.8		"	10.0		108	70-130				
1,2-Dichlorotetrafluoroethane	10.4		"	10.0		104	70-130				
1,3,5-Trimethylbenzene	12.6		"	10.0		126	70-130				
1,3-Butadiene	9.93		"	10.0		99.3	70-130				
1,3-Dichlorobenzene	12.2		"	10.0		122	70-130				
1,3-Dichloropropane	11.2		"	10.0		112	70-130				
1,4-Dichlorobenzene	12.7		"	10.0		127	70-130				
1,4-Dioxane	17.9		"	10.0		179	70-130	High Bias			
2-Butanone	12.9		"	10.0		129	70-130				
2-Hexanone	7.50		"	10.0		75.0	70-130				
3-Chloropropene	11.7		"	10.0		117	70-130				
4-Methyl-2-pentanone	11.7		"	10.0		117	70-130				
Acetone	10.4		"	10.0		104	70-130				
Acrylonitrile	11.8		"	10.0		118	70-130				
Benzene	11.6		"	10.0		116	70-130				
Benzyl chloride	6.40		"	10.0		64.0	70-130	Low Bias			
Bromodichloromethane	11.0		"	10.0		110	70-130				
Bromoform	12.0		"	10.0		120	70-130				
Bromomethane	9.81		"	10.0		98.1	70-130				
Carbon disulfide	12.5		"	10.0		125	70-130				
Carbon tetrachloride	12.1		"	10.0		121	70-130				
Chlorobenzene	11.0		"	10.0		110	70-130				

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

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD60230 - EPA TO15 PREP											
LCS (BD60230-BS1)								Prepared: 04/06/2016 Analyzed: 04/07/2016			
Chloroethane	11.2		ppbv	10.0		112	70-130				
Chloroform	11.3		"	10.0		113	70-130				
Chloromethane	9.27		"	10.0		92.7	70-130				
cis-1,2-Dichloroethylene	10.4		"	10.0		104	70-130				
cis-1,3-Dichloropropylene	12.5		"	10.0		125	70-130				
Cyclohexane	12.6		"	10.0		126	70-130				
Dibromochloromethane	11.7		"	10.0		117	70-130				
Dichlorodifluoromethane	9.55		"	10.0		95.5	70-130				
Ethyl acetate	14.8		"	10.0		148	70-130	High Bias			
Ethyl Benzene	12.0		"	10.0		120	70-130				
Hexachlorobutadiene	10.9		"	10.0		109	70-130				
Isopropanol	12.1		"	10.0		121	70-130				
Methyl Methacrylate	13.3		"	10.0		133	70-130	High Bias			
Methyl tert-butyl ether (MTBE)	14.4		"	10.0		144	70-130	High Bias			
Methylene chloride	9.59		"	10.0		95.9	70-130				
n-Heptane	12.5		"	10.0		125	70-130				
n-Hexane	11.7		"	10.0		117	70-130				
o-Xylene	13.3		"	10.0		133	70-130	High Bias			
p- & m- Xylenes	24.6		"	20.0		123	70-130				
p-Ethyltoluene	13.5		"	10.0		135	70-130	High Bias			
Propylene	9.97		"	10.0		99.7	70-130				
Styrene	12.7		"	10.0		127	70-130				
Tetrachloroethylene	11.2		"	10.0		112	70-130				
Tetrahydrofuran	12.8		"	10.0		128	70-130				
Toluene	11.4		"	10.0		114	70-130				
trans-1,2-Dichloroethylene	12.0		"	10.0		120	70-130				
trans-1,3-Dichloropropylene	11.8		"	10.0		118	70-130				
Trichloroethylene	11.4		"	10.0		114	70-130				
Trichlorofluoromethane (Freon 11)	11.1		"	10.0		111	70-130				
Vinyl acetate	7.63		"	10.0		76.3	70-130				
Vinyl bromide	12.0		"	10.0		120	70-130				
Vinyl Chloride	10.8		"	10.0		108	70-130				
Surrogate: p-Bromofluorobenzene	*10.1*		*"*	*10.0*		*101*	*72-118*				

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

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD60343 - EPA TO15 PREP											
Blank (BD60343-BLK1)											
Prepared: 04/07/2016 Analyzed: 04/08/2016											
1,1,1,2-Tetrachloroethane	ND	0.69	ug/m³								
1,1,1-Trichloroethane	ND	0.55	"								
1,1,2,2-Tetrachloroethane	ND	0.69	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.77	"								
1,1,2-Trichloroethane	ND	0.55	"								
1,1-Dichloroethane	ND	0.40	"								
1,1-Dichloroethylene	ND	0.40	"								
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	0.40	"								
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	"								
n-Hexane	ND	0.35	"								

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

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD60343 - EPA TO15 PREP											
Blank (BD60343-BLK1)								Prepared: 04/07/2016 Analyzed: 04/08/2016			
o-Xylene	ND	0.43	ug/m³								
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	0.26	"								
Surrogate: p-Bromofluorobenzene	*9.50*		*ppbv*	*10.0*		*95.0*	*72-118*				
LCS (BD60343-BS1)								Prepared: 04/07/2016 Analyzed: 04/08/2016			
1,1,1,2-Tetrachloroethane	11.4		ppbv	10.0		114	82-126				
1,1,1-Trichloroethane	11.5		"	10.0		115	70-130				
1,1,2,2-Tetrachloroethane	11.2		"	10.0		112	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.0		"	10.0		110	70-130				
1,1,2-Trichloroethane	11.5		"	10.0		115	70-130				
1,1-Dichloroethane	11.2		"	10.0		112	70-130				
1,1-Dichloroethylene	11.3		"	10.0		113	70-130				
1,2,4-Trichlorobenzene	8.15		"	10.0		81.5	70-130				
1,2,4-Trimethylbenzene	13.0		"	10.0		130	70-130				
1,2-Dibromoethane	12.0		"	10.0		120	70-130				
1,2-Dichlorobenzene	12.5		"	10.0		125	70-130				
1,2-Dichloroethane	11.2		"	10.0		112	70-130				
1,2-Dichloropropane	11.0		"	10.0		110	70-130				
1,2-Dichlorotetrafluoroethane	11.0		"	10.0		110	70-130				
1,3,5-Trimethylbenzene	12.7		"	10.0		127	70-130				
1,3-Butadiene	10.4		"	10.0		104	70-130				
1,3-Dichlorobenzene	12.6		"	10.0		126	70-130				
1,3-Dichloropropane	11.4		"	10.0		114	70-130				
1,4-Dichlorobenzene	13.1		"	10.0		131	70-130	High Bias			
1,4-Dioxane	16.5		"	10.0		165	70-130	High Bias			
2-Butanone	12.9		"	10.0		129	70-130				
2-Hexanone	6.96		"	10.0		69.6	70-130	Low Bias			
3-Chloropropene	11.3		"	10.0		113	70-130				
4-Methyl-2-pentanone	11.0		"	10.0		110	70-130				
Acetone	10.3		"	10.0		103	70-130				
Acrylonitrile	11.7		"	10.0		117	70-130				
Benzene	11.4		"	10.0		114	70-130				
Benzyl chloride	5.29		"	10.0		52.9	70-130	Low Bias			
Bromodichloromethane	11.2		"	10.0		112	70-130				
Bromoform	12.0		"	10.0		120	70-130				
Bromomethane	10.1		"	10.0		101	70-130				
Carbon disulfide	12.2		"	10.0		122	70-130				
Carbon tetrachloride	11.6		"	10.0		116	70-130				
Chlorobenzene	11.0		"	10.0		110	70-130				

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

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD60343 - EPA TO15 PREP											
LCS (BD60343-BS1)								Prepared: 04/07/2016 Analyzed: 04/08/2016			
Chloroethane	11.5		ppbv	10.0		115	70-130				
Chloroform	11.0		"	10.0		110	70-130				
Chloromethane	9.70		"	10.0		97.0	70-130				
cis-1,2-Dichloroethylene	10.5		"	10.0		105	70-130				
cis-1,3-Dichloropropylene	12.6		"	10.0		126	70-130				
Cyclohexane	12.2		"	10.0		122	70-130				
Dibromochloromethane	11.8		"	10.0		118	70-130				
Dichlorodifluoromethane	9.76		"	10.0		97.6	70-130				
Ethyl acetate	14.8		"	10.0		148	70-130	High Bias			
Ethyl Benzene	12.0		"	10.0		120	70-130				
Hexachlorobutadiene	10.8		"	10.0		108	70-130				
Isopropanol	11.6		"	10.0		116	70-130				
Methyl Methacrylate	13.3		"	10.0		133	70-130	High Bias			
Methyl tert-butyl ether (MTBE)	13.6		"	10.0		136	70-130	High Bias			
Methylene chloride	9.57		"	10.0		95.7	70-130				
n-Heptane	12.6		"	10.0		126	70-130				
n-Hexane	11.5		"	10.0		115	70-130				
o-Xylene	13.4		"	10.0		134	70-130	High Bias			
p- & m- Xylenes	24.8		"	20.0		124	70-130				
p-Ethyltoluene	13.5		"	10.0		135	70-130	High Bias			
Propylene	9.96		"	10.0		99.6	70-130				
Styrene	12.7		"	10.0		127	70-130				
Tetrachloroethylene	11.4		"	10.0		114	70-130				
Tetrahydrofuran	12.7		"	10.0		127	70-130				
Toluene	11.6		"	10.0		116	70-130				
trans-1,2-Dichloroethylene	11.8		"	10.0		118	70-130				
trans-1,3-Dichloropropylene	11.9		"	10.0		119	70-130				
Trichloroethylene	11.4		"	10.0		114	70-130				
Trichlorofluoromethane (Freon 11)	10.8		"	10.0		108	70-130				
Vinyl acetate	6.21		"	10.0		62.1	70-130	Low Bias			
Vinyl bromide	11.6		"	10.0		116	70-130				
Vinyl Chloride	11.1		"	10.0		111	70-130				
Surrogate: p-Bromofluorobenzene	*10.0*		*"*	*10.0*		*100*	*72-118*				

Notes and Definitions

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.

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*	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.

Field Chain-of-Custody Record - AIR

YORK ANALYTICAL LABORATORIES INC

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

York Project No. 16C1189

YOUR Information

Company: The Chazen Companies
Address: 21 Fox Street
Poughkeepsie, NY 12601
Phone No. 845-454-3980
Contact Person: Will Olsen
E-Mail Address: wolsen@chazencompanies.com

Report To:

Company: Chazen
Address:
Phone No.
Attention: Will Olsen
E-Mail Address:

Invoice To:

Company: Chazen
Address:
Phone No.
Attention: ACCTS. PAYABLE
E-Mail Address:

YOUR Project ID

41616.00
TASK 0100
AVAKIN-WATERVLIET

Purchase Order No.

P 17659

Samples from: CT__ NY X NJ__

Turn-Around Time

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

Report Type/Deliverables

- Summary Report X
- Summary w/ QA Summary
- CT RCP Package
- NY ASP A Package
- NY ASP B/CLP Pkg
- NJDEP Reduced

Electronic Deliverables:

- EDD (Specify Type)
- Standard Excel X
- Regulatory Comparison Excel

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

Samples Collected/Authorized By (Signature)

William G. Olsen
Name (printed)

Air Matrix Codes

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

Additional Notes:

1-hour sample collected 10:07 - 11:10

Please enter the following Field Data

Detection Limits Required

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

Special Instructions

Sample Identification	Date Sampled	AIR Matrix	Canister Vacuum Before Sampling (in. Hg)	Canister Vacuum After Sampling (in. Hg)	Canister ID	Flow Cont.ID	ANALYSES REQUESTED	Sampling Media
SS-1	3-29-16	AS	30	7	S29	F29	TO-15	6 Liter canister X / Tedlar Bag
								6 Liter canister / Tedlar Bag
								6 Liter canister / Tedlar Bag
								6 Liter canister / Tedlar Bag
								6 Liter canister / Tedlar Bag
								6 Liter canister / Tedlar Bag
								6 Liter canister / Tedlar Bag
								6 Liter canister / Tedlar Bag
								6 Liter canister / Tedlar Bag
								6 Liter canister / Tedlar Bag

Comments

Will Olsen 3-30-16/11:50
Samples Relinquished By Date/Time

Samples Relinquished By Date/Time

[signature] 3-30-16 11:50
Samples Received By Date/Time

PGrace 3-30-16 1558
Samples Received in LAB by Date/Time