

PERIODIC REVIEW REPORT

Haverstraw Harbors Site

NYSDEC BCP ID: C344060

Dr. Girling Drive

Haverstraw, New York

April 2016

ESI File: GH9964.44



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Prepared By:

**Ecosystems Strategies, Inc.
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Poughkeepsie, New York 12603**

Prepared For:

**GDC Development Properties LLC
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The undersigned has reviewed this Periodic Review Report and certifies to GDC Development Properties, LLC and to the New York State Department of Environmental Conservation (NYSDEC) that the information provided in this document is accurate as of the date of issuance by this office.

The undersigned is a Qualified Environmental Professional as defined by 6NYCRR Part 375-1.2 (aj) and supporting documents. The undersigned possesses sufficient specific education, training, and experience necessary to exercise professional judgment to develop opinions and conclusions regarding the presence of releases or threatened releases to the surface or subsurface of the site or off-site areas, sufficient to meet the objectives and performance factors for the areas of practice identified in NYSDEC guidance document DER-10.

Paul H. Ciminello

April 6, 2016



Qualified Environmental Professional

Date

Signature



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1.0 INTRODUCTION

1.1 Purpose

This Periodic Review Report (PRR) details on-going site management activities at the Haverstraw Harbors Site (“Site”), which entered the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) in July 2004 (BCP ID: C344060). The Site is located at Dr. George Girling Drive, Village of Haverstraw, Rockland County, New York. A map displaying the Site location is presented as Figure 1, Appendix A.

1.2 Site Description

The Site is an irregularly-shaped, 5.0479-acre parcel, bounded by a portion of the Metro North Railroad (MNR) parking lot to the north, the Harbors at Haverstraw residential complex to the south, the Hudson River to the east, and West Street to the west (see Figure 1). Dr. George W. Girling Drive (“Girling Drive”) traverses the Site in an “L” shape from the western Site boundary and ending in the central portion of the Site. The western portion of the Site is currently occupied by the Village of Haverstraw Department of Public Works (“DPW”). The eastern portion of the Site is currently vacant. The Site layout is depicted on Figure 1, Appendix A.

2.0 BACKGROUND

2.1 Site History

The Site is historically comprised of four parcels:

- The former Rockland Fuel Oil Company (Rockland Fuel) parcel, located at the southeastern portion of the Site;
- A portion of the former Keahon parcel, located at the northeastern portion of the Site; and,
- The two DPW parcels (northern and southern parcels), located at the western portion of the Site.

The Rockland Fuel and Keahon parcels are located at the eastern end of Girling Drive, along the western shoreline of the Hudson River. The DPW parcels are located on both the northern and southern sides of Girling Drive (the southern parcel also has frontage on West Street).

The Rockland Fuel parcel is the site of a former major oil storage facility (MOSF). Aboveground storage tanks (ASTs), ancillary structures, and a limited area of solvent contaminated soil were removed in 2003.

The Keahon parcel is the site of a former concrete manufacturer, which contained ASTs and fuel pumps removed prior to the installation of the MNR parking lot.

The northern DPW parcel is utilized as a maintenance yard containing a salt/gravel shed, and two ASTs (diesel fuel and gasoline) with a fuel pump. The northern DPW parcel is the site of a former wastewater treatment plant.

The southern DPW parcel contains a garage utilized for vehicle maintenance activities, an office trailer, construction trailer associated with the Harbors at Haverstraw residential complex, and a western landscaped area, which contains a 3,000-gallon underground storage tank (UST) supplying heating oil to the garage.

2.2 Prior Investigations and Remediation Activities

2.2.1 Prior Investigations

The following investigations have been conducted by Ecosystems Strategies, Inc. (ESI) at the Site:

- Phase I Environmental Site Assessment for the Keahon and Rockland Fuel parcels, February 5, 1999;
- Combined Phase I – Phase II Environmental Site Assessment for the Rockland Fuel and northern DPW parcel, June 4, 1999;
- Summary Report of Remedial Activities (SRRA) for the former Rockland Fuel parcel, August 2003;
- Tank Closure Site Assessment (TCSA) for the former Rockland Fuel and Keahon parcels, August 2003;
- Letter Reports documenting sampling of on- and off-site monitoring wells for the Rockland Fuel parcel, April 23, 2002 and February 24, 2004;
- Tank Closure Report (TCR) for the southern DPW parcel, February 2, 2005
- Summary Report of Subsurface Investigation for the southern DPW parcel, August 2005; and,
- Site Investigation Report (SIR), October 2007.

Environmental investigations prior to the SIR identified petroleum contamination in subsurface soils in the eastern and southwestern portions of the Site and in on-site groundwater, and solvent contamination in subsurface soils in the central portion of the Site.

Interim remedial activities at the Site included: removal of all petroleum bulk storage at the Rockland and Keahon parcels (TCSA), removal of solvent impacted soils in the central portion of the Site (SRRA); and removal of an UST in the southwestern portion of the Site (TCR).

The SIR confirmed and extensively documented petroleum contamination in on-site subsurface soils in the northeastern, southeastern and southwestern portions of the Site. Light non-aqueous phase liquid (LNAPL) was identified in several areas associated with grossly contaminated petroleum-impacted soils. No significant off-site contamination associated with the Site was reported in the SIR.

2.2.2 Remediation Activities

The following remedial actions were conducted as part of the implementation of the NYSDEC approved Remedial Action Work Plan (RAWP, November 2007) prepared by ESI:

1. Excavation of accessible soil/fill exceeding restricted residential soil cleanup objectives (SCOs) and/or grossly contaminated soils to varying depths (maximum depth of 12 feet bsg) in the northeast, southern, and southwestern portions of the Site. Figures 3.1, 3.2 and 3.3, Appendix A depict the areas of excavation at the Site;
2. Recovery, containerization and disposal of accessible LNAPL present in excavation areas;

3. Installation of a demarcation layer in areas with known or suspected remaining contamination;
4. Backfilling excavated areas with NYSDEC-approved material;
5. Demolition of the Sales Center (a temporary structure in the southeastern portion of the Site) during remedial activities to access grossly contaminated soils underneath the building;
6. Construction and maintenance of a cover system consisting of impermeable surfaces (asphalt, pavement and/or building/trailer footprint) or landscaped areas with at least 24 inches of clean soil to prevent human exposure to remaining contaminated soil/fill remaining at the Site. Figure 4 and Table A, Appendix B provide a depiction and summary of remaining soil contamination at the Site, respectively. Figures 5.1 and 5.2 depict the cover system for the Site;
7. Provision for the installation of a sub-slab depressurization system (SSDS), if deemed necessary, in any future building erected on-site during development activities;
8. Execution and recording of an Environmental Easement (EE) to restrict land use and prevent future exposure to any contamination remaining at the site;
9. Establishing Institutional Controls (see Section 2.4);
10. Development and implementation of a Site Management Plan (SMP) for long term management of remaining contamination as required by the EE, which includes plans for: (1) Institutional and Engineering Controls, (2) monitoring, (3) operation and maintenance and (4) reporting.

Remedial activities were completed at the Site from May through November 2013.

2.3 Engineering Controls

Engineering controls (ECs) have been put into place in order to manage remaining on-site contamination. The only existing EC at the Site is the cover system, to prevent exposure to remaining contamination in soil/fill.

The SMP contains provisions for future ECs. The conditions upon which to implement the future ECs are presented in the SMP. The future ECs consist of:

- The installation of a SSDS, if deemed necessary, in any future building erected on-site during development activities; and,
- In-situ treatment to address remaining contamination in the event LNAPL is encountered in remaining wells and/or this contamination migrates to areas where no previous contamination has been documented.

A site-wide inspection form completed by ESI, which documents the annual inspection of the existing EC, is provided in Appendix C. The cover system is discussed in Section 2.3.1. An evaluation on the need to implement future ECs is presented in Sections 2.3.2 and 2.3.3. These sections discuss the maintenance and operation activities outlined in the SMP, in addition to other pertinent activities that have occurred in the past year.

2.3.1 Cover System

The cover system at the Site consist of a minimum of 24 inches of clean soil, asphalt pavement, concrete-covered sidewalks, trailers in the northern DPW parcel, and/or concrete building slabs of no less than 3 inches in thickness.

The inspection of the cover system was completed on January 13, 2016. The cover system was observed to be in good condition at the time of the inspection and no significant cracks, vegetation between cracks, ponding of surface water or surface depressions were noted. Photographs of cover system at the Site are presented as Appendix D.

2.3.2 Sub-slab Depressurization System

A SSDS will be installed, if deemed necessary after the evaluation of soil vapor data and in consultation with NYSDEC, in any building erected on-site during future development activities to prevent exposure to any soil vapor intrusion from remaining contamination that exists beneath the Site.

No new structures have been erected since the implementation of the RAWP. No SSDS has been installed at the Site to date. All future buildings erected on-site will be evaluated to determine the need of a SSDS in accordance with the SMP.

2.3.3 Contingency for In-situ Treatment and Groundwater Monitoring

In-situ treatment of on-site soils and groundwater will be conducted in the event LNAPL is encountered in remaining wells and/or remaining contamination migrates to areas where no previous contamination has been documented. Mobility of remaining contamination will be evaluated by assessing contaminant concentrations in groundwater and the presence of LNAPL.

Post-remediation groundwater monitoring has been conducted at the Site since July 2014 to assess the need for in-situ treatment, document post-remedial groundwater quality and assess natural attenuation. Groundwater monitoring consist of the sampling of on-site and off-site monitoring wells for constituents of concern and the evaluating the presence of LNALP in on-site and off-site wells. Figure 2, Appendix A depicts the monitoring well locations. The latest groundwater sampling event was conducted on January 13, 2016. A Letter Report documenting the January 2016 groundwater monitoring and sampling activities, presented as Appendix E, was prepared by ESI and submitted to NYSDEC on March 9, 2016. The conclusions of the Letter Report are presented below.

No measurable LNAPL was observed at any of the wells during the January 2016 groundwater monitoring activities. Strong field evidence of petroleum contamination (i.e. odors, sheen and PID readings) was observed in monitoring wells HMW-7R and HMW-10R; laboratory results, however, document only a single petroleum compound (benzene) at concentrations above guidance levels. These findings support the conclusion that remaining petroleum contamination in on-site soils and groundwater is highly degraded.

Low-level exceedances of groundwater standards for several chlorinated solvents continue to be present at HMW-8 (trichloroethylene [TCE] and its breakdown products) and HWM-13 (chlorobenzene). Current data suggest that TCE is naturally degrading in situ; chlorobenzene concentrations, however, appear to be relatively stable.

It is the opinion of ESI that residual petroleum and solvent contamination does not warrant in-situ treatment at this time, based on the absence of LNAPL and only low-level concentrations of VOCs in on-site groundwater. Groundwater monitoring will be conducted on an annual basis for

the third year of post-remediation monitoring as indicated in the SMP. The next annual sampling event is anticipated in July 2016.

2.4 Institutional Controls

A series of Institutional Controls (ICs) have been put into place to: (1) implement, maintain and monitor EC systems; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and, (3) limit the use and development of the Site to restricted residential uses only. Adherence to these ICs on the Site is required by the EE and will be implemented under the SMP. These ICs are:

- Compliance with the EE and SMP by the Grantor and the Grantor's successors and assigns;
- All ECs must be operated and maintained as specified in the SMP;
- All ECs on the Controlled Site must be inspected at a frequency and in a manner defined in the SMP;
- Groundwater, soil vapor and other environmental or public health monitoring must be performed as defined in the SMP; and,
- Data and information pertinent to site management of the Controlled Site must be reported at the frequency and in a manner defined in the SMP.

The Site has a series of ICs in the form of site restrictions. Site restrictions that apply to the Controlled Site are:

- The site may only be used for restricted residential use provided that the long-term Engineering and Institutional Controls included in the SMP are employed.
- The Site may not be used for a higher level of use, such as unrestricted and residential uses without additional remediation and amendment of the EE, as approved by the NYSDEC;
- All future activities on the Site that will disturb remaining contaminated material must be conducted in accordance with the SMP;
- The use of the groundwater underlying the Site is prohibited without treatment rendering it safe for intended use;
- Vegetable gardens and farming on the site are prohibited;
- The site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Site are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such Controlled Site at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

2.5 Compliance with Engineering and Institutional Controls

The EC currently implemented at the Site is effective in protecting human health and the environment. The EC is in compliance with the SMP and is effective for protecting human health and the environment.

The Site was observed to be a storage, maintenance and repair facility for the DPW and vacant land during the annual Site inspection. The Site is not currently used for unrestricted or residential uses. Groundwater is not in use at the Site at this time and no gardens or farms are present. No new structures were erected at the Site. The ICs are currently implemented at the Site and are effective for protecting human health and the environment.

The completed NYSDEC EC/ICs Certification Form is provided in Appendix F.

3.0 CONCLUSIONS

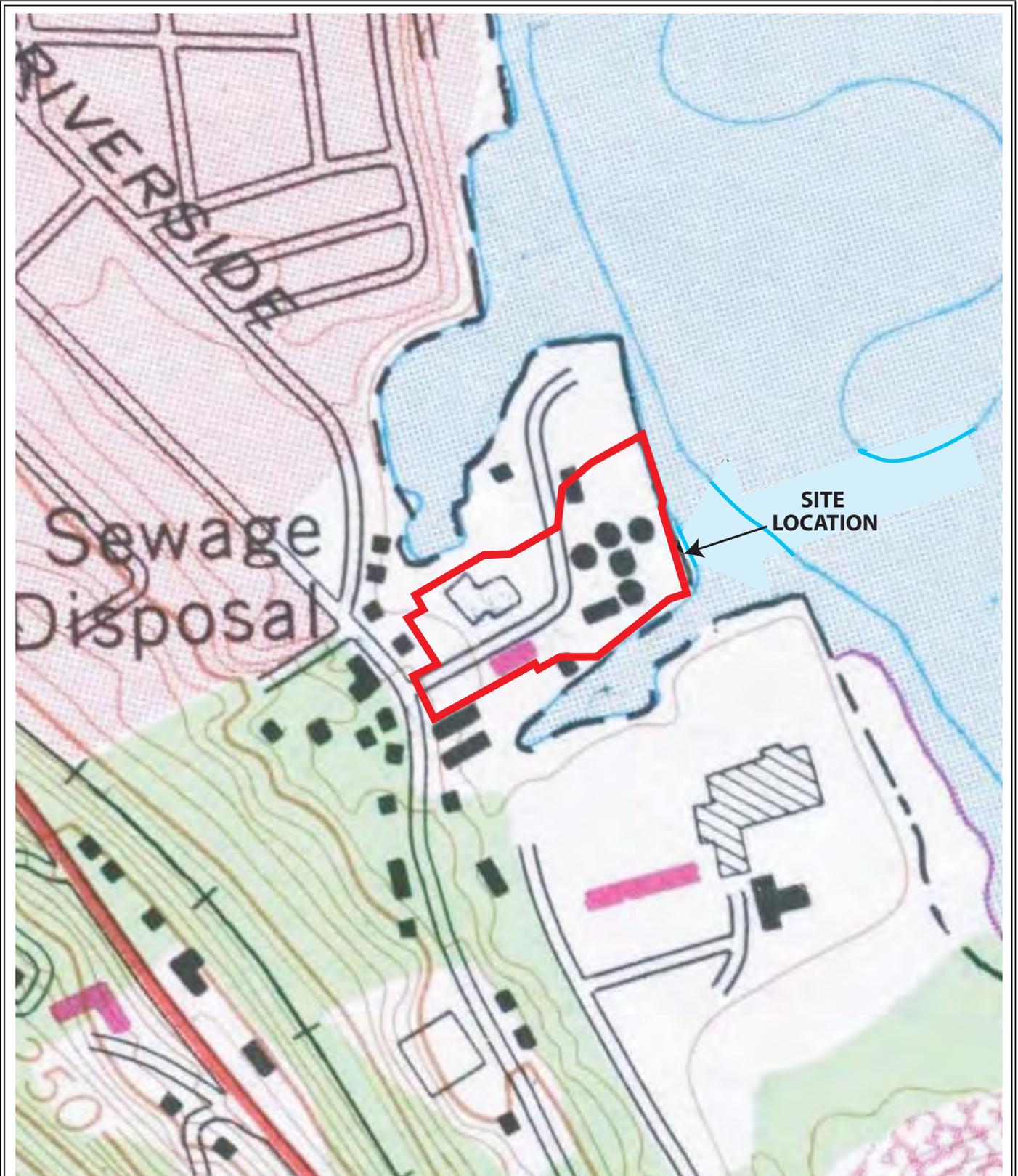
Visual inspection of the cover system confirm that the existing EC is in good condition and working properly. Available groundwater quality data indicate that in-situ treatment is not warranted at this time. All ECs and ICs in place at the Site are in compliance with the SMP.

The services summarized in this PRR were conducted in accordance with the approved NYSDEC Brownfields Program SMP, and are considered by ESI to satisfy the requirements set forth in the SMP. The next report will be submitted by April 2017.



APPENDIX A

Figures



Source: U.S. Department of Interior Geological Survey Topographic Map of the Haverstraw, NY Quadrangle, dated 1967 (photorevised 1979)

Figure 1 - Site Location and Boundaries Map

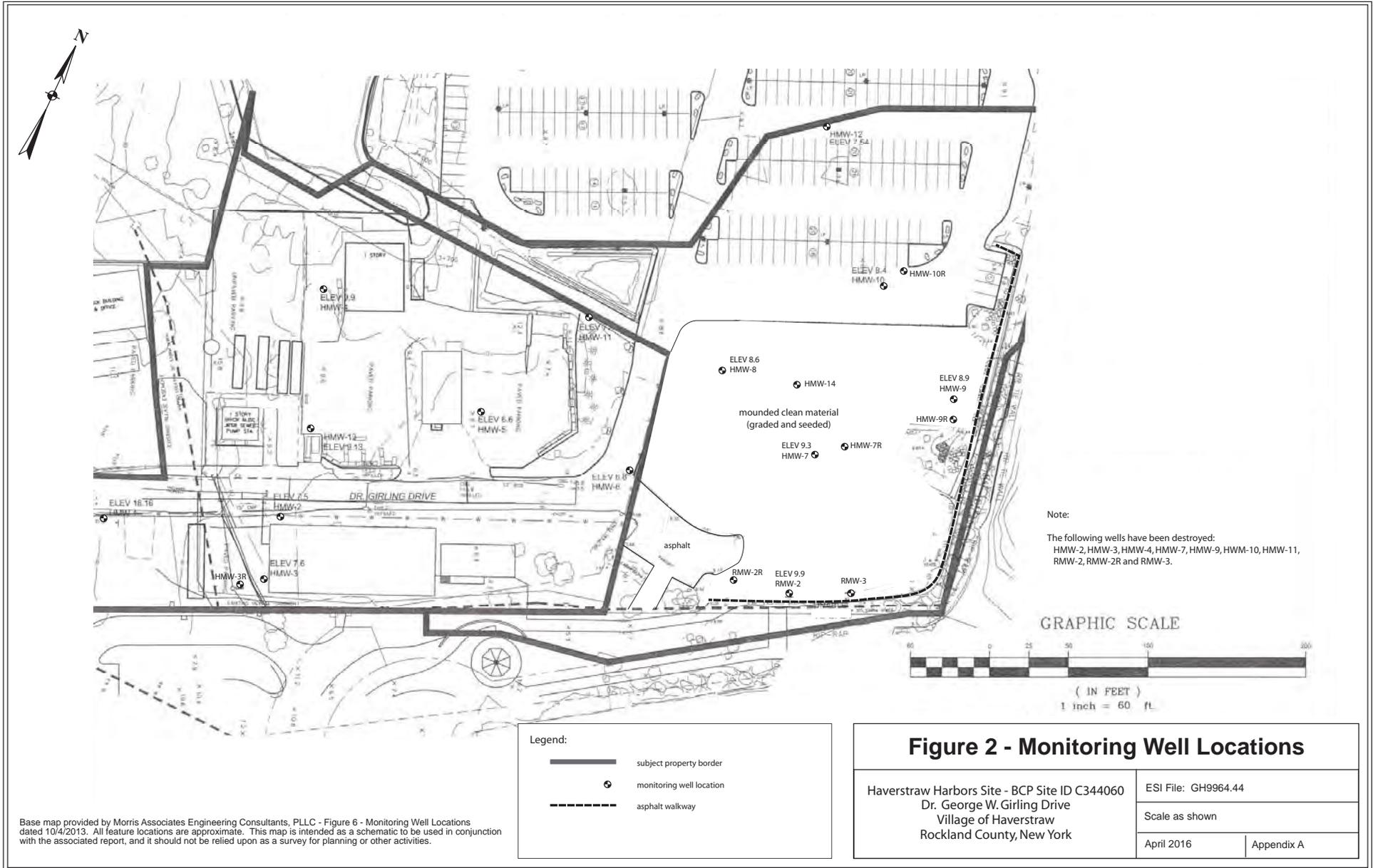
Haverstraw Harbors Site - BCP Site ID C344060
Dr. George W. Girling Drive
Village of Haverstraw
Rockland County, New York



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April 2016

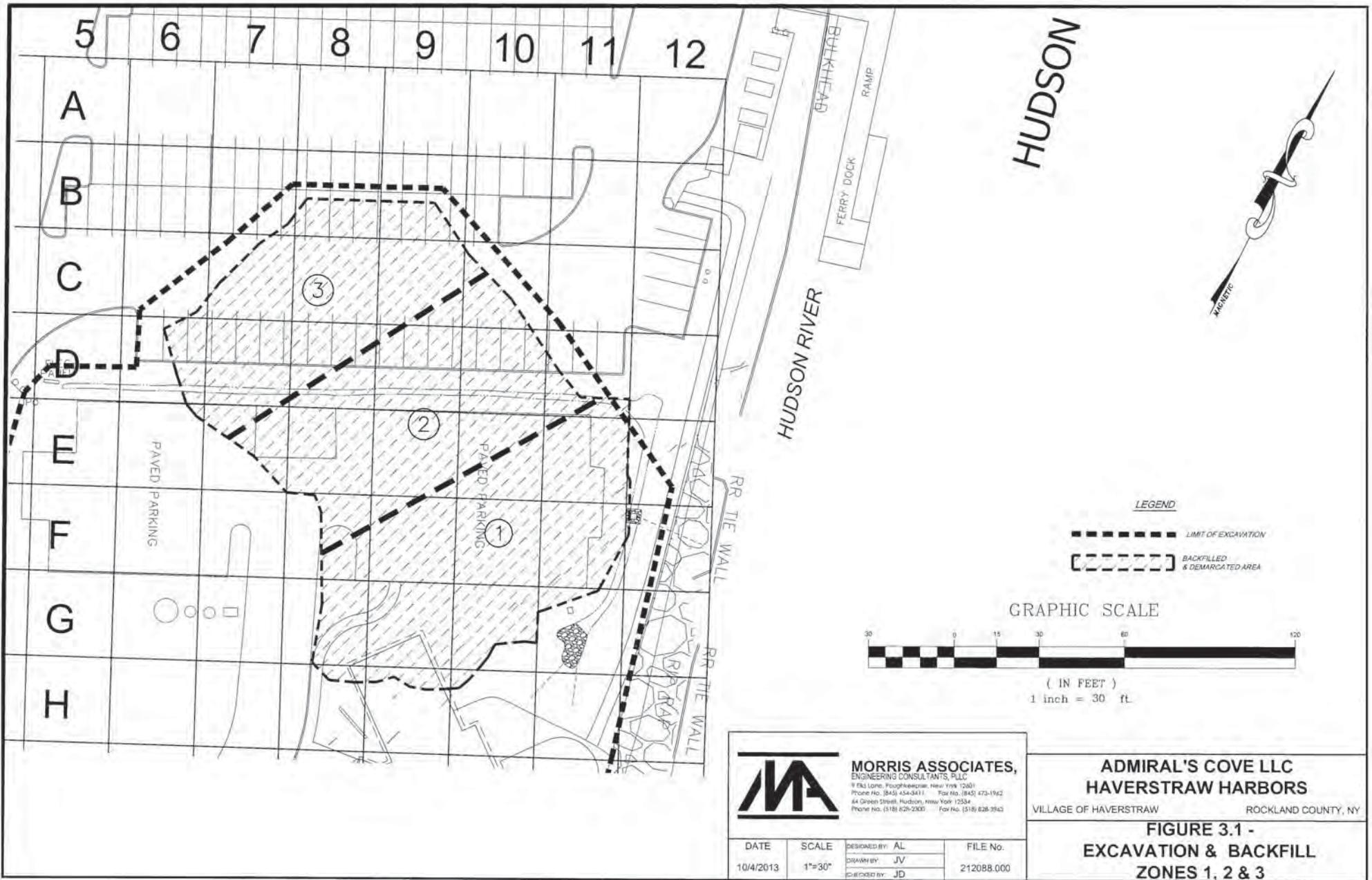
Appendix A



Base map provided by Morris Associates Engineering Consultants, PLLC - Figure 6 - Monitoring Well Locations dated 10/4/2013. All feature locations are approximate. This map is intended as a schematic to be used in conjunction with the associated report, and it should not be relied upon as a survey for planning or other activities.

Figure 2 - Monitoring Well Locations

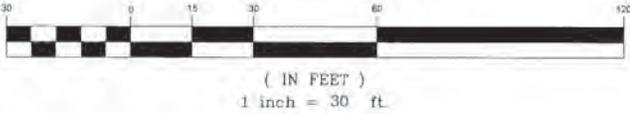
Haverstraw Harbors Site - BCP Site ID C344060 Dr. George W. Girling Drive Village of Haverstraw Rockland County, New York	ESI File: GH9964.44
	Scale as shown
April 2016	Appendix A



LEGEND

- LIMIT OF EXCAVATION
- BACKFILLED & DEMARCATED AREA

GRAPHIC SCALE

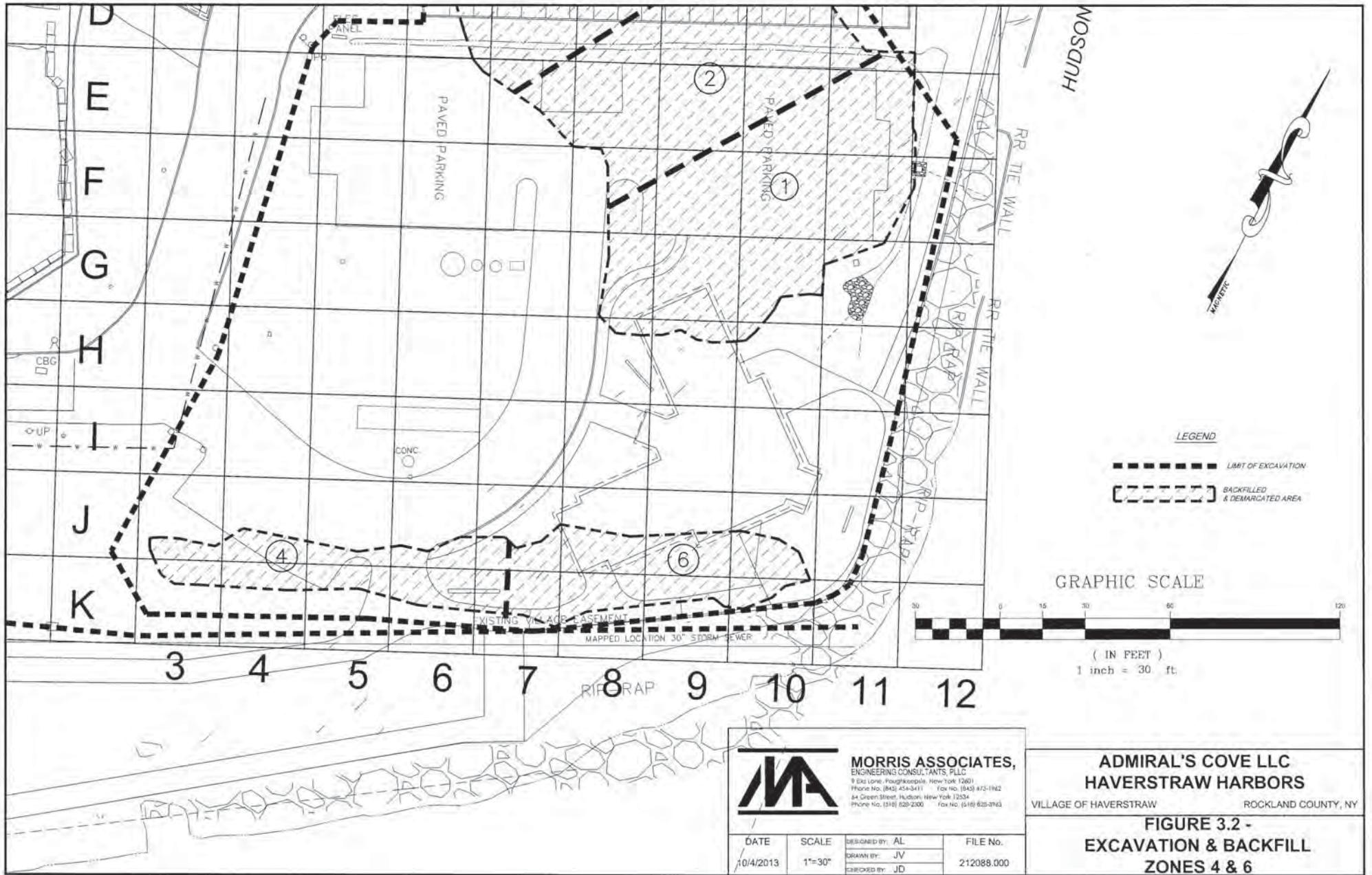


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ADMIRAL'S COVE LLC
HAVERSTRAW HARBORS
 VILLAGE OF HAVERSTRAW ROCKLAND COUNTY, NY

DATE	SCALE	DESIGNED BY: AL	FILE No.
10/4/2013	1"=30"	DRAWN BY: JV	212088.000
		CHECKED BY: JD	

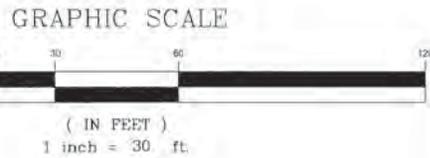
FIGURE 3.1 -
EXCAVATION & BACKFILL
ZONES 1, 2 & 3



LEGEND

--- LIMIT OF EXCAVATION

--- BACKFILLED & DEMARCATED AREA

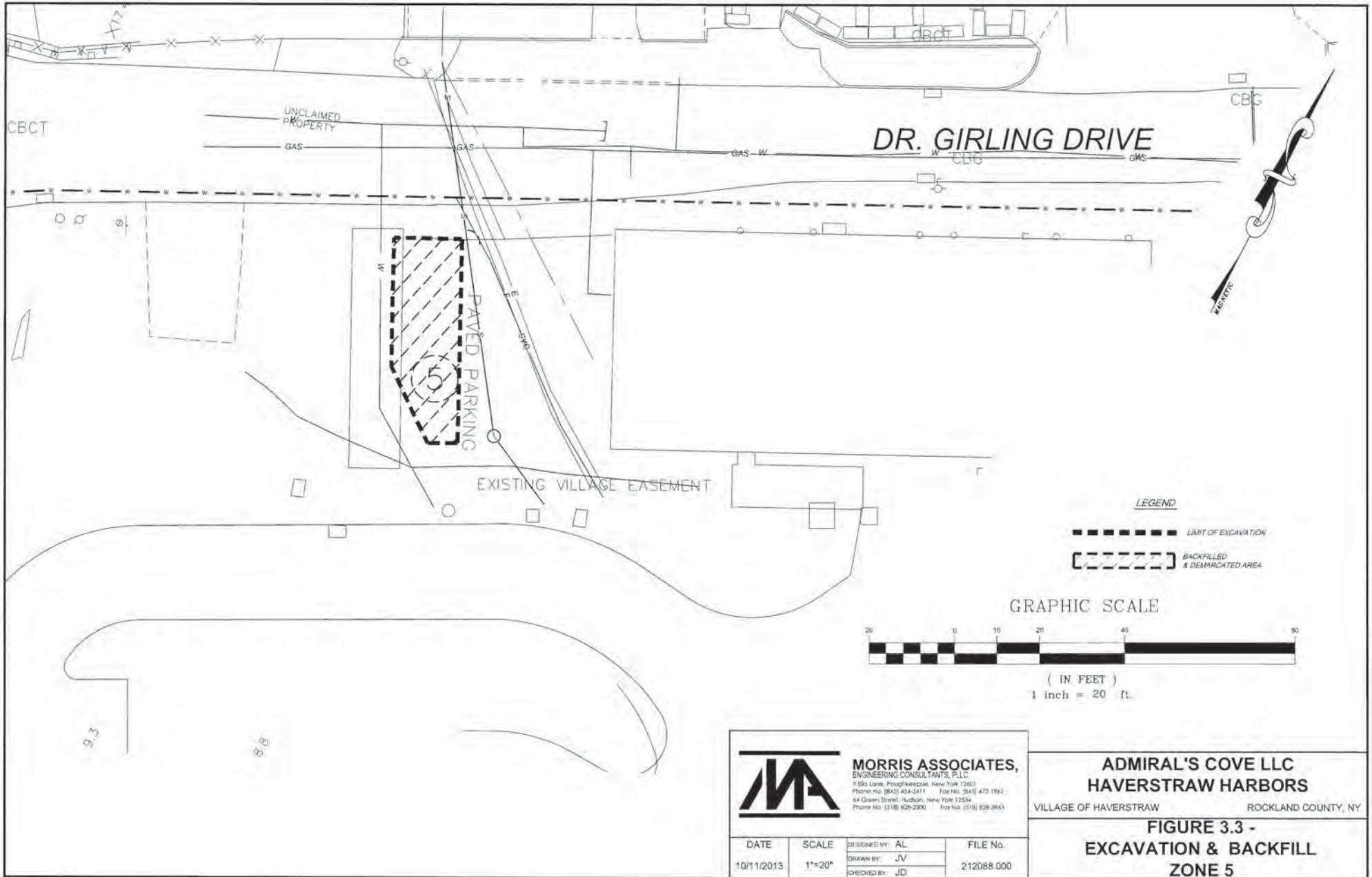


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DATE	SCALE	DESIGNED BY: AL	FILE No.
10/4/2013	1"=30"	DRAWN BY: JV	212088.000
		CHECKED BY: JD	

**ADMIRAL'S COVE LLC
 HAVERSTRAW HARBORS**
 VILLAGE OF HAVERSTRAW ROCKLAND COUNTY, NY

**FIGURE 3.2 -
 EXCAVATION & BACKFILL
 ZONES 4 & 6**

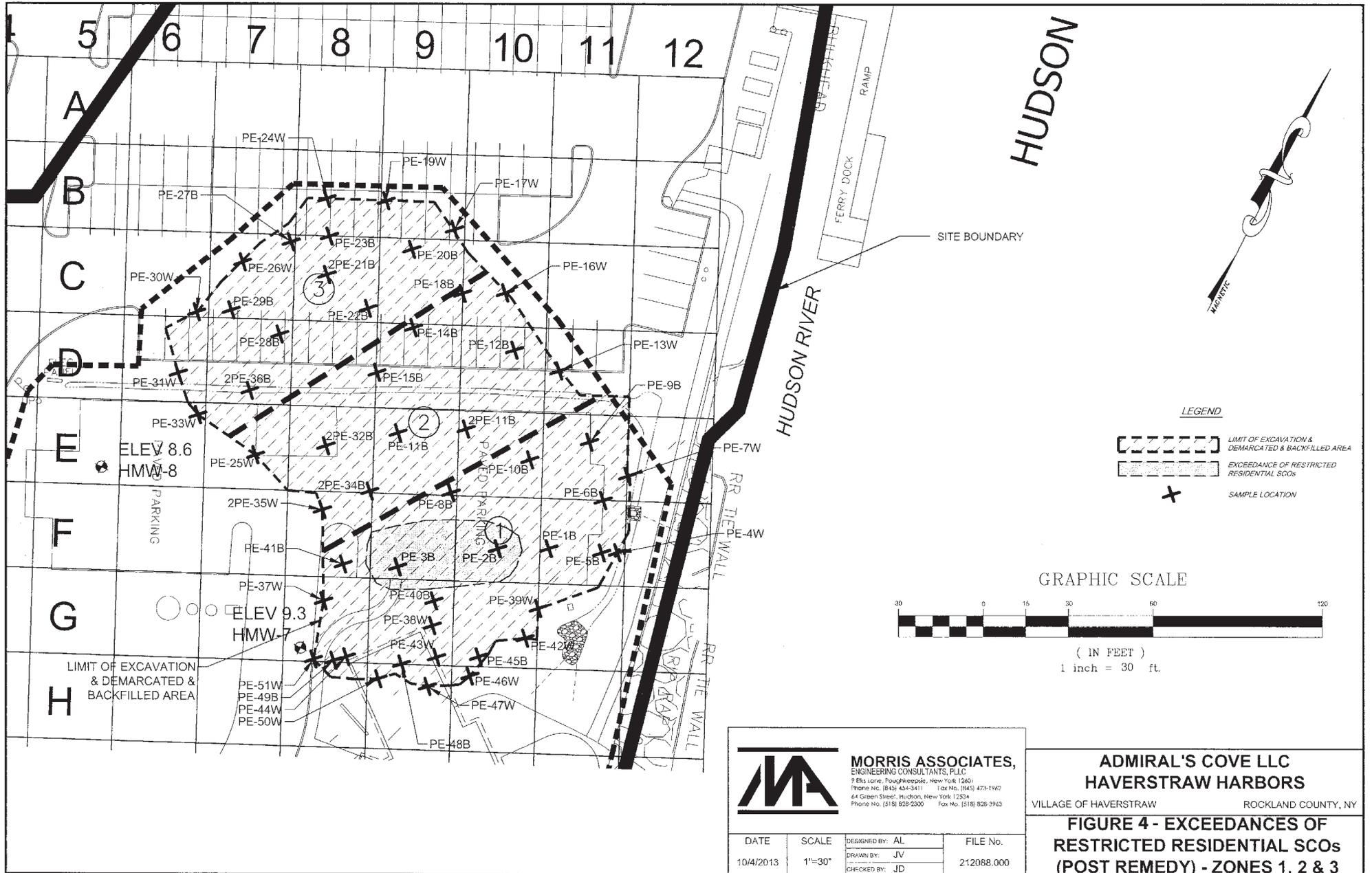


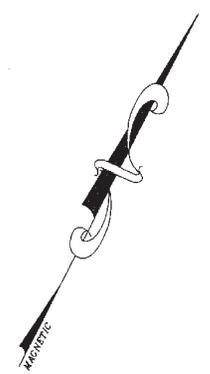
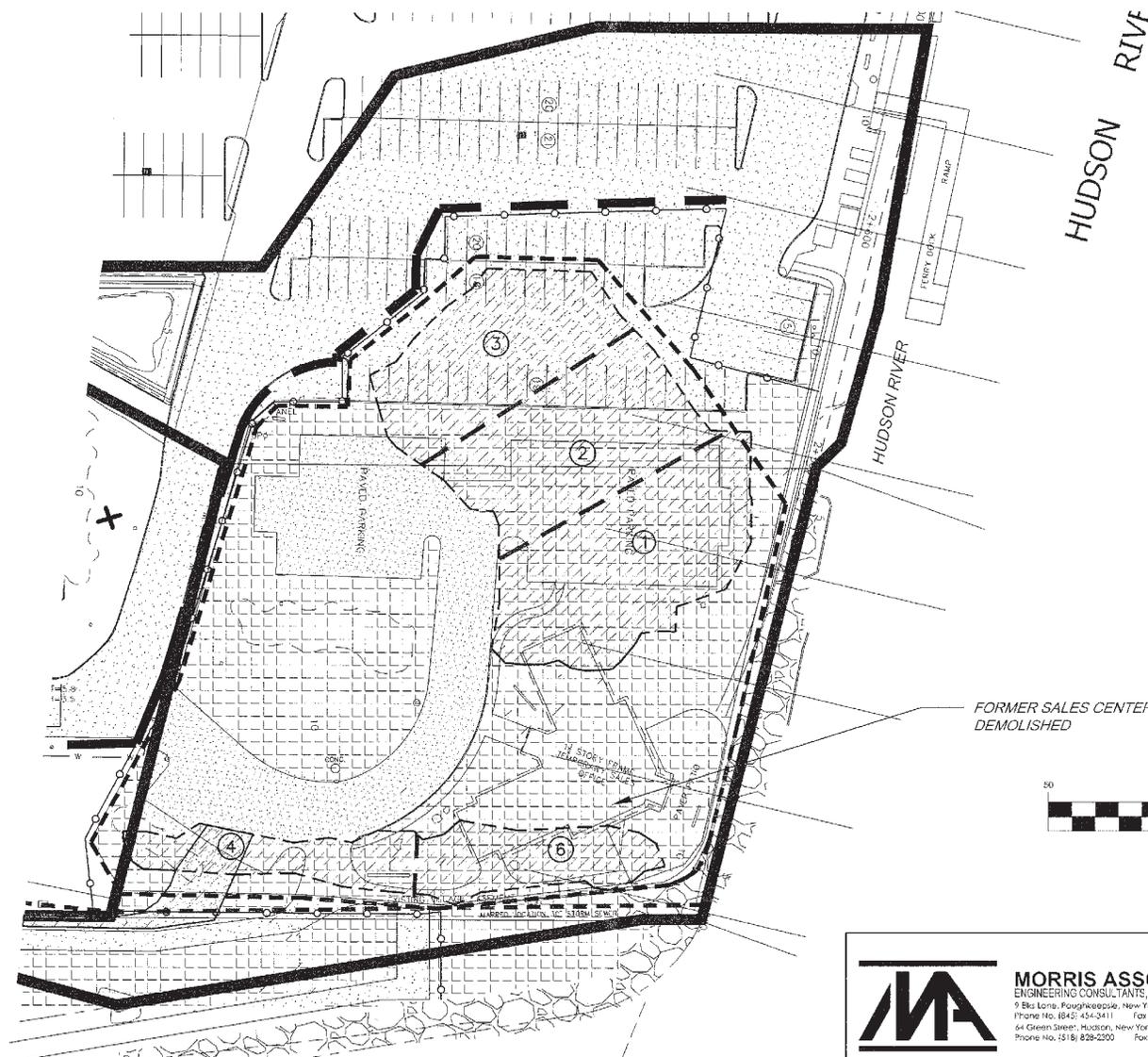
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		CHECKED BY: JD	

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HAVERSTRAW HARBORS
 VILLAGE OF HAVERSTRAW ROCKLAND COUNTY, NY

FIGURE 3.3 -
EXCAVATION & BACKFILL
ZONE 5



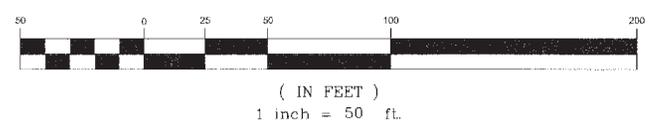


LEGEND

-  BACKFILLED AND DEMARCATED AREAS
-  ASPHALT PAVEMENT
-  LANDSCAPED AREAS
-  REVETMENT

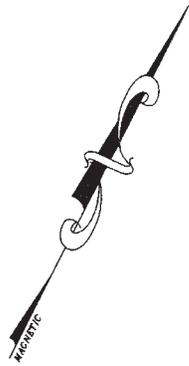
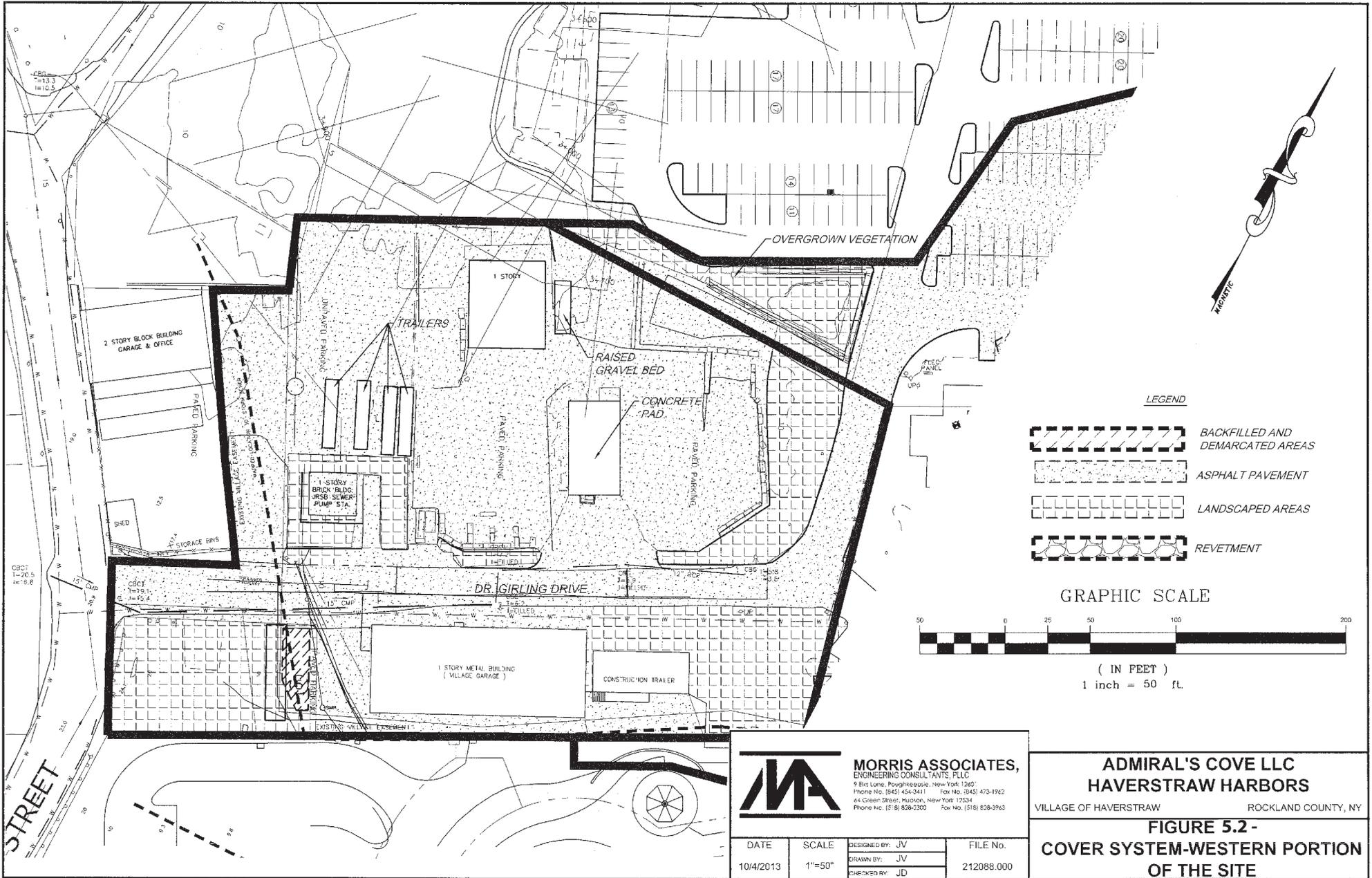
FORMER SALES CENTER
DEMOLISHED

GRAPHIC SCALE



		MORRIS ASSOCIATES, ENGINEERING CONSULTANTS, PLLC <small>9 Elk Lane, Poughkeepsie, New York 12603 Phone No. (845) 454-2411 Fax No. (845) 473-1942 64 Green Street, Hudson, New York 12534 Phone No. (518) 828-2200 Fax No. (518) 828-3963</small>	
		DATE 10/4/2013	SCALE 1"=50"

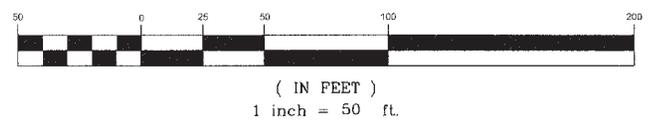
ADMIRAL'S COVE LLC HAVERSTRAW HARBORS	
VILLAGE OF HAVERSTRAW	ROCKLAND COUNTY, NY
FIGURE 5.1 - COVER SYSTEM-EASTERN PORTION OF THE SITE	



LEGEND

- BACKFILLED AND DEMARCATED AREAS
- ASPHALT PAVEMENT
- LANDSCAPED AREAS
- REVETMENT

GRAPHIC SCALE



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DATE	SCALE	DESIGNED BY: JV	FILE No.
10/4/2013	1"=50'	DRAWN BY: JV	212088.000
		CHECKED BY: JD	

**FIGURE 5.2 -
COVER SYSTEM-WESTERN PORTION
OF THE SITE**



APPENDIX B

Table A: Summary of Remaining Exceedances in Soil

Appendix B

Table A: Summary of Remaining Exceedances in Soil

Excavation ID	Sample ID	Description	Contaminant of Concern	Guidance Level* (mg/kg)	Laboratory Result (mg/kg)
Zone 1 – NE Portion of the Site	PE-2B	Bottom	2-methylnaphthalene	36.4	49.7
	PE-3B	Bottom	2-methylnaphthalene	36.4	43.6
Zone 5 – SW Portion of the Site	DPW-PE-5W	Wall	Benzo(a)anthracene	1,000	2,090
	DPW-PE-6W	Wall	Benzo(a)anthracene	1,000	5,440
			Benzo(a)pyrene	1,000	1,420 J
			Benzo(b)fluoranthene	1,000	2,060
		Chrysene	3,900	10,400	

Notes:

Guidance levels based on BCP Restricted-Residential Use Soil Cleanup Objectives (SCOs), 6 NYCRR, Table 375-6.8(b), with exception of 2-methylnaphthalene. Guidance level for 2-methylnaphthalene is based on BCP Protection of Groundwater SCO in the CP-51 Soil Cleanup Guidance.

J - The concentration given is an approximate value.



Ecosystems Strategies, Inc.

APPENDIX C

Side-wide Inspection Form

SITE-WIDE INSPECTION FORM
Haverstraw Harbors (NYSDEC Site ID: 366040)
51 Dr. Girling Drive, Village of Haverstraw, Rockland County, New York

Inspection Item	Yes	No	NA	Comments (Include Corrective Actions Needed)
General Checklist				
Change of ownership or use (Restricted Residential)? Transfer of COC?		✓		
Erection of structures?		✓		
Any activity likely to disrupt or expose contamination?		✓		
Any activity that will or may interfere with on-going or completed remedial program or the continued ability to implement engineering or institutional controls?		✓		
Cover System Monitoring Checklist				
Where there any ground-intrusive activities conducted (installation/relocation of utilities, etc.)? If so, specify.		✓		<i>Cover system in good condition. Photos taken.</i>
Is there evidence that ground-intrusive activities were conducted? If so, specify.		✓		
Are there signs of soil erosion in the landscaped areas that could interfere with the cover system integrity? If so, specify.		✓		
Are there any holes, cracks, vegetation, or physical deficiencies in the asphalt and paved areas? If so, sketch area on reverse side.		✓		
Areas of significant ponding on-site?		✓		
Are there any holes, cracks, vegetation, or physical deficiencies in the building floor slab? If so, identify the building and sketch area on reverse side.		✓		
Groundwater Monitoring Well Network				
Are the monitoring wells (HMW-7, HMW-8, HMW-13 through HMW-18) usable and in good condition?	✓			<i>Sampling event on Jan. 2016</i>
SSDS Checklist (Complete a separate sheet for every SSDS on-site and include system identification.)				
Is there an SSDS in place for building erected on-site? (If SSDS are yet to be installed, indicate in the comments section and do not complete the remainder of this section)			✓	<i>No SSDS on-site as none structures not erected on-site</i>
Are the units generating vacuum operating and maintained?			✓	
Is the discharge vent pipe functional and maintained? Are there any blockages in the vent pipe?			✓	
Are there any holes, cracks or physical deficiencies in the riser pipes?			✓	
Has the SSDS effluent sample been collected, analyzed and submitted to NYSDEC? (on-time event, or otherwise indicated by NYSDEC). Report to NYSDEC.			✓	
Sub-slab vacuum at all monitoring points greater than 0.002 in. of w.c.? Include vacuum readings on comments section. Report to NYSDEC.			✓	
Site Records				
Does the site operator have updated SMP and FER available on-site?		✓		<i>SMP/FER not available to DPW.</i>

Inspection Date:
Weather:
Inspector Name:
Inspector Signature:
Date of Last Inspection:
Required Date of Next Inspection: (based on findings, otherwise annually)
Agency:
Agency's Telephone:
Additional Comments or Drawings (Use Reverse Side):

01/13/2016 | Site owner/consultant to make available to DPW.
Sunny + cold 30-40°F
Rosaura Andujar-Hewell
Rosaura Andujar-Mohel
July 2015
Annually Jan 2017 Cold sampling Jul. 2016
Ecosystems Strategies Inc.
(845) 452-1658
NA



APPENDIX D

Photographs



PHOTOGRAPHS



1. Cover system in the northern DPW parcel in the vicinity of the salt/gravel shed



2. Cover system in the northern DPW parcel west of the salt/gravel shed



PHOTOGRAPHS



3. Cover system in the southern DPW parcel west of the DPW trailer and garage



4. Cover system in the southern DPW parcel between the DPW trailer and garage



PHOTOGRAPHS



5. Eastern portion of Girling Drive and cover system in the southern DPW parcel east of the DPW garage



6. Cover system in the southeastern portion of the Site (former location of Sales Center)



PHOTOGRAPHS



7. Cover system in the eastern portion of the Site



8. Cover system in the northeastern portion of the Site



Ecosystems Strategies, Inc.

APPENDIX E

January 2016 Post-Remediation Groundwater Letter Report



Ecosystems Strategies, Inc.

24 Davis Avenue, Poughkeepsie, NY 12603

phone 845.452.1658 | fax 845.485.7083 | ecosystemsstrategies.com

March 9, 2016

James Candiloro, P.E.
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, 11th Floor
Albany, New York 12233

via EMAIL: james.candiloro@dec.ny.gov

Re: Post-Remediation Groundwater Sampling Event – 2nd Year, 2nd Biannual Event, January 2016
Haverstraw Harbors Site B
NYSDEC BCP Site ID: C344060
ESI File: GH9964.50

Dear Mr. Candiloro:

Ecosystems Strategies Inc. (ESI), in conjunction with Morris Associates Engineering Consultants, P.L.L.C. (MA), has prepared this Letter Report to document post-remediation groundwater monitoring and sampling activities at Haverstraw Harbors Site B (hereafter referred to as the "Site"). This Letter Report describes sampling activities and laboratory results for the January 2016 groundwater sampling event (second year, second biannual event) and provides a summary of all post-remediation groundwater sampling events. The Site is located at Dr. George W. Girling Drive (Girling Drive), Village of Haverstraw, Rockland County, New York.

This post-remediation groundwater monitoring event was conducted to assess the performance of the remedy as specified in the NYSDEC-approved Site Management Plan (SMP, March 21, 2014). The SMP addresses remaining contamination at the Site after the completion of remedial activities (conducted from May to December 2013), which were performed in conformance with the NYSDEC-approved Remedial Work Plan and Alternative Analysis (November 2007).

The SMP requires groundwater monitoring at the following on-site wells: RMW-2R, HMW-3R, HMW-9R, HMW-10R, HMW-5 to HMW-8, HMW-13, and HMW-14. A Monitoring Well Location Map is provided as Attachment A. (Note: NYSDEC granted permission to waive the reinstallation and sampling of monitoring well RMW-2R in a December 22, 2014 communication. Reinstallation and sampling could be required by NYSDEC in the future.)

WELL SAMPLING

Groundwater sampling activities were conducted on January 13, 2016 by ESI personnel. Well sampling logs are provided as Attachment B.

No measurable light non-aqueous phase liquid (LNAPL) was detected at any of the monitoring wells during groundwater sampling activities. Table A, presented below, provides a summary of field evidence of contamination (FEC) observed during the January 2016 sampling event.



J. Candiloro
 March 9, 2016
 NYSDEC ID: C344060
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Table A: January 2016 Post-Remediation Field Evidence of Contamination

Well ID	PID Reading at the Top of Casing (ppm*)	Purged Groundwater	
		Odor	Sheen
HMW-3R	0.0	None	None
HMW-5	0.0	Slight	Slight
HMW-6	0.0	Slight	None
HMW-7R	24.8	Moderate	Slight
HMW-8	2.0	Slight	None
HMW-9R	**	Slight	Slight
HMW-10R	114.7	Strong	Heavy
HMW-13	0.0	Slight	Slight
HMW-14	2.2	Slight	Slight
RMW-2R	Destroyed		

Notes: *ppm = parts per million, ** PID malfunctioned, no reading recorded.

Historically, strong FEC has been observed in monitoring wells HMW-7R and HMW-10R, with moderate FEC in HMW-14 at all post-remediation sampling events (slight to no FEC has been observed in remaining wells). FEC observed in the January 2016 sampling event is consistent with historical data, with exception of a less elevated PID reading in the current result at HMW-14 (versus July 2015 PID reading 17.2 ppm). FEC documented in HMW-7R and HMW-10R is likely to be indicative of remaining petroleum contamination in on-site soils and groundwater.

LABORATORY RESULTS

A summary of the results of the laboratory analyses conducted on groundwater samples is presented below. Data summary tables and the laboratory reports are provided in Attachments C and D, respectively, and recommendations regarding these findings are located in the Conclusions section of this Letter Report.

All groundwater samples were analyzed for volatile organic compounds (VOCs) utilizing USEPA Method 8260. Guidance levels for all compounds detected in water are based on NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations.

AREA NORTH AND SOUTHWEST OF DR. GIRLING DRIVE (NORTHERN AND SOUTHERN DPW PARCELS)

Monitoring wells in the area north and southwest of Girling Drive include: HMW-3R, HMW-5, HMW-6, and HMW-13.

A slightly elevated concentration of chlorobenzene was detected at HMW-13 (17 µg/L, guidance level 5 µg/L) and benzene was detected at the guidance level at HMW-5 (1.0 µg/L, guidance level 1 µg/L). No chlorobenzene or benzene were detected in remaining wells in this area. Non-elevated concentrations of acetone, cyclohexane, methyl tert-butyl ether (MTBE), sec- and tert-butyl benzene, isopropylbenzene, and tert-butyl alcohol (TBA) were detected in all samples (no other VOCs were detected).

The current chlorobenzene concentration at HMW-13 is consistent with pre- and post-remediation concentrations. Post-remediation concentrations of benzene at HMW-5 have slightly increased (peak



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concentration 2.7 µg/L, July 2014) compared to pre-remediation concentrations (ranging from 0.62 µg/L to non-detect). Generally, all trace concentrations of VOCs remained consistent with pre-remediation concentrations.

AREA EAST OF GIRLING DRIVE

Monitoring wells in the area east of Girling Drive include: HMW-7R, HMW-8, HMW-9R, HMW-10R and HMW-14.

Trichloroethene and Related Compounds

Elevated concentrations of trichloroethene (TCE, 6.3 µg/L, guidance level 5 µg/L), cis-1,2-dichloroethene (cis-1,2-DCE, 14 µg/L, guidance level 5 µg/L), trans-1,2-dichloroethene (trans-1,2-DCE, 22 µg/L, guidance level 5 µg/L), 1,1 dichloroethane (1,1-DCE, 5.7 µg/L, guidance level 5 µg/L) and vinyl chloride (VC, 4.3 µg/L, guidance level 2 µg/L) were detected at HMW-8. A slightly elevated concentration of 1,1,2-trichloroethane was detected at HMW-10R (1,1,2-TCA, 1.6 µg/L, guidance level 1 µg/L). No TCE, trans-1,2-DCE, cis-1,2-DCE, 1,1-DCE, VC or 1,1,2-TCA were detected in remaining samples in this area.

Post-remediation concentrations of TCE at HMW-8 continue to show a steady decrease compared to both pre-remediation and earlier post-remediation sampling events (pre-remediation peak valued of 46 µg/L). Slight increases in cis-1,2-DCE, trans-1,2-DCE and VC concentrations at HMW-8 are consistent with TCE dechlorination and resulting decreased TCE levels. The low-level exceedance of 1,1,2-TCA at HMW-10R marks the first time this compound has been seen in any wells.

Benzene and Related Compounds

An elevated concentration of benzene (1.3 µg/L) was detected at HMW-8 (benzene was non-detect at all remaining wells). Trace to low-level concentrations of isopropyl benzene and n-propylbenzene (guidance level 5 µg/L for both compounds) were detected at HMW-7R, HMW-9R and HMW-10R (isopropyl benzene and n-propylbenzene were non-detect at all remaining wells in this area).

The current benzene concentration at HMW-8 matches the initial pre-remediation concentration reported in July 2014 and represents an increase over previous post-remediation sampling events (average concentration approximately 0.8 µg/L). Post-remediation concentrations of isopropyl benzene and n-propylbenzene at HMW-7R continue to show a decreasing trend, have remained consistently low at HMW-8, HMW-9R and HMW-10R, and are now non-detect at HMW-14 after having spiked to slightly elevated concentrations in July 2015.

Other VOCs

Trace concentrations of several other VOCs were detected in remaining samples. Generally, trace concentrations remained relatively consistent in all wells compared to pre-remediation conditions.

DATA USABILITY REPORT

A Data Usability Report (DUSR, Attachment E) was prepared by ZDataReports in August 2015 for the laboratory data generated in July 2015, in accordance with the SMP and NYSDEC DER-10. All data were determined to be usable for qualitative and quantitative purposes.

Laboratory data for the January 2016 sampling event will be submitted to ZDataReports once ASP-B data packages from the laboratory become available for the generation of a DUSR. The DUSR will be submitted in the following Letter Report.



J. Candiloro
March 9, 2016
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CONCLUSIONS

No measurable LNAPL was observed at any of the wells during the January 2016 groundwater monitoring activities. Strong field evidence of petroleum contamination (i.e. odors, sheen and PID readings) was observed in monitoring wells HMW-7R and HMW-10R; laboratory results, however, document only a single petroleum compound (benzene) at concentrations above guidance levels. These findings support the conclusion that remaining petroleum contamination in on-site soils and groundwater is highly degraded.

Low-level exceedances of groundwater standards for several chlorinated solvents continue to be present at HMW-8 (TCE and its breakdown products) and HWM-13 (chlorobenzene). Current data suggest that TCE is naturally degrading in situ; chlorobenzene concentrations, however, appear to be relatively stable.

It is the opinion of ESI that residual petroleum and solvent contamination does not warrant in-situ treatment at this time, based on the absence of LNAPL and only low-level concentrations of VOCs in on-site groundwater.

A sub-slab depressurization system (SSDS) is anticipated for any building erected on-site during future development activities to prevent exposure to any soil-gas intrusion from remaining contamination. Soil-gas sampling is anticipated in locations where the proposed residential buildings will be erected to determine the need and extent of the SSDS as per the requirements of the SMP.

Groundwater monitoring will be conducted on an annual basis for the third year of post-remediation monitoring as indicated in the SMP. The next annual sampling event is anticipated in July 2016.

Should you have any questions with regard to this Letter Report, do not hesitate to contact me.

Sincerely,

ECOSYSTEMS STRATEGIES, INC.

A handwritten signature in black ink, appearing to read "Paul H. Ciminello".

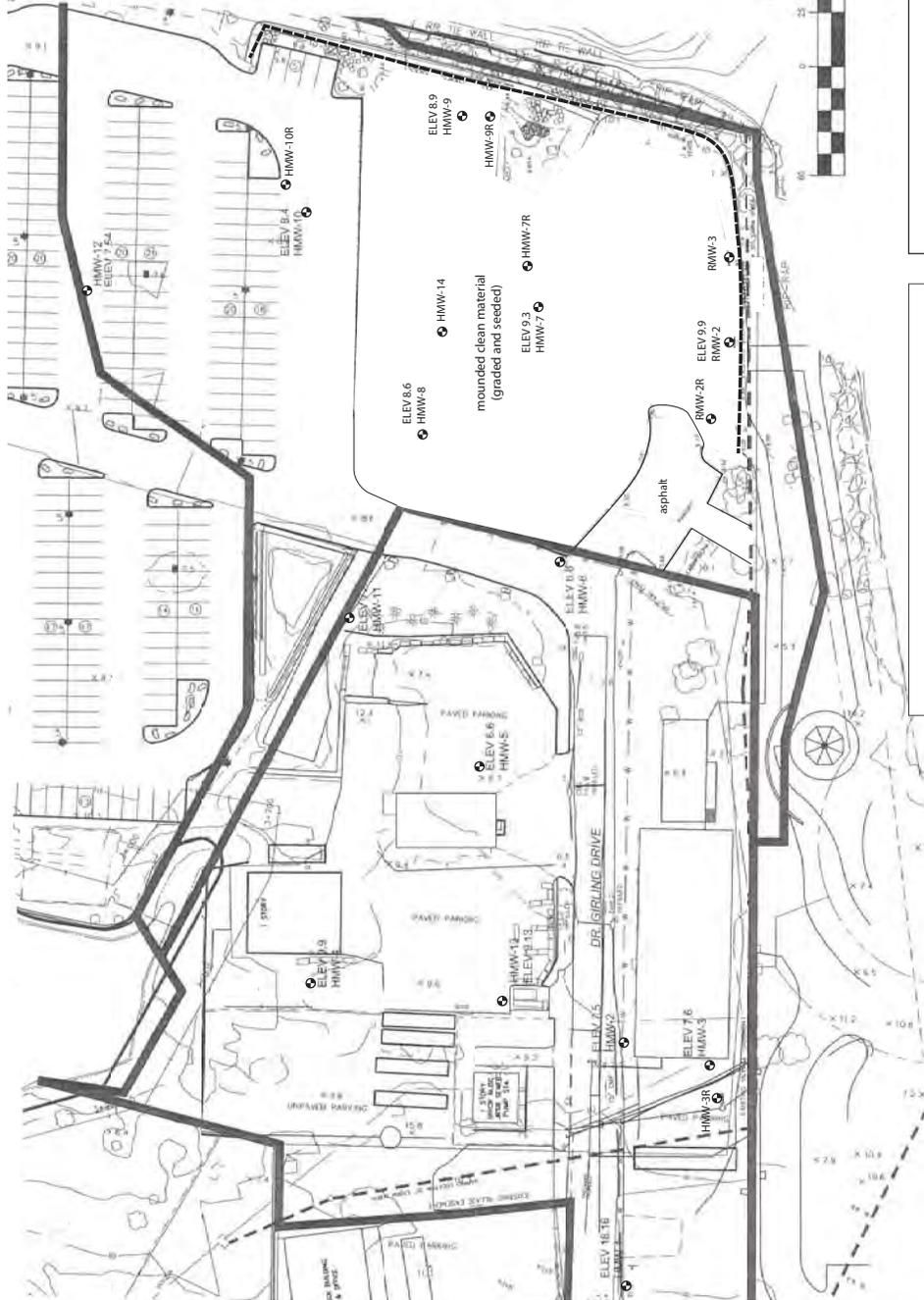
Paul H. Ciminello
President

Attachments:

- Attachment A – Figure 1: Monitoring Well Locations
- Attachment B – Well Sampling Logs
- Attachment C – Data Summary Tables
- Attachment D – Laboratory Results
- Attachment E – DUSR

cc: J. Dennis, P.E., MA
R. Andujar-McNeil, ESI
J. Dziegelewski, GDC
M. Ginsburg, GDC

JDennis@MorrisEngineers.com
rosaura@ecosystemsstrategies.com
jdziegelewski@gdcllc.com
Mginsburg@gdcllc.com



Note:
 The following wells have been destroyed:
 HMW-2, HMW-3, HMW-4, HMW-7, HMW-9, HMW-10, HMW-11,
 RMW-2, RMW-2R and RMW-3.



Legend:

- subject property border
- ⊙ monitoring well location
- asphalt walkway

Figure 1: Monitoring Well Locations

Haverstraw Harbors Site - BCP Site ID C344060
 Dr. George W. Griffling Drive
 Village of Haverstraw
 Rockland County, New York

ESI File: GH9864.50
 Scale as shown
 May 2015
 Attachment A

Base map provided by Morris Associates Engineering Consultants, PLLC - Figure 6 - Monitoring Well Locations dated 10/4/2013. All feature locations are approximate. This map is intended as a schematic to be used in conjunction with the associated report, and it should not be relied upon as a survey for planning or other activities.

GROUNDWATER MONITORING WELL SAMPLING FIELD LOG

Haverstraw Harbors Site (NYSDEC Site ID: C344060)

51 Dr. Girling Drive, Village of Haverstraw, Rockland County, New York

13

Date: January 14, 2016

Field Personnel: R. Andujar-McNeil and F. Sipowitz

Monitoring Well No.: HAW-3R

PID Reading: 0.0 ppm

Depth to well water: 43.0 ft

Depth to well bottom: 51.3 ft

Purging Device (pump type): peristaltic

Purged Volume: 2 gallon

Purged Water Characteristics:-

Odor (circle one): slight/moderate/strong

Sheen (circle one): slight/moderate/strong

LNAPL (circle one): Yes/No

LNAPL thickness (in.):

Water Depth below MP ft	Pump Dial	Purge Rate ml/min	Cum. Volume Purged liters	Temp °C	Spec. Cond.2 us/CM	pH	ORP ³ mv	DO mg/L	Turbidity NTU	Comments
	<u>4.10</u>			<u>10.73</u>	<u>2.71</u>	<u>6.68</u>	<u>-73</u>	<u>1.17</u>	<u>35.7</u>	
				<u>10.68</u>	<u>2.69</u>	<u>6.69</u>	<u>-76</u>	<u>1.05</u>	<u>25.5</u>	
				<u>10.82</u>	<u>2.64</u>	<u>6.70</u>	<u>-76</u>	<u>0.98</u>	<u>21.6</u>	
				<u>10.74</u>	<u>2.60</u>	<u>6.70</u>	<u>-77</u>	<u>0.90</u>	<u>17.6</u>	
				<u>10.77</u>	<u>2.55</u>	<u>6.71</u>	<u>-74</u>	<u>6.82</u>	<u>12.9</u>	
				<u>10.70</u>	<u>2.53</u>	<u>6.73</u>	<u>-80</u>	<u>0.79</u>	<u>11.5</u>	

Stabilization Criteria

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. uSiemens per cm (same as umhos/cm) at 25°C
3. Oxidation reduction potential (ORP)

Collected @ 9:38

1 of 2



GROUNDWATER MONITORING WELL SAMPLING FIELD LOG

Haverstraw Harbors Site (NYSDEC Site ID: C344060)

51 Dr. Girling Drive, Village of Haverstraw, Rockland County, New York

Date: January 12, 2016

Field Personnel: R. Andujar-McNeil and F. Sipowitz

Monitoring Well No.: 11-22

PID Reading: 0.0 ppm

Depth to well water: 3.24 ft

Depth to well bottom: _____ ft.

Purging Device (pump type): peristaltic

Purged Volume: 2.5 gallon

Purged Water Characteristics:-

Sheen (circle one): slight / moderate / strong

LNAPL (circle one): Yes / No

LNAPL thickness (in.): _____

Clock Time 24 hr	Water Depth below MP ft	Pump Dial	Purge Rate ml/min	Cum. Volume Purged liters	Temp °C	Spec. Cond.2 µS/CM	pH	ORP ³ mv	DO mg/L	Turbidity NTU	Comments
10:52		4.30			8.26	9.6	6.40	-99	0.00	0.95	Started pumping @ 10:45
10:55					8.56	9.39	6.45	-115	0.0	0.90	Connected to 11m6 @ 10:10
10:58					8.62	9.30	6.80	-124	0.0	0.87	
11:01					8.64	9.19	6.96	-130	0.0	0.57	
11:04					8.63	9.49	6.43	-131	0.0	0.61	
11:07					7.99	14.0	6.37	-180	0.0	0.57	
11:10					7.99	14.6	6.35	-133	0.0	0.48	
11:13					8.40	33.4	6.40	-139	0.0	0.55	
11:16					8.56	33.2	6.61	-152	0.0	0.42	
11:19					8.72	34.4	6.59	-152	0.0	0.48	

Stabilization Criteria

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. uSiemens per cm (same as umhos/cm) at 25°C
3. Oxidation reduction potential (ORP)

3% +0.1 +10mv 10% 10%

11-22

GROUNDWATER MONITORING WELL SAMPLING FIELD LOG

Haverstraw Harbors Site (NYSDEC Site ID: C344060)

51 Dr. Girling Drive, Village of Haverstraw, Rockland County, New York

Date: January 12, 2016

Field Personnel: R. Andujar-McNeil and F. Sipowitz

Monitoring Well No.: HMW-7R

PID Reading: 24.8 ppm

Depth to water: 10.9R ft.

Depth to well bottom: _____ ft.

Purging Device (pump type): Geopump / penstatoric

Purged Volume: 2 gallon

Purged Water Characteristics:

Sheen (circle one): slight/moderate/strong

LNAPL (circle one): Yes/No

LNAPL thickness (in.):

Clock Time 24 hr	Water Depth below MP ft	Pump Dial	Purge Rate ml/min	Cum. Volume Purged liters	Temp °C	Spec. Cond.2 uS/CM	pH	ORP ³ mv	DO mg/L	Turbidity NTU	Comments
12:21		4.33			10.08	5.21	6.17	-109	0.10	3.12	Started pumping @ 12:12
12:24					10.54	4.87	6.19	-117	0.0	1.8	Connected to
12:27					10.68	4.72	6.12	-120	0.0	1.66	
12:30					10.77	4.62	6.14	-122	0.0	1.23	
12:33					10.86	4.58	6.11	-124	0.0	1.53	
12:36					10.86	4.81	6.10	-126	0.0	1.79	
12:39					10.83	4.47	6.10	-127	0.0	1.26	
12:42					10.77	4.42	6.09	-128	0.0	1.09	
12:45					10.74	4.39	6.09	-129	0.0	1.52	Collected sample @ 12:48

Stabilization Criteria

1. Pump dial setting (for example: hertz, cycles/min, etc). 3% +0.1 +10mv 10%
2. uSiemens per cm (same as umhos/cm) at 25°C 3% +0.1 +10mv 10%
3. Oxidation reduction potential (ORP)

Collected additional sample for MS & H88.

GROUNDWATER MONITORING WELL SAMPLING FIELD LOG

Haverstraw Harbors Site (NYSDEC Site ID: C344060)

51 Dr. Girling Drive, Village of Haverstraw, Rockland County, New York

Date: January 12, 2016

Field Personnel: R. Andujar-McNeil and F. Sipowitz

Monitoring Well No.: HMW-8

PID Reading: 2.0 ppm

Depth to well water: 47.0 ft

Depth to well bottom: 137.2 ft

Purging Device (pump type): Geopump/ penstakhc

Purged Volume: 2.5 gallon

Purged Water Characteristics:-

Sheen (circle one): slight/moderate/strong None

LNAPL (circle one): Yes/No No

LNAPL thickness (in.):

Clock Time 24 hr	Water Depth below MP ft	Pump Dial	Purge Rate ml/min	Cum. Volume Purged liters	Temp °C	Spec. Cond.2 uS/CM	pH	ORP ³ mv	DO mg/L	Turbidity NTU	Comments
11:20		4.25									
11:59					11.47	2.08	9.25	-155	0.43	7.84	
12:02					11.44	2.06	9.27	-169	0.23	7.74	
12:05					11.44	2.05	9.27	-178	0.16	7.87	
12:08					11.68	2.02	9.25	-183	0.12	8.15	
12:11		4.01			11.26	2.01	9.25	-184	0.09	8.12	
12:14					11.16	1.99	9.24	-186	0.07	8.79	
12:17					10.93	2.01	9.24	-187	0.06	9.01	
12:20					11.10	1.98	9.25	-189	0.06	9.10	

Stabilization Criteria

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. uSiemens per cm (same as umhos/cm) at 25°C
3. Oxidation reduction potential (ORP)

Collected @ 12:22

START

GROUNDWATER MONITORING WELL SAMPLING FIELD LOG

Haverstraw Harbors Site (NYSDEC Site ID: C344060)

51 Dr. Girling Drive, Village of Haverstraw, Rockland County, New York

Date: January 12, 2016

Field Personnel: R. Andujar-McNeil and F. Sipowitz

Monitoring Well No.: ~~H102-910~~

PID Reading: ppm

PID Malfunctioned

Purged Water Characteristics:-

Odor (circle one): slight/moderate/strong; Sheen (circle one): slight/moderate/strong

Depth to well water: 6.43 ft

Depth to well bottom: ft.

Purging Device (pump type): Geopump/peristaltic

Purged Volume: 2 gallon

LNAPL (circle one): Yes/NO

LNAPL thickness (in.): 1.2

Clock Time 24 hr	Water Depth below MP ft	Pump Dial	Purge Rate ml/min	Cum. Volume Purged liters	Temp °C	Spec. Cond.2 @5/CM	pH	ORP ³ mv	DO mg/L	Turbidity NTU	Comments
13:27		4.38			9.52	1.48	6.49	-82	0.02	25.6	Started pumping @ 13:18
13:30					10.15	1.48	6.15	-73	0.0	24.7	
13:33					9.83	1.52	6.18	-74	0.0	15.0	
13:36					9.88	1.57	6.18	-76	0.0	13.7	
13:39					9.69	1.63	6.22	-79	0.0	13.3	
13:42					9.62	1.70	6.24	-84	0.0	11.5	
13:45					9.83	1.74	6.23	-87	0.0	9.71	
13:48					9.96	1.80	6.22	-91	0.0	10.1	
											Collected @ 13:50

Stabilization Criteria

1. Pump dial setting (for example: hertz, cycles/min, etc). 3% +0.1 ✓
2. uSiemens per cm (same as umhos/cm) at 25°C 3% ✓
3. Oxidation reduction potential (ORP) +10mv ✓

GROUNDWATER MONITORING WELL SAMPLING FIELD LOG

Haverstraw Harbors Site (NYSDEC Site ID: C344060)

51 Dr. Girling Drive, Village of Haverstraw, Rockland County, New York

Date: January 12, 2016

Field Personnel: R. Andujar-McNeil and R. Sipowitz

Monitoring Well No.: HAMW-10R

PID Reading: 114.7 ppm

Depth to well water: 5.40 ft

Depth to well bottom: _____ ft.

Purging Device (pump type): Geopump / peristaltic

Purged Volume: 1.5-2 gallon

Purged Water Characteristics:-

Sheen (circle one): slight/moderate/strong *strong*

LNAPL (circle one): Yes/No *No*

LNAPL thickness (in.): _____

Clock Time 24 hr	Water Depth below MP ft	Pump Dial	Purge Rate ml/min	Cum. Volume Purged liters	Temp °C	Spec. Cond.2 uS/CM	pH	ORP ³ mv	DO mg/L	Turbidity NTU	Comments
100											
120					12.37	2.67	6.84	-97	0.62	0.75	
123					12.58	2.67	6.82	-98	0.40	0.52	
126					12.33	2.69	6.82	-100	0.27	0.28	
129					12.50	2.69	6.81	-102	0.20	0.07	
132					12.55	2.71	6.81	-103	0.16	0.29	
135					12.60	2.71	6.82	-104	0.13	0.02	

Stabilization Criteria

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. uSiemens per cm (same as umhos/cm) at 25°C
3. Oxidation reduction potential (ORP)

3% 3% +0.1 +10mv 10% 10%

Collected @ 13:37

sten

GROUNDWATER MONITORING WELL SAMPLING FIELD LOG

Haverstraw Harbors Site (NYSDEC Site ID: C344060)

51 Dr. Girling Drive, Village of Haverstraw, Rockland County, New York

Date: January 12, 2016

Field Personnel: R. Andujar-McNeil and F. Sipowitz

Monitoring Well No.: HA13

PID Reading: 0.0 ppm

Depth to well water: 3.81 ft

Depth to well bottom: _____ ft.

Purging Device (pump type): Geopump/peristaltic

Purged Volume: 3.5 gallon

Purged Water Characteristics:

Odor (circle one): slight/moderate/strong; Sheen (circle one): slight/moderate/strong

LNAPL (circle one): Yes/No

LNAPL thickness (in.):

slight - some 2 rings of sheen

Clock Time 24 hr	Water Depth below MP ft	Pump Dial	Purge Rate ml/min	Cum. Volume Purged liters	Temp °C	Spec. Cond. 2 µS/CM	pH	ORP ³ mv	DO mg/L	Turbidity NTU	Comments
9:28		4.15			8.40	0.746	5.52	3	0.63	7.51	Started to pump @ 9:05
9:31					8.81	0.746	5.56	-11	0.43	6.80	Connected to Horiba 9:19
9:39					8.93	0.749	5.60	-20	0.32	6.70	
9:42		4.21			9.08	0.752	5.63	-29	0.22	5.38	
9:45					9.03	0.762	5.65	-35	0.13	5.09	
9:55					9.17	0.788	5.68	-44	0.06	3.85	
9:58					8.94	0.795	5.70	-48	0.04	4.03	
10:01					9.11	0.794	5.70	-48	0.04	3.32	
10:04					9.28	0.808	5.69	-50	0.01	3.20	
10:07					9.16	0.801	5.70	-52	0.00	3.19	Collected @ 10:09

Stabilization Criteria

3% +0.1 +10mv 10%

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. uSiemens per cm (same as umhos/cm) at 25°C
3. Oxidation reduction potential (ORP)

Duplicate collected from this well
DUP-20160113 (4) 40 ml

Table 1: Post-Remediation - VOCs in Groundwater
NYSDEC BCP Site ID: C344060

All data in µg/L (parts per billion, ppb)													
U= Not Detected at or above indicated value													
Data above AWQS shown in Bold													
Sample ID	Sample Date	HMW-3R (2014-07-22)		HMW-3R (2014-10-07)		HMW-3R (2015-01-15)		HMW-3R (2015-04-06)		HMW-3R (2015-07-14)		HMW-3R (2016-01-13)	
		1		1		1		1		1		1	
Dilution Factor		Result	Qualifier										
VOCs, 8260	AWQS												
1,1,1,2-Tetrachloroethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,1,1-Trichloroethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,1,2,2-Tetrachloroethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,1,2-Trichloro-1,2,2-trifluoroethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,1,2-Trichloroethane	1	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,1-Dichloroethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,1-Dichloroethylene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,1-Dichloropropylene	5	0.5	U	0.5	U	0.5	U	0.5	U	NA		NA	
1,2,3-Trichlorobenzene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,2,3-Trichloropropane	0.04	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,2,4-Trichlorobenzene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,2,4-Trimethylbenzene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,2-Dibromo-3-chloropropane	0.04	0.5	U	0.5	U	0.5	U	2	U	0.2	U	0.2	U
1,2-Dibromoethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,2-Dichlorobenzene	3	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,2-Dichloroethane	0.6	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,2-Dichloropropane	1	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,3,5-Trimethylbenzene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,3-Dichlorobenzene	3	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,3-Dichloropropane	5	0.5	U	0.5	U	0.5	U	0.5	U	NA		NA	U
1,4-Dichlorobenzene	3	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,4-Dioxane	NE	NA		NA		NA		NA		40	U	40	U
2,2-Dichloropropane	5	0.5	U	0.5	U	0.5	U	0.5	U	NA		NA	
2-Butanone	50	0.5	U	0.5	U	0.5	U	2	U	0.21		0.2	U
2-Chlorotoluene	5	0.5	U	0.5	U	0.5	U	0.5	U	NA		NA	
2-Hexanone	50	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
4-Chlorotoluene	5	0.5	U	0.5	U	0.5	U	0.5	U	NA		NA	
4-Methyl-2-pentanone	NA	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Acetone	50	2	U	2	U	2	U	2	U	1	U	1	U
Acrolein	5	NA		NA		NA		NA		0.8	U	0.2	U
Acrylonitrile	5	NA		NA		NA		NA		0.2	U	0.2	U
Benzene	1	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Bromobenzene	5	0.5	U	0.5	U	0.5	U	0.5	U	NA		NA	
Bromochloromethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Bromodichloromethane	50	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Bromoform	50	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Bromomethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Carbon disulfide	NA	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Carbon tetrachloride	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Chlorobenzene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Chloroethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Chloroform	7	0.86		0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Chloromethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
cis-1,2-Dichloroethylene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
cis-1,3-Dichloropropylene	0.4	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Cyclohexane	NE	NA		NA		NA		NA		0.2	U	0.2	U
Dibromochloromethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Dibromomethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Dichlorodifluoromethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Ethyl Benzene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Hexachlorobutadiene	0.5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Isopropylbenzene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Methyl acetate	NE	NA		NA		NA		NA		0.2	U	0.2	U
Methyl tert-butyl ether (MTBE)	10	0.7		1.4		0.76		0.57		1		0.68	
Methylcyclohexane	NE	NA		NA		NA		NA		0.2	U	0.2	U
Methylene chloride	5	2	U	2	U	2	U	4		1	U	1	U
Naphthalene	10	2	U	2	U	2	U	2	U	NA		NA	
n-Butylbenzene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
n-Propylbenzene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
o-Xylene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
p- & m- Xylenes	5	1	U	1	U	1	U	1	U	0.5	U	0.5	U
p-Isopropyltoluene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
sec-Butylbenzene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Styrene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
tert-Butyl alcohol (TBA)	NE	NA		NA		NA		NA		1.8	J	1.8	J
tert-Butylbenzene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Tetrachloroethylene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Toluene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
trans-1,2-Dichloroethylene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
trans-1,3-Dichloropropylene	0.4	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Trichloroethylene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Trichlorofluoromethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Vinyl chloride	2	0.5	U	0.5	U	0.25		0.5	U	0.2	U	0.2	U
Xylenes, Total	5	1.5	U	1.5	U	1.5	U	1.5	U	0.6	U	0.6	U

Detected concentrations
Concentrations above AWQS

Notes: AWQS based on NYSDEC TOGS 1.1.1 (Class GA) NA = not available
 Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

Table 1: Post-Remediation - VOCs in Groundwater
NYSDEC BCP Site ID: C344060

All data in µg/L (parts per billion, ppb)													
U= Not Detected at or above indicated value													
Data above AWQS shown in Bold													
VOCs, 8260	Sample ID	HMW-5											
		(2014-07-22)		(2014-10-07)		(2015-01-15)		(2015-04-06)		(2015-07-14)		(2016-01-13)	
AWQS	Sample Date	1		1		1		1		1		1	
	Dilution Factor	Result	Qualifier										
1,1,1,2-Tetrachloroethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,1,1-Trichloroethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,1,2,2-Tetrachloroethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,1,2-Trichloro-1,2,2-trifluoroethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,1,2-Trichloroethane	1	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,1-Dichloroethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,1-Dichloroethylene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,1-Dichloropropylene	5	0.5	U	0.5	U	0.5	U	0.5	U	NA		NA	
1,2,3-Trichlorobenzene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,2,3-Trichloropropane	0.04	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,2,4-Trichlorobenzene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,2,4-Trimethylbenzene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,2-Dibromo-3-chloropropane	0.04	0.5	U	0.5	U	0.5	U	2	U	0.2	U	0.2	U
1,2-Dibromoethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,2-Dichlorobenzene	3	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,2-Dichloroethane	0.6	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,2-Dichloropropane	1	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,3,5-Trimethylbenzene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,3-Dichlorobenzene	3	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,3-Dichloropropane	5	0.5	U	0.5	U	0.5	U	0.5	U	NA		NA	
1,4-Dichlorobenzene	3	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,4-Dioxane	NE	NA		NA		NA		NA		40	U	40	U
2,2-Dichloropropane	5	0.5	U	0.5	U	0.5	U	0.5	U	NA		NA	
2-Butanone	50	0.5	U	0.5	U	0.5	U	2	U	0.2	U	0.2	U
2-Chlorotoluene	5	0.5	U	0.5	U	0.5	U	0.5	U	NA		NA	
2-Hexanone	50	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
4-Chlorotoluene	5	0.5	U	0.5	U	0.5	U	0.5	U	NA		NA	
4-Methyl-2-pentanone	NA	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Acetone	50	1.3	J,B	2	U	2	U	1.5	J	1.9		2.6	
Acrolein	5	NA		NA		NA		NA		0.2	U	0.2	U
Acrylonitrile	5	NA		NA		NA		NA		0.8	U	0.2	U
Benzene	1	2.7		1.4		0.61		1.1		1.9		1	
Bromobenzene	5	0.5	U	0.5	U	0.5	U	0.5	U	NA		NA	
Bromochloromethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Bromodichloromethane	50	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Bromoform	50	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Bromomethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Carbon disulfide	NA	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Carbon tetrachloride	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Chlorobenzene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Chloroethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Chloroform	7	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Chloromethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
cis-1,2-Dichloroethylene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
cis-1,3-Dichloropropylene	0.4	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Cyclohexane	NE	NA		NA		NA		NA		0.2	U	0.2	U
Dibromochloromethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Dibromomethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Dichlorodifluoromethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Ethyl Benzene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Hexachlorobutadiene	0.5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Isopropylbenzene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Methyl acetate	NE	NA		NA		NA	NA	NA		0.2	U	0.2	U
Methyl tert-butyl ether (MTBE)	10	6.7		2		9.6		9.9		5.3		7.4	
Methylcyclohexane	NE	NA		NA		NA		NA		0.2	U	0.2	U
Methylene chloride	5	2	U	2	U	1.1		4		1	U	1	U
Naphthalene	10	2	U	2	U	2	U	2	U	NA		NA	
n-Butylbenzene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
n-Propylbenzene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
o-Xylene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
p- & m- Xylenes	5	1	U	1	U	1	U	1	U	0.5	U	0.5	U
p-Isopropyltoluene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
sec-Butylbenzene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Styrene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
tert-Butyl alcohol (TBA)	NE	NA		NA		NA		NA		15		15	
tert-Butylbenzene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Tetrachloroethylene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Toluene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
trans-1,2-Dichloroethylene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
trans-1,3-Dichloropropylene	0.4	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Trichloroethylene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Trichlorofluoromethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Vinyl chloride	2	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Xylenes, Total	5	1.5	U	1.5	U	1.5	U	1.5	U	0.6	U	0.6	U

Detected concentrations
Concentrations above AWQS

Notes: AWQS based on NYSDEC TOGS 1.1.1 (Class GA) NA = not available
 Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

Table 1: Post-Remediation - VOCs in Groundwater
NYSDEC BCP Site ID: C344060

All data in µg/L (parts per billion, ppb)													
U= Not Detected at or above indicated value													
Data above AWQS shown in Bold													
Sample ID	Sample Date	HMW-6											
		(2014-07-22)		(2014-10-02)		(2015-01-15)		(2015-04-06)		(2015-07-14)		(2016-01-13)	
Dilution Factor		1		1		1		1		1		1	
VOCs, 8260	AWQS	Result	Qualifier										
1,1,1,2-Tetrachloroethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,1,1-Trichloroethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,1,2,2-Tetrachloroethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,1,2-Trichloro-1,2,2-trifluoroethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,1,2-Trichloroethane	1	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,1-Dichloroethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,1-Dichloroethylene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,1-Dichloropropylene	5	0.5	U	0.5	U	0.5	U	0.5	U	NA		NA	
1,2,3-Trichlorobenzene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,2,3-Trichloropropane	0.04	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,2,4-Trichlorobenzene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,2,4-Trimethylbenzene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,2-Dibromo-3-chloropropane	0.04	0.5	U	0.5	U	0.5	U	2	U	0.2	U	0.2	U
1,2-Dibromoethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,2-Dichlorobenzene	3	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,2-Dichloroethane	0.6	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,2-Dichloropropane	1	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,3,5-Trimethylbenzene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,3-Dichlorobenzene	3	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,3-Dichloropropane	5	0.5	U	0.5	U	0.5	U	0.5	U	NA		NA	
1,4-Dichlorobenzene	3	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
1,4-Dioxane	NE	NA		NA		NA		NA		40	U	40	U
2,2-Dichloropropane	5	0.5	U	0.5	U	0.5	U	0.5	U	NA		NA	
2-Butanone	50	0.5	U	0.5	U	0.5	U	2	U	0.2	U	0.2	U
2-Chlorotoluene	5	0.5	U	0.5	U	0.5	U	0.5	U	NA		NA	
2-Hexanone	50	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
4-Chlorotoluene	5	0.5	U	0.5	U	0.5	U	0.5	U	NA		NA	
4-Methyl-2-pentanone	NA	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Acetone	50	1.4	J,B	1.4		2	U	2	U	1	U	2	J
Acrolein	5	NA		NA		NA		NA		0.8	U	0.2	U
Acrylonitrile	5	NA		NA		NA		NA		0.2	U	0.2	U
Benzene	1	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Bromobenzene	5	0.5	U	0.5	U	0.5	U	0.5	U	NA		NA	
Bromochloromethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Bromodichloromethane	50	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Bromoform	50	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Bromomethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Carbon disulfide	NA	0.5	U	0.5	U	0.22	J	0.5	U	0.2	U	0.2	U
Carbon tetrachloride	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Chlorobenzene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Chloroethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Chloroform	7	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Chloromethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
cis-1,2-Dichloroethylene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
cis-1,3-Dichloropropylene	0.4	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Cyclohexane	NE	NA		NA		NA		NA		0.35	J	0.87	
Dibromochloromethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Dibromomethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Dichlorodifluoromethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Ethyl Benzene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Hexachlorobutadiene	0.5	0.5	U	0.5	U	0.21	B,J	0.5	U	0.2	U	0.2	U
Isopropylbenzene	5	0.5	U	0.21	J	0.34	J	0.5	U	0.2	U	0.3	J
Methyl acetate	NE	NA		NA		NA		NA		0.2	U	0.2	U
Methyl tert-butyl ether (MTBE)	10	1.9		2.7		2.3		0.5	U	1.9		2.8	
Methylcyclohexane	NE	NA		NA		NA		NA		0.2	U	0.2	U
Methylene chloride	5	2	U	2	U	2	U	2	U	1	U	1	U
Naphthalene	10	2	U	2	U	2	U	2	U	NA		NA	
n-Butylbenzene	5	0.5	U	0.5	U	0.39	J,B	0.5	U	0.2	U	0.2	U
n-Propylbenzene	5	0.5	U	0.5	U	0.22	J	0.5	U	0.2	U	0.2	U
o-Xylene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
p- & m- Xylenes	5	1	U	1	U	1	U	1	U	0.5	U	0.5	U
p-Isopropyltoluene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
sec-Butylbenzene	5	0.5	U	0.31	J	0.77		0.5	U	0.2	U	0.68	
Styrene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
tert-Butyl alcohol (TBA)	NE	NA		NA	J	NA		NA		2.9		0.5	U
tert-Butylbenzene	5	0.32	J	0.32	J	0.39	J	0.5	U	0.25	J	0.41	J
Tetrachloroethylene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Toluene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
trans-1,2-Dichloroethylene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
trans-1,3-Dichloropropylene	0.4	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Trichloroethylene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Trichlorofluoromethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Vinyl chloride	2	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U
Xylenes, Total	5	1.5	U	1.5	U	1.5	U	1.5	U	0.6	U	0.6	U

Detected concentrations
Concentrations above AWQS

Notes: AWQS based on NYSDEC TOGS 1.1.1 (Class GA) NA = not available
 Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

Table 1: Post-Remediation - VOCs in Groundwater
NYSDEC BCP Site ID: C344060

All data in µg/L (parts per billion, ppb)													
U= Not Detected at or above indicated value													
Data above AWQS shown in Bold													
VOCs, 8260	Sample ID	HMW-7R		DUP(HMW-7R)									
		(2014-07-22)		(2014-11-05)		(2015-01-15)		(2015-04-06)		(2015-07-14)		(2015-07-14)	
AWQS	Sample Date	1		1		1		2		1		1	
	Dilution Factor	Result	Qualifier										
1,1,1,2-Tetrachloroethane	5	0.5	U	0.5	U	0.5	U	1	U	0.2	U	0.2	U
1,1,1-Trichloroethane	5	0.5	U	0.5	U	0.5	U	1	U	0.2	U	0.2	U
1,1,2,2-Tetrachloroethane	5	0.5	U	0.5	U	0.5	U	1	U	0.2	U	0.2	U
1,1,2-Trichloro-1,2,2-trifluoroethane	5	0.5	U	0.5	U	0.5	U	1	U	0.2	U	0.2	U
1,1,2-Trichloroethane	1	0.5	U	0.5	U	0.5	U	1	U	0.2	U	0.2	U
1,1-Dichloroethane	5	0.5	U	0.5	U	0.5	U	1	U	0.2	U	0.2	U
1,1-Dichloroethylene	5	0.5	U	0.5	U	0.5	U	1	U	0.2	U	0.2	U
1,1-Dichloropropylene	5	0.5	U	0.5	U	0.5	U	1	U	NA		NA	
1,2,3-Trichlorobenzene	5	0.5	U	0.5	U	0.5	U	1	U	0.2	U	0.2	U
1,2,3-Trichloropropane	0.04	0.5	U	0.5	U	0.5	U	1	U	0.2	U	0.2	U
1,2,4-Trichlorobenzene	5	0.5	U	0.5	U	0.5	U	1	U	0.2	U	0.2	U
1,2,4-Trimethylbenzene	5	9.5		0.5	U	0.5	U	0.66		0.2	U	0.2	U
1,2-Dibromo-3-chloropropane	0.04	0.5	U	0.5	U	0.5	U	1	U	0.2	U	0.2	U
1,2-Dibromoethane	5	0.5	U	0.5	U	0.5	U	1	U	0.2	U	0.2	U
1,2-Dichlorobenzene	3	0.5	U	0.5	U	0.5	U	1	U	0.2	U	0.2	U
1,2-Dichloroethane	0.6	0.5	U	0.5	U	0.5	U	1	U	0.2	U	0.2	U
1,2-Dichloropropane	1	0.5	U	0.5	U	0.5	U	1	U	0.2	U	0.2	U
1,3,5-Trimethylbenzene	5	0.5	U	0.5	U	0.5	U	1	U	0.2	U	0.2	U
1,3-Dichlorobenzene	3	0.5	U	0.5	U	0.5	U	1	U	0.2	U	0.2	U
1,3-Dichloropropane	5	0.5	U	0.5	U	0.5	U	1	U	NA		NA	
1,4-Dichlorobenzene	3	0.5	U	0.5	U	0.5	U	1	U	0.2	U	0.2	U
1,4-Dioxane	NE	NA		NA		NA		NA		40	U	40	U
2,2-Dichloropropane	5	0.5	U	0.5	U	0.5	U	1	U	NA		NA	
2-Butanone	50	0.5	U	0.5	U	0.5	U	1	U	0.25	J	0.46	J
2-Chlorotoluene	5	0.5	U	0.5	U	0.5	U	1	U	NA		NA	
2-Hexanone	50	0.5	U	0.5	U	0.5	U	1	U	0.2	U	0.2	U
4-Chlorotoluene	5	0.5	U	0.5	U	0.5	U	1	U	NA		NA	
4-Methyl-2-pentanone	NA	0.5	U	0.5	U	0.5	U	1	U	0.2	U	0.2	U
Acetone	50	2.4	B	1.3	E	2	U	3.7	E	3.3		3.5	
Acrolein	5	NA		NA		NA		NA		0.8	U	0.8	U
Acrylonitrile	5	NA		NA		NA		NA		0.2	U	0.2	U
Benzene	1	0.5	U	0.5	U	0.5	U	1	U	0.2	U	0.2	U
Bromobenzene	5	0.5	U	0.5	U	0.5	U	1	U	NA		NA	U
Bromochloromethane	5	0.5	U	0.5	U	0.5	U	1	U	0.2	U	0.2	U
Bromodichloromethane	50	0.5	U	0.5	U	0.5	U	1	U	0.2	U	0.2	U
Bromoform	50	0.5	U	0.5	U	0.5	U	1	U	0.2	U	0.2	U
Bromomethane	5	0.5	U	0.5	U	0.5	U	1	U	0.2	U	0.2	U
Carbon disulfide	NA	0.5	U	0.5	U	0.5	U	1	U	0.2	U	0.2	U
Carbon tetrachloride	5	0.5	U	0.5	U	0.5	U	1	U	0.2	U	0.2	U
Chlorobenzene	5	0.5	U	0.5	U	0.5	U	1	U	0.2	U	0.2	U
Chloroethane	5	0.5	U	0.5	U	0.5	U	1	U	0.2	U	0.2	U
Chloroform	7	0.5	U	0.5	U	0.5	U	1	U	0.2	U	0.2	U
Chloromethane	5	0.5	U	0.5	U	0.5	U	1	U	0.2	U	0.2	U
cis-1,2-Dichloroethylene	5	0.5	U	0.5	U	0.5	U	1	U	0.2	U	0.2	U
cis-1,3-Dichloropropylene	0.4	0.5	U	0.5	U	0.5	U	1	U	0.2	U	0.2	U
Cyclohexane	NE	NA		NA		NA		NA		7.2		7.4	
Dibromochloromethane	5	0.5	U	0.5	U	0.5	U	1	U	0.2	U	ND	U
Dibromomethane	5	0.5	U	0.5	U	0.5	U	1	U	0.2	U	ND	U
Dichlorodifluoromethane	5	0.5	U	0.5	U	0.5	U	1	U	0.33	J	0.3	J
Ethyl Benzene	5	0.5	U	0.5	U	0.5	U	1.2	B	0.2	U	0.2	U
Hexachlorobutadiene	0.5	0.5	U	0.5	U	0.5	U	1	U	0.2	U	0.2	U
Isopropylbenzene	5	15		4.8		2.2		1.8		0.63		0.62	
Methyl acetate	NE	NA		NA		NA		NA		0.2	U	0.2	U
Methyl tert-butyl ether (MTBE)	10	4.5		7.5		8.3		5.9		8.6		8.7	
Methylcyclohexane	NE	NA		NA		NA		NA		2		2	
Methylene chloride	5	2	U	2	U	2	U	4	U	1	U	1	U
Naphthalene	10	2	U	2	U	2	U	4	U	NA		NA	
n-Butylbenzene	5	4.6		2.1		1.1	B	0.6	J,B	0.38	J	0.4	J
n-Propylbenzene	5	20		6.7		2.5		1.7	B	0.48	J	0.45	J
o-Xylene	5	0.5	U	0.26	J	0.28	J	0.7	J,B	0.28	J	0.28	J
p- & m- Xylenes	5	1	U	1	U	1	U	2.9	B	0.5	U	0.5	U
p-Isopropyltoluene	5	4.2		0.5	U	0.5	U	1	U	3.5		3.5	
sec-Butylbenzene	5	0.5	U	3		1.8		1.2	B	0.84		0.81	
Styrene	5	0.5	U	0.5	U	0.5	U	1	U	0.2	U	0.2	U
tert-Butyl alcohol (TBA)	NE	NA		NA		NA		NA		14		15	
tert-Butylbenzene	5	4.4		3		3.7		2.9	B	4.3		4.3	
Tetrachloroethylene	5	0.5	U	0.5	U	0.5	U	1	U	0.2	U	0.2	U
Toluene	5	0.27	J	0.5	U	0.5	U	0.4	J,B	0.2	U	0.2	U
trans-1,2-Dichloroethylene	5	0.5	U	0.5	U	0.5	U	1	U	0.2	U	0.2	U
trans-1,3-Dichloropropylene	0.4	0.5	U	0.5	U	0.5	U	1	U	0.2	U	0.2	U
Trichloroethylene	5	0.5	U	0.5	U	0.5	U	1	U	0.2	U	0.2	U
Trichlorofluoromethane	5	0.5	U	0.5	U	0.5	U	1	U	0.2	U	0.2	U
Vinyl chloride	2	0.5	U	0.5	U	0.5	U	1	U	0.2	U	0.2	U
Xylenes, Total	5	1.5	U	1.5	U	1.5	U	3.6	B	0.6	U	0.6	U

Detected concentrations
Concentrations above AWQS

Notes: AWQS based on NYSDEC TOGS 1.1.1 (Class GA) NA = not available
 Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

Table 1: Post-Remediation - VOCs in Groundwater
NYSDEC BCP Site ID: C344060

All data in µg/L (parts per billion, ppb)													
VOCs, 8260	Sample ID Sample Date Dilution Factor	HMW-7R (2016-01-13)		HMW-08 (2014-07-22)		HMW-08 (2014-10-07)		DUP(HMW-08) (2014-10-07)		HMW-08 (2015-01-15)		HMW-08 (2015-04-06)	
		1		1		1		1		1		1	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1,2-Tetrachloroethane	5	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,1-Trichloroethane	5	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2,2-Tetrachloroethane	5	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2-Trichloro-1,2,2-trifluoroethane	5	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2-Trichloroethane	1	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethane	5	0.2	U	1.6		0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethylene	5	0.2	U	0.34	J	0.27	J	0.22	CCV-E, J	0.5	U	0.22	J
1,1-Dichloropropylene	5	NA		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2,3-Trichlorobenzene	5	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2,3-Trichloropropane	0.04	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2,4-Trichlorobenzene	5	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2,4-Trimethylbenzene	5	0.2	U	0.41	J	0.5	U	0.5	U	0.5	U	0.53	B
1,2-Dibromo-3-chloropropane	0.04	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dibromoethane	5	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichlorobenzene	3	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichloroethane	0.6	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichloropropane	1	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,3,5-Trimethylbenzene	5	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,3-Dichlorobenzene	3	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,3-Dichloropropane	5	NA		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,4-Dichlorobenzene	3	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,4-Dioxane	NE	40	U	NA		NA		NA		NA		NA	
2,2-Dichloropropane	5	NA		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
2-Butanone	50	0.2	U	1.3		0.5	U	0.5	U	0.5	U	0.5	U
2-Chlorotoluene	5	NA		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
2-Hexanone	50	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
4-Chlorotoluene	5	NA		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
4-Methyl-2-pentanone	NA	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Acetone	50	2.8		2.1	B	2	U	2	U	2	U	2.3	CCV-E, CALE
Acrolein	5	0.2	U	NA		NA		NA		NA		NA	
Acrylonitrile	5	0.2	U	NA		NA		NA		NA		NA	
Benzene	1	0.2	U	1.3		0.85		0.75		0.74		0.72	
Bromobenzene	5	NA		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromochloromethane	5	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromodichloromethane	50	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromoform	50	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromomethane	5	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Carbon disulfide	NA	0.2	U	0.3	J	0.5	U	0.5	U	0.49	J	0.5	U
Carbon tetrachloride	5	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chlorobenzene	5	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chloroethane	5	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chloroform	7	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chloromethane	5	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
cis-1,2-Dichloroethylene	5	0.2	U	6.1		4.2		3.9	CCV-E	3.8		4.4	
cis-1,3-Dichloropropylene	0.4	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Cyclohexane	NE	6.2		NA		NA		NA		NA		NA	
Dibromochloromethane	5	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Dibromomethane	5	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Dichlorodifluoromethane	5	1.9		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Ethyl Benzene	5	0.2	U	0.38	J	0.5	U	0.5	U	0.5	U	0.74	B
Hexachlorobutadiene	0.5	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Isopropylbenzene	5	3.4		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Methyl acetate	NE	0.2	U	NA		NA		NA		NA		NA	
Methyl tert-butyl ether (MTBE)	10	6.8		0.23	J	0.47	J	0.44	CCV-E, J	0.76		0.4	J
Methylcyclohexane	NE	1.2		NA		NA		NA		NA		NA	
Methylene chloride	5	1	U	2	U	2	U	2	U	4.4		2	U
Naphthalene	10	NA		2	U	2	U	2	U	2	U	2	U
n-Butylbenzene	5	1.1		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
n-Propylbenzene	5	2.8		0.5	U	0.5	U	0.5	U	0.5	U	0.22	J, B
o-Xylene	5	0.25	J	0.5	U	0.5	U	0.5	U	0.5	U	0.36	J, B
p- & m- Xylenes	5	0.5	U	0.65	J	1	U	1	U	1	U	1.6	B
p-Isopropyltoluene	5	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
sec-Butylbenzene	5	2		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Styrene	5	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
tert-Butyl alcohol (TBA)	NE	12		NA		NA		NA		NA		NA	
tert-Butylbenzene	5	4.8		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Tetrachloroethylene	5	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Toluene	5	0.2	U	0.26	J	0.5	U	0.5	U	0.5	U	0.24	J, B
trans-1,2-Dichloroethylene	5	0.2	U	6.2		3.1		3		3.1		7.4	
trans-1,3-Dichloropropylene	0.4	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichloroethylene	5	0.2	U	23		16		15		12		11	
Trichlorofluoromethane	5	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Vinyl chloride	2	0.2	U	0.5	U	1		0.87		0.85		1	
Xylenes, Total	5	0.6	U	0.65	J	1.5	U	1.5	U	1.5	U	2	B

Detected concentrations
Concentrations above AWQS

Notes: AWQS based on NYSDEC TOGS 1.1.1 (Class GA) NA = not available
 Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

Table 1: Post-Remediation - VOCs in Groundwater
NYSDEC BCP Site ID: C344060

All data in µg/L (parts per billion, ppb)													
U= Not Detected at or above indicated value													
Data above AWQS shown in Bold													
VOCs, 8260	Sample ID	HMW-08 (2015-07-14)		HMW-08 (2016-01-13)		HMW-9R (2014-07-22)		HMW-9R (2014-10-07)		HMW-9R (2015-01-15)		HMW-9R (2015-04-06)	
		Dilution Factor		1		1		1		1		1	
AWQS	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	
1,1,1,2-Tetrachloroethane	5	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,1-Trichloroethane	5	0.2	U	0.42	J	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2,2-Tetrachloroethane	5	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2-Trichloro-1,2,2-trifluoroethane	5	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2-Trichloroethane	1	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethane	5	0.2	U	5.7		0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethylene	5	0.36	J	0.35	J	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloropropylene	5	NA		NA		0.5	U	0.5	U	0.5	U	0.5	U
1,2,3-Trichlorobenzene	5	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2,3-Trichloropropane	0.04	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2,4-Trichlorobenzene	5	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2,4-Trimethylbenzene	5	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dibromo-3-chloropropane	0.04	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U	2	U
1,2-Dibromoethane	5	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichlorobenzene	3	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichloroethane	0.6	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichloropropane	1	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U
1,3,5-Trimethylbenzene	5	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U
1,3-Dichlorobenzene	3	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U
1,3-Dichloropropane	5	NA		NA		0.5	U	0.5	U	0.5	U	0.5	U
1,4-Dichlorobenzene	3	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U
1,4-Dioxane	NE	40	U	40	U	NA		NA	U	NA		NA	
2,2-Dichloropropane	5	NA		NA		0.5	U	0.5	U	0.5	U	0.5	U
2-Butanone	50	0.2	U	0.81	J	0.5	U	0.5	U	0.5	U	2	U
2-Chlorotoluene	5	NA		NA		0.5	U	0.5	U	0.5	U	0.5	U
2-Hexanone	50	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U
4-Chlorotoluene	5	NA		NA		0.5	U	0.5	U	0.5	U	0.5	U
4-Methyl-2-pentanone	NA	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U
Acetone	50	1.6	J	2		1.1	J,B	1.4		2	U	2	U
Acrolein	5	0.8	U	0.2	U	NA		NA		NA		NA	
Acrylonitrile	5	0.2	U	0.2	U	NA		NA		NA		NA	
Benzene	1	0.89		1.3		0.35	J,B	0.5	U	0.5	U	0.5	U
Bromobenzene	5	NA		NA		0.5	U	0.5	U	0.5	U	0.5	U
Bromochloromethane	5	0.2	U	0.83		0.5	U	0.5	U	0.5	U	0.5	U
Bromodichloromethane	50	0.2	U	0.23	J	0.5	U	0.5	U	0.5	U	0.5	U
Bromoform	50	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromomethane	5	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U
Carbon disulfide	NA	0.2	U	0.33	J,B	0.5	U	0.5	U	0.5	U	0.5	U
Carbon tetrachloride	5	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U
Chlorobenzene	5	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U
Chloroethane	5	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U
Chloroform	7	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U
Chloromethane	5	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U
cis-1,2-Dichloroethylene	5	7		14		0.5	U	0.5	U	0.5	U	0.5	U
cis-1,3-Dichloropropylene	0.4	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U
Cyclohexane	NE	0.34	J	0.49	J	NA	U	NA	U	NA	U	NA	U
Dibromochloromethane	5	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U
Dibromomethane	5	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U
Dichlorodifluoromethane	5	0.2	U	0.74		0.5	U	0.5	U	0.5	U	0.5	U
Ethyl Benzene	5	0.2	U	0.3	J	0.5	U	0.5	U	0.5	U	0.5	U
Hexachlorobutadiene	0.5	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U
Isopropylbenzene	5	0.2	U	0.2	U	0.43	J	0.86		0.74		0.73	
Methyl acetate	NE	0.2	U	2		NA		NA		NA		NA	
Methyl tert-butyl ether (MTBE)	10	0.72	U	1.2		0.9		0.75		1.1		0.59	
Methylcyclohexane	NE	0.2	U	0.2	U	NA		NA		NA		NA	
Methylene chloride	5	1	U	1	U	2	U	2	U	2	U	2.9	
Naphthalene	10	NA		NA		2	U	2	U	2	U	1.1	CCV-E, CAL-E, J
n-Butylbenzene	5	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U
n-Propylbenzene	5	0.2	U	0.2	U	0.5	U	0.33	J	0.25	J	0.5	U
o-Xylene	5	0.47	J	0.2	U	0.4	J	0.29	J	0.25	J	0.5	U
p- & m- Xylenes	5	0.5	U	0.5	U	1	U	1	U	1	U	1	U
p-Isopropyltoluene	5	0.2	U	0.2	U	3.6		0.5	U	0.5	U	0.5	U
sec-Butylbenzene	5	0.2	U	0.2	U	0.5	U	0.59		0.88		0.58	
Styrene	5	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U
tert-Butyl alcohol (TBA)	NE	1.6	J	1.7	J	NA		NA		NA		NA	
tert-Butylbenzene	5	0.2	U	0.2	U	0.5	U	2.8		2.9		1.4	
Tetrachloroethylene	5	0.2	U	0.2	U	0.5	U	0.5		0.5	U	0.5	U
Toluene	5	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U
trans-1,2-Dichloroethylene	5	11		22		0.5	U	0.5	U	0.5	U	0.5	U
trans-1,3-Dichloropropylene	0.4	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichloroethylene	5	9.5		6.3		0.5	U	0.5	U	0.5	U	0.5	U
Trichlorofluoromethane	5	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U	0.5	U
Vinyl chloride	2	1.3		4.3		0.5	U	0.5	U	0.5	U	0.5	U
Xylenes, Total	5	0.79	J	0.6	U	1.5	U	1.5	U	1.5	U	1.5	U

Detected concentrations
Concentrations above AWQS

Notes: AWQS based on NYSDEC TOGS 1.1.1 (Class GA) NA = not available
 Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

Table 1: Post-Remediation - VOCs in Groundwater
NYSDEC BCP Site ID: C344060

All data in µg/L (parts per billion, ppb)													
VOCs, 8260	Sample ID Sample Date Dilution Factor	DUP(HMW-9R) (2015-04-06)		HMW-9R (2015-07-14)		HMW-9R (2016-01-13)		HMW-10R (2014-07-22)		HMW-10R (2014-10-07)		HMW-10R (2015-01-15)	
		1		1		1		1		1		1	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1,2-Tetrachloroethane	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
1,1,1-Trichloroethane	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
1,1,2,2-Tetrachloroethane	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
1,1,2-Trichloro-1,2,2-trifluoroethane	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
1,1,2-Trichloroethane	1	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethane	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethylene	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
1,1-Dichloropropylene	5	0.5	U	NA		NA		0.5	U	0.5	U	0.5	U
1,2,3-Trichlorobenzene	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
1,2,3-Trichloropropane	0.04	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
1,2,4-Trichlorobenzene	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
1,2,4-Trimethylbenzene	5	0.5	U	0.2	U	0.2	U	4.6		0.5	U	0.5	U
1,2-Dibromo-3-chloropropane	0.04	2	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
1,2-Dibromoethane	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
1,2-Dichlorobenzene	3	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
1,2-Dichloroethane	0.6	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
1,2-Dichloropropane	1	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
1,3,5-Trimethylbenzene	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
1,3-Dichlorobenzene	3	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
1,3-Dichloropropane	5	0.5	U	NA		NA		0.5	U	0.5	U	0.5	U
1,4-Dichlorobenzene	3	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
1,4-Dioxane	NE	NA		40	U	40	U	NA		NA		NA	
2,2-Dichloropropane	5	0.5	U	NA		NA		0.5	U	0.5	U	0.5	U
2-Butanone	50	2	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
2-Chlorotoluene	5	0.5	U	NA		NA		0.5	U	0.5	U	0.38	J
2-Hexanone	50	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
4-Chlorotoluene	5	0.5	U	NA		NA		0.5	U	0.5	U	0.5	U
4-Methyl-2-pentanone	NA	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Acetone	50	2.1	CAL-E, B	2.5		2.4	B	1.6	J, B	2	U	2	U
Acrolein	5	NA		0.8	U	0.2	U	NA		NA		NA	
Acrylonitrile	5	NA		0.2	U	0.2	U	NA		NA		NA	
Benzene	1	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Bromobenzene	5	0.5	U	NA		NA		0.5	U	0.5	U	0.5	U
Bromochloromethane	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Bromodichloromethane	50	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Bromoform	50	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Bromomethane	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Carbon disulfide	NA	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Carbon tetrachloride	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Chlorobenzene	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Chloroethane	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Chloroform	7	0.5	U	0.2	U	0.2	U	0.38	J	0.5	U	0.5	U
Chloromethane	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
cis-1,2-Dichloroethylene	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
cis-1,3-Dichloropropylene	0.4	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Cyclohexane	NE	NA		1.6		1.7		NA		NA		NA	
Dibromochloromethane	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Dibromomethane	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Dichlorodifluoromethane	5	0.5	U	0.2	U	0.84		0.5	U	0.5	U	0.5	U
Ethyl Benzene	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Hexachlorobutadiene	0.5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Isopropylbenzene	5	1.6		1		1		2.8		0.97		0.52	
Methyl acetate	NE	NA		0.2	U	0.2	U	NA		NA		NA	
Methyl tert-butyl ether (MTBE)	10	6.8		0.94		1.5		3		1.6		3	
Methylcyclohexane	NE	NA		0.2	U	0.26	J	NA		NA		NA	
Methylene chloride	5	2	U	1	U	1	U	2	U	2	U	3.1	
Naphthalene	10	2.5	CAL-E	NA		NA		1.6	J	2	U	2	U
n-Butylbenzene	5	0.68		0.2	U	0.2	U	2.2		0.91		0.5	U
n-Propylbenzene	5	1.3		0.36	J	0.48	J	0.5	U	0.45		0.24	J
o-Xylene	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
p- & m- Xylenes	5	0.5	J	0.5	U	0.5	U	1	U	1	U	1	U
p-Isopropyltoluene	5	0.5	U	3.7		0.2	U	2.2		0.5	U	0.5	U
sec-Butylbenzene	5	1.1		0.87		0.73		0.5	U	1.8		0.74	
Styrene	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
tert-Butyl alcohol (TBA)	NE	NA		2.4		3.2		NA		NA		NA	
tert-Butylbenzene	5	2.5		3.8		2.4		2		1.7		0.67	
Tetrachloroethylene	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Toluene	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
trans-1,2-Dichloroethylene	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
trans-1,3-Dichloropropylene	0.4	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Trichloroethylene	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Trichlorofluoromethane	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Vinyl chloride	2	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Xylenes, Total	5	1.5	U	0.6	U	0.6	U	1.5	U	1.5	U	1.5	U

Detected concentrations
Concentrations above AWQS

Notes: AWQS based on NYSDEC TOGS 1.1.1 (Class GA) NA = not available
 Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

Table 1: Post-Remediation - VOCs in Groundwater
NYSDEC BCP Site ID: C344060

All data in µg/L (parts per billion, ppb)													
U= Not Detected at or above indicated value													
Data above AWQS shown in Bold													
VOCs, 8260	Sample ID	HMW-10R (2015-04-06)		HMW-10R (2015-07-14)		HMW-10R (2016-01-13)		HMW-13 (2014-07-22)		HMW-13 (2014-10-07)		HMW-13 (2015-01-15)	
		Dilution Factor		1		1		1		1		1	
AWQS	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	
1,1,1,2-Tetrachloroethane	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
1,1,1-Trichloroethane	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
1,1,2,2-Tetrachloroethane	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
1,1,2-Trichloro-1,2,2-trifluoroethane	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
1,1,2-Trichloroethane	1	0.5	U	0.2	U	1.6		0.5	U	0.5	U	0.5	U
1,1-Dichloroethane	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethylene	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
1,1-Dichloropropylene	5	0.5	U	NA		NA		0.5	U	0.5	U	0.5	U
1,2,3-Trichlorobenzene	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
1,2,3-Trichloropropane	0.04	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
1,2,4-Trichlorobenzene	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
1,2,4-Trimethylbenzene	5	0.4	<i>B,J</i>	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
1,2-Dibromo-3-chloropropane	0.04	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
1,2-Dibromoethane	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
1,2-Dichlorobenzene	3	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
1,2-Dichloroethane	0.6	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
1,2-Dichloropropane	1	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
1,3,5-Trimethylbenzene	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
1,3-Dichlorobenzene	3	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
1,3-Dichloropropane	5	0.5	U	NA		NA		0.5	U	0.5	U	0.5	U
1,4-Dichlorobenzene	3	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
1,4-Dioxane	NE	NA		40	U	40	U	NA		NA		NA	
2,2-Dichloropropane	5	0.5	U	NA		NA		0.5	U	0.5	U	0.5	U
2-Butanone	50	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
2-Chlorotoluene	5	0.5	U	NA		NA		0.5	U	0.5	U	0.5	U
2-Hexanone	50	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
4-Chlorotoluene	5	0.5	U	NA		NA		0.5	U	0.5	U	0.5	U
4-Methyl-2-pentanone	NA	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Acetone	50	1.7	<i>DC,E,GA,E,J</i>	1.8	<i>J</i>	1.5	<i>JB</i>	2	<i>U</i>	2	<i>U</i>	2.7	
Acrolein	5	NA		0.8	U	0.2	U	NA		NA		NA	
Acrylonitrile	5	NA		0.2	U	0.2	U	NA		NA		NA	
Benzene	1	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Bromobenzene	5	0.5	U	NA		NA		0.5	U	0.5	U	0.5	U
Bromochloromethane	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Bromodichloromethane	50	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Bromoform	50	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Bromomethane	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Carbon disulfide	NA	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Carbon tetrachloride	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Chlorobenzene	5	0.5	U	0.2	U	0.2	U	27		12		7.8	
Chloroethane	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Chloroform	7	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Chloromethane	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
cis-1,2-Dichloroethylene	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
cis-1,3-Dichloropropylene	0.4	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Cyclohexane	NE	NA		1.4		1.7		NA		NA		NA	
Dibromochloromethane	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Dibromomethane	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Dichlorodifluoromethane	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Ethyl Benzene	5	0.65	<i>B</i>	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Hexachlorobutadiene	0.5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Isopropylbenzene	5	1.1		0.48	<i>J</i>	0.68		0.5	U	0.5	U	0.5	U
Methyl acetate	NE	NA		0.2	U	0.2	U	NA		NA		NA	
Methyl tert-butyl ether (MTBE)	10	2.9		2.3		3.5		2.2		3.2		1.5	
Methylcyclohexane	NE	NA		0.2	U	0.99		NA		NA		NA	
Methylene chloride	5	2	<i>U</i>	1	<i>U</i>	1	<i>U</i>	2	<i>U</i>	2	<i>U</i>	3.1	
Naphthalene	10	2	<i>U</i>	NA		NA		2	<i>U</i>	2	<i>U</i>	2	<i>U</i>
n-Butylbenzene	5	0.64	<i>B</i>	0.34	<i>J</i>	0.58		0.5	U	0.5	U	0.5	U
n-Propylbenzene	5	1.3	<i>B</i>	0.64		0.69		0.5	U	0.5	U	0.5	U
o-Xylene	5	0.46	<i>J,B</i>	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
p- & m- Xylenes	5	1.6	<i>B</i>	0.5	U	0.5	U	1	<i>U</i>	1	<i>U</i>	1	<i>U</i>
p-Isopropyltoluene	5	0.5	U	0.66		0.2	U	0.5	U	0.5	U	0.5	U
sec-Butylbenzene	5	1	<i>B</i>	0.6		0.97		0.5	U	0.5	U	0.5	U
Styrene	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
tert-Butyl alcohol (TBA)	NE	NA		3.4		5.8		NA		NA		NA	
tert-Butylbenzene	5	0.97	<i>B</i>	0.83		1.2		0.5	U	0.5	U	0.5	U
Tetrachloroethylene	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Toluene	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
trans-1,2-Dichloroethylene	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
trans-1,3-Dichloropropylene	0.4	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Trichloroethylene	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Trichlorofluoromethane	5	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Vinyl chloride	2	0.5	U	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Xylenes, Total	5	2.1	<i>B</i>	0.6	U	0.6	U	1.5	U	1.5	U	1.5	U

Detected concentrations
Concentrations above AWQS

Notes: AWQS based on NYSDEC TOGS 1.1.1 (Class GA) NA = not available
 Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

Table 1: Post-Remediation - VOCs in Groundwater
NYSDEC BCP Site ID: C344060

All data in µg/L (parts per billion, ppb)													
VOCs, 8260	Sample ID Sample Date Dilution Factor	HMW-13 (2015-04-06)		HMW-13 (2015-07-14)		HMW-13 (2016-01-13)		DUP(HMW-13) (2016-01-13)		HMW-14 (2014-07-22)		HMW-14 (2016-01-13)	
		1		1		1		1		1		1	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1,2-Tetrachloroethane	5	0.5	U	0.2	U	0.2	U	0.2	U	0.5	U	0.5	U
1,1,1-Trichloroethane	5	0.5	U	0.2	U	0.2	U	0.2	U	0.5	U	0.5	U
1,1,2,2-Tetrachloroethane	5	0.5	U	0.2	U	0.2	U	0.2	U	0.5	U	0.5	U
1,1,2-Trichloro-1,2,2-trifluoroethane	5	0.5	U	0.2	U	0.2	U	0.2	U	0.5	U	0.5	U
1,1,2-Trichloroethane	1	0.5	U	0.2	U	0.2	U	0.2	U	0.5	U	0.5	U
1,1-Dichloroethane	5	0.5	U	0.2	U	0.2	U	0.2	U	0.5	U	0.5	U
1,1-Dichloroethylene	5	0.5	U	0.2	U	0.2	U	0.2	U	0.5	U	0.5	U
1,1-Dichloropropylene	5	0.5	U	NA		NA		NA		0.5	U	0.5	U
1,2,3-Trichlorobenzene	5	0.5	U	0.2	U	0.2	U	0.2	U	0.5	U	0.5	U
1,2,3-Trichloropropane	0.04	0.5	U	0.2	U	0.2	U	0.2	U	0.5	U	0.5	U
1,2,4-Trichlorobenzene	5	0.5	U	0.2	U	0.2	U	0.2	U	0.5	U	0.5	U
1,2,4-Trimethylbenzene	5	0.5	U	0.2	U	0.2	U	0.2	U	0.43	J	0.37	J
1,2-Dibromo-3-chloropropane	0.04	2	U	0.2	U	0.2	U	0.2	U	0.5	U	0.5	U
1,2-Dibromoethane	5	0.5	U	0.2	U	0.2	U	0.2	U	0.5	U	0.5	U
1,2-Dichlorobenzene	3	0.5	U	0.2	U	0.2	U	0.2	U	0.5	U	0.5	U
1,2-Dichloroethane	0.6	0.5	U	0.2	U	0.2	U	0.2	U	0.5	U	0.5	U
1,2-Dichloropropane	1	0.5	U	0.2	U	0.2	U	0.2	U	0.5	U	0.5	U
1,3,5-Trimethylbenzene	5	0.5	U	0.2	U	0.2	U	0.2	U	0.3	J	0.24	J
1,3-Dichlorobenzene	3	0.5	U	0.2	U	0.2	U	0.2	U	0.5	U	0.5	U
1,3-Dichloropropane	5	0.5	U	NA		NA		NA		0.5	U	0.5	U
1,4-Dichlorobenzene	3	0.5	U	0.2	U	0.2	U	0.2	U	0.5	U	0.5	U
1,4-Dioxane	NE	NA		40	U	40	U	40	U	NA		NA	
2,2-Dichloropropane	5	0.5	U	NA		NA		NA		0.5	U	0.5	U
2-Butanone	50	2	U	0.2	U	0.2	U	0.2	U	0.64		0.5	U
2-Chlorotoluene	5	0.5	U	NA		NA		NA		0.5	U	0.5	U
2-Hexanone	50	0.5	U	0.2	U	0.2	U	0.2	U	0.5	U	0.5	U
4-Chlorotoluene	5	0.5	U	NA		NA		NA		0.5	U	0.5	U
4-Methyl-2-pentanone	NA	0.5	U	0.2	U	0.2	U	0.2	U	0.5	U	0.5	U
Acetone	50	2	U	1	J	1.5	JB	1.2	JB	1.8	J,B	2	U
Acrolein	5	NA		0.2	U	0.2	U	0.2	U	NA		NA	
Acrylonitrile	5	NA		0.2	U	0.2	U	0.2	U	NA		NA	
Benzene	1	0.5	U	0.2	U	0.2	U	0.2	U	0.96		0.26	J
Bromobenzene	5	0.5	U	NA		NA		NA		0.5	U	0.5	U
Bromochloromethane	5	0.5	U	0.2	U	0.2	U	0.2	U	0.5	U	0.5	U
Bromodichloromethane	50	0.5	U	0.2	U	0.2	U	0.2	U	0.5	U	0.5	U
Bromoform	50	0.5	U	0.2	U	0.2	U	0.2	U	0.5	U	0.5	U
Bromomethane	5	0.5	U	0.2	U	0.2	U	0.2	U	0.5	U	0.5	U
Carbon disulfide	NA	0.5	U	0.2	U	0.2	U	0.2	U	0.5	U	0.5	U
Carbon tetrachloride	5	0.5	U	0.2	U	0.2	U	0.2	U	0.5	U	0.5	U
Chlorobenzene	5	12		17		17		17		0.5	U	0.5	U
Chloroethane	5	0.5	U	0.2	U	0.2	U	0.2	U	0.5	U	0.5	U
Chloroform	7	0.5	U	0.2	U	0.2	U	0.2	U	0.5	U	0.5	U
Chloromethane	5	0.5	U	0.2	U	0.2	U	0.2	U	0.5	U	0.5	U
cis-1,2-Dichloroethylene	5	0.5	U	0.2	U	0.2	U	0.2	U	0.5	U	0.5	U
cis-1,3-Dichloropropylene	0.4	0.5	U	0.2	U	0.2	U	0.2	U	0.5	U	0.5	U
Cyclohexane	NE	NA		0.2	U	0.2	U	0.2	U	NA		NA	
Dibromochloromethane	5	0.5	U	0.2	U	0.2	U	0.2	U	0.5	U	0.5	U
Dibromomethane	5	0.5	U	0.2	U	0.2	U	0.2	U	0.5	U	0.5	U
Dichlorodifluoromethane	5	0.5	U	0.2	U	0.2	U	0.2	U	0.5	U	0.5	U
Ethyl Benzene	5	0.5	U	0.2	U	0.2	U	0.2	U	0.5	U	0.5	U
Hexachlorobutadiene	0.5	0.5	U	0.2	U	0.2	U	0.2	U	0.5	U	0.5	U
Isopropylbenzene	5	0.5	U	0.2	U	0.2	U	0.2	U	9.5		5.8	
Methyl acetate	NE	NA		0.2	U	0.2	U	0.2	U	NA		NA	
Methyl tert-butyl ether (MTBE)	10	1.2		1.4		1.9		1.9		5.3		8.2	CCV-E
Methylcyclohexane	NE	NA		0.2	U	0.2	U	0.2	U	NA		NA	
Methylene chloride	5	1.7	J	1	U	1	U	1	U	2	U	2	U
Naphthalene	10	2	U	NA		NA		NA		1.1	J	2	U
n-Butylbenzene	5	0.5	U	0.2	U	0.2	U	0.2	U	3.3		1.7	
n-Propylbenzene	5	0.5	U	0.2	U	0.2	U	0.2	U	10		5.1	
o-Xylene	5	0.5	U	0.2	U	0.2	U	0.2	U	0.63		0.41	J
p- & m- Xylenes	5	1	U	0.5	U	0.5	U	0.5	U	0.63	J	0.67	J
p-Isopropyltoluene	5	0.5	U	0.2	U	0.2	U	0.2	U	2.6		0.5	U
sec-Butylbenzene	5	0.5	U	0.2	U	0.2	U	0.2	U	0.5	U	3.2	
Styrene	5	0.5	U	0.2	U	0.2	U	0.2	U	0.5	U	0.5	U
tert-Butyl alcohol (TBA)	NE	NA		4.5		7.3		8.3		NA		NA	
tert-Butylbenzene	5	0.5	U	0.2	U	0.2	U	0.2	U	1.9		1.1	U
Tetrachloroethylene	5	0.5	U	0.2	U	0.2	U	0.2	U	0.5	U	0.5	U
Toluene	5	0.5	U	0.2	U	0.2	U	0.2	U	0.32	J	0.5	U
trans-1,2-Dichloroethylene	5	0.5	U	0.2	U	0.2	U	0.2	U	0.5	U	0.5	U
trans-1,3-Dichloropropylene	0.4	0.5	U	0.2	U	0.2	U	0.2	U	0.5	U	0.5	U
Trichloroethylene	5	0.5	U	0.2	U	0.2	U	0.2	U	0.5	U	0.5	U
Trichlorofluoromethane	5	0.5	U	0.2	U	0.2	U	0.2	U	0.5	U	0.5	U
Vinyl chloride	2	0.5	U	0.2	U	0.2	U	0.2	U	0.5	U	0.5	U
Xylenes, Total	5	1.5	U	0.6	U	0.6	U	0.6	U	1.3	J	1.1	J

Detected concentrations
Concentrations above AWQS

Notes: AWQS based on NYSDEC TOGS 1.1.1 (Class GA) NA = not available
 Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

Table 1: Post-Remediation - VOCs in Groundwater
NYSDEC BCP Site ID: C344060

All data in µg/L (parts per billion, ppb)													
U= Not Detected at or above indicated value													
Data above AWQS shown in Bold													
VOCs, 8260	Sample ID	HMW-14		DUP(HMW-14)		HMW-14		HMW-14		HMW-14		RMW-2R	
		(2015-01-15)		(2015-01-15)		(2015-04-06)		(2015-07-14)		(2016-01-13)		(2014-07-22)	
AWQS	Sample Date	1		1		1		1		1		1	
	Dilution Factor	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1,2-Tetrachloroethane	5	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U	0.5	U
1,1,1-Trichloroethane	5	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U	0.5	U
1,1,2,2-Tetrachloroethane	5	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U	0.5	U
1,1,2-Trichloro-1,2,2-trifluoroethane	5	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U	0.5	U
1,1,2-Trichloroethane	1	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U	0.5	U
1,1-Dichloroethane	5	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U	0.5	U
1,1-Dichloroethylene	5	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U	0.27	J
1,1-Dichloropropylene	5	0.5	U	0.5	U	0.5	U	NA		NA		0.5	U
1,2,3-Trichlorobenzene	5	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U	0.5	U
1,2,3-Trichloropropane	0.04	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U	0.5	U
1,2,4-Trichlorobenzene	5	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U	0.5	U
1,2,4-Trimethylbenzene	5	0.37	J	0.33	J	0.48	J,B	0.41	J	0.2	U	0.5	U
1,2-Dibromo-3-chloropropane	0.04	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U	0.5	U
1,2-Dibromoethane	5	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U	0.5	U
1,2-Dichlorobenzene	3	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U	0.5	U
1,2-Dichloroethane	0.6	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U	0.5	U
1,2-Dichloropropane	1	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U	0.5	U
1,3,5-Trimethylbenzene	5	0.5	U	0.5	U	0.22	J,B	2.1		0.2	U	0.5	U
1,3-Dichlorobenzene	3	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U	0.5	U
1,3-Dichloropropane	5	0.5	U	0.5	U	0.5	U	NA		NA		0.5	U
1,4-Dichlorobenzene	3	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U	0.5	U
1,4-Dioxane	NE	NA		NA		NA		40	U	40	U	NA	
2,2-Dichloropropane	5	0.5	U	0.5	U	0.5	U	NA		NA		0.5	U
2-Butanone	50	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U	0.5	U
2-Chlorotoluene	5	0.5	U	0.5	U	0.5	U	NA		NA		0.5	U
2-Hexanone	50	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U	0.5	U
4-Chlorotoluene	5	0.5	U	0.5	U	0.5	U	NA		NA		0.5	U
4-Methyl-2-pentanone	NA	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U	0.5	U
Acetone	50	2	U	2	U	1.4	CCV-E, CAL-E, J	3.2		1.5	J,B	17	B
Acrolein	5	NA		NA		NA		0.8	U	0.2	U	NA	
Acrylonitrile	5	NA		NA		NA		0.2	U	0.2	U	NA	
Benzene	1	0.33	J	0.35	J	0.51		0.35	J	0.2	U	0.31	J
Bromobenzene	5	0.5	U	0.5	U	0.5	U	NA		NA		0.5	U
Bromochloromethane	5	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U	0.5	U
Bromodichloromethane	50	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U	0.5	U
Bromoform	50	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U	0.5	U
Bromomethane	5	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U	0.5	U
Carbon disulfide	NA	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U	0.5	U
Carbon tetrachloride	5	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U	0.5	U
Chlorobenzene	5	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U	0.5	U
Chloroethane	5	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U	0.5	U
Chloroform	7	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U	0.5	U
Chloromethane	5	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U	0.5	U
cis-1,2-Dichloroethylene	5	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U	0.5	U
cis-1,3-Dichloropropylene	0.4	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U	0.5	U
Cyclohexane	NE	NA		NA		NA		13		1.5		NA	
Dibromochloromethane	5	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U	0.5	U
Dibromomethane	5	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U	0.5	U
Dichlorodifluoromethane	5	0.5	U	0.5	U	0.5	U	0.84		0.2	U	0.5	U
Ethyl Benzene	5	0.5	U	0.5	U	0.66	B	0.2	U	0.2	U	0.5	U
Hexachlorobutadiene	0.5	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U	0.5	U
Isopropylbenzene	5	4.6		4.5		2.4		7.1		0.2	U	1.4	
Methyl acetate	NE	NA		NA		NA		0.2	U	0.2	U	NA	
Methyl tert-butyl ether (MTBE)	10	2.3		2.6		1.2		3.6		0.2	U	1.9	
Methylcyclohexane	NE	NA		NA		NA		8.2		0.84		NA	
Methylene chloride	5	2	U	2	U	2	U	1	U	1	U	2	U
Naphthalene	10	2	U	2	U	2	U	NA		NA		6.1	
n-Butylbenzene	5	0.87	B	0.87	B	0.44	J,B	1		0.2	U	0.9	
n-Propylbenzene	5	3.8		3.8		2.4	B	5.8		0.2	U	0.78	
o-Xylene	5	0.4	J	0.41	J	0.56	B	0.47		0.2	U	0.4	J
p- & m- Xylenes	5	0.61	J	0.59	J	1.9	B	0.5	U	0.5	U	1	U
p-Isopropyltoluene	5	0.5	U	0.5	U	0.5	U	2		0.2	U	0.93	
sec-Butylbenzene	5	1.9		1.9		0.97	B	2.6		0.2	U	2.9	
Styrene	5	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U	0.5	U
tert-Butyl alcohol (TBA)	NE	NA		NA		NA		2.3		0.5	U	NA	
tert-Butylbenzene	5	0.76		0.75		0.61	B	1.2		0.2	U	0.5	
Tetrachloroethylene	5	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U	0.5	U
Toluene	5	0.21	J	0.5	U	0.25	J,B	0.26	J	0.2	U	0.31	J
trans-1,2-Dichloroethylene	5	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U	0.5	U
trans-1,3-Dichloropropylene	0.4	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U	0.5	
Trichloroethylene	5	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U	0.5	U
Trichlorofluoromethane	5	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U	0.5	U
Vinyl chloride	2	0.5	U	0.5	U	0.5	U	0.2	U	0.2	U	0.5	U
Xylenes, Total	5	1	J	1	J	2.4	B	0.96	J	0.6	U	0.86	J

Detected concentrations
Concentrations above AWQS

Notes: AWQS based on NYSDEC TOGS 1.1.1 (Class GA) NA = not available
 Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

Table 1: Post-Remediation - VOCs in Groundwater
NYSDEC BCP Site ID: C344060

All data in µg/L (parts per billion, ppb) U= Not Detected at or above indicated value Data above AWQS shown in Bold	Sample ID	DUP(RMW-2R)	
	Sample Date	(2014-07-22)	
	Dilution Factor	1	
VOCs, 8260	AWQS	<i>Result</i>	<i>Qualifier</i>
1,1,1,2-Tetrachloroethane	5	0.5	U
1,1,1-Trichloroethane	5	0.5	U
1,1,2,2-Tetrachloroethane	5	0.5	U
1,1,2-Trichloro-1,2,2-trifluoroethane	5	0.5	U
1,1,2-Trichloroethane	1	0.5	U
1,1-Dichloroethane	5	0.5	U
1,1-Dichloroethylene	5	0.5	U
1,1-Dichloropropylene	5	0.5	U
1,2,3-Trichlorobenzene	5	0.5	U
1,2,3-Trichloropropane	0.04	0.5	U
1,2,4-Trichlorobenzene	5	0.5	U
1,2,4-Trimethylbenzene	5	0.5	U
1,2-Dibromo-3-chloropropane	0.04	0.5	U
1,2-Dibromoethane	5	0.5	U
1,2-Dichlorobenzene	3	0.5	U
1,2-Dichloroethane	0.6	0.5	U
1,2-Dichloropropane	1	0.5	U
1,3,5-Trimethylbenzene	5	0.5	U
1,3-Dichlorobenzene	3	0.5	U
1,3-Dichloropropane	5	0.5	U
1,4-Dichlorobenzene	3	0.5	U
1,4-Dioxane	NE	NA	
2,2-Dichloropropane	5	0.5	U
2-Butanone	50	0.5	U
2-Chlorotoluene	5	0.5	U
2-Hexanone	50	0.5	U
4-Chlorotoluene	5	0.5	U
4-Methyl-2-pentanone	NA	0.5	U
Acetone	50	18	B
Acrolein	5	NA	
Acrylonitrile	5	NA	
Benzene	1	0.28	J
Bromobenzene	5	0.5	U
Bromochloromethane	5	0.5	U
Bromodichloromethane	50	0.5	U
Bromoform	50	0.5	U
Bromomethane	5	0.5	U
Carbon disulfide	NA	0.5	U
Carbon tetrachloride	5	0.5	U
Chlorobenzene	5	0.5	U
Chloroethane	5	0.5	U
Chloroform	7	0.5	U
Chloromethane	5	0.5	U
cis-1,2-Dichloroethylene	5	0.5	U
cis-1,3-Dichloropropylene	0.4	0.5	U
Cyclohexane	NE	NA	
Dibromochloromethane	5	0.5	U
Dibromomethane	5	0.5	U
Dichlorodifluoromethane	5	0.5	U
Ethyl Benzene	5	0.5	U
Hexachlorobutadiene	0.5	0.5	U
Isopropylbenzene	5	1.4	
Methyl acetate	NE	NA	
Methyl tert-butyl ether (MTBE)	10	1.8	
Methylcyclohexane	NE	NA	
Methylene chloride	5	2	U
Naphthalene	10	6.3	
n-Butylbenzene	5	0.82	
n-Propylbenzene	5	0.77	
o-Xylene	5	0.39	J
p- & m- Xylenes	5	1	U
p-Isopropyltoluene	5	0.91	
sec-Butylbenzene	5	0.5	U
Styrene	5	0.5	U
tert-Butyl alcohol (TBA)	NE	NA	
tert-Butylbenzene	5	0.5	U
Tetrachloroethylene	5	0.5	U
Toluene	5	0.31	J
trans-1,2-Dichloroethylene	5	0.5	U
trans-1,3-Dichloropropylene	0.4	0.5	U
Trichloroethylene	5	0.5	U
Trichlorofluoromethane	5	0.5	U
Vinyl chloride	2	0.5	U
Xylenes, Total	5	0.81	J

Detected concentrations
Concentrations above AWQS

Notes: AWQS based on NYSDEC TOGS 1.1.1 (Class GA) NA = not available
 Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

<i>All data in µg/L (parts per billion, ppb)</i>		Sample ID		Trip Blank		Trip Blank		Trip Blank	
<i>U= Not Detected at or above indicated value</i>		Sample Date		(2014-07-22)		(2014-10-07)		(2014-	
<i>Data above AWQS shown in Bold</i>		Dilution Factor							
VOCs, 8260	AWQS	<i>Result</i>	<i>Qualifier</i>	<i>Result</i>	<i>Qualifier</i>	<i>Result</i>	<i>Qualifier</i>	<i>Result</i>	<i>Qualifier</i>
1,1,1,2-Tetrachloroethane	5	0.5	U	0.5	U	0.5	U	0.5	U
1,1,1-Trichloroethane	5	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2,2-Tetrachloroethane	5	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2-Trichloro-1,2,2-trifluoroethane	5	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2-Trichloroethane	1	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethane	5	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethylene	5	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloropropylene	5	0.5	U	0.5	U	0.5	U	0.5	U
1,2,3-Trichlorobenzene	5	0.5	U	0.5	U	0.5	U	0.5	U
1,2,3-Trichloropropane	0.04	0.5	U	0.5	U	0.5	U	0.5	U
1,2,4-Trichlorobenzene	5	0.5	U	0.5	U	0.5	U	0.5	U
1,2,4-Trimethylbenzene	5	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dibromo-3-chloropropane	0.04	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dibromoethane	5	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichlorobenzene	3	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichloroethane	0.6	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichloropropane	1	0.5	U	0.5	U	0.5	U	0.5	U
1,3,5-Trimethylbenzene	5	0.5	U	0.5	U	0.5	U	0.5	U
1,3-Dichlorobenzene	3	0.5	U	0.5	U	0.5	U	0.5	U
1,3-Dichloropropane	5	0.5	U	0.5	U	0.5	U	0.5	U
1,4-Dichlorobenzene	3	0.5	U	0.5	U	0.5	U	0.5	U
1,4-Dioxane	NE	NA		NA		NA		NA	
2,2-Dichloropropane	5	0.5	U	0.5	U	0.5	U	0.5	U
2-Butanone	50	0.5	U	0.5	U	0.5	U	0.5	U
2-Chlorotoluene	5	0.5	U	0.5	U	0.5	U	0.5	U
2-Hexanone	50	0.5	U	0.5	U	0.5	U	0.5	U
4-Chlorotoluene	5	0.5	U	0.5	U	0.5	U	0.5	U
4-Methyl-2-pentanone	NA	0.5	U	0.5	U	0.5	U	0.5	U
Acetone	50	2	U	2	U	2	U	2	U
Acrolein	5	NA		NA		NA		NA	
Acrylonitrile	5	NA		NA		NA		NA	
Benzene	1	0.5	U	0.5	U	0.5	U	0.5	U
Bromobenzene	5	0.5	U	0.5	U	0.5	U	0.5	U
Bromochloromethane	5	0.5	U	0.5	U	0.5	U	0.5	U
Bromodichloromethane	50	0.5	U	0.5	U	0.5	U	0.5	U
Bromoform	50	0.5	U	0.5	U	0.5	U	0.5	U
Bromomethane	5	0.5	U	0.5	U	0.5	U	0.5	U
Carbon disulfide	NA	0.5	U	0.5	U	0.5	U	0.5	U
Carbon tetrachloride	5	0.5	U	0.5	U	0.5	U	0.5	U
Chlorobenzene	5	0.5	U	0.5	U	0.5	U	0.5	U
Chloroethane	5	0.5	U	0.5	U	0.5	U	0.5	U
Chloroform	7	0.5	U	0.5	U	0.5	U	1.4	U
Chloromethane	5	0.5	U	0.5	U	0.5	U	0.5	U
cis-1,2-Dichloroethylene	5	0.5	U	0.5	U	0.5	U	0.5	U
cis-1,3-Dichloropropylene	0.4	0.5	U	0.5	U	0.5	U	0.5	U
Cyclohexane	NE	NA		NA		NA		NA	
Dibromochloromethane	5	0.5	U	0.5	U	0.5	U	0.5	U
Dibromomethane	5	0.5	U	0.5	U	0.5	U	0.5	U
Dichlorodifluoromethane	5	0.5	U	0.5	U	0.5	U	0.5	U
Ethyl Benzene	5	0.5	U	0.5	U	0.5	U	0.5	U

Hexachlorobutadiene	0.5	0.5	U	0.5	U	0.5
Isopropylbenzene	5	0.5	U	0.5	U	0.5
Methyl acetate	NE	NA		NA		NA
Methyl tert-butyl ether (MTBE)	10	0.5	U	0.5	U	0.5
Methylcyclohexane	NE	NA		NA		NA
Methylene chloride	5	2	U	2	U	2
Naphthalene	10	2	U	2	U	2
n-Butylbenzene	5	0.5	U	0.5	U	0.5
n-Propylbenzene	5	0.5	U	0.5	U	0.5
o-Xylene	5	0.5	U	0.5	U	0.5
p- & m- Xylenes	5	1	U	1	U	1
p-Isopropyltoluene	5	0.5	U	0.5	U	0.5
sec-Butylbenzene	5	0.5	U	0.5	U	0.5
Styrene	5	0.5	U	0.5	U	0.5
tert-Butyl alcohol (TBA)	NE	NA		NA		NA
tert-Butylbenzene	5	0.5	U	0.5	U	0.5
Tetrachloroethylene	5	0.5	U	0.5	U	0.5
Toluene	5	0.5	U	0.5	U	0.5
trans-1,2-Dichloroethylene	5	0.5	U	0.5	U	0.5
trans-1,3-Dichloropropylene	0.4	0.5	U	0.5	U	0.5
Trichloroethylene	5	0.5	U	0.5	U	0.5
Trichlorofluoromethane	5	0.5	U	0.5	U	0.5
Vinyl chloride	2	0.5	U	0.5	U	0.5
Xylenes, Total	5	1.5	U	1.5	U	1.5

Detected concentrations

Concentrations above AWQS

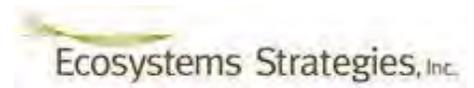
U	0.5	U	0.5	U	0.2	U	0.2	U
U	0.5	U	0.5	U	0.2	U	0.2	U
	NA		NA		0.2	U	0.2	U
U	0.5	U	0.5	U	0.2	U	0.2	U
	NA		NA		0.2	U	0.2	U
U	1.9	J	1.5	J	1	U	1	U
U	2	U	2	U	NA		NA	
U	0.5	U	0.5	U	0.2	U	0.2	U
U	0.5	U	0.5	U	0.2	U	0.2	U
U	0.5	U	0.5	U	0.5	U	0.2	U
U	1	U	1	U	0.2	U	0.5	U
U	0.5	U	0.5	U	0.2	U	0.2	U
U	0.5	U	0.5	U	0.2	U	0.2	U
U	0.5	U	0.5	U	0.2	U	0.2	U
	NA		NA		1	U	1.3	J
U	0.5	U	0.5	U	0.2	U	0.2	U
U	0.5	U	0.5	U	0.2	U	0.2	U
U	0.5	U	0.5	U	0.2	U	0.2	U
U	0.5	U	0.5	U	0.2	U	0.2	U
U	0.5	U	0.5	U	0.2	U	0.2	U
U	0.5	U	0.5	U	0.2	U	0.2	U
U	0.5	U	0.5	U	0.2	U	0.2	U
U	0.5	U	0.5	U	0.2	U	0.2	U
U	0.5	U	0.5	U	0.2	U	0.2	U
U	1.5	U	1.5	U	0.6	U	0.6	U

Table 2: Post-Remediation - SVOCs in Groundwater

All data in µg/L

Guidance: NYSDEC TOGS 1.1.1

Elevated concentrations in **Bold and Yellow**



GH9964.50 July 2015

SVOCs (USEPA Method 8270)	Guidance Level	HMW-3R (2014-11-05)		
		Result	Flag	RL
2-Methylnaphthalene	NE	ND		5.00
Acenaphthene	20	ND		0.0500
Acenaphthylene	NE	ND		0.0500
Anthracene	50	ND		0.0500
Benzo(a)anthracene	0.002	ND		0.0500
Benzo(a)pyrene	NE	ND		0.0500
Benzo(b)fluoranthene	0.002	ND		0.0500
Benzo(g,h,i)perylene	NE	ND		0.0500
Benzo(k)fluoranthene	0.002	ND		0.0500
Chrysene	0.002	ND		0.0500
Dibenzo(a,h)anthracene	NE	ND		0.0500
Fluoranthene	50	ND		0.0500
Fluorene	50	ND		0.0500
Indeno(1,2,3-cd)pyrene	0.002	ND		0.0500
Naphthalene	10	ND		0.0500
Phenanthrene	50	ND		0.0500
Pyrene	50	ND		0.0500

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed

Flags: J = Below RL B = Detected in laboratory blank

E = Estimated concentration

Table 3: Pre-Remediation - VOCs in Groundwater

VOCs (USEPA Method 8260)	Regulatory/Criterial/ Guidance Level (µg/l)	Sample Identification																		
		HMW-1 2007	HMW-2 2007	HMW-3 2007	HMW-4 2007	HMW-5 2007	HMW-5 Oct-2013	2007	HMW-6/HHMW10 2007	HMW-6/HHMW10 Jan-2013	HMW-6/HHMW10 Apr-2013	HMW-6/HHMW10 Jul-2013	HMW-6/HHMW10 Oct-2013	2007	HMW-7/HHMW11 2007	HMW-7/HHMW11 Jan-2013	HMW-7/HHMW11 Apr-2013	HMW-7/HHMW11 Jul-2013	HMW-7/HHMW11 Oct-2013	
1,1,1,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Trichloro-1,2,2-trifluoroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropylene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-Chlorohexane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cis-1,3-Dichloropropylene	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether (MTBE)	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (o,m,p)	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropylene	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

Regulatory Criteria/Criteria levels based on Title 6 NYCRR Part 703 Water Quality Standards or NYSDDEC Division of Water TCGS 1.1.1 (June 1998) and subsequent NYSDDEC Memoranda, as appropriate.

J - Data indicate the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

B - Analyte is found in the associated analysis batch blank.

ND = Not Detected

Blue shade indicates detectable concentrations.

Bold and yellow shade indicates exceedance of applicable regulatory criteria.

ES/Ph: 6/9/2010

Table 3 (cont'd): Pre-Remediation - VOCs in Groundwater

VOCs (USEPA Method 8260)	Regulatory Criteria/ Guidance Level µg/L		HMW-9		HMW-10		HMW-11		HMW-12		HMW-13		RMW-2		Trip Blank	
	2007	2012	2007	2012	2007	2012	2007	2012	2007	2012	2007	2012	2007	2012	2013	2013
1,1,1,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethylene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethylene (total)	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromofrom	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cis-1,3-Dichloropropylene	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	3.2 J	ND	2.7 J	ND	5.1	ND	5.1	ND	5.1	ND	5.1	ND	5.1	ND	5.1
Methylene chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether (MTBE)	10	ND	ND	2.2 J	2.8 J	ND	1.8 J	1.2 J	ND	1.8 J	1.2 J	ND	3.0 J	3.7 J	4.4 J	4.4 J
n-Butylbenzene	5	ND	ND	0.81 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (o,m,p)	5	ND	ND	1.2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	5	3.2 J	ND	7	2.7 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	5	ND	ND	2.9 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrahydrofuran	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropylene	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
 Regulatory Criteria/Guidance levels based on Title 6 NYCRR Part 703 Water Quality Standards or NYSDEC Division of Water TOGS 1.1.1 (June 1998) and subsequent NYSDEC Memoranda, as appropriate.
 J - Data indicate the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
 B - Analyte is found in the associated analysis batch blank.
 ND = Not Detected
 Blue shade indicates detectable concentrations.
 Bold and yellow shade indicates exceedance of applicable regulatory criteria.
 ES/ File: GH9964.50



Technical Report

prepared for:

Ecosystems Strategies, Inc.
24 Davis Avenue
Poughkeepsie NY, 12603
Attention: Rosaura Andujar-McNeil

Report Date: 01/21/2016
Client Project ID: GH9964
York Project (SDG) No.: 16A0405

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 01/21/2016
Client Project ID: GH9964
York Project (SDG) No.: 16A0405

Ecosystems Strategies, Inc.
24 Davis Avenue
Poughkeepsie NY, 12603
Attention: Rosaura Andujar-McNeil

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 January 14, 2016 and listed below. The project was identified as your project: **GH9964**.

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.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
16A0405-01	HMW-3R	Water	01/13/2016	01/14/2016
16A0405-02	HMW-5	Water	01/13/2016	01/14/2016
16A0405-03	HMW-6	Water	01/13/2016	01/14/2016
16A0405-04	HMW-7R	Water	01/13/2016	01/14/2016
16A0405-05	HMW-8	Water	01/13/2016	01/14/2016
16A0405-06	HMW-9R	Water	01/13/2016	01/14/2016
16A0405-07	HMW-10R	Water	01/13/2016	01/14/2016
16A0405-08	HMW-13	Water	01/13/2016	01/14/2016
16A0405-09	HMW-14	Water	01/13/2016	01/14/2016
16A0405-10	DUP-20160113	Water	01/13/2016	01/14/2016
16A0405-11	TB-20160113	Water	01/13/2016	01/14/2016

General Notes for York Project (SDG) No.: 16A0405

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:



Benjamin Gulizia
Laboratory Director

Date: 01/21/2016





Sample Information

Client Sample ID: HMW-3R

York Sample ID: 16A0405-01

York Project (SDG) No.
16A0405

Client Project ID
GH9964

Matrix
Water

Collection Date/Time
January 13, 2016 9:38 am

Date Received
01/14/2016

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	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	160	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
78-93-3	2-Butanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS



Sample Information

Client Sample ID: HMW-3R

York Sample ID: 16A0405-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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16A0405

GH9964

Water

January 13, 2016 9:38 am

01/14/2016

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
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
107-02-8	Acrolein	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS



Sample Information

Client Sample ID: HMW-3R

York Sample ID: 16A0405-01

York Project (SDG) No.

Client Project ID

Matrix

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16A0405

GH9964

Water

January 13, 2016 9:38 am

01/14/2016

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
1634-04-4	Methyl tert-butyl ether (MTBE)	0.68		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	01/19/2016 08:40	01/19/2016 17:03	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	01/19/2016 08:40	01/19/2016 17:03	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
75-65-0	tert-Butyl alcohol (TBA)	1.8	J	ug/L	0.50	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	01/19/2016 08:40	01/19/2016 17:03	SS
	Surrogate Recoveries	Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	94.6 %			69-130						
2037-26-5	Surrogate: Toluene-d8	101 %			81-117						
460-00-4	Surrogate: p-Bromofluorobenzene	99.2 %			79-122						



Sample Information

Client Sample ID: HMW-5

York Sample ID: 16A0405-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16A0405

GH9964

Water

January 13, 2016 11:24 am

01/14/2016

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	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	160	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
78-93-3	2-Butanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
67-64-1	Acetone	2.6	CCV-E	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS



Sample Information

Client Sample ID: HMW-5

York Sample ID: 16A0405-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16A0405

GH9964

Water

January 13, 2016 11:24 am

01/14/2016

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
107-02-8	Acrolein	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
71-43-2	Benzene	1.0		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS



Sample Information

Client Sample ID: HMW-5

York Sample ID: 16A0405-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16A0405

GH9964

Water

January 13, 2016 11:24 am

01/14/2016

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
1634-04-4	Methyl tert-butyl ether (MTBE)	7.4		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	01/19/2016 08:40	01/19/2016 17:36	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	01/19/2016 08:40	01/19/2016 17:36	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
75-65-0	tert-Butyl alcohol (TBA)	15		ug/L	0.50	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	01/19/2016 08:40	01/19/2016 17:36	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	101 %	69-130
2037-26-5	Surrogate: Toluene-d8	100 %	81-117
460-00-4	Surrogate: p-Bromofluorobenzene	94.7 %	79-122



Sample Information

Client Sample ID: HMW-6

York Sample ID: 16A0405-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16A0405

GH9964

Water

January 13, 2016 10:54 am

01/14/2016

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	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	160	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
78-93-3	2-Butanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
67-64-1	Acetone	2.0	CCV-E, J	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS



Sample Information

Client Sample ID: HMW-6

York Sample ID: 16A0405-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16A0405

GH9964

Water

January 13, 2016 10:54 am

01/14/2016

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
107-02-8	Acrolein	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
110-82-7	Cyclohexane	0.87		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
98-82-8	Isopropylbenzene	0.30	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS



Sample Information

Client Sample ID: HMW-6

York Sample ID: 16A0405-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16A0405

GH9964

Water

January 13, 2016 10:54 am

01/14/2016

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
1634-04-4	Methyl tert-butyl ether (MTBE)	2.8		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	01/19/2016 08:40	01/19/2016 18:07	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	01/19/2016 08:40	01/19/2016 18:07	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
135-98-8	sec-Butylbenzene	0.68		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
98-06-6	tert-Butylbenzene	0.41	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	01/19/2016 08:40	01/19/2016 18:07	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	98.2 %	69-130								
2037-26-5	Surrogate: Toluene-d8	101 %	81-117								
460-00-4	Surrogate: p-Bromofluorobenzene	99.6 %	79-122								



Sample Information

Client Sample ID: HMW-7R

York Sample ID: 16A0405-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16A0405

GH9964

Water

January 13, 2016 12:48 pm

01/14/2016

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	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	160	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
78-93-3	2-Butanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
67-64-1	Acetone	2.8	CCV-E	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS



Sample Information

Client Sample ID: HMW-7R

York Sample ID: 16A0405-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16A0405

GH9964

Water

January 13, 2016 12:48 pm

01/14/2016

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
107-02-8	Acrolein	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
110-82-7	Cyclohexane	6.2		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
75-71-8	Dichlorodifluoromethane	1.9		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
98-82-8	Isopropylbenzene	3.4		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS



Sample Information

Client Sample ID: HMW-7R

York Sample ID: 16A0405-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16A0405

GH9964

Water

January 13, 2016 12:48 pm

01/14/2016

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
1634-04-4	Methyl tert-butyl ether (MTBE)	6.8		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
108-87-2	Methylcyclohexane	1.2		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
104-51-8	n-Butylbenzene	1.1		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
103-65-1	n-Propylbenzene	2.8		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
95-47-6	o-Xylene	0.25	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	01/19/2016 08:40	01/19/2016 18:38	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	01/19/2016 08:40	01/19/2016 18:38	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
135-98-8	sec-Butylbenzene	2.0		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
75-65-0	tert-Butyl alcohol (TBA)	12		ug/L	0.50	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
98-06-6	tert-Butylbenzene	4.8		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	01/19/2016 08:40	01/19/2016 18:38	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	95.8 %	69-130								
2037-26-5	Surrogate: Toluene-d8	98.9 %	81-117								
460-00-4	Surrogate: p-Bromofluorobenzene	95.0 %	79-122								



Sample Information

Client Sample ID: HMW-8

York Sample ID: 16A0405-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16A0405

GH9964

Water

January 13, 2016 12:22 pm

01/14/2016

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	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
71-55-6	1,1,1-Trichloroethane	0.42	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
75-34-3	1,1-Dichloroethane	5.7		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
75-35-4	1,1-Dichloroethylene	0.35	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	160	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
78-93-3	2-Butanone	0.81	SCAL-E, J	ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS



Sample Information

Client Sample ID: HMW-8

York Sample ID: 16A0405-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16A0405

GH9964

Water

January 13, 2016 12:22 pm

01/14/2016

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
67-64-1	Acetone	2.0	CCV-E	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
107-02-8	Acrolein	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
71-43-2	Benzene	1.3		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
74-97-5	Bromochloromethane	0.83		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
75-27-4	Bromodichloromethane	0.23	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
75-15-0	Carbon disulfide	0.33	J, B	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
156-59-2	cis-1,2-Dichloroethylene	14		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
110-82-7	Cyclohexane	0.49	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
75-71-8	Dichlorodifluoromethane	0.74		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
100-41-4	Ethyl Benzene	0.30	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS



Sample Information

Client Sample ID: HMW-8

York Sample ID: 16A0405-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16A0405

GH9964

Water

January 13, 2016 12:22 pm

01/14/2016

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
79-20-9	Methyl acetate	2.0		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	1.2		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	01/19/2016 08:40	01/19/2016 19:10	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	01/19/2016 08:40	01/19/2016 19:10	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
75-65-0	tert-Butyl alcohol (TBA)	1.7	J	ug/L	0.50	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
156-60-5	trans-1,2-Dichloroethylene	22		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
79-01-6	Trichloroethylene	6.3		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
75-01-4	Vinyl Chloride	4.3		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	01/19/2016 08:40	01/19/2016 19:10	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	100 %	69-130
2037-26-5	Surrogate: Toluene-d8	98.0 %	81-117
460-00-4	Surrogate: p-Bromofluorobenzene	99.5 %	79-122



Sample Information

Client Sample ID: HMW-8

York Sample ID: 16A0405-05

<u>York Project (SDG) No.</u> 16A0405	<u>Client Project ID</u> GH9964	<u>Matrix</u> Water	<u>Collection Date/Time</u> January 13, 2016 12:22 pm	<u>Date Received</u> 01/14/2016
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Sample Information

Client Sample ID: HMW-9R

York Sample ID: 16A0405-06

<u>York Project (SDG) No.</u> 16A0405	<u>Client Project ID</u> GH9964	<u>Matrix</u> Water	<u>Collection Date/Time</u> January 13, 2016 1:50 pm	<u>Date Received</u> 01/14/2016
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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	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS



Sample Information

Client Sample ID: HMW-9R

York Sample ID: 16A0405-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16A0405

GH9964

Water

January 13, 2016 1:50 pm

01/14/2016

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
123-91-1	1,4-Dioxane	ND		ug/L	40	160	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
78-93-3	2-Butanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
67-64-1	Acetone	2.4	B	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
107-02-8	Acrolein	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
110-82-7	Cyclohexane	1.7		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS



Sample Information

Client Sample ID: HMW-9R

York Sample ID: 16A0405-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16A0405

GH9964

Water

January 13, 2016 1:50 pm

01/14/2016

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
75-71-8	Dichlorodifluoromethane	0.84		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
98-82-8	Isopropylbenzene	1.0		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	1.5		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
108-87-2	Methylcyclohexane	0.26	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
103-65-1	n-Propylbenzene	0.48	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	01/19/2016 17:04	01/20/2016 00:18	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	01/19/2016 17:04	01/20/2016 00:18	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
135-98-8	sec-Butylbenzene	0.73		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
75-65-0	tert-Butyl alcohol (TBA)	3.2	CCV-E	ug/L	0.50	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
98-06-6	tert-Butylbenzene	2.4		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:18	SS



Sample Information

Client Sample ID: HMW-9R

York Sample ID: 16A0405-06

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 16A0405, GH9964, Water, January 13, 2016 1:50 pm, 01/14/2016

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

Main data table for Volatile Organics, 8260 - Comprehensive. Columns include CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Includes rows for Vinyl Chloride, Xylenes, and Surrogate Recoveries.

Sample Information

Client Sample ID: HMW-10R

York Sample ID: 16A0405-07

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 16A0405, GH9964, Water, January 13, 2016 1:37 pm, 01/14/2016

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

Main data table for Volatile Organics, 8260 - Comprehensive. Columns include CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Includes rows for various chloroethanes, chlorobenzene, and chloropropane.



Sample Information

Client Sample ID: HMW-10R

York Sample ID: 16A0405-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16A0405

GH9964

Water

January 13, 2016 1:37 pm

01/14/2016

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
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	160	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
78-93-3	2-Butanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
67-64-1	Acetone	1.5	J, B	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
107-02-8	Acrolein	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS



Sample Information

Client Sample ID: HMW-10R

York Sample ID: 16A0405-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16A0405

GH9964

Water

January 13, 2016 1:37 pm

01/14/2016

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
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
110-82-7	Cyclohexane	1.7		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
98-82-8	Isopropylbenzene	0.68		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	3.5		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
108-87-2	Methylcyclohexane	0.99		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
104-51-8	n-Butylbenzene	0.58		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
103-65-1	n-Propylbenzene	0.69		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	01/19/2016 17:04	01/20/2016 00:48	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	01/19/2016 17:04	01/20/2016 00:48	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
135-98-8	sec-Butylbenzene	0.97		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
75-65-0	tert-Butyl alcohol (TBA)	5.8	CCV-E	ug/L	0.50	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
98-06-6	tert-Butylbenzene	1.2		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS



Sample Information

Client Sample ID: HMW-10R

York Sample ID: 16A0405-07

<u>York Project (SDG) No.</u> 16A0405	<u>Client Project ID</u> GH9964	<u>Matrix</u> Water	<u>Collection Date/Time</u> January 13, 2016 1:37 pm	<u>Date Received</u> 01/14/2016
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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
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	01/19/2016 17:04	01/20/2016 00:48	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	101 %	69-130								
2037-26-5	Surrogate: Toluene-d8	101 %	81-117								
460-00-4	Surrogate: p-Bromofluorobenzene	99.5 %	79-122								

Sample Information

Client Sample ID: HMW-13

York Sample ID: 16A0405-08

<u>York Project (SDG) No.</u> 16A0405	<u>Client Project ID</u> GH9964	<u>Matrix</u> Water	<u>Collection Date/Time</u> January 13, 2016 11:09 am	<u>Date Received</u> 01/14/2016
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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	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS



Sample Information

Client Sample ID: HMW-13

York Sample ID: 16A0405-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16A0405

GH9964

Water

January 13, 2016 11:09 am

01/14/2016

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
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	160	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
78-93-3	2-Butanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
67-64-1	Acetone	1.5	J, B	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
107-02-8	Acrolein	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS



Sample Information

Client Sample ID: HMW-13

York Sample ID: 16A0405-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16A0405

GH9964

Water

January 13, 2016 11:09 am

01/14/2016

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
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
108-90-7	Chlorobenzene	17		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	1.9		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	01/19/2016 17:04	01/20/2016 01:19	SS



Sample Information

Client Sample ID: HMW-13

York Sample ID: 16A0405-08

<u>York Project (SDG) No.</u> 16A0405	<u>Client Project ID</u> GH9964	<u>Matrix</u> Water	<u>Collection Date/Time</u> January 13, 2016 11:09 am	<u>Date Received</u> 01/14/2016
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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
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	01/19/2016 17:04	01/20/2016 01:19	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
75-65-0	tert-Butyl alcohol (TBA)	7.3	CCV-E	ug/L	0.50	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	01/19/2016 17:04	01/20/2016 01:19	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	99.6 %	69-130								
2037-26-5	Surrogate: Toluene-d8	97.3 %	81-117								
460-00-4	Surrogate: p-Bromofluorobenzene	100 %	79-122								

Sample Information

Client Sample ID: HMW-14

York Sample ID: 16A0405-09

<u>York Project (SDG) No.</u> 16A0405	<u>Client Project ID</u> GH9964	<u>Matrix</u> Water	<u>Collection Date/Time</u> January 13, 2016 2:34 pm	<u>Date Received</u> 01/14/2016
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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
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Sample Information

Client Sample ID: HMW-14

York Sample ID: 16A0405-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16A0405

GH9964

Water

January 13, 2016 2:34 pm

01/14/2016

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	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	160	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
78-93-3	2-Butanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
67-64-1	Acetone	1.5	J, B	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS



Sample Information

Client Sample ID: HMW-14

York Sample ID: 16A0405-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16A0405

GH9964

Water

January 13, 2016 2:34 pm

01/14/2016

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
107-02-8	Acrolein	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
110-82-7	Cyclohexane	1.5		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS



Sample Information

Client Sample ID: HMW-14

York Sample ID: 16A0405-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16A0405

GH9964

Water

January 13, 2016 2:34 pm

01/14/2016

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
108-87-2	Methylcyclohexane	0.84		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	01/20/2016 08:51	01/20/2016 11:43	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	01/20/2016 08:51	01/20/2016 11:43	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	01/20/2016 08:51	01/20/2016 11:43	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	96.7 %	69-130
2037-26-5	Surrogate: Toluene-d8	100 %	81-117
460-00-4	Surrogate: p-Bromofluorobenzene	96.8 %	79-122



Sample Information

Client Sample ID: DUP-20160113

York Sample ID: 16A0405-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16A0405

GH9964

Water

January 13, 2016 12:00 pm

01/14/2016

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	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	160	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
78-93-3	2-Butanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
67-64-1	Acetone	1.2	J, B	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS



Sample Information

Client Sample ID: DUP-20160113

York Sample ID: 16A0405-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16A0405

GH9964

Water

January 13, 2016 12:00 pm

01/14/2016

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
107-02-8	Acrolein	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
108-90-7	Chlorobenzene	17		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS



Sample Information

Client Sample ID: DUP-20160113

York Sample ID: 16A0405-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16A0405

GH9964

Water

January 13, 2016 12:00 pm

01/14/2016

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
1634-04-4	Methyl tert-butyl ether (MTBE)	1.9		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	01/20/2016 08:51	01/20/2016 12:14	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	01/20/2016 08:51	01/20/2016 12:14	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
75-65-0	tert-Butyl alcohol (TBA)	8.3		ug/L	0.50	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	01/20/2016 08:51	01/20/2016 12:14	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	100 %	69-130
2037-26-5	Surrogate: Toluene-d8	97.0 %	81-117
460-00-4	Surrogate: p-Bromofluorobenzene	101 %	79-122



Sample Information

Client Sample ID: TB-20160113

York Sample ID: 16A0405-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16A0405

GH9964

Water

January 13, 2016 12:00 pm

01/14/2016

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	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	160	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
78-93-3	2-Butanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
67-64-1	Acetone	2.9	B	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS



Sample Information

Client Sample ID: TB-20160113

York Sample ID: 16A0405-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16A0405

GH9964

Water

January 13, 2016 12:00 pm

01/14/2016

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
107-02-8	Acrolein	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS



Sample Information

Client Sample ID: TB-20160113

York Sample ID: 16A0405-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16A0405

GH9964

Water

January 13, 2016 12:00 pm

01/14/2016

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
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	01/20/2016 08:51	01/20/2016 12:45	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	01/20/2016 08:51	01/20/2016 12:45	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
75-65-0	tert-Butyl alcohol (TBA)	1.3	J	ug/L	0.50	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	01/20/2016 08:51	01/20/2016 12:45	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	100 %	69-130
2037-26-5	Surrogate: Toluene-d8	99.8 %	81-117
460-00-4	Surrogate: p-Bromofluorobenzene	98.5 %	79-122



Analytical Batch Summary

Batch ID: BA60665 **Preparation Method:** EPA 5030B **Prepared By:** BGS

YORK Sample ID	Client Sample ID	Preparation Date
16A0405-01	HMW-3R	01/19/16
16A0405-02	HMW-5	01/19/16
16A0405-03	HMW-6	01/19/16
16A0405-04	HMW-7R	01/19/16
16A0405-05	HMW-8	01/19/16
BA60665-BLK1	Blank	01/19/16
BA60665-BS1	LCS	01/19/16
BA60665-BSD1	LCS Dup	01/19/16
BA60665-MS1	Matrix Spike	01/19/16
BA60665-MSD1	Matrix Spike Dup	01/19/16

Batch ID: BA60698 **Preparation Method:** EPA 5030B **Prepared By:** BGS

YORK Sample ID	Client Sample ID	Preparation Date
16A0405-06	HMW-9R	01/19/16
16A0405-07	HMW-10R	01/19/16
16A0405-08	HMW-13	01/19/16
BA60698-BLK1	Blank	01/19/16
BA60698-BS1	LCS	01/19/16
BA60698-BSD1	LCS Dup	01/19/16

Batch ID: BA60725 **Preparation Method:** EPA 5030B **Prepared By:** BGS

YORK Sample ID	Client Sample ID	Preparation Date
16A0405-09	HMW-14	01/20/16
16A0405-10	DUP-20160113	01/20/16
16A0405-11	TB-20160113	01/20/16
BA60725-BLK1	Blank	01/20/16
BA60725-BS1	LCS	01/20/16
BA60725-BSD1	LCS Dup	01/20/16



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
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Batch BA60665 - EPA 5030B

Blank (BA60665-BLK1)

Prepared & Analyzed: 01/19/2016

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	2.0	"								
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	160	"								
2-Butanone	ND	2.0	"								
2-Hexanone	ND	2.0	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	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	0.31	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	0.22	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
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Batch BA60665 - EPA 5030B

Blank (BA60665-BLK1)

Prepared & Analyzed: 01/19/2016

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	9.77		"	10.0		97.7	69-130				
Surrogate: Toluene-d8	10.0		"	10.0		100	81-117				
Surrogate: p-Bromofluorobenzene	9.67		"	10.0		96.7	79-122				

LCS (BA60665-BS1)

Prepared & Analyzed: 01/19/2016

1,1,1,2-Tetrachloroethane	10		ug/L	10.0		105	82-126				
1,1,1-Trichloroethane	11		"	10.0		112	78-136				
1,1,2,2-Tetrachloroethane	10		"	10.0		102	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11		"	10.0		113	54-165				
1,1,2-Trichloroethane	10		"	10.0		102	82-123				
1,1-Dichloroethane	12		"	10.0		116	82-129				
1,1-Dichloroethylene	12		"	10.0		122	68-138				
1,2,3-Trichlorobenzene	10		"	10.0		102	76-136				
1,2,3-Trichloropropane	10		"	10.0		104	77-128				
1,2,4-Trichlorobenzene	11		"	10.0		107	76-137				
1,2,4-Trimethylbenzene	11		"	10.0		110	82-132				
1,2-Dibromo-3-chloropropane	10		"	10.0		104	45-147				
1,2-Dibromoethane	10		"	10.0		101	83-124				
1,2-Dichlorobenzene	10		"	10.0		104	79-123				
1,2-Dichloroethane	10		"	10.0		105	73-132				
1,2-Dichloropropane	10		"	10.0		105	78-126				
1,3,5-Trimethylbenzene	11		"	10.0		110	80-131				
1,3-Dichlorobenzene	11		"	10.0		109	86-122				
1,4-Dichlorobenzene	10		"	10.0		104	85-124				
1,4-Dioxane	440		"	200		221	10-349				
2-Butanone	12		"	10.0		116	49-152				
2-Hexanone	6.9		"	10.0		69.0	51-146				
4-Methyl-2-pentanone	5.6		"	10.0		56.1	57-145	Low Bias			
Acetone	8.0		"	10.0		79.6	14-150				
Acrolein	10		"	10.0		102	10-153				
Acrylonitrile	13		"	10.0		133	51-150				
Benzene	11		"	10.0		112	85-126				
Bromochloromethane	11		"	10.0		114	77-128				
Bromodichloromethane	10		"	10.0		105	79-128				
Bromoform	10		"	10.0		102	78-133				
Bromomethane	15		"	10.0		154	43-168				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BA60665 - EPA 5030B

LCS (BA60665-BS1)

Prepared & Analyzed: 01/19/2016

Carbon disulfide	13		ug/L	10.0		127	68-146				
Carbon tetrachloride	12		"	10.0		116	77-141				
Chlorobenzene	11		"	10.0		107	88-120				
Chloroethane	11		"	10.0		113	65-136				
Chloroform	11		"	10.0		109	82-128				
Chloromethane	11		"	10.0		110	43-155				
cis-1,2-Dichloroethylene	12		"	10.0		117	83-129				
cis-1,3-Dichloropropylene	11		"	10.0		108	80-131				
Cyclohexane	11		"	10.0		111	63-149				
Dibromochloromethane	11		"	10.0		105	80-130				
Dibromomethane	10		"	10.0		103	72-134				
Dichlorodifluoromethane	10		"	10.0		103	44-144				
Ethyl Benzene	11		"	10.0		109	80-131				
Hexachlorobutadiene	12		"	10.0		116	67-146				
Isopropylbenzene	11		"	10.0		111	76-140				
Methyl acetate	11		"	10.0		113	51-139				
Methyl tert-butyl ether (MTBE)	11		"	10.0		107	76-135				
Methylcyclohexane	11		"	10.0		110	72-143				
Methylene chloride	11		"	10.0		107	55-137				
n-Butylbenzene	12		"	10.0		117	79-132				
n-Propylbenzene	11		"	10.0		112	78-133				
o-Xylene	11		"	10.0		108	78-130				
p- & m- Xylenes	22		"	20.0		112	77-133				
p-Isopropyltoluene	11		"	10.0		114	81-136				
sec-Butylbenzene	11		"	10.0		112	79-137				
Styrene	12		"	10.0		116	67-132				
tert-Butyl alcohol (TBA)	9.4		"	10.0		94.1	25-162				
tert-Butylbenzene	11		"	10.0		110	77-138				
Tetrachloroethylene	11		"	10.0		108	82-131				
Toluene	11		"	10.0		108	80-127				
trans-1,2-Dichloroethylene	11		"	10.0		115	80-132				
trans-1,3-Dichloropropylene	11		"	10.0		106	78-131				
Trichloroethylene	11		"	10.0		107	82-128				
Trichlorofluoromethane	11		"	10.0		111	67-139				
Vinyl Chloride	11		"	10.0		115	58-145				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>9.64</i>		<i>"</i>	<i>10.0</i>		<i>96.4</i>	<i>69-130</i>				
<i>Surrogate: Toluene-d8</i>	<i>9.89</i>		<i>"</i>	<i>10.0</i>		<i>98.9</i>	<i>81-117</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>9.96</i>		<i>"</i>	<i>10.0</i>		<i>99.6</i>	<i>79-122</i>				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit							Units	Level
Batch BA60665 - EPA 5030B										
LCS Dup (BA60665-BSD1)										
Prepared & Analyzed: 01/19/2016										
1,1,1,2-Tetrachloroethane	11		ug/L	10.0	109	82-126			3.46	30
1,1,1-Trichloroethane	11		"	10.0	115	78-136			2.47	30
1,1,2,2-Tetrachloroethane	11		"	10.0	106	76-129			3.83	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11		"	10.0	113	54-165			0.177	30
1,1,2-Trichloroethane	11		"	10.0	106	82-123			3.84	30
1,1-Dichloroethane	12		"	10.0	120	82-129			2.88	30
1,1-Dichloroethylene	12		"	10.0	124	68-138			1.14	30
1,2,3-Trichlorobenzene	10		"	10.0	102	76-136			0.294	30
1,2,3-Trichloropropane	10		"	10.0	104	77-128			0.384	30
1,2,4-Trichlorobenzene	11		"	10.0	108	76-137			0.838	30
1,2,4-Trimethylbenzene	11		"	10.0	109	82-132			0.365	30
1,2-Dibromo-3-chloropropane	9.6		"	10.0	95.6	45-147			8.90	30
1,2-Dibromoethane	10		"	10.0	105	83-124			3.60	30
1,2-Dichlorobenzene	11		"	10.0	106	79-123			2.10	30
1,2-Dichloroethane	11		"	10.0	107	73-132			1.89	30
1,2-Dichloropropane	11		"	10.0	108	78-126			2.91	30
1,3,5-Trimethylbenzene	11		"	10.0	111	80-131			0.453	30
1,3-Dichlorobenzene	11		"	10.0	109	86-122			0.276	30
1,4-Dichlorobenzene	10		"	10.0	104	85-124			0.0966	30
1,4-Dioxane	470		"	200	234	10-349			5.72	30
2-Butanone	12		"	10.0	125	49-152			7.57	30
2-Hexanone	8.4		"	10.0	84.0	51-146			19.6	30
4-Methyl-2-pentanone	5.9		"	10.0	58.7	57-145			4.53	30
Acetone	8.7		"	10.0	87.2	14-150			9.11	30
Acrolein	11		"	10.0	107	10-153			5.56	30
Acrylonitrile	9.0		"	10.0	89.6	51-150			38.8	30 Non-dir.
Benzene	11		"	10.0	114	85-126			1.87	30
Bromochloromethane	12		"	10.0	116	77-128			2.52	30
Bromodichloromethane	11		"	10.0	106	79-128			1.61	30
Bromoform	11		"	10.0	106	78-133			3.27	30
Bromomethane	15		"	10.0	149	43-168			3.24	30
Carbon disulfide	13		"	10.0	128	68-146			0.628	30
Carbon tetrachloride	12		"	10.0	116	77-141			0.516	30
Chlorobenzene	11		"	10.0	109	88-120			1.57	30
Chloroethane	11		"	10.0	114	65-136			0.616	30
Chloroform	11		"	10.0	114	82-128			4.21	30
Chloromethane	11		"	10.0	110	43-155			0.00	30
cis-1,2-Dichloroethylene	12		"	10.0	119	83-129			1.78	30
cis-1,3-Dichloropropylene	11		"	10.0	111	80-131			2.74	30
Cyclohexane	11		"	10.0	111	63-149			0.271	30
Dibromochloromethane	11		"	10.0	108	80-130			2.81	30
Dibromomethane	11		"	10.0	107	72-134			4.38	30
Dichlorodifluoromethane	10		"	10.0	100	44-144			2.36	30
Ethyl Benzene	11		"	10.0	110	80-131			0.274	30
Hexachlorobutadiene	11		"	10.0	114	67-146			1.22	30
Isopropylbenzene	11		"	10.0	110	76-140			0.452	30
Methyl acetate	12		"	10.0	115	51-139			1.49	30
Methyl tert-butyl ether (MTBE)	11		"	10.0	112	76-135			3.93	30
Methylcyclohexane	11		"	10.0	108	72-143			1.84	30
Methylene chloride	11		"	10.0	109	55-137			2.41	30
n-Butylbenzene	12		"	10.0	116	79-132			0.257	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
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Batch BA60665 - EPA 5030B

LCS Dup (BA60665-BSD1)

Prepared & Analyzed: 01/19/2016

n-Propylbenzene	11		ug/L	10.0		112	78-133		0.893	30	
o-Xylene	11		"	10.0		110	78-130		1.74	30	
p- & m- Xylenes	23		"	20.0		113	77-133		0.845	30	
p-Isopropyltoluene	11		"	10.0		114	81-136		0.702	30	
sec-Butylbenzene	11		"	10.0		110	79-137		1.44	30	
Styrene	12		"	10.0		118	67-132		1.88	30	
tert-Butyl alcohol (TBA)	10		"	10.0		100	25-162		6.38	30	
tert-Butylbenzene	11		"	10.0		110	77-138		0.00	30	
Tetrachloroethylene	11		"	10.0		108	82-131		0.371	30	
Toluene	11		"	10.0		109	80-127		1.48	30	
trans-1,2-Dichloroethylene	12		"	10.0		117	80-132		2.15	30	
trans-1,3-Dichloropropylene	11		"	10.0		107	78-131		0.562	30	
Trichloroethylene	11		"	10.0		107	82-128		0.654	30	
Trichlorofluoromethane	11		"	10.0		109	67-139		1.27	30	
Vinyl Chloride	11		"	10.0		113	58-145		1.49	30	
Surrogate: 1,2-Dichloroethane-d4	10.0		"	10.0		100	69-130				
Surrogate: Toluene-d8	9.90		"	10.0		99.0	81-117				
Surrogate: p-Bromofluorobenzene	9.94		"	10.0		99.4	79-122				

Matrix Spike (BA60665-MS1)

*Source sample: 16A0405-04 (HMW-7R)

Prepared & Analyzed: 01/19/2016

1,1,1,2-Tetrachloroethane	9.9		ug/L	10.0	ND	98.6	45-161				
1,1,1-Trichloroethane	11		"	10.0	ND	107	70-146				
1,1,2,2-Tetrachloroethane	9.5		"	10.0	ND	95.0	74-121				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.9		"	10.0	ND	89.3	21-217				
1,1,2-Trichloroethane	9.7		"	10.0	ND	97.0	59-146				
1,1-Dichloroethane	11		"	10.0	ND	108	54-146				
1,1-Dichloroethylene	11		"	10.0	ND	113	44-165				
1,2,3-Trichlorobenzene	10		"	10.0	ND	99.6	40-161				
1,2,3-Trichloropropane	10		"	10.0	ND	104	74-127				
1,2,4-Trichlorobenzene	9.4		"	10.0	ND	93.8	41-161				
1,2,4-Trimethylbenzene	9.4		"	10.0	ND	93.6	72-129				
1,2-Dibromo-3-chloropropane	10		"	10.0	ND	102	31-151				
1,2-Dibromoethane	9.6		"	10.0	ND	95.5	75-125				
1,2-Dichlorobenzene	9.5		"	10.0	ND	95.0	63-122				
1,2-Dichloroethane	9.6		"	10.0	ND	96.4	68-131				
1,2-Dichloropropane	9.5		"	10.0	ND	94.9	77-121				
1,3,5-Trimethylbenzene	9.4		"	10.0	ND	94.0	69-126				
1,3-Dichlorobenzene	9.3		"	10.0	ND	93.4	74-119				
1,4-Dichlorobenzene	8.9		"	10.0	ND	89.4	70-124				
1,4-Dioxane	450		"	200	ND	224	10-310				
2-Butanone	7.5		"	10.0	ND	75.3	10-193				
2-Hexanone	7.7		"	10.0	ND	77.4	53-133				
4-Methyl-2-pentanone	5.7		"	10.0	ND	57.0	38-150				
Acetone	12		"	10.0	2.8	94.6	13-149				
Acrolein	10		"	10.0	ND	105	10-195				
Acrylonitrile	9.2		"	10.0	ND	92.3	37-165				
Benzene	10		"	10.0	ND	104	38-155				
Bromochloromethane	10		"	10.0	ND	102	75-121				
Bromodichloromethane	9.5		"	10.0	ND	95.2	70-129				
Bromoform	9.3		"	10.0	ND	93.4	66-136				
Bromomethane	4.3		"	10.0	ND	43.3	30-158				
Carbon disulfide	11		"	10.0	ND	114	10-138				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BA60665 - EPA 5030B

Matrix Spike (BA60665-MS1)	*Source sample: 16A0405-04 (HMW-7R)						Prepared & Analyzed: 01/19/2016				
Carbon tetrachloride	11		ug/L	10.0	ND	107	71-146				
Chlorobenzene	9.8		"	10.0	ND	97.7	81-117				
Chloroethane	11		"	10.0	ND	107	51-145				
Chloroform	10		"	10.0	ND	104	80-124				
Chloromethane	9.2		"	10.0	ND	91.5	16-163				
cis-1,2-Dichloroethylene	10		"	10.0	ND	104	76-125				
cis-1,3-Dichloropropylene	9.2		"	10.0	ND	91.7	58-131				
Cyclohexane	16		"	10.0	6.2	93.0	70-130				
Dibromochloromethane	9.5		"	10.0	ND	95.3	71-129				
Dibromomethane	9.6		"	10.0	ND	95.7	76-120				
Dichlorodifluoromethane	7.4		"	10.0	1.9	54.6	30-147				
Ethyl Benzene	9.9		"	10.0	ND	99.3	72-128				
Hexachlorobutadiene	7.4		"	10.0	ND	74.1	34-166				
Isopropylbenzene	13		"	10.0	3.4	95.4	66-139				
Methyl acetate	20		"	10.0	ND	201	10-200	High Bias			
Methyl tert-butyl ether (MTBE)	17		"	10.0	6.8	102	75-128				
Methylcyclohexane	8.9		"	10.0	1.2	76.9	70-130				
Methylene chloride	9.7		"	10.0	ND	97.1	57-128				
n-Butylbenzene	9.5		"	10.0	1.1	84.0	61-138				
n-Propylbenzene	12		"	10.0	2.8	94.4	66-134				
o-Xylene	10		"	10.0	0.25	99.3	69-126				
p- & m- Xylenes	20		"	20.0	ND	100	67-130				
p-Isopropyltoluene	8.8		"	10.0	ND	88.5	64-137				
sec-Butylbenzene	11		"	10.0	2.0	87.5	53-155				
Styrene	11		"	10.0	ND	105	69-125				
tert-Butyl alcohol (TBA)	24		"	10.0	12	120	10-130				
tert-Butylbenzene	14		"	10.0	4.8	91.9	65-139				
Tetrachloroethylene	9.5		"	10.0	ND	94.8	64-139				
Toluene	10		"	10.0	ND	100	76-123				
trans-1,2-Dichloroethylene	11		"	10.0	ND	106	79-131				
trans-1,3-Dichloropropylene	9.5		"	10.0	ND	95.4	55-130				
Trichloroethylene	9.9		"	10.0	ND	98.8	53-145				
Trichlorofluoromethane	10		"	10.0	ND	101	61-142				
Vinyl Chloride	11		"	10.0	ND	105	31-165				
Surrogate: 1,2-Dichloroethane-d4	10.1		"	10.0		101	69-130				
Surrogate: Toluene-d8	9.75		"	10.0		97.5	81-117				
Surrogate: p-Bromofluorobenzene	10.2		"	10.0		102	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 BA60665 - EPA 5030B											
Matrix Spike Dup (BA60665-MSD1)	*Source sample: 16A0405-04 (HMW-7R)						Prepared & Analyzed: 01/19/2016				
1,1,1,2-Tetrachloroethane	9.5		ug/L	10.0	ND	95.0	45-161		3.72	30	
1,1,1-Trichloroethane	10		"	10.0	ND	103	70-146		4.19	30	
1,1,2,2-Tetrachloroethane	9.1		"	10.0	ND	91.0	74-121		4.30	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.1		"	10.0	ND	81.2	21-217		9.50	30	
1,1,2-Trichloroethane	9.3		"	10.0	ND	93.1	59-146		4.10	30	
1,1-Dichloroethane	11		"	10.0	ND	105	54-146		3.00	30	
1,1-Dichloroethylene	11		"	10.0	ND	106	44-165		5.66	30	
1,2,3-Trichlorobenzene	9.6		"	10.0	ND	96.0	40-161		3.68	30	
1,2,3-Trichloropropane	10		"	10.0	ND	102	74-127		2.62	30	
1,2,4-Trichlorobenzene	8.8		"	10.0	ND	88.3	41-161		6.04	30	
1,2,4-Trimethylbenzene	8.8		"	10.0	ND	87.5	72-129		6.74	30	
1,2-Dibromo-3-chloropropane	9.4		"	10.0	ND	93.8	31-151		8.18	30	
1,2-Dibromoethane	9.3		"	10.0	ND	93.1	75-125		2.55	30	
1,2-Dichlorobenzene	9.0		"	10.0	ND	90.0	63-122		5.41	30	
1,2-Dichloroethane	9.6		"	10.0	ND	96.2	68-131		0.208	30	
1,2-Dichloropropane	9.3		"	10.0	ND	93.3	77-121		1.70	30	
1,3,5-Trimethylbenzene	8.8		"	10.0	ND	88.5	69-126		6.03	30	
1,3-Dichlorobenzene	8.8		"	10.0	ND	87.9	74-119		6.07	30	
1,4-Dichlorobenzene	8.4		"	10.0	ND	84.5	70-124		5.64	30	
1,4-Dioxane	460		"	200	ND	230	10-310		2.88	30	
2-Butanone	8.7		"	10.0	ND	86.8	10-193		14.2	30	
2-Hexanone	8.1		"	10.0	ND	81.4	53-133		5.04	30	
4-Methyl-2-pentanone	5.7		"	10.0	ND	56.8	38-150		0.351	30	
Acetone	12		"	10.0	2.8	89.5	13-149		4.25	30	
Acrolein	9.6		"	10.0	ND	96.2	10-195		8.56	30	
Acrylonitrile	7.4		"	10.0	ND	73.5	37-165		22.7	30	
Benzene	10		"	10.0	ND	102	38-155		2.42	30	
Bromochloromethane	9.9		"	10.0	ND	99.2	75-121		3.27	30	
Bromodichloromethane	9.4		"	10.0	ND	94.0	70-129		1.27	30	
Bromoform	9.2		"	10.0	ND	91.5	66-136		2.06	30	
Bromomethane	4.5		"	10.0	ND	44.6	30-158		2.96	30	
Carbon disulfide	11		"	10.0	ND	108	10-138		5.23	30	
Carbon tetrachloride	10		"	10.0	ND	102	71-146		5.37	30	
Chlorobenzene	9.4		"	10.0	ND	93.8	81-117		4.07	30	
Chloroethane	10		"	10.0	ND	100	51-145		6.27	30	
Chloroform	10		"	10.0	ND	101	80-124		3.23	30	
Chloromethane	8.5		"	10.0	ND	85.2	16-163		7.13	30	
cis-1,2-Dichloroethylene	10		"	10.0	ND	102	76-125		2.53	30	
cis-1,3-Dichloropropylene	8.9		"	10.0	ND	88.8	58-131		3.21	30	
Cyclohexane	15		"	10.0	6.2	87.9	70-130		3.34	30	
Dibromochloromethane	9.4		"	10.0	ND	94.5	71-129		0.843	30	
Dibromomethane	9.4		"	10.0	ND	93.5	76-120		2.33	30	
Dichlorodifluoromethane	6.3		"	10.0	1.9	44.3	30-147		15.0	30	
Ethyl Benzene	9.4		"	10.0	ND	93.9	72-128		5.59	30	
Hexachlorobutadiene	7.5		"	10.0	ND	75.0	34-166		1.21	30	
Isopropylbenzene	13		"	10.0	3.4	91.8	66-139		2.83	30	
Methyl acetate	20		"	10.0	ND	201	10-200	High Bias	0.0995	30	
Methyl tert-butyl ether (MTBE)	17		"	10.0	6.8	101	75-128		0.592	30	
Methylcyclohexane	8.7		"	10.0	1.2	74.9	70-130		2.28	30	
Methylene chloride	9.4		"	10.0	ND	94.1	57-128		3.14	30	
n-Butylbenzene	9.2		"	10.0	1.1	81.3	61-138		2.88	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
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Batch BA60665 - EPA 5030B

Matrix Spike Dup (BA60665-MSD1)	*Source sample: 16A0405-04 (HMW-7R)					Prepared & Analyzed: 01/19/2016					
n-Propylbenzene	12		ug/L	10.0	2.8	87.8	66-134		5.54	30	
o-Xylene	9.7		"	10.0	0.25	94.1	69-126		5.24	30	
p- & m- Xylenes	19		"	20.0	ND	94.3	67-130		6.12	30	
p-Isopropyltoluene	8.5		"	10.0	ND	84.8	64-137		4.27	30	
sec-Butylbenzene	11		"	10.0	2.0	85.4	53-155		1.98	30	
Styrene	10		"	10.0	ND	99.6	69-125		5.37	30	
tert-Butyl alcohol (TBA)	22		"	10.0	12	101	10-130		7.86	30	
tert-Butylbenzene	14		"	10.0	4.8	90.3	65-139		1.15	30	
Tetrachloroethylene	8.7		"	10.0	ND	87.3	64-139		8.24	30	
Toluene	9.5		"	10.0	ND	94.7	76-123		5.64	30	
trans-1,2-Dichloroethylene	10		"	10.0	ND	101	79-131		5.01	30	
trans-1,3-Dichloropropylene	8.7		"	10.0	ND	86.9	55-130		9.33	30	
Trichloroethylene	9.2		"	10.0	ND	92.5	53-145		6.59	30	
Trichlorofluoromethane	8.8		"	10.0	ND	87.7	61-142		14.5	30	
Vinyl Chloride	9.7		"	10.0	ND	96.8	31-165		8.41	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>10.0</i>		<i>"</i>	<i>10.0</i>		<i>100</i>	<i>69-130</i>				
<i>Surrogate: Toluene-d8</i>	<i>9.71</i>		<i>"</i>	<i>10.0</i>		<i>97.1</i>	<i>81-117</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>10.4</i>		<i>"</i>	<i>10.0</i>		<i>104</i>	<i>79-122</i>				

Batch BA60698 - EPA 5030B

Blank (BA60698-BLK1)	Prepared & Analyzed: 01/19/2016										
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	0.23	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	2.0	"								
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	160	"								
2-Butanone	ND	2.0	"								
2-Hexanone	ND	2.0	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	1.9	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	"								



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BA60698 - EPA 5030B

Blank (BA60698-BLK1)

Prepared & Analyzed: 01/19/2016

Bromomethane	ND	0.50	ug/L								
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	0.21	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	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-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	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>10.4</i>		<i>"</i>	<i>10.0</i>		<i>104</i>	<i>69-130</i>				
<i>Surrogate: Toluene-d8</i>	<i>9.91</i>		<i>"</i>	<i>10.0</i>		<i>99.1</i>	<i>81-117</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>10.3</i>		<i>"</i>	<i>10.0</i>		<i>103</i>	<i>79-122</i>				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BA60698 - EPA 5030B

LCS (BA60698-BS1)

Prepared & Analyzed: 01/19/2016

1,1,1,2-Tetrachloroethane	10		ug/L	10.0		103	82-126			
1,1,1-Trichloroethane	11		"	10.0		108	78-136			
1,1,2,2-Tetrachloroethane	10		"	10.0		105	76-129			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10		"	10.0		102	54-165			
1,1,2-Trichloroethane	10		"	10.0		103	82-123			
1,1-Dichloroethane	11		"	10.0		111	82-129			
1,1-Dichloroethylene	11		"	10.0		113	68-138			
1,2,3-Trichlorobenzene	10		"	10.0		105	76-136			
1,2,3-Trichloropropane	11		"	10.0		106	77-128			
1,2,4-Trichlorobenzene	11		"	10.0		105	76-137			
1,2,4-Trimethylbenzene	10		"	10.0		104	82-132			
1,2-Dibromo-3-chloropropane	9.2		"	10.0		92.0	45-147			
1,2-Dibromoethane	10		"	10.0		102	83-124			
1,2-Dichlorobenzene	10		"	10.0		102	79-123			
1,2-Dichloroethane	11		"	10.0		105	73-132			
1,2-Dichloropropane	10		"	10.0		100	78-126			
1,3,5-Trimethylbenzene	11		"	10.0		105	80-131			
1,3-Dichlorobenzene	10		"	10.0		104	86-122			
1,4-Dichlorobenzene	10		"	10.0		101	85-124			
1,4-Dioxane	480		"	200		238	10-349			
2-Butanone	8.2		"	10.0		82.3	49-152			
2-Hexanone	7.3		"	10.0		73.2	51-146			
4-Methyl-2-pentanone	5.9		"	10.0		58.8	57-145			
Acetone	10		"	10.0		101	14-150			
Acrolein	8.3		"	10.0		83.1	10-153			
Acrylonitrile	9.6		"	10.0		96.5	51-150			
Benzene	11		"	10.0		108	85-126			
Bromochloromethane	11		"	10.0		110	77-128			
Bromodichloromethane	10		"	10.0		100	79-128			
Bromoform	10		"	10.0		102	78-133			
Bromomethane	5.5		"	10.0		54.7	43-168			
Carbon disulfide	12		"	10.0		116	68-146			
Carbon tetrachloride	11		"	10.0		108	77-141			
Chlorobenzene	10		"	10.0		102	88-120			
Chloroethane	10		"	10.0		103	65-136			
Chloroform	11		"	10.0		107	82-128			
Chloromethane	8.8		"	10.0		87.5	43-155			
cis-1,2-Dichloroethylene	11		"	10.0		107	83-129			
cis-1,3-Dichloropropylene	9.7		"	10.0		97.2	80-131			
Cyclohexane	10		"	10.0		101	63-149			
Dibromochloromethane	10		"	10.0		102	80-130			
Dibromomethane	10		"	10.0		103	72-134			
Dichlorodifluoromethane	8.0		"	10.0		79.5	44-144			
Ethyl Benzene	10		"	10.0		102	80-131			
Hexachlorobutadiene	10		"	10.0		103	67-146			
Isopropylbenzene	10		"	10.0		104	76-140			
Methyl acetate	9.9		"	10.0		98.7	51-139			
Methyl tert-butyl ether (MTBE)	11		"	10.0		108	76-135			
Methylcyclohexane	9.6		"	10.0		96.2	72-143			
Methylene chloride	10		"	10.0		102	55-137			
n-Butylbenzene	11		"	10.0		107	79-132			



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BA60698 - EPA 5030B

LCS (BA60698-BS1)

Prepared & Analyzed: 01/19/2016

n-Propylbenzene	10		ug/L	10.0		105	78-133				
o-Xylene	10		"	10.0		102	78-130				
p- & m- Xylenes	21		"	20.0		104	77-133				
p-Isopropyltoluene	10		"	10.0		105	81-136				
sec-Butylbenzene	10		"	10.0		103	79-137				
Styrene	11		"	10.0		111	67-132				
tert-Butyl alcohol (TBA)	10		"	10.0		99.7	25-162				
tert-Butylbenzene	10		"	10.0		103	77-138				
Tetrachloroethylene	10		"	10.0		100	82-131				
Toluene	10		"	10.0		101	80-127				
trans-1,2-Dichloroethylene	11		"	10.0		109	80-132				
trans-1,3-Dichloropropylene	9.5		"	10.0		95.2	78-131				
Trichloroethylene	9.9		"	10.0		98.6	82-128				
Trichlorofluoromethane	9.9		"	10.0		99.3	67-139				
Vinyl Chloride	9.7		"	10.0		96.9	58-145				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>10.1</i>		<i>"</i>	<i>10.0</i>		<i>101</i>	<i>69-130</i>				
<i>Surrogate: Toluene-d8</i>	<i>9.69</i>		<i>"</i>	<i>10.0</i>		<i>96.9</i>	<i>81-117</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>10.1</i>		<i>"</i>	<i>10.0</i>		<i>101</i>	<i>79-122</i>				

LCS Dup (BA60698-BSD1)

Prepared & Analyzed: 01/19/2016

1,1,1,2-Tetrachloroethane	11		ug/L	10.0		114	82-126		10.3	30	
1,1,1-Trichloroethane	11		"	10.0		112	78-136		3.55	30	
1,1,2,2-Tetrachloroethane	12		"	10.0		117	76-129		11.1	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11		"	10.0		107	54-165		5.17	30	
1,1,2-Trichloroethane	11		"	10.0		112	82-123		8.45	30	
1,1-Dichloroethane	11		"	10.0		114	82-129		2.84	30	
1,1-Dichloroethylene	12		"	10.0		117	68-138		3.48	30	
1,2,3-Trichlorobenzene	11		"	10.0		113	76-136		7.27	30	
1,2,3-Trichloropropane	12		"	10.0		120	77-128		12.1	30	
1,2,4-Trichlorobenzene	11		"	10.0		113	76-137		7.50	30	
1,2,4-Trimethylbenzene	11		"	10.0		114	82-132		9.19	30	
1,2-Dibromo-3-chloropropane	11		"	10.0		111	45-147		19.0	30	
1,2-Dibromoethane	11		"	10.0		114	83-124		11.2	30	
1,2-Dichlorobenzene	11		"	10.0		112	79-123		9.80	30	
1,2-Dichloroethane	11		"	10.0		108	73-132		2.54	30	
1,2-Dichloropropane	11		"	10.0		108	78-126		7.31	30	
1,3,5-Trimethylbenzene	11		"	10.0		112	80-131		6.80	30	
1,3-Dichlorobenzene	11		"	10.0		115	86-122		9.78	30	
1,4-Dichlorobenzene	11		"	10.0		112	85-124		9.49	30	
1,4-Dioxane	510		"	200		257	10-349		7.66	30	
2-Butanone	11		"	10.0		110	49-152		28.5	30	
2-Hexanone	9.5		"	10.0		95.0	51-146		25.9	30	
4-Methyl-2-pentanone	6.4		"	10.0		64.5	57-145		9.25	30	
Acetone	12		"	10.0		116	14-150		13.5	30	
Acrolein	9.0		"	10.0		90.1	10-153		8.08	30	
Acrylonitrile	10		"	10.0		99.5	51-150		3.06	30	
Benzene	11		"	10.0		112	85-126		3.83	30	
Bromochloromethane	11		"	10.0		114	77-128		3.49	30	
Bromodichloromethane	11		"	10.0		110	79-128		8.87	30	
Bromoform	11		"	10.0		112	78-133		9.92	30	
Bromomethane	6.9		"	10.0		69.1	43-168		23.3	30	
Carbon disulfide	12		"	10.0		120	68-146		3.14	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
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Batch BA60698 - EPA 5030B

LCS Dup (BA60698-BSD1)

Prepared & Analyzed: 01/19/2016

Carbon tetrachloride	11		ug/L	10.0		113	77-141		4.35	30	
Chlorobenzene	11		"	10.0		112	88-120		10.2	30	
Chloroethane	11		"	10.0		105	65-136		2.11	30	
Chloroform	11		"	10.0		112	82-128		4.83	30	
Chloromethane	8.8		"	10.0		88.3	43-155		0.910	30	
cis-1,2-Dichloroethylene	11		"	10.0		112	83-129		4.39	30	
cis-1,3-Dichloropropylene	11		"	10.0		108	80-131		10.2	30	
Cyclohexane	10		"	10.0		105	63-149		4.09	30	
Dibromochloromethane	12		"	10.0		116	80-130		12.2	30	
Dibromomethane	11		"	10.0		109	72-134		6.04	30	
Dichlorodifluoromethane	8.0		"	10.0		79.7	44-144		0.251	30	
Ethyl Benzene	11		"	10.0		112	80-131		9.29	30	
Hexachlorobutadiene	11		"	10.0		109	67-146		5.75	30	
Isopropylbenzene	11		"	10.0		112	76-140		8.24	30	
Methyl acetate	9.8		"	10.0		98.5	51-139		0.203	30	
Methyl tert-butyl ether (MTBE)	11		"	10.0		112	76-135		4.01	30	
Methylcyclohexane	10		"	10.0		100	72-143		4.27	30	
Methylene chloride	10		"	10.0		104	55-137		1.94	30	
n-Butylbenzene	11		"	10.0		115	79-132		6.67	30	
n-Propylbenzene	11		"	10.0		113	78-133		7.53	30	
o-Xylene	11		"	10.0		113	78-130		10.2	30	
p- & m- Xylenes	23		"	20.0		114	77-133		10.0	30	
p-Isopropyltoluene	11		"	10.0		114	81-136		8.05	30	
sec-Butylbenzene	11		"	10.0		110	79-137		7.22	30	
Styrene	12		"	10.0		122	67-132		9.97	30	
tert-Butyl alcohol (TBA)	11		"	10.0		110	25-162		10.3	30	
tert-Butylbenzene	11		"	10.0		111	77-138		7.00	30	
Tetrachloroethylene	11		"	10.0		108	82-131		7.58	30	
Toluene	11		"	10.0		110	80-127		8.93	30	
trans-1,2-Dichloroethylene	11		"	10.0		113	80-132		3.07	30	
trans-1,3-Dichloropropylene	11		"	10.0		109	78-131		13.4	30	
Trichloroethylene	11		"	10.0		107	82-128		7.89	30	
Trichlorofluoromethane	10		"	10.0		105	67-139		5.39	30	
Vinyl Chloride	9.9		"	10.0		99.4	58-145		2.55	30	
Surrogate: 1,2-Dichloroethane-d4	10.1		"	10.0		101	69-130				
Surrogate: Toluene-d8	9.74		"	10.0		97.4	81-117				
Surrogate: p-Bromofluorobenzene	9.95		"	10.0		99.5	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
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Batch BA60725 - EPA 5030B

Blank (BA60725-BLK1)

Prepared & Analyzed: 01/20/2016

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	2.0	"								
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	160	"								
2-Butanone	ND	2.0	"								
2-Hexanone	ND	2.0	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	1.1	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	"								



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BA60725 - EPA 5030B

Blank (BA60725-BLK1)

Prepared & Analyzed: 01/20/2016

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

10.3

"

10.0

103

69-130

Surrogate: Toluene-d8

9.95

"

10.0

99.5

81-117

Surrogate: p-Bromofluorobenzene

9.45

"

10.0

94.5

79-122

LCS (BA60725-BS1)

Prepared & Analyzed: 01/20/2016

1,1,1,2-Tetrachloroethane	11		ug/L	10.0		106	82-126				
1,1,1-Trichloroethane	11		"	10.0		109	78-136				
1,1,2,2-Tetrachloroethane	11		"	10.0		106	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10		"	10.0		104	54-165				
1,1,2-Trichloroethane	10		"	10.0		103	82-123				
1,1-Dichloroethane	11		"	10.0		113	82-129				
1,1-Dichloroethylene	11		"	10.0		114	68-138				
1,2,3-Trichlorobenzene	10		"	10.0		100	76-136				
1,2,3-Trichloropropane	11		"	10.0		107	77-128				
1,2,4-Trichlorobenzene	11		"	10.0		110	76-137				
1,2,4-Trimethylbenzene	11		"	10.0		110	82-132				
1,2-Dibromo-3-chloropropane	9.4		"	10.0		94.1	45-147				
1,2-Dibromoethane	10		"	10.0		103	83-124				
1,2-Dichlorobenzene	11		"	10.0		106	79-123				
1,2-Dichloroethane	10		"	10.0		104	73-132				
1,2-Dichloropropane	10		"	10.0		102	78-126				
1,3,5-Trimethylbenzene	11		"	10.0		112	80-131				
1,3-Dichlorobenzene	11		"	10.0		110	86-122				
1,4-Dichlorobenzene	11		"	10.0		108	85-124				
1,4-Dioxane	470		"	200		236	10-349				
2-Butanone	7.2		"	10.0		71.9	49-152				
2-Hexanone	7.5		"	10.0		75.0	51-146				
4-Methyl-2-pentanone	5.6		"	10.0		56.2	57-145	Low Bias			
Acetone	8.0		"	10.0		79.6	14-150				
Acrolein	8.1		"	10.0		80.8	10-153				
Acrylonitrile	9.0		"	10.0		89.6	51-150				
Benzene	11		"	10.0		110	85-126				
Bromochloromethane	11		"	10.0		111	77-128				
Bromodichloromethane	10		"	10.0		103	79-128				
Bromoform	10		"	10.0		102	78-133				
Bromomethane	9.2		"	10.0		91.9	43-168				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BA60725 - EPA 5030B

LCS (BA60725-BS1)

Prepared & Analyzed: 01/20/2016

Carbon disulfide	12		ug/L	10.0		118	68-146				
Carbon tetrachloride	11		"	10.0		110	77-141				
Chlorobenzene	11		"	10.0		105	88-120				
Chloroethane	10		"	10.0		104	65-136				
Chloroform	11		"	10.0		109	82-128				
Chloromethane	8.7		"	10.0		86.7	43-155				
cis-1,2-Dichloroethylene	12		"	10.0		115	83-129				
cis-1,3-Dichloropropylene	11		"	10.0		107	80-131				
Cyclohexane	10		"	10.0		104	63-149				
Dibromochloromethane	10		"	10.0		104	80-130				
Dibromomethane	10		"	10.0		104	72-134				
Dichlorodifluoromethane	7.3		"	10.0		73.3	44-144				
Ethyl Benzene	11		"	10.0		107	80-131				
Hexachlorobutadiene	11		"	10.0		112	67-146				
Isopropylbenzene	11		"	10.0		111	76-140				
Methyl acetate	11		"	10.0		110	51-139				
Methyl tert-butyl ether (MTBE)	11		"	10.0		108	76-135				
Methylcyclohexane	10		"	10.0		102	72-143				
Methylene chloride	10		"	10.0		104	55-137				
n-Butylbenzene	12		"	10.0		117	79-132				
n-Propylbenzene	11		"	10.0		112	78-133				
o-Xylene	11		"	10.0		106	78-130				
p- & m- Xylenes	22		"	20.0		108	77-133				
p-Isopropyltoluene	11		"	10.0		113	81-136				
sec-Butylbenzene	11		"	10.0		110	79-137				
Styrene	12		"	10.0		115	67-132				
tert-Butyl alcohol (TBA)	10		"	10.0		100	25-162				
tert-Butylbenzene	11		"	10.0		109	77-138				
Tetrachloroethylene	11		"	10.0		107	82-131				
Toluene	11		"	10.0		106	80-127				
trans-1,2-Dichloroethylene	11		"	10.0		111	80-132				
trans-1,3-Dichloropropylene	10		"	10.0		104	78-131				
Trichloroethylene	10		"	10.0		102	82-128				
Trichlorofluoromethane	10		"	10.0		101	67-139				
Vinyl Chloride	9.8		"	10.0		97.9	58-145				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>9.77</i>		<i>"</i>	<i>10.0</i>		<i>97.7</i>	<i>69-130</i>				
<i>Surrogate: Toluene-d8</i>	<i>9.73</i>		<i>"</i>	<i>10.0</i>		<i>97.3</i>	<i>81-117</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>10.1</i>		<i>"</i>	<i>10.0</i>		<i>101</i>	<i>79-122</i>				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit							Units	Level
Batch BA60725 - EPA 5030B										
LCS Dup (BA60725-BSD1)										
Prepared & Analyzed: 01/20/2016										
1,1,1,2-Tetrachloroethane	11		ug/L	10.0	109	82-126			2.89	30
1,1,1-Trichloroethane	11		"	10.0	112	78-136			2.08	30
1,1,2,2-Tetrachloroethane	11		"	10.0	110	76-129			3.88	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11		"	10.0	107	54-165			1.99	30
1,1,2-Trichloroethane	11		"	10.0	109	82-123			6.04	30
1,1-Dichloroethane	12		"	10.0	117	82-129			3.30	30
1,1-Dichloroethylene	12		"	10.0	116	68-138			1.57	30
1,2,3-Trichlorobenzene	11		"	10.0	112	76-136			10.9	30
1,2,3-Trichloropropane	11		"	10.0	114	77-128			5.89	30
1,2,4-Trichlorobenzene	11		"	10.0	112	76-137			1.98	30
1,2,4-Trimethylbenzene	11		"	10.0	108	82-132			2.29	30
1,2-Dibromo-3-chloropropane	10		"	10.0	102	45-147			7.76	30
1,2-Dibromoethane	11		"	10.0	108	83-124			4.36	30
1,2-Dichlorobenzene	11		"	10.0	108	79-123			1.59	30
1,2-Dichloroethane	11		"	10.0	110	73-132			5.68	30
1,2-Dichloropropane	10		"	10.0	104	78-126			1.55	30
1,3,5-Trimethylbenzene	11		"	10.0	108	80-131			3.37	30
1,3-Dichlorobenzene	11		"	10.0	109	86-122			1.19	30
1,4-Dichlorobenzene	11		"	10.0	106	85-124			1.77	30
1,4-Dioxane	520		"	200	262	10-349			10.4	30
2-Butanone	7.7		"	10.0	77.1	49-152			6.98	30
2-Hexanone	8.9		"	10.0	88.9	51-146			17.0	30
4-Methyl-2-pentanone	6.1		"	10.0	60.8	57-145			7.86	30
Acetone	8.1		"	10.0	80.9	14-150			1.62	30
Acrolein	8.0		"	10.0	79.6	10-153			1.50	30
Acrylonitrile	9.7		"	10.0	97.3	51-150			8.24	30
Benzene	11		"	10.0	113	85-126			2.86	30
Bromochloromethane	12		"	10.0	118	77-128			5.87	30
Bromodichloromethane	11		"	10.0	105	79-128			2.21	30
Bromoform	11		"	10.0	108	78-133			6.19	30
Bromomethane	7.4		"	10.0	73.9	43-168			21.7	30
Carbon disulfide	12		"	10.0	120	68-146			1.34	30
Carbon tetrachloride	11		"	10.0	112	77-141			1.53	30
Chlorobenzene	11		"	10.0	108	88-120			2.16	30
Chloroethane	10		"	10.0	104	65-136			0.193	30
Chloroform	11		"	10.0	114	82-128			4.21	30
Chloromethane	8.6		"	10.0	86.5	43-155			0.231	30
cis-1,2-Dichloroethylene	12		"	10.0	118	83-129			2.31	30
cis-1,3-Dichloropropylene	11		"	10.0	109	80-131			1.94	30
Cyclohexane	10		"	10.0	105	63-149			1.25	30
Dibromochloromethane	11		"	10.0	110	80-130			5.41	30
Dibromomethane	11		"	10.0	109	72-134			4.71	30
Dichlorodifluoromethane	7.4		"	10.0	73.5	44-144			0.272	30
Ethyl Benzene	11		"	10.0	108	80-131			0.934	30
Hexachlorobutadiene	11		"	10.0	108	67-146			3.45	30
Isopropylbenzene	11		"	10.0	107	76-140			3.48	30
Methyl acetate	12		"	10.0	120	51-139			8.44	30
Methyl tert-butyl ether (MTBE)	11		"	10.0	114	76-135			5.24	30
Methylcyclohexane	10		"	10.0	99.9	72-143			1.98	30
Methylene chloride	11		"	10.0	108	55-137			4.53	30
n-Butylbenzene	11		"	10.0	113	79-132			4.09	30



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

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

Batch BA60725 - EPA 5030B

LCS Dup (BA60725-BSD1)

Prepared & Analyzed: 01/20/2016

n-Propylbenzene	11		ug/L	10.0		109	78-133		2.54	30		
o-Xylene	11		"	10.0		108	78-130		1.49	30		
p- & m- Xylenes	22		"	20.0		109	77-133		0.918	30		
p-Isopropyltoluene	11		"	10.0		110	81-136		3.05	30		
sec-Butylbenzene	11		"	10.0		107	79-137		2.85	30		
Styrene	12		"	10.0		117	67-132		2.07	30		
tert-Butyl alcohol (TBA)	9.7		"	10.0		96.8	25-162		3.55	30		
tert-Butylbenzene	11		"	10.0		106	77-138		2.60	30		
Tetrachloroethylene	11		"	10.0		107	82-131		0.00	30		
Toluene	11		"	10.0		106	80-127		0.283	30		
trans-1,2-Dichloroethylene	11		"	10.0		113	80-132		1.51	30		
trans-1,3-Dichloropropylene	11		"	10.0		108	78-131		4.34	30		
Trichloroethylene	11		"	10.0		106	82-128		3.96	30		
Trichlorofluoromethane	9.7		"	10.0		96.6	67-139		4.16	30		
Vinyl Chloride	9.8		"	10.0		97.9	58-145		0.00	30		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>10.3</i>		<i>"</i>	<i>10.0</i>		<i>103</i>	<i>69-130</i>					
<i>Surrogate: Toluene-d8</i>	<i>9.76</i>		<i>"</i>	<i>10.0</i>		<i>97.6</i>	<i>81-117</i>					
<i>Surrogate: p-Bromofluorobenzene</i>	<i>9.93</i>		<i>"</i>	<i>10.0</i>		<i>99.3</i>	<i>79-122</i>					



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
16A0405-01	HMW-3R	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
16A0405-02	HMW-5	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
16A0405-03	HMW-6	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
16A0405-04	HMW-7R	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
16A0405-05	HMW-8	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
16A0405-06	HMW-9R	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
16A0405-07	HMW-10R	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
16A0405-08	HMW-13	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
16A0405-09	HMW-14	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
16A0405-10	DUP-20160113	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
16A0405-11	TB-20160113	40mL Clear Vial (pre-pres.) HCl; Cool to 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.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
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.
<hr/>	
*	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.



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Field Chain-of-Custody Record

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

York Project No. 16A0405

YOUR INFORMATION Company: <u>ES1</u> Address: <u>24 Davis Avenue</u> <u>Poughkeepsie NY 12503</u> Phone No. <u>(845) 452-1658</u> Contact Person: <u>R. Andujar - McNeil</u> E-Mail Address: <u>rusaura@ecosystemsstrategies.com</u>		Report To: Company: <u>ES1</u> Address: _____ Phone No. _____ Attention: <u>Brenda Wells</u> E-Mail Address: <u>brenda@ecosystemsstrategies.com</u>		Invoice To: Company: <u>ES1</u> Address: _____ Phone No. _____ Attention: <u>Brenda Wells</u> E-Mail Address: <u>brenda@ecosystemsstrategies.com</u>		YOUR PROJECT ID <u>G-H9964</u> Purchase Order No. <u>G-H9964</u>		Turn-Around Time <input type="checkbox"/> RUSH - Same Day <input type="checkbox"/> RUSH - Next Day <input type="checkbox"/> RUSH - Two Day <input type="checkbox"/> RUSH - Three Day <input type="checkbox"/> RUSH - Four Day <input checked="" type="checkbox"/> Standard (5-7 Days)		Report Type <input checked="" type="checkbox"/> Summary Report <input type="checkbox"/> Summary w/ QA Summary <input type="checkbox"/> CT RCP Package <input type="checkbox"/> CT RCP DQA/DUE Pkg <input checked="" type="checkbox"/> NY ASP A Package <input type="checkbox"/> NY ASP B Package <input type="checkbox"/> NJ DEP Red. Deliv. <input type="checkbox"/> Electronic Data Deliverables (EDD) <input checked="" type="checkbox"/> Simple Excel <input type="checkbox"/> NYSDEC EQUIS <input type="checkbox"/> EQUIS (std) <input type="checkbox"/> EZ-EDD (EQUIS) <input type="checkbox"/> NJ DEP SRP HazSite EDD <input type="checkbox"/> GIS/KEY (std) <input type="checkbox"/> Other York Regulatory Comparison <input type="checkbox"/> 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.

Rosaura Andujar - McNeil
 Samples Collected/Authorized By (Signature)
Rosaura Andujar - McNeil
 Name (printed)

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
HMW-3R	11/3/16 9:38	GW		(4) 40-ml vials
HMW-5	11:24			" "
HMW-6	10:54			" "
HMW-7R	12:48			(10)
HMW-8	12:22			(4)
HMW-9R	13:50			" "
HMW-10R	13:37			" "
HMW-13	11:09			" "
HMW-14	14:34			" "
WP-20160113				" "

4°C Frozen HNO₃ H₂SO₄ NaOH
 Other: _____
 Samples Relinquished By Christina Chene Date/Time 1-14-16 13:20
 Samples Relinquished By Christina Chene Date/Time 1/14/16 15:37
 Samples Relinquished By _____ Date/Time _____

Preservation Check those Applicable
 Special Instructions
 Field Filtered Lab to Filter
 Comments: Please use additional samples for HMW-7R for MS and MSD. Elevated PID @ HMW-10R.

Data Usability Summary Report

Haverstraw Harbors Site # GH9964.50
Haverstraw, New York

Groundwater Samples
Collected July 2015

August 2015

ZDATA REPORTS
Data Management and Validation Services
118 Rose Lane Terrace, Syracuse, NY 13219, (716) 907-2341

Data Usability Summary Report

**Groundwater Samples
Collected April 4, 2015**

**Haverstraw Harbors Site ESI File GH9964.50
Haverstraw, New York**

Prepared By:

**ZDataReports
Data Management and Validation Service
118 Rose Lane Terrace
Syracuse, New York 13219**

EXECUTIVE SUMMARY

This report addresses data quality for nine groundwater samples, one field duplicate and one trip blank collected at the Haverstraw Harbors Site ESI File GH9964.50 located in Haverstraw, New York. The samples were analyzed for volatile organics (VOCs) following New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) methodologies. Sample collection was performed by Ecosystems Strategies, Inc. of Poughkeepsie, New York. Analytical services were provided by York Analytical Laboratories, Inc. located in Stratford, Connecticut.

The volatile organics analysis data were determined to be usable for qualitative and quantitative purposes with no exceptions. Sample results for several compounds were qualified based on deviations from initial and continuing calibration criteria, and laboratory control samples.

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Appendix A - Data Validation Checklists

SECTION 1 - INTRODUCTION

1.1 Introduction

This report addresses data quality for nine groundwater samples, one field duplicate sample and one tip blank collected at Haverstraw Harbors Site ESI File GH9964.50 located in Haverstraw, New York. The samples were analyzed for volatile organics (VOCs) following New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) methodologies. Sample collection was performed by Ecosystems Strategies, Inc. of Poughkeepsie, New York. Analytical services were provided by York Analytical Laboratories, Inc. located in Stratford, Connecticut. The quantity and types of samples submitted for data validation are tabulated below.

Table 1: Introduction - Sample Summary Table

SDG#	Date Collected	Matrix	Sample Identification	
			Client ID	Laboratory ID
15G0568	07/14/2015	Groundwater	HMW-3R	15G0568-01
			HMW-5	15G0568-02
			HMW-6	15G0568-03
			HMW-7R	15G0568-04
			HMW-8	15G0568-05
			HMW-9R	15G0568-06
			HMW-10R	15G0568-07
			HMW-13	15G0568-08
			HMW-14	15G0568-09
			DUP-20150714	15G0568-10
			TP-201500714	15G0568-11

1.2 Analytical Methods

The samples were analyzed for volatile organics (VOCs) following New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) methodologies (2005 update). Laboratory analyses were provided by York Analytical Laboratories, Inc. located in Stratford, Connecticut.

1.3 Validation Protocols

Data validation is a process that involves the evaluation of analytical data against prescribed quality control criteria to determine the usefulness of the data. The analytical data addressed in this report were evaluated utilizing the quality control criteria presented in the following documents:

- *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review*, USEPA-540-R-08-01, June 2008.
- *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review*, USEPA-540-R-10-011, January 2010.
- *CLP Organics Data Review and Preliminary Review*, SOP No. HW-6 Revision #14, USEPA Region II, September 2006.

- *Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry SW-846 Method 8260B*, SOP No. HW-24 Revision #2, USEPA Hazardous Waste Support Branch, August 2008.
- *Exhibit E of New York State Department of Environmental Conservation Analytical Services Protocol (NYSDEC ASP)*, NYSDEC June 2005.

1.3.1 Organic Parameters

The validation of organic parameters for this project followed the requirements presented in the analytical methodology and the data validation guidelines presented above. The following QA/QC parameters were evaluated:

Volatile Organics Analyses

1. Holding Times
2. GC/MS Instrument Tuning Criteria
3. Calibration
 - a. Initial Calibration
 - b. Continuing Calibration
4. Blank Analysis
5. Surrogate Recovery
6. Matrix Spike / Matrix Spike Duplicate Analysis
7. Reference Standard Analysis
8. Internal Standards Recovery
9. Compound Identification and Quantification
10. Field Duplicate Analysis
11. System Performance
12. Documentation Completeness
13. Overall Data Assessment

1.4 Data Qualifiers

The following qualifiers as specified in the guidance documents presented in Section 1.3 of this report have been used for this data validation.

- U Indicates that the compound was analyzed for, but was not detected. The sample quantification limit is presented and adjusted for dilution. This qualifier is also used to signify that the detection limit of an analyte was raised due to blank contamination.
- J Indicates that the result should be considered approximate. This qualifier is used when the data validation procedure identifies a deficiency in the data generation process.
- UJ Indicates that the detection limit for the analyte in this sample should be considered approximate. This qualifier is used when the data validation process identifies a deficiency in the data generation process.

- R Indicates that the previously reported detection limit or sample result has been rejected due to a major deficiency in the data generation procedure. The data are considered to be unusable for both qualitative and quantitative purposes.

The following sections of this document present a summary of the data validation process. Section 2 discusses data compliance with established QA/QC criteria and qualifications performed on the sample data. A discussion of the Precision, Accuracy, Representativeness, Comparability, and Completeness (PARCC) of the data and data usability are discussed in Section 3. The USEPA Region II Data Validation Checklists are presented in Appendix A.

SECTION 2 - DATA VALIDATION SUMMARY

This section presents a discussion of QA/QC parameter compliance with established criteria and the qualification of data performed when QA/QC parameter deviations were identified. When several deviations from established QA/QC criteria were observed, the final qualifier assigned to the data was based on the cumulative effect of the deviations.

2.1 Volatiles Analysis

Data validation was performed for 11 groundwater samples including a trip blank and a blind duplicate sample. The QA/QC parameters presented in Section 1.3.2 of this report were found to be within specified limits with the exception of the following:

Initial Calibration

The initial calibration relative standard deviation (%RSD) limit, which requires the %RSD to be less than 30 percent, was exceeded for several compounds. Sample qualification included the approximation (J, UJ) of results when %RSD criteria were exceeded. Samples requiring qualification due to these deviations are tabulated below.

Table 3: Volatiles Organics Analyses – Initial Calibration Deviations

Date Analyzed	Compound	%RSD	Result Qualifier	Affected Samples
MSVOA7 07/22/2015	Acrolein	31.0 %	UJ	HMW-3R
	Acetone	34.0 %	J,UJ	HMW-5 HMW-6 HMW-7R HMW-8 HMW-9R HMW-10R HMW-13 HMW-14 DUP-20150714 TP-201500714

Continuing Calibration

The continuing calibration percent difference (%D) limit, which requires the %D to be less than 25 percent, was exceeded for several compounds. Sample qualification included the approximation (J, UJ) of results when %D criteria were exceeded, but were less than 90 percent. Non-detected results were rejected (R) for compounds with %D values greater than 90 percent. Samples requiring qualification due to these deviations are tabulated below.

Table 4: Volatile Organics Analysis - Continuing Calibration Deviations

Date Analyzed	Compound	%D	Result Qualifier	Affected Samples
MSVOA7 07/22/2015 (12:36)	Dichlorodifluoromethane	41.0 %	J, UJ	HMW-3R
	Chloromethane	31.8 %	UJ	HMW-5
	Acrolein	-75.3 %	UJ	HMW-6
	4-Methyl-2-pentanone	38.0 %	UJ	HMW-7R
	Styrene	-28.2 %	UJ	HMW-8
				HMW-10R
				HMW-13
				HMW-14
				DUP-20150714
				TP-201500714

Laboratory Control Sample Analysis

Laboratory control sample (LCS) recovery criteria requiring recoveries to be within laboratory generated control limits were exceeded for several compounds. Qualification of sample data included the approximation of results when spike recoveries were greater than the upper limit, but less than 200 percent or less than the lower limit, but greater than 10 percent. Non-detected sample results were rejected (R) for compounds with recoveries that were less than 10 percent. Samples qualified due to LCS recovery deviations are tabulated below.

Table 2: Volatile Organics Analysis - Laboratory Control Sample Deviations

Matrix	Compound	Percent Recovery	Control Limits	Qualifier	Affected Samples
Water BG51114	4-Methyl-2-pentanone	56.0 % / 60.5 %	57 % to 145 %	UJ	HMW-3R
					HMW-5
					HMW-6
					HMW-7R
					HMW-8
					HMW-9R
					HMW-10R
					HMW-13
					HMW-14
					DUP-20150714
					TP-201500714

Overall Data Assessment

Overall, the laboratory performed volatile organics analyses in accordance with the requirements specified in the method listed in Section 1.2. These data were determined to be usable for qualitative and quantitative purposes with the no exceptions. Sample results for several compounds were qualified based on deviations from initial calibration and continuing calibration criteria and deviations in laboratory control samples.

SECTION 3 - DATA USABILITY and PARCC EVALUATION

3.1 Data Usability

This section presents a summary of the usability of the analytical data and an evaluation of the PARCC parameters. Data usability was calculated as the percentage of data that was not qualified as rejected based on a significant deviation from established QA/QC criteria. Data usability, which was calculated separately for each type of analysis, is tabulated below.

Table 10: Data Usability and PARCC Evaluation - Data Usability

Parameter	Usability	Deviations
Volatile Parameters	100 %	None resulting in the rejection of data

3.2 PARCC Evaluation

The following sections provide an evaluation of the analytical data with respect to the precision, accuracy, representativeness, comparability, and completeness (PARCC) parameters.

3.2.1 Precision

Precision is measured through field duplicate samples, split samples, and laboratory duplicate samples. For this sampling program, 0.0 percent of the analytical data required qualification from field duplicate criteria deviations.

3.2.2 Accuracy

Matrix spike sample, surrogate recovery, internal standard recovery, laboratory control samples, and calibration criteria indicate the accuracy of the data. For this sampling program, 2.98 percent of the data were qualified for calibration criteria deviations, 1.49 percent of the data were qualified for laboratory control sample deviations, 0.0 percent of the data were qualified due to deviation in matrix spike criteria, and 0.0 percent of the data were qualified due to deviation in surrogate recovery criteria. Overall, 8.96 percent of the data were qualified due for deviations in accuracy metrics.

3.2.3 Representativeness

Holding times, sample preservation, and blank analysis are indicators of the representativeness of the analytical data. For this investigation, 0.00 percent of the analytical data required qualification for blank analysis deviations.

3.2.4 Comparability

Comparability is not compromised provided that the analytical methods did not change over time. A major component of comparability is the use of standard reference materials for calibration and QC. These standards are compared to other unknowns to verify their concentrations. Since standard analytical methods and reporting procedures were consistently used by the laboratory, the comparability criteria for the analytical data were met.

3.2.5 Completeness

The overall percent usability or completeness of the data was 100 percent.

APPENDIX A

DATA VALIDATION CHECKLISTS

Table of Contents

	<u>Page</u>
I. Part A: VOA Analyses	2

Data Validation Checklist - Part A: VOA Analyses

No:	Parameter	YES	NO	N/A
1.0	<u>Traffic Reports and Laboratory Narrative</u>			
1.1	Are the traffic Report Forms present for all samples?	X		
1.2	Do the Traffic Reports or Lab Narrative indicate any problems with sample receipt, condition of samples, analytical problems or special circumstances affecting the quality of the data?		X	
2.0	<u>Holding Times</u>			
2.1	Have any VOA technical holding times, determined from date of collection to date of analysis, been exceeded?		X	
3.0	<u>System Monitoring Compound (SMC) Recovery (Form II)</u>			
3.1	Are the VOA SMC Recovery Summaries (FORM II) present for each of the following matrices:			
	a. Low Water	X		
	b. Low Soil			X
	c. Air			X
3.2	Are all the VOA samples listed on the appropriate System Monitoring Compound Recovery Summary for each of the following matrices:			
	a. Low Water	X		
	b. Low Soil			X
	c. Air			X
3.3	Were outliers marked correctly with an asterisk?	X		
3.4	Was one or more VOA system monitoring compound recovery outside of contract specifications for any sample or method blank?		X	
	If yes, were samples re-analyzed?			X
	Were method blanks re-analyzed?			X
3.5	Are there any transcription/calculation errors between raw data and Form II?		X	
4.0	<u>Matrix Spikes (Form III)</u>			
4.1	Is the Matrix Spike/Matrix Spike Duplicate Recovery Form (Form III) present?	X		
4.2	Were matrix spikes analyzed at the required frequency for each of the following matrices?			
	a. Low Water	X		
	b. Low Soil			X
	c. Air			X
4.3	How many VOA spike recoveries are outside QC limits? Water <u> 0 </u> out of 67 Soils <u> </u> out of 54			
4.4	How many RPD's for matrix spike and matrix spike duplicate recoveries are outside QC limits? Water <u> 0 </u> out of 67 Soils <u> </u> out of 54			

Data Validation Checklist - Part A: VOA Analyses

No:	Parameter	YES	NO	N/A
5.0	<u>Blanks (Form IV)</u>			
5.1	Is the Method Blank Summary (Form IV) present?	X		
5.2	Frequency of Analysis: for the analysis of VOA TCL compounds, has a reagent/method blank been analyzed for each SDG or every 20 samples of similar matrix (low water, low soil, medium soil), whichever is more frequent?	X		
5.3	Has a VOA method/instrument blank been analyzed at least once every twelve hours for each concentration level and GC/MS system used?	X		
5.4	Is the chromatographic performance (baseline stability) for each instrument acceptable for VOAs?	X		
6.0	<u>Contamination</u>			
6.1	Do any method/instrument/reagent blanks have positive results (TCL and/or TIC) for VOAs?		X	
6.2	Do any field/trip/rinse blanks have positive VOA results (TCL and/or TIC)?		X	
6.3	Are there field/rinse/equipment blanks associated with every sample?	X		
7.0	<u>GC/MS Instrument Performance Check (Form V)</u>			
7.1	Are the GC/MS Instrument Performance Check Forms (Form V) present for Bromofluorobenzene (BFB)?	X		
7.2	Are the enhanced bar graph spectrum and mass/charge (m/z) listing for the BFB provided for each twelve hour shift?	X		
7.3	Has an instrument performance compound been analyzed for every twelve hours of sample analysis per instrument?	X		
7.4	Have the ion abundances been normalized to m/z 95?	X		
7.5	Have the ion abundance criteria been met for each instrument used?	X		
7.6	Are there any transcription/calculation errors between mass lists and Form V's?		X	
7.7	Have the appropriate number of significant figures (two) been reported?	X		
7.8	Are the spectra of the mass calibration compound acceptable?	X		
8.0	<u>Target Compound List (TCL) Analytes</u>			
8.1	Are the Organic Analysis Data Sheets (Form I VOA) present with required header information on each page, for each of the following:			
	a. Sample and/or fractions as appropriate?	X		
	b. Matrix spikes and matrix spike duplicates?	X		
	c. Blanks?	X		
8.2	Are the VOA Reconstructed Ion Chromatograms, the mass spectra for the identified compounds, and the data system printouts (Quant Reports) included in the sample package for each of the following?			
	a. Samples and/or fractions as appropriate?	X		
	b. Matrix spikes and matrix spike duplicates (Mass spectra not required)?	X		
	c. Blanks?	X		
8.3	Are the response factors shown in the Quant Report?	X		

Data Validation Checklist - Part A: VOA Analyses

No:	Parameter	YES	NO	N/A
8.4	Is the chromatographic performance acceptable with respect to:			
	Baseline stability?	X		
	Resolution?	X		
	Peak shape?	X		
	Full-scale graph (attenuation)?	X		
	Other:			X
8.5	Are the lab-generated standard mass spectra of the identified VOA compounds present for each sample?	X		
8.6	Is the RRT of each reported compound within 0.06 RRT units of the standard RRT in the continuing calibration?	X		
8.7	Are all ions in the standard mass spectrum at a relative intensity greater than 10% also present in the sample mass spectrum?	X		
8.8	Do sample and standard relative ion intensities agree within 20%?	X		
9.0	<u>Tentatively Identified Compounds (TIC)</u>			
9.1	Are all Tentatively Identified Compound Forms (Form I Part B) present; and do listed TICs include scan number or retention time, estimated concentration and “JN” qualifier?			X
9.2	Are the mass spectra for the tentatively identified compounds and associated “best match” spectra included in the sample package for each of the following:			
	a. Samples and/or fractions as appropriate?			X
	b. Blanks?			X
9.3	Are any TCL compounds (from any fraction) listed as TIC compounds?			X
9.4	Are all ions present in the reference mass spectrum with a relative intensity greater than 10% also present in the sample mass spectrum?			X
9.5	Do TIC and “best match” standard relative ion intensities agree within 20%?			X
10.0	<u>Compound Quantitation and Reported Detection Limits</u>			
10.1	Are there any transcription/calculation errors in Form I results?		X	
10.2	Are the CRQLs adjusted to reflect sample dilutions and, for soils, sample moisture?	X		
11.0	<u>Standards Data (GC/MS)</u>			
11.1	Are the Reconstructed Ion Chromatograms, and data system printouts present for initial and continuing calibration?	X		
12.0	<u>GC/MS Initial Calibration (Form VI)</u>			
12.1	Are the Initial Calibration Forms (Form VI) present and complete for the volatile fraction at concentrations of 10, 20, 50, 100, 200 ug/L? Are there separate calibrations for low/med soils and low soil samples?	X		
12.2	Were all low level soil standards, blanks, and samples analyzed by heated purge?			X
12.3	Are the response factors stable for VOA's over the concentration range of the calibration (%Relative Standard Deviation (%RSD) <30%)		X	
12.4	Are the RRFs above 0.01?	X		
12.5	Are there any transcription/calculation errors in the reporting of average response factors (RRF) or %RSD?		X	

Data Validation Checklist - Part A: VOA Analyses

No:	Parameter	YES	NO	N/A
13.0	<u>GC/MS Continuing Calibration (Form VII)</u>			
13.1	Are the Continuing Calibration Forms (Form VII) present and complete for the volatile fraction?	X		
13.2	Has a continuing calibration standard been analyzed for every twelve hours of sample analysis per instrument?	X		
13.3	Do any volatile compounds have a percent difference (%D) between the initial and continuing RRF which exceeds the +/- 25% criteria?	X		
13.4	Do any volatile compounds have a RRF <0.01?		X	
13.5	Are there any transcription/calculation errors in the reporting of average response factor (RRF) or %difference (%D) between initial and continuing RRFs?		X	
14.0	<u>Internal Standard (Form VIII)</u>			
14.1	Are the internal standard areas (Form VIII) of every sample and blank within the upper and lower limits (-50% to +100%) for each continuing calibration?	X		
14.2	Are the retention times of the internal standards within 30 seconds of the associated calibration standard?	X		
15.0	<u>Field Duplicates</u>			
15.1	Were any field duplicates submitted for VOA analysis?	X		



Ecosystems Strategies, Inc.

APPENDIX F

Engineering Controls Certification Form



Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
 Site Management Periodic Review Report Notice
 Institutional and Engineering Controls Certification Form



	Site Details	Box 1	
Site No. C344060			
Site Name Haverstraw Harbors Site			
Site Address: Dr. George W. Girling Drive	Zip Code: 10927-		
City/Town: Haverstraw			
County: Rockland			
Site Acreage: 5.0			
Reporting Period: December 04, 2014 to March 04, 2016			
		YES	NO
1. Is the information above correct?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
If NO, include handwritten above or on a separate sheet.			
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.			
5. Is the site currently undergoing development?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
		Box 2	
		YES	NO
6. Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial		<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Are all ICs/ECs in place and functioning as designed?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.			
A Corrective Measures Work Plan must be submitted along with this form to address these issues.			
_____ Signature of Owner, Remedial Party or Designated Representative		_____ Date	

Box 2A

8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?

YES NO

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C344060

Box 3

Description of Institutional Controls

<u>Parcel</u>	<u>Owner</u>	<u>Institutional Control</u>
27.14-1-5.1	Admiral's Cove Haverstraw, LLC	Ground Water Use Restriction Soil Management Plan Landuse Restriction Site Management Plan
27.62-2-12	Village of Haverstraw	Ground Water Use Restriction Soil Management Plan Landuse Restriction Site Management Plan
27.62-2-7.1	Admiral's Cover Haverstraw, LLC	Ground Water Use Restriction Soil Management Plan Landuse Restriction Site Management Plan
27.62-2-7.2	Admiral's Cove Haverstraw, LLC	Ground Water Use Restriction Soil Management Plan Landuse Restriction Site Management Plan
27.62-2-8	Village of Haverstraw	Ground Water Use Restriction Soil Management Plan Landuse Restriction Site Management Plan

Description of Engineering Controls

Box 4

<u>Parcel</u>	<u>Engineering Control</u>
27.14-1-5.1	Vapor Mitigation Cover System
27.62-2-12	Vapor Mitigation Cover System
27.62-2-7.1	Vapor Mitigation Cover System
27.62-2-7.2	Vapor Mitigation Cover System
27.62-2-8	Vapor Mitigation Cover System

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

(a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. C344060

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1, 2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Paul H. Ciminello at 24 Davis Avenue, Poughkeepsie, NY
print name print business address

am certifying as designated representative (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Paul H. Ciminello

04/05/2016

Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

Date

IC/EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

Ecosystems Strategies, Inc.

I Paul H. Ciminello at 24 Davis Avenue, Poughkeepsie, NY
print name print business address

am certifying as a Qualified Environmental Professional for the Owner
(Owner or Remedial Party)

Paul H Ciminello



04/05/2016

Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

Date