January 3, 2016

Groundwater and Surface Water Sampling Event September 2015

Report

Prepared for:
Syracusa Sand and Gravel Inc.

Site:
Modock Rd. Springs/DSL Sand & Gravel Inc. Site
Town of Victor, Ontario County, NY
NYSDEC Site No. 8-35-013

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1.0 INTRODUCTION

In accordance with our proposal dated August 17, 2015, **Marks Engineering, P.C.** (Marks Engineering), conducted a groundwater and surface water sample event in September of 2015 at the Modock Rd. Springs/DLS Sand & Gravel, Inc. Site located in the Town of Victor, Ontario County, New York (herein referred to as the "Site"). A Site Location Map is presented as **Figure 1**.

The Site is a New York State Department of Environmental Conservation (NYSDEC) Class 2 Inactive Hazardous Waste Site (Site No. 8-35-013). The scope of work presented herein is consistent with the NYSDEC request for sampling, provided by e-mail on May 20, 2015 (attached), and the NYSDEC Record of Decision (ROD) for the Site.

The objective of the September 2015 groundwater and surface water sample event, the findings of which are discussed in this Report, is part of the ROD's long-term plume management monitoring program to evaluate plume stability and the natural reduction of the chlorinated volatile organic compound (CVOC) contamination over time. This sample event included 10 monitoring wells and one surface water location as requested in the NYSDEC's May 20, 2015 e-mail.

This Report provides a summary of the groundwater and surface water sample event and is organized as follows:

- **Site Description and History** (Section 2) – presents a high level summary of the history and description of the Site
- **Scope of Work** (Section 3) – provides details on the scope of work and procedures that were used during the sample event
- **Results** (Section 4) – presents the field observations, findings and analytical results for laboratory samples collected during the sample event
- **Evaluation of Results and Conclusions** (Section 5) – presents an evaluation of the results and data

2.0 SITE DESCRIPTION AND HISTORY

The Site is comprised of a 173-acre parcel, currently operating as an active sand and gravel mine operated by Syracusa Sand and Gravel Inc. (Syracusa). The Site was acquired by Syracusa in 1953. Prior to Syracusa's ownership the property was used for agricultural purposes. The Site operated under the name of D.L.S. Sand and Gravel until 1973 when the corporate name was changed to Syracusa Sand and Gravel. From 1966 to 1971, a portion of the property was leased to Rochester Block, Inc. (NYSDEC, 2010).

A series of investigations at the Site have been conducted starting in approximately 1995. The data from the investigations generally shows that CVOCs, including trichloroethene (TCE), 1,1,1-trichloroethane (TCA), and 1,1-dichloroethene (1,1-DCE), were likely released on the property in the 1960s or 1970s and have contributed to both on-site and off-site CVOC contamination in groundwater (NYSDEC, 2010). The soil into which the CVOCs were first released; however, no longer exists on the Site. On the basis of the investigations, in 2001, the Department listed the site as a Class 2 site in the Registry of Inactive Hazardous Waste Disposal Sites in New York. After subsequent Site characterization, feasibility study and remedial alternatives analysis the ROD for the Site was issued in 2010.

The ROD selected the following remedy for the Site: (a) an environmental easement to restrict the future use of groundwater at the Site; (b) a Site Management Plan (SMP) which will require long-term plume management monitoring, maintenance of the Sub Slab Depressurization Systems (SSDSs) in several residences, long-term monitoring of soil vapor intrusion in residences requiring monitoring and periodic review reporting to the NYSDEC; and (c) a contingency for the implementation of a zero valent iron treatment injection to reduce contaminant mass in the area of highest groundwater CVOC concentrations if the results of the plume management monitoring demonstrate that the CVOC groundwater concentrations are not continuing to decline.

3.0 SCOPE OF WORK

This section provides details on the scope of work and procedures that were used during implementation of the groundwater and surface water sample event. The primary components of the scope of work were as follows:

- Installation of 10 passive diffusion sampling bags (PDBs) at the 10 groundwater monitoring wells requested by the NYSDEC (MW-4, MW-10, MW-13, MW-14, MW-15, MW-16, MW17s, MW-23, MW-24s and SS&G MW-3)

- Collection of 10 groundwater samples for laboratory analysis for Target Compound List (TCL) VOCs in accordance with USEPA Method 8260, including CVOCs
- Collection of one surface water sample (SC-1) from Modock Road Springs for laboratory analysis for TCL VOCs in accordance with USEPA Method 8260, including CVOCs
- Collection of Quality Assurance/ Quality Control (QA/QC) samples including one trip blank and one blind field duplicate for TCL VOCs in accordance with USEPA Method 8260, including CVOCs.

3.1 Sampling of Groundwater Monitoring Wells and Surface Water

3.1.1 Purpose and Objectives

The September 2015 groundwater and surface water sample event, the findings of which are discussed in this Report, is part of the ROD's long-term plume management monitoring program. The objective of the plume monitoring program is to evaluate plume stability and the natural reduction of the Site's chlorinated volatile organic compound (CVOC) contamination over time.

3.1.2 Methodology and Procedures

A total of 10 PDBs were installed in 10 groundwater monitoring wells (MW-4, MW-10, MW-13, MW-14, MW-15, MW-16, MW17s, MW-23, MW-24s and SS&G MW-3) at the Site on August 20, 2015. The locations of the monitoring wells are depicted on **Figure 1**.

Prior to the installation of each PDB the depth to water and depth to bottom of each well was gauged using a decontaminated water level probe. The field measurements were used to calculate the standing water column in each well. New nitrile gloves were donned by field personnel prior to the handling and installation of each PDB. PDBs were installed at the center of the standing water column or the midpoint of the screen (whichever was less) using new nylon twine and a stainless steel bottom weight. The weight was suspended from the bottom of the PDB with an appropriate length of string, the PDB and weight were slowly lowered to the bottom of the well (*i.e.,* the weight was felt to hit bottom and the suspension string affixed to the top of the PDB slacked) and the suspension string was secured at the surface at the top of the well casing. Field measurements were recorded on a field log included as **Appendix A**.

Upon completion of installation of each PDB, the water level probe was decontaminated by wiping the tape with a rag and using an Alconox®/potable water wash and a separate potable water rinse. Decontamination water associated with sampling activities was discharged to the ground surface adjacent to SS&G MW-3 upon completion of work. It is noted that the Alconox wash and rinse was not initially used during installation of PDBs at MW-4, MW-10 and MW-23.

A surface water sample (SC-1) was collected directly from the Modock Road Spring using a disposable polyethylene bailer. It is noted that the sample was collected prior to and on the west side of the corrugated steel drainage pipe that runs beneath the access road/foot path and subsequently discharges on the east side of the access road/footpath into a marsh area. Historically, however, upon discussions with the NYSDEC it was communicated that the SC-1 sample has been collected from the outlet of the culvert on the *east* side of the access road/foot path, as such, it is understood that future SC-1 samples shall be collected from the outlet of the culvert on the *east* side of the access road/foot path for consistency.

3.1.3 Collection and Analysis of Laboratory Samples

The PDBs were retrieved on September 8, 2015. One groundwater sample was collected for laboratory analysis from each monitoring well (MW-4, MW-10, MW-13, MW-14, MW-15, MW-16, MW17s, MW-23, MW-24s and SS&G MW-3). A blind laboratory duplicate (DUP090815) was collected at MW-17s. Samples were collected by retrieving each PDB from the respective well and placing the PDB on a new sheet of polyethylene sheeting. A corner of the PDB was cut with a pair of decontaminated scissors and the contents of the PDB were collected in appropriate laboratory-supplied sample containers. Samples were placed in a plastic cooler pre-chilled with ice and submitted under appropriate chain of custody protocols to ALS Environmental (ALS) located in Rochester, New York, for laboratory analysis for TCL VOCs in accordance with USEPA Method 8260.

The surface water sample (SC-1) was also collected in laboratory supplied glassware and submitted to ALS for TCL VOC 8260 analysis under the same chain of custody as the groundwater samples.

In the absence of a formal Quality Assurance Project Plan (QAPP), it was understood that the appropriate chain of custody protocols for collection of samples were to be complied with and a prequalified NYSDOH Environmental Laboratory Analytical

Program (ELAP)-certified laboratory would perform analysis of samples. Copies of the chain of custody forms are presented as **Appendix B**.

3.1.4 Reporting of Results

The laboratory report was provided in a results only, standard quality control (QC) format. At the request of the NYSDEC, the laboratory results were also provided in an electronic data deliverable (EDD) format. The EDD was submitted to the NYSDEC on December 17, 2015 and upload to the NYSDEC database on December 18, 2015. A copy of the laboratory reports are presented as **Exhibit A**.

3.2 Handling of Sampling-Related Waste

The groundwater and surface water sampling activities implemented at the Site produced sampling-related waste media including the following:

- Decontamination wash water, collected in 5 gallon pails, resulting from decontamination of equipment and sampling tools
- General refuse (i.e., paper towels, used personal protective equipment [PPE], etc.).
- The sampling related waste was disposed of as follows:
- Used decontamination water associated with decontamination of equipment and sampling tools was discharged to the ground surface of the Site adjacent to SS&G MW-3 at the completion of work.
- Used PPE and other general refuse was placed in trash bags and disposed of in the Syracusa's solid waste dumpster for disposal at a sanitary landfill.

4.0 RESULTS

During the September 2015 groundwater and surface water sampling event, one surface water sample (SC-1) and 10 groundwater samples were collected for laboratory analysis from 10 groundwater monitoring wells (MW-4, MW-10, MW-13, MW-14, MW-15, MW-16, MW17s, MW-23, MW-24s and SS&G MW-3). The groundwater and surface water sample analytical results were compared to the following NYSDEC standards, criteria and/or guidance values (SCGVs):

- Class GA groundwater and Class A surface water standards and guidance values referenced in Table 1 of the NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 document titled Ambient Water Quality Standard and Guidance Values and Groundwater Effluent Limitations (TOGS 1.1.1) dated June 1998 (as amended January 1999, April 2000 and June 2004).

4.1. Groundwater Sampling Results

As presented in **Table 1** below, detectable concentrations of three CVOCs (TCE, TCA and 1,1-DCE) were found in groundwater samples collected at the Site at eight of the monitoring wells (MW-4, MW-13, MW-14, MW-15, MW-16, MW-17s, MW-24s and SS&G MW-3); no other VOCs were detected.

Table 1 – Summary of Detected Groundwater Constituents

	Trichloroethene (TCE)	NYSDEC	1,1,1-Trichloroethane (TCA)	NYSDEC	1,1-Dichloroethene (1,1-DCE)	NYSDEC
MW-04	**82 ug/l**	5 ug/l	**17 ug/l**	5 ug/l	ND	5 ug/l
MW-13	**32 ug/l**	5 ug/l	**7.8 ug/l**	5 ug/l	ND	5 ug/l
MW-14	**120 ug/l**	5 ug/l	**25 ug/l**	5 ug/l	ND	5 ug/l
MW-15	ND	5 ug/l	**19 ug/l**	5 ug/l	ND	5 ug/l
MW-16	**250 ug/l**	5 ug/l	**42 ug/l**	5 ug/l	**9.3 ug/l**	5 ug/l
MW-17s	**480 ug/l**	5 ug/l	**43 ug/l**	5 ug/l	**8.3 ug/l**	5 ug/l
MW-24s	**110 ug/l**	5 ug/l	**27 ug/l**	5 ug/l	**6.8 ug/l**	5 ug/l
SS&G MW-3	**13 ug/l**	5 ug/l	**9.1 ug/l**	5 ug/l	ND	5 ug/l

Notes: Bold = constituent was detected
Shaded = constituent was detected above NYSDEC SCGV
ND = Non detect
NYSDEC = TOGS 1.1.1 Class GA groundwater SCGV
ug/l = milligrams per liter (parts per billion [ppb])

4.2. Surface Water Sampling Results

As presented in **Table 2** below, detectable concentrations of two CVOCs (TCE and TCA) were found in the surface water sample (SC-1) collected at the Site; no other VOCs were detected.

Table 2 – Summary of Detected Surface Water Constituents

	Trichloroethene (TCE)	NYSDEC	1,1,1-Trichloroethane (TCA)	NYSDEC	1,1-Dichloroethene (1,1-DCE)	NYSDEC
SC-1	**50 ug/l**	5 ug/l	**12 ug/l**	5 ug/l	ND	0.7 ug/l

Notes: Bold = constituent was detected
Shaded = constituent was detected above NYSDEC SCGV
ND = Non detect
NYSDEC = TOGS 1.1.1 Class A surface water SCGV
ug/l = milligrams per liter (parts per billion [ppb])

5.0 EVALUATION OF RESULTS AND CONCLUSIONS

The September 2015 groundwater and surface water sample event, the findings of which are discussed in this Report, is part of the ROD's long-term plume management monitoring program. The objective of the plume monitoring program is to evaluate plume stability and the natural reduction of the Site's chlorinated volatile organic compound (CVOC) contamination over time.

As presented in **Table 1** and **Table 2**, the laboratory results for VOC analysis of the groundwater samples collected at 10 on-Site wells (MW-4, MW-10, MW-13, MW-14, MW-15, MW-16, MW17s, MW-23, MW-24s and SS&G MW-3) indicate detections of CVOCs (*i.e.,* trichloroethene [TCE], 1,1,1-trichloroethane [TCA] and/or 1,1-dichloroethane) at eight wells (MW-04, MW-13, MW-14, MW-15, MW-16, MW-17s, MW-24s and SS&G MW-3) and the surface water sample location (SC-1). The detected concentrations of CVOCs were above the respective NYSDEC Class GA groundwater SCGV or in the case of the surface water sample (SC-1) above the respective NYSDEC Class A surface water SCGV.

The objective of the ROD's plume monitoring program is to evaluate plume stability and the natural reduction of CVOCs over time; therefore, a comparison of the September 2015 analytical data to the analytical data from historic sampling events, dating back as far as 1995, is presented on **Table 3**. As illustrated on **Table 3**, the data trend for the ten wells that were sampled as part of this monitoring event is decreasing concentrations of CVOC contaminants, with approximate percent reductions ranging from 49%-100%. The surface water concentrations of CVOC contaminants also continue to decline, showing contaminant reductions ranging from 55-81%. The data shows that the concentrations of the CVOCs in the plume are continuing to decline; indicating that natural attenuation of contaminants continues to occur, and satisfying the objectives of the remedy (long term plume management and monitored natural attenuation) selected for the Site in the ROD.

6.0 REFERENCES

NYSDEC, 1998, *Ambient Water Quality Standard and Guidance Values and Groundwater Effluent Limitations* - TOGS 1.1.1 (as amended January 1999, April 2000 and June 2004), Albany, New York

NYSDEC, 2010, *Record of Decision*, Modock Road Springs/DLS Sand and Gravel, Inc. Site Town of Victor, Ontario County, New York Site Number 8-35-013, January 2010

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Figures

FIGURE 1
SITE AND SAMPLE LOCATION MAP

N

September 2015 Groundwater Sample Event
Modock Road Springs
DLS Sand and Gravel, Inc
Site (HW 8-35-013)

LEGEND

- Monitoring Well Location
- Surface Water Sample
- Site Boundary

Notes:

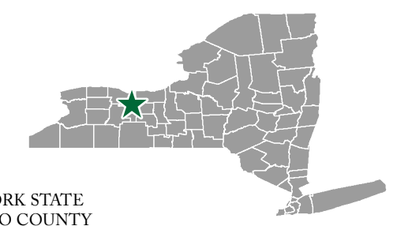
1) Well locations were created using Northing/Easting data.

2) Aerial imagery is from 5/31/2013.

3) Mapping prepared by Fisher Associates.

0 800 Feet

REGIONAL MAP



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TOWN OF VICTOR

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FIGURE 2
GROUNDWATER CONTOUR MAP

September 2015 Groundwater Sample Event
Modock Road Springs
DLS Sand and Gravel, Inc
Site (HW 8-35-013)

N

LEGEND

- Monitoring Well Location
- Surface Water Sample
- Groundwater Flow Direction
- Groundwater Elevation (ft. amsl)
- Site Boundary

Notes:

1) Well locations were created using Northing/Easting data.

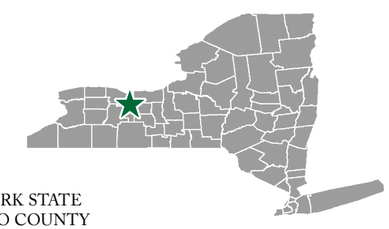
2) Aerial imagery is from 5/31/2013.

3) Monitoring well water levels were recorded on 8/20/2015.

4) Mapping prepared by Fisher Associates.

0 800 Feet

REGIONAL MAP



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SC-1
MW-4, 636.71'
MW-23, 655.16'
MW-10, 651.52'
MW-24S, 657.73'
MW-13, 715.86'
MW-15, 726.34'
MW-16, 689.37'
MW-17S, 701.7'
MW-14, 704.08'
SS&G MW-3, 735.34'
640
650
660
670
680
690
700
710
720
730
MODOCK RD
RAWSON RD
CORK RD
DRYER RD
PINE TREE DR
RED FOX RUN
WILLIS HILL RD
PILGRIM PASS
OAKWOOD DR
HUNTERS RUN
HEATHER LN
MALONE RD
UNNAMED STREET
DRIVEWAY

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Table 3 – Summary of Historic Data & Trends

Table 3 - Historic Data and Trends
Modock Rd. Springs/DSL Sand Gravel Inc. Site (NYSEC Site No. 8-35-013)

MW-1	8/11/1995	8/25/1995	8/7/1996	4/24/1997	7/29/1997	4/30/1998	5/23/2001	% Difference
TCE	240	210	320	250	220	200	180	-25
TCA	120	100	180	130	120	110	80	-33.333333
DCE	7.2	0	9	0	8.1	12	11	52.7777778
TCVOCs	367.2	310	509	380	348.1	322	271	-26.198257

MW-4	8/11/1995	8/25/1995	8/7/1996	4/24/1997	7/29/1997	4/30/1998	11/9/1999	5/23/2001	11/18/2004	11/17/2006	6/6/2007	6/30/2008	5/6/2009	9/21/2009	8/10/2010	10/30/2011	9/8/2015	% Difference	Data Trend[1]
TCE	160	160	200	240	200	180	140	150	200	130	100	120	100	120	120	20.7	82	-49	Down
TCA	110	96	150	140	110	74	85	72	79	41	36	40	34	35	34	14.3	17	-85	Down
DCE	6.9	5.1	7	5.6	7.7	7.4	9.7	11	10	6	5	5	4	6.5	6.2	0	0	-100	Down
TCVOCs	276.9	261.1	357	385.6	317.7	261.4	234.7	233	289	177	141	165	138	161.5	160.2	35	99	-64	Down

MW-5	8/11/1995	8/25/1995	8/7/1996	11/17/2006	6/6/2007	6/30/2008	5/6/2009	% Difference
TCE	20	21	38	12	6	8	8	-60
TCA	17	12	16	9	2	4	3	-82.352941
DCE	0	0.52	0	2	0	0	0	na
TCVOCs	37	33.52	54	23	8	12	11	-70.27027

MW-10	11/9/1999	11/17/2006	6/6/2007	6/30/2008	8/10/2010	10/30/2011	9/8/2015	% Difference	Data Trend[1]
TCE	0	0	1	0	0.7	20.8	0	#DIV/0!	Same
TCA	3.2	2	3	3	2.9	0	0	-100	Down
DCE	0	0	0	0	0	0	0	#DIV/0!	Same
TCVOCs	3.2	2	4	3	3.6	20.8	0	-100	Down

MW-13	11/10/2000	5/23/2001	10/31/2003	11/17/2006	6/6/2007	6/30/2008	5/5/2009	9/21/2009	8/10/2010	10/31/2011	12/28/2011	9/8/2015	% Difference	Data Trend[1]
TCE	610	450	340	180	150	150	150	150	150	31.8	104	32	-95	Down
TCA	540	400	260	180	150	180	170	130	120	37.8	71.9	7.8	-99	Down
DCE	66	58	31	31	20	24	23	23	20	0	11.2	0	-100	Down
TCVOCs	1216	908	631	391	320	354	343	303	290	69.6	187.1	39.8	-97	Down

MW-14	11/10/2000	5/23/2001	10/31/2003	11/18/2004	3/2/2005	9/15/2006	11/17/2006	6/6/2007	6/30/2008	5/5/2009	9/21/2009	8/10/2010	10/31/2011	9/8/2015	% Difference	Data Trend[1]
TCE	11000	3300	1000	950	1400	2600	470	1100	410	450	550	150	166	120	-99	Down
TCA	4600	880	210	200	280	360	150	250	120	110	100	31	41.4	25	-99	Down
DCE	570	120	32	28	54	45	23	38	16	14	17	5.3	5.06	0	-100	Down
TCVOCs	16170	4300	1242	1178	1734	3005	643	1388	546	574	667	186.3	212.46	145	-99	Down

MW-15	6/6/2007	6/30/2008	5/5/2009	8/10/2010	10/30/2011	9/8/2015	% Difference	Data Trend[1]
TCE	1.8	0	1	2.7	19.1	0	-100	Down
TCA	60	57	65	45	12.8	19	-68	Down
DCE	11	21	10	8.7	0	0	-100	Down
TCVOCs	72.8	78	76	56.4	31.9	19	-74	Down

MW-16	6/6/2007	6/30/2008	5/5/2009	8/10/2010	10/30/2011	12/28/2011	9/8/2015	% Difference	Data Trend[1]
TCE	350	340	520	450	51.6	464	250	-29	Down
TCA	98	120	150	86	53	82.6	42	-57	Down
DCE	19	21	25	0	2.41	17.2	9.3	-51	Down
TCVOCs	467	481	695	536	107.01	563.8	301.3	-35	Down

NOTES:

[1] Although included in the table for completeness, 2011 data is disregarded due to QA/QC concerns and not included in overall trend analysis.

Table 3 - Historic Data and Trends
Modock Rd. Springs/DSL Sand Gravel Inc. Site (NYSEC Site No. 8-35-013)

MW-17S	6/6/2007	6/30/2008	5/5/2009	8/10/2010	10/31/2011	12/28/2011	9/8/2015	% Difference	Data Trend[1]
TCE	850	2300	3700	2700	77.3	1220	480	-44	Down
TCA	81	330	410	250	65.6	102	43	-47	Down
DCE	26	55	120	62	2.74	21.5	8.3	-68	Down
TCVOCs	957	2685	4230	3012	145.64	1343.5	531.3	-44	Down

MW-23	8/20/2008	5/5/2009	8/10/2010	10/31/2011	9/8/2015	% Difference	Data Trend[1]
TCE	3	47	3.6	21.6	0	-100	Down
TCA	1	13	2.6	6.7	0	-100	Down
DCE	0	2	0	0	0	#DIV/0!	Same
TCVOCs	4	62	6.2	28.3	0	-100	Down

MW-24S	8/20/2008	5/5/2009	8/10/2010	10/31/2011	9/8/2015	% Difference	Data Trend[1]
TCE	210	190	150	24.1	110	-48	Down
TCA	62	64	46	20.4	27	-56	Down
DCE	9	9	10	0	6.8	-24	Down
TCVOCs	281	263	206	44.5	143.8	-49	Down

SS&G MW-3	4/24/2001	6/6/2007	6/30/2008	5/6/2009	9/21/2009	8/10/2010	11/1/2011	9/8/2015	% Difference	Data Trend[1]
TCE	327	28	18	24	25	16	6.39	13	-96	Down
TCA	224	45	29	40	30	19	16	9.1	-96	Down
DCE	52.9	6	0	5	5.4	3.8	0	0	-100	Down
TCVOCs	603.9	79	47	69	60.4	38.8	22.39	22.1	-96	Down

SS&G MW-5	4/24/2001	6/6/2007	6/30/2008	5/6/2009	% Difference
TCE	741	450	94	150	-79.757085
TCA	0	2	0	1	na
DCE	0	0	0	0	na
TCVOCs	741	452	94	151	-79.622132

SC-1	25-Aug-1995	9-May-2000	17-Nov-2006	15-Feb-2007	9-May-2007	6-Jun-2007	4-Oct-2007	25-Apr-2008	5/14/2008	6/30/2008	9/21/2009	8/10/2010	10/31/2011	3/19/2012	11/14/2012	9/8/2015	% Difference	Data Trend[1]
TCE	110	110	73	100	84	88	110	88	84	77	91	77	56.3	76	57	50	-55	Down
TCA	64	52	27	35	30	36	33	42	32	31	24	23	15.1	21	16	12	-81	Down
DCE	0	7.4	4	6	4	4	5.3	6	5	4	3.2	4.1	2.17	3.1	0	0	#DIV/0!	Same
TOTAL VOCs	174	169.4	104	141	118	128	148.3	136	121	112	118.2	104.1	73.57	100.1	73	62	-64	Down
															-58.04597701			
															0.27j			

NOTES:

[1] Although included in the table for completeness, 2011 data is disregarded due to QA/QC concerns and not included in overall trend analysis.

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Appendix A
Field Measurements Form

Modock Road Springs/DLS Sand Gravel Inc., Site
NYSDEC Site No. 8-35-013
Passive Diffusion Bag Groundwater Sampling Event
August/Sept 2015

		Field Measurements						Elevations									
Well ID	Top of PVC Elevation (ft. amsl)	Depth to Groundwater (ft. BTOC)	Measured Total Depth (ft. BTOC)	Standing Water Column (ft.)	Ft From Bottom Water Column Center (ft. BTOC)	PDB_{top} (from bottom of well)	PDB_{bottom} (from bottom of well)	Groundwater Elevation (ft. amsl)	Measured Total Depth (ft. amsl)	Water Column Center Elevation (ft. amsl)	PDB_{top} Elevation (ft. amsl)	PDB_{bottom} Elevation (ft. amsl)	Distance from PDB_{top} to Groundwater (ft.)	PDP Deploy Date	PDP Deploy Time	PDP Recovery Date	PDP Recovery Time
MW-4	676.61	39.96	51.05	11.15	~~5.575~~ 5.475	6'	4'							8/20/15	10:40A		
MW-10*	731.44	79.12	90.57	10.65	5.325	6.325	4.325							8/20/15	11:50A		
MW-13	781.20	65.34	74.97	9.63	4.815	5.815	3.815							8/20/15	~13:45		
MW-14*	759.17	55.09	64.24	9.15	4.575	5.575	3.575							8/20/15	14:10		
MW-15 ~~14~~	786.44	60.10	70.04	9.94	4.97	5.97	3.97							8/20/15	13:25		
MW-16	754.95	65.58	70.49	4.91	2.455	3.455	1.455							8/24/15	14:25		
MW-17S	760.09	58.39	68.25	9.86	4.93	5.93	3.93							8/20/15	~15:00		
MW-23	692.17	57.01	~~46.66~~ ~~46.08~~	9.65	~~4.825~~ 4.825	~~5.825~~ 5.825	3.825							8/20/15	11:20A		
MW-24S	722.31	64.58	74.00	9.42	4.71	5.71	5.71							8/20/15	12:00		
SS&G MW-3	805.43	70.09*	75.03	4.94	2.47	3.47	1.47							8/20/15	15:35		

*=15 FT SCREEN

Notes: MW-04 SOFT BOTTOM PDB: 2 FT

Weather: 80s, BREEZY, HUMID, OCC. SHOWERS HEAVY RAINS @ 15:35

MW-23: RELATIVELY FIRM BOTTOM.

MW-24S: NOT A SOFT BOTTOM

MW-15: ~~SOFT~~ FIRM BOTTOM

MW-13: SOFT BOTTOM

MW-14: NO CAP/J PLUG ON PVC. NO PROTECTIVE CASING LID EITHER. BORROWED 4" CASING LID FROM MW-13 (MW-13 LEFT W/ J-PLUG IN 2" PVC)
MW-14 HAS GOOD (FIRM) BOTTOM-SOLID.

MW-16 HARD BOTTOM

MW-17S HARD BOTTOM

SS&G MW-3: TOP OF PVC RISER. MEASUREMENTS FROM HIGHEST POINT OF PVC
BOTTOM IS HARD. NO J PLUG

FIELD MEASUREMENTS/READINGS BY JEREMY WOLF, MARKS ENGINEERING
FIELD NOTES RECORDED BY J. HAUGH NYSDEC.

Modock Road Springs/DLS Sand Gravel Inc., Site
NYSDEC Site No. 8-35-013
Passive Diffusion Bag Groundwater Sampling Event
August/Sept 2015

		Field Measurements							Elevations								
Well ID	Top of PVC Elevation (ft. amsl)	Depth to Groundwater (ft. BTOC)	Measured Total Depth (ft. BTOC)	Standing Water Column (ft.)	Water Column Center (ft. from bottom of well)	Target PDB_{top} (from bottom of well)	Target PDB_{bottom} (from bottom of well)	Distance from PDB_{top} to Groundwater (ft.)	Groundwater Elevation (ft. amsl)	Measured Total Depth (ft. amsl)	Water Column Center Elevation (ft. amsl)	PDB_{top} Elevation (ft. amsl)	PDB_{bottom} Elevation (ft. amsl)	PDP Deploy Date	PDP Deploy Time	PDP Recovery Date	PDP Recovery Time
MW-4	676.61	39.90	51.05	11.15	5.575	6	4	5.15	636.71					8/22/2015	10:40	9/8/2015	935
MW-10*	731.44	79.92	90.57	10.65	5.325	6.325	4.325	4.33	651.52					8/22/2015	11:50	9/8/2015	1030
MW-13	781.20	65.34	74.97	9.63	4.815	5.815	3.815	3.82	715.86					8/22/2015	13:45	9/8/2015	1120
MW-14*	759.17	55.09	64.24	9.15	4.575	5.575	3.575	3.58	704.08					8/22/2015	14:10	9/8/2015	1136
MW-15	786.44	60.10	70.04	9.94	4.97	5.97	3.97	3.97	726.34					8/22/2015	13:25	9/8/2015	1107
MW-16	754.95	65.58	70.49	4.91	2.455	3.455	1.455	1.46	689.37					8/22/2015	14:25	9/8/2015	1207
MW-17S	760.09	58.39	68.25	9.86	4.93	5.93	3.93	3.93	701.70					8/22/2015	15:00	9/8/2015	1150
MW-23	692.17	37.01	46.66	9.65	4.825	5.825	3.825	3.83	655.16					8/22/2015	11:20	9/8/2015	1012
MW-24S	722.31	64.58	74.00	9.42	4.71	5.71	3.71	3.71	657.73					8/22/2015	12:00	9/8/2015	1045
SS&G MW-3	805.43	70.09	75.03	4.94	2.47	3.47	1.47	1.47	735.34					8/22/2015	15:35	9/8/2015	1235

Weather: 8/20/15 - 80s, Breezy, Humid, Occasional Showers, Heavy Rain at 15:35; 9/8/15 Warm humid, 90's with slight breeze at times

Notes:
MW-04: Soft Bottom
MW-23: Relatively firm bottom
MW-24S: Hard bottom
MW-15: Firm Bottom
MW-13: Soft Bottom
MW-14: No cap or JPlug on PVC. No protective casing lid either. Borrowed 4" steel casing lid from MW-13 (MW-13 left w/ Jplug in 2" PVC)
MW-16: Hard Bottom
MW-17S: Hard Bottom
SS&G MW-3: Top of PVC broken. Measurements recorded from highest point of PVC. Bottom is hard. No Jplug on well. Well capped with a plastic bag.

Collected Blind Laboratory Dup @ MW-17s Sample ID: DUP090815, Time: 1600

Appendix B
Laboratory Chain of Custody Forms

ALS Environmental

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

30720

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 2

Project Name: NYSDEC Site No 8-35-013	Project Number: 15-027
Project Manager: Jeremy Wolf	Report CC:
Company/Address: Marks Engineering 152 Yellow Mills Road Palmyra, NY 14522	
Phone #: 585-500-8392	Email: JWolf@marksengineering.com
Sampler's Signature:	Sampler's Printed Name: Jeremy Wolf

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 1

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs ◦ 8260 ◦ 624 ◦ CLP	GC/MS SVOAs ◦ 8270 ◦ 625	GC VOAs ◦ 8021 ◦ 601/602	PESTICIDES ◦ 8081 ◦ 608	PCBs ◦ 8082 ◦ 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	REMARKS/ ALTERNATE DESCRIPTION
MW-4		9/8/15	0945	GW	3	3							
MW-23		9/8/15	1015	GW	3	3							
MW-10		9/8/15	1035	GW	3	3							
MW-24S		9/8/15	1050	GW	3	3							
MW-15		9/8/15	1110	GW	3	3							
MW-13		9/8/15	1125	GW	3	3							
MW-14		9/8/15	1140	GW	3	3							
MW-17S		9/8/15	1155	GW	3	3							
MW-16		9/8/15	1215	GW	3	3							
SS&G MW-3		9/8/15	1240	GW	3	3							
SC-1		9/8/15	1345	SW	3	3							

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

Report. PDF. only to

JWolf@marksengineering.com

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 1 day _____ 2 day _____ 3 day
_____ 4 day X 5 day
REQUESTED REPORT DATE _____

REPORT REQUIREMENTS
X I. Results Only
_____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
_____ III. Results + QC and Calibration Summaries
_____ IV. Data Validation Report with Raw Data
Edata _____ Yes _____ No

INVOICE INFORMATION
PO # 15-027
BILL TO: Marks Engineering
152 Yellow Mills Rd.
Palmyra, NY 14522

STATE WHERE SAMPLES WERE COLLECTED

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Jeremy Wolf	Signature: [illegible]	Signature	Signature	Signature	Signature
Printed Name	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Marks Engineering	Firm: 9/8/15 1430	Firm	Firm	Firm	Firm
Date/Time: 9/8/15 1430	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Lab Copy; Yellow - Return to Originator

ALS Environmental

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

30719

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 2 OF 2

Project Name: NYSDEC Site No 8-35-013	Project Number: 15-027
Project Manager: Jeremy Wolf	Report CC:
Company/Address: Marks Engineering 152 Yellow Mills Road Palmyra NY 14522	
Phone #: 585-500-8392	Email: JWolf@marksengineering.com
Sampler's Signature:	Sampler's Printed Name: Jeremy Wolf

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 1

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs ○ 8260 ○ 624 ○ CLP	GC/MS SVOAs ○ 8270 ○ 625	GC VOAs ○ 8021 ○ 601/602	PESTICIDES ○ 8081 ○ 608	PCBs ○ 8082 ○ 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	REMARKS/ ALTERNATE DESCRIPTION
DUP090815		9/8/15	1600	GW	2	2							

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

Report PDF only to JWolf@marksengineering.com

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 1 day _____ 2 day _____ 3 day
_____ 4 day X 5 day

REQUESTED REPORT DATE: _____

REPORT REQUIREMENTS
X I. Results Only
_____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
_____ III. Results + QC and Calibration Summaries
_____ IV. Data Validation Report with Raw Data

Edata _____ Yes _____ No

INVOICE INFORMATION
PO # 15-027
BILL TO: Marks Engineering
152 Yellow Mills Rd.
Palmyra, NY 14522

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature:	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name: Jeremy Wolf	Printed Name: ALS	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Firm: Marks Engineering	Firm: 9/8/15 / 1430	Firm:	Firm:	Firm:	Firm:
Date/Time: 9/8/15 1430	Date/Time:	Date/Time:	Date/Time:	Date/Time:	Date/Time:

Distribution: White - Lab Copy; Yellow - Return to Originator

MarksEngineering

Exhibit A

NYSDEC Request For Sampling

(via e-mail May 20, 2015)

Jeremy Wolf

From: Haugh, Joshua G (DEC) <joshua.haugh@dec.ny.gov>
Sent: Friday, August 14, 2015 12:26 PM
To: jwolf@marksengineering.com
Cc: Putzig, Bart X (DEC); John Wilson
Subject: FW: Modock Road Springs site #835013 - Groundwater monitoring
Attachments: July_15_2010_PDB_Deploy_Table_Modock.pdf; report.hw835013.2012-04-06.Groundwater_Monitoring_Eventpdf.pdf

Jeremy,

The email below summarizes the approach for the upcoming sampling event at the Modock Road Springs site. As I explained on the phone this morning, this event is requested in advance of a finalized SMP, and it's anticipated that subsequent sampling events will be in accordance with an approved SMP.

I also attached the 2012 TriTech report. See summary tables (including historical analytical results for the short list wells) in Appendix E. I also attached the Department's response to this sampling event, which includes the results of the limited re-sampling event.

In regard to methodology, bottom weights were used previously and should be used going forward to ensure proper PDB placement depth. Rope line is acceptable if single use, but stainless steel or Teflon coated stainless steel wire is preferred and can be reused for future sampling rounds.

Here is a link to an appropriate guidance document that describes proper PDB deployment:
http://www.itrcweb.org/GuidanceDocuments/DSP-1a.pdf

Thanks,

Josh Haugh

NYSDEC
DER Bureau E

From: Haugh, Joshua G (DEC)
Sent: Wednesday, May 20, 2015 11:10 AM
To: Shannon Petch
Cc: vail1@aol.com; Kenney, Julia (HEALTH); Putzig, Bart (DEC); Cruden, Michael (DEC)
Subject: Modock Road Springs site #835013 - Groundwater monitoring

Shannon,

The state is still reviewing the SMP submitted by ERM and I anticipate having comments back to you in 1-2 weeks.

Last week I spoke with Mark Syracusa of DLS Sand & Gravel about performing a groundwater sampling round this spring (in advance of a final SMP). For the purposes of this event, sampling locations should include the ten (10) monitoring wells that were last sampled by TriTech Environmental Health & Safety, Inc. in October/December 2011, as well as the one (1) surface water location (SC-1) that was also sampled by TriTech in 2011 and was last sampled by the Department in November 2012. In general, sampling, analysis and QA/QC shall be in accordance with DER-10. PDB placement for this event shall be consistent with past Department sampling events (note that incorrect PDB placement by TriTech in

2011 led to artificially low contaminant concentrations). Please refer to the attached table for the list of monitoring well locations and PDB placement guidance. The PDBs should be deployed at least 2 weeks before samples are collected. Samples shall be submitted to an ELAP accredited laboratory for TCL VOCs.

Please contact me with any questions or concerns and to discuss the schedule so I can arrange to meet you at the site.

Thanks,

Josh Haugh

NYSDEC
Division of Environmental Remediation
Remedial Bureau E
625 Broadway
Albany, New York 12233-7017
Telephone: 518-402-9814
Fax: 518-402-9819

MarksEngineering

Exhibit B

Laboratory Reports

September 23, 2015 Service Request No:R1507468

Mr. Jeremy Wolf
Marks Engineering, PC
152 Yellow Mills Road
Palmyra, NY 14522

Laboratory Results for: NYSDEC Site No. 8-35-013

Dear Mr.Wolf,

Enclosed are the results of the sample(s) submitted to our laboratory September 09, 2015
For your reference, these analyses have been assigned our service request number **R1507468.**

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7473. You may also contact me via email at Tracy.Christ@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Tracy Christ
Project Manager

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
PHONE +1 585 288 5380 | FAX +1 585 288 8475
ALS Group USA, Corp.
dba ALS Environmental

CASE NARRATIVE

Client:	Marks Engineering	**Service Request No.:**	R1507468
Project:	NYSDEC Site No8-35-013/15-027	**Date Received:**	9/8/15
Sample Matrix:	Water		

All analyses were performed consistent with the quality assurance program of ALS. This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses.

Sample Receipt

Twelve water samples and one trip blank were received for analysis at ALS Environmental The sample was received in good condition and consistent with the accompanying chain of custody form. The sample was stored in a refrigerator between 1ºC and 6°C upon receipt at the laboratory.

Organics

The Continuing Calibration Verification on 9/10/15 was outside the control limits for Chloromethane, on 9/11/15 for 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, Carbon Tetrachloride, and Tetrachloroethene, and on 9/14/15 for Carbon tetrachloride. All positive detections for samples associated with their relevant CCVs should be considered as estimated.

The Laboratory Control Sample on 9/11/15 was outside the control limits. No data was affected.

No other analytical or QC problems were encountered.

Client: Marks Engineering, PC **Service Request:**R1507468
Project: NYSDEC Site No. 8-35-013/15-027

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R1507468-001	MW-4	9/8/2015	0945
R1507468-002	MW-23	9/8/2015	1015
R1507468-003	MW-10	9/8/2015	1035
R1507468-004	MW-24S	9/8/2015	1050
R1507468-005	MW-15	9/8/2015	1110
R1507468-006	MW-13	9/8/2015	1125
R1507468-007	MW-14	9/8/2015	1140
R1507468-008	MW-17S	9/8/2015	1155
R1507468-009	MW-16	9/8/2015	1215
R1507468-010	SS&G MW-3	9/8/2015	1240
R1507468-011	SC-1	9/8/2015	1345
R1507468-012	DUP090815	9/8/2015	1600
R1507468-013	TRIP BLANK	9/8/2015	

REPORT QUALIFIERS AND DEFINITIONS

U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.

J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).

B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.

E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.

E Organics- Concentration has exceeded the calibration range for that specific analysis.

D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.

* Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.

H Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.

Spike was diluted out.

\+ Correlation coefficient for MSA is <0.995.

N Inorganics- Matrix spike recovery was outside laboratory limits.

N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.

S Concentration has been determined using Method of Standard Additions (MSA).

W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.

P Concentration >40% (25% for CLP) difference between the two GC columns.

C Confirmed by GC/MS

Q DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).

X See Case Narrative for discussion.

MRL Method Reporting Limit. Also known as:
LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.

MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).

LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.

ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

ACCREDITED IN ACCORDANCE WITH nelac

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID # 294100 A/B
Delaware Accredited	Nebraska Accredited	
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

[1] Analyses were performed according to our laboratoryôs NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads

Client:	Marks Engineering, PC	**Service Request:**	R1507468
Project:	NYSDEC Site No. 8-35-013/15-027	**Date Collected:**	09/08/15 09:45
Sample Matrix:	Water	**Date Received:**	09/08/15 14:30
Sample Name:	MW-4	**Units:**	ug/L
Lab Code:	R1507468-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	**17**	5.0	1	09/10/15 16:18	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	09/10/15 16:18	
1,1,2-Trichloroethane	5.0 U	5.0	1	09/10/15 16:18	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	09/10/15 16:18	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	09/10/15 16:18	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	09/10/15 16:18	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	09/10/15 16:18	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	09/10/15 16:18	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	09/10/15 16:18	
1,2-Dibromoethane	5.0 U	5.0	1	09/10/15 16:18	
1,2-Dichlorobenzene	5.0 U	5.0	1	09/10/15 16:18	
1,2-Dichloroethane	5.0 U	5.0	1	09/10/15 16:18	
1,2-Dichloropropane	5.0 U	5.0	1	09/10/15 16:18	
1,3-Dichlorobenzene	5.0 U	5.0	1	09/10/15 16:18	
1,4-Dichlorobenzene	5.0 U	5.0	1	09/10/15 16:18	
1,4-Dioxane	100 U	100	1	09/10/15 16:18	
2-Butanone (MEK)	10 U	10	1	09/10/15 16:18	
2-Hexanone	10 U	10	1	09/10/15 16:18	
4-Methyl-2-pentanone	10 U	10	1	09/10/15 16:18	
Acetone	10 U	10	1	09/10/15 16:18	
Benzene	5.0 U	5.0	1	09/10/15 16:18	
Bromochloromethane	5.0 U	5.0	1	09/10/15 16:18	
Bromodichloromethane	5.0 U	5.0	1	09/10/15 16:18	
Bromoform	5.0 U	5.0	1	09/10/15 16:18	
Bromomethane	5.0 U	5.0	1	09/10/15 16:18	
Carbon Disulfide	10 U	10	1	09/10/15 16:18	
Carbon Tetrachloride	5.0 U	5.0	1	09/10/15 16:18	
Chlorobenzene	5.0 U	5.0	1	09/10/15 16:18	
Chloroethane	5.0 U	5.0	1	09/10/15 16:18	
Chloroform	5.0 U	5.0	1	09/10/15 16:18	
Chloromethane	5.0 U	5.0	1	09/10/15 16:18	
Cyclohexane	10 U	10	1	09/10/15 16:18	
Dibromochloromethane	5.0 U	5.0	1	09/10/15 16:18	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	09/10/15 16:18	
Dichloromethane	5.0 U	5.0	1	09/10/15 16:18	
Ethylbenzene	5.0 U	5.0	1	09/10/15 16:18	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	09/10/15 16:18	
Methyl Acetate	10 U	10	1	09/10/15 16:18	
Methyl tert-Butyl Ether	5.0 U	5.0	1	09/10/15 16:18	
Methylcyclohexane	10 U	10	1	09/10/15 16:18	
Styrene	5.0 U	5.0	1	09/10/15 16:18	
Tetrachloroethene (PCE)	5.0 U	5.0	1	09/10/15 16:18	
Toluene	5.0 U	5.0	1	09/10/15 16:18	

Analytical Report

Client:	Marks Engineering, PC	**Service Request:**	R1507468
Project:	NYSDEC Site No. 8-35-013/15-027	**Date Collected:**	09/08/15 09:45
Sample Matrix:	Water	**Date Received:**	09/08/15 14:30
Sample Name:	MW-4	**Units:**	ug/L
Lab Code:	R1507468-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	**82**	5.0	1	09/10/15 16:18	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	09/10/15 16:18	
Vinyl Chloride	5.0 U	5.0	1	09/10/15 16:18	
cis-1,2-Dichloroethene	5.0 U	5.0	1	09/10/15 16:18	
cis-1,3-Dichloropropene	5.0 U	5.0	1	09/10/15 16:18	
m,p-Xylenes	5.0 U	5.0	1	09/10/15 16:18	
o-Xylene	5.0 U	5.0	1	09/10/15 16:18	
trans-1,2-Dichloroethene	5.0 U	5.0	1	09/10/15 16:18	
trans-1,3-Dichloropropene	5.0 U	5.0	1	09/10/15 16:18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	09/10/15 16:18	
Dibromofluoromethane	99	89 - 119	09/10/15 16:18	
Toluene-d8	102	87 - 121	09/10/15 16:18	

Client:	Marks Engineering, PC	**Service Request:**	R1507468
Project:	NYSDEC Site No. 8-35-013/15-027	**Date Collected:**	09/08/15 10:15
Sample Matrix:	Water	**Date Received:**	09/08/15 14:30
Sample Name:	MW-23	**Units:**	ug/L
Lab Code:	R1507468-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	09/10/15 16:45	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	09/10/15 16:45	
1,1,2-Trichloroethane	5.0 U	5.0	1	09/10/15 16:45	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	09/10/15 16:45	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	09/10/15 16:45	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	09/10/15 16:45	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	09/10/15 16:45	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	09/10/15 16:45	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	09/10/15 16:45	
1,2-Dibromoethane	5.0 U	5.0	1	09/10/15 16:45	
1,2-Dichlorobenzene	5.0 U	5.0	1	09/10/15 16:45	
1,2-Dichloroethane	5.0 U	5.0	1	09/10/15 16:45	
1,2-Dichloropropane	5.0 U	5.0	1	09/10/15 16:45	
1,3-Dichlorobenzene	5.0 U	5.0	1	09/10/15 16:45	
1,4-Dichlorobenzene	5.0 U	5.0	1	09/10/15 16:45	
1,4-Dioxane	100 U	100	1	09/10/15 16:45	
2-Butanone (MEK)	10 U	10	1	09/10/15 16:45	
2-Hexanone	10 U	10	1	09/10/15 16:45	
4-Methyl-2-pentanone	10 U	10	1	09/10/15 16:45	
Acetone	10 U	10	1	09/10/15 16:45	
Benzene	5.0 U	5.0	1	09/10/15 16:45	
Bromochloromethane	5.0 U	5.0	1	09/10/15 16:45	
Bromodichloromethane	5.0 U	5.0	1	09/10/15 16:45	
Bromoform	5.0 U	5.0	1	09/10/15 16:45	
Bromomethane	5.0 U	5.0	1	09/10/15 16:45	
Carbon Disulfide	10 U	10	1	09/10/15 16:45	
Carbon Tetrachloride	5.0 U	5.0	1	09/10/15 16:45	
Chlorobenzene	5.0 U	5.0	1	09/10/15 16:45	
Chloroethane	5.0 U	5.0	1	09/10/15 16:45	
Chloroform	5.0 U	5.0	1	09/10/15 16:45	
Chloromethane	5.0 U	5.0	1	09/10/15 16:45	
Cyclohexane	10 U	10	1	09/10/15 16:45	
Dibromochloromethane	5.0 U	5.0	1	09/10/15 16:45	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	09/10/15 16:45	
Dichloromethane	5.0 U	5.0	1	09/10/15 16:45	
Ethylbenzene	5.0 U	5.0	1	09/10/15 16:45	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	09/10/15 16:45	
Methyl Acetate	10 U	10	1	09/10/15 16:45	
Methyl tert-Butyl Ether	5.0 U	5.0	1	09/10/15 16:45	
Methylcyclohexane	10 U	10	1	09/10/15 16:45	
Styrene	5.0 U	5.0	1	09/10/15 16:45	
Tetrachloroethene (PCE)	5.0 U	5.0	1	09/10/15 16:45	
Toluene	5.0 U	5.0	1	09/10/15 16:45	

Analytical Report

Client:	Marks Engineering, PC	**Service Request:**	R1507468
Project:	NYSDEC Site No. 8-35-013/15-027	**Date Collected:**	09/08/15 10:15
Sample Matrix:	Water	**Date Received:**	09/08/15 14:30
Sample Name:	MW-23	**Units:**	ug/L
Lab Code:	R1507468-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	09/10/15 16:45	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	09/10/15 16:45	
Vinyl Chloride	5.0 U	5.0	1	09/10/15 16:45	
cis-1,2-Dichloroethene	5.0 U	5.0	1	09/10/15 16:45	
cis-1,3-Dichloropropene	5.0 U	5.0	1	09/10/15 16:45	
m,p-Xylenes	5.0 U	5.0	1	09/10/15 16:45	
o-Xylene	5.0 U	5.0	1	09/10/15 16:45	
trans-1,2-Dichloroethene	5.0 U	5.0	1	09/10/15 16:45	
trans-1,3-Dichloropropene	5.0 U	5.0	1	09/10/15 16:45	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	09/10/15 16:45	
Dibromofluoromethane	97	89 - 119	09/10/15 16:45	
Toluene-d8	102	87 - 121	09/10/15 16:45	

Client:	Marks Engineering, PC	**Service Request:**	R1507468
Project:	NYSDEC Site No. 8-35-013/15-027	**Date Collected:**	09/08/15 10:35
Sample Matrix:	Water	**Date Received:**	09/08/15 14:30
Sample Name:	MW-10	**Units:**	ug/L
Lab Code:	R1507468-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	09/10/15 17:12	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	09/10/15 17:12	
1,1,2-Trichloroethane	5.0 U	5.0	1	09/10/15 17:12	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	09/10/15 17:12	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	09/10/15 17:12	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	09/10/15 17:12	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	09/10/15 17:12	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	09/10/15 17:12	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	09/10/15 17:12	
1,2-Dibromoethane	5.0 U	5.0	1	09/10/15 17:12	
1,2-Dichlorobenzene	5.0 U	5.0	1	09/10/15 17:12	
1,2-Dichloroethane	5.0 U	5.0	1	09/10/15 17:12	
1,2-Dichloropropane	5.0 U	5.0	1	09/10/15 17:12	
1,3-Dichlorobenzene	5.0 U	5.0	1	09/10/15 17:12	
1,4-Dichlorobenzene	5.0 U	5.0	1	09/10/15 17:12	
1,4-Dioxane	100 U	100	1	09/10/15 17:12	
2-Butanone (MEK)	10 U	10	1	09/10/15 17:12	
2-Hexanone	10 U	10	1	09/10/15 17:12	
4-Methyl-2-pentanone	10 U	10	1	09/10/15 17:12	
Acetone	10 U	10	1	09/10/15 17:12	
Benzene	5.0 U	5.0	1	09/10/15 17:12	
Bromochloromethane	5.0 U	5.0	1	09/10/15 17:12	
Bromodichloromethane	5.0 U	5.0	1	09/10/15 17:12	
Bromoform	5.0 U	5.0	1	09/10/15 17:12	
Bromomethane	5.0 U	5.0	1	09/10/15 17:12	
Carbon Disulfide	10 U	10	1	09/10/15 17:12	
Carbon Tetrachloride	5.0 U	5.0	1	09/10/15 17:12	
Chlorobenzene	5.0 U	5.0	1	09/10/15 17:12	
Chloroethane	5.0 U	5.0	1	09/10/15 17:12	
Chloroform	5.0 U	5.0	1	09/10/15 17:12	
Chloromethane	5.0 U	5.0	1	09/10/15 17:12	
Cyclohexane	10 U	10	1	09/10/15 17:12	
Dibromochloromethane	5.0 U	5.0	1	09/10/15 17:12	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	09/10/15 17:12	
Dichloromethane	5.0 U	5.0	1	09/10/15 17:12	
Ethylbenzene	5.0 U	5.0	1	09/10/15 17:12	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	09/10/15 17:12	
Methyl Acetate	10 U	10	1	09/10/15 17:12	
Methyl tert-Butyl Ether	5.0 U	5.0	1	09/10/15 17:12	
Methylcyclohexane	10 U	10	1	09/10/15 17:12	
Styrene	5.0 U	5.0	1	09/10/15 17:12	
Tetrachloroethene (PCE)	5.0 U	5.0	1	09/10/15 17:12	
Toluene	5.0 U	5.0	1	09/10/15 17:12	

Analytical Report

Client:	Marks Engineering, PC	**Service Request:**	R1507468
Project:	NYSDEC Site No. 8-35-013/15-027	**Date Collected:**	09/08/15 10:35
Sample Matrix:	Water	**Date Received:**	09/08/15 14:30
Sample Name:	MW-10	**Units:**	ug/L
Lab Code:	R1507468-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	09/10/15 17:12	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	09/10/15 17:12	
Vinyl Chloride	5.0 U	5.0	1	09/10/15 17:12	
cis-1,2-Dichloroethene	5.0 U	5.0	1	09/10/15 17:12	
cis-1,3-Dichloropropene	5.0 U	5.0	1	09/10/15 17:12	
m,p-Xylenes	5.0 U	5.0	1	09/10/15 17:12	
o-Xylene	5.0 U	5.0	1	09/10/15 17:12	
trans-1,2-Dichloroethene	5.0 U	5.0	1	09/10/15 17:12	
trans-1,3-Dichloropropene	5.0 U	5.0	1	09/10/15 17:12	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	09/10/15 17:12	
Dibromofluoromethane	101	89 - 119	09/10/15 17:12	
Toluene-d8	102	87 - 121	09/10/15 17:12	

Client:	Marks Engineering, PC	**Service Request:**	R1507468
Project:	NYSDEC Site No. 8-35-013/15-027	**Date Collected:**	09/08/15 10:50
Sample Matrix:	Water	**Date Received:**	09/08/15 14:30
Sample Name:	MW-24S	**Units:**	ug/L
Lab Code:	R1507468-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	**27**	5.0	1	09/10/15 17:39	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	09/10/15 17:39	
1,1,2-Trichloroethane	5.0 U	5.0	1	09/10/15 17:39	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	09/10/15 17:39	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	09/10/15 17:39	
1,1-Dichloroethene (1,1-DCE)	**6.8**	5.0	1	09/10/15 17:39	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	09/10/15 17:39	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	09/10/15 17:39	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	09/10/15 17:39	
1,2-Dibromoethane	5.0 U	5.0	1	09/10/15 17:39	
1,2-Dichlorobenzene	5.0 U	5.0	1	09/10/15 17:39	
1,2-Dichloroethane	5.0 U	5.0	1	09/10/15 17:39	
1,2-Dichloropropane	5.0 U	5.0	1	09/10/15 17:39	
1,3-Dichlorobenzene	5.0 U	5.0	1	09/10/15 17:39	
1,4-Dichlorobenzene	5.0 U	5.0	1	09/10/15 17:39	
1,4-Dioxane	100 U	100	1	09/10/15 17:39	
2-Butanone (MEK)	10 U	10	1	09/10/15 17:39	
2-Hexanone	10 U	10	1	09/10/15 17:39	
4-Methyl-2-pentanone	10 U	10	1	09/10/15 17:39	
Acetone	10 U	10	1	09/10/15 17:39	
Benzene	5.0 U	5.0	1	09/10/15 17:39	
Bromochloromethane	5.0 U	5.0	1	09/10/15 17:39	
Bromodichloromethane	5.0 U	5.0	1	09/10/15 17:39	
Bromoform	5.0 U	5.0	1	09/10/15 17:39	
Bromomethane	5.0 U	5.0	1	09/10/15 17:39	
Carbon Disulfide	10 U	10	1	09/10/15 17:39	
Carbon Tetrachloride	5.0 U	5.0	1	09/10/15 17:39	
Chlorobenzene	5.0 U	5.0	1	09/10/15 17:39	
Chloroethane	5.0 U	5.0	1	09/10/15 17:39	
Chloroform	5.0 U	5.0	1	09/10/15 17:39	
Chloromethane	5.0 U	5.0	1	09/10/15 17:39	
Cyclohexane	10 U	10	1	09/10/15 17:39	
Dibromochloromethane	5.0 U	5.0	1	09/10/15 17:39	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	09/10/15 17:39	
Dichloromethane	5.0 U	5.0	1	09/10/15 17:39	
Ethylbenzene	5.0 U	5.0	1	09/10/15 17:39	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	09/10/15 17:39	
Methyl Acetate	10 U	10	1	09/10/15 17:39	
Methyl tert-Butyl Ether	5.0 U	5.0	1	09/10/15 17:39	
Methylcyclohexane	10 U	10	1	09/10/15 17:39	
Styrene	5.0 U	5.0	1	09/10/15 17:39	
Tetrachloroethene (PCE)	5.0 U	5.0	1	09/10/15 17:39	
Toluene	5.0 U	5.0	1	09/10/15 17:39	

Analytical Report

Client:	Marks Engineering, PC	**Service Request:**	R1507468
Project:	NYSDEC Site No. 8-35-013/15-027	**Date Collected:**	09/08/15 10:50
Sample Matrix:	Water	**Date Received:**	09/08/15 14:30
Sample Name:	MW-24S	**Units:**	ug/L
Lab Code:	R1507468-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	**110**	5.0	1	09/10/15 17:39	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	09/10/15 17:39	
Vinyl Chloride	5.0 U	5.0	1	09/10/15 17:39	
cis-1,2-Dichloroethene	5.0 U	5.0	1	09/10/15 17:39	
cis-1,3-Dichloropropene	5.0 U	5.0	1	09/10/15 17:39	
m,p-Xylenes	5.0 U	5.0	1	09/10/15 17:39	
o-Xylene	5.0 U	5.0	1	09/10/15 17:39	
trans-1,2-Dichloroethene	5.0 U	5.0	1	09/10/15 17:39	
trans-1,3-Dichloropropene	5.0 U	5.0	1	09/10/15 17:39	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	09/10/15 17:39	
Dibromofluoromethane	99	89 - 119	09/10/15 17:39	
Toluene-d8	103	87 - 121	09/10/15 17:39	

Client:	Marks Engineering, PC	**Service Request:**	R1507468
Project:	NYSDEC Site No. 8-35-013/15-027	**Date Collected:**	09/08/15 11:10
Sample Matrix:	Water	**Date Received:**	09/08/15 14:30
Sample Name:	MW-15	**Units:**	ug/L
Lab Code:	R1507468-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	**19**	5.0	1	09/10/15 18:07	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	09/10/15 18:07	
1,1,2-Trichloroethane	5.0 U	5.0	1	09/10/15 18:07	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	09/10/15 18:07	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	09/10/15 18:07	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	09/10/15 18:07	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	09/10/15 18:07	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	09/10/15 18:07	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	09/10/15 18:07	
1,2-Dibromoethane	5.0 U	5.0	1	09/10/15 18:07	
1,2-Dichlorobenzene	5.0 U	5.0	1	09/10/15 18:07	
1,2-Dichloroethane	5.0 U	5.0	1	09/10/15 18:07	
1,2-Dichloropropane	5.0 U	5.0	1	09/10/15 18:07	
1,3-Dichlorobenzene	5.0 U	5.0	1	09/10/15 18:07	
1,4-Dichlorobenzene	5.0 U	5.0	1	09/10/15 18:07	
1,4-Dioxane	100 U	100	1	09/10/15 18:07	
2-Butanone (MEK)	10 U	10	1	09/10/15 18:07	
2-Hexanone	10 U	10	1	09/10/15 18:07	
4-Methyl-2-pentanone	10 U	10	1	09/10/15 18:07	
Acetone	10 U	10	1	09/10/15 18:07	
Benzene	5.0 U	5.0	1	09/10/15 18:07	
Bromochloromethane	5.0 U	5.0	1	09/10/15 18:07	
Bromodichloromethane	5.0 U	5.0	1	09/10/15 18:07	
Bromoform	5.0 U	5.0	1	09/10/15 18:07	
Bromomethane	5.0 U	5.0	1	09/10/15 18:07	
Carbon Disulfide	10 U	10	1	09/10/15 18:07	
Carbon Tetrachloride	5.0 U	5.0	1	09/10/15 18:07	
Chlorobenzene	5.0 U	5.0	1	09/10/15 18:07	
Chloroethane	5.0 U	5.0	1	09/10/15 18:07	
Chloroform	5.0 U	5.0	1	09/10/15 18:07	
Chloromethane	5.0 U	5.0	1	09/10/15 18:07	
Cyclohexane	10 U	10	1	09/10/15 18:07	
Dibromochloromethane	5.0 U	5.0	1	09/10/15 18:07	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	09/10/15 18:07	
Dichloromethane	5.0 U	5.0	1	09/10/15 18:07	
Ethylbenzene	5.0 U	5.0	1	09/10/15 18:07	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	09/10/15 18:07	
Methyl Acetate	10 U	10	1	09/10/15 18:07	
Methyl tert-Butyl Ether	5.0 U	5.0	1	09/10/15 18:07	
Methylcyclohexane	10 U	10	1	09/10/15 18:07	
Styrene	5.0 U	5.0	1	09/10/15 18:07	
Tetrachloroethene (PCE)	5.0 U	5.0	1	09/10/15 18:07	
Toluene	5.0 U	5.0	1	09/10/15 18:07	

Analytical Report

Client:	Marks Engineering, PC	**Service Request:**	R1507468
Project:	NYSDEC Site No. 8-35-013/15-027	**Date Collected:**	09/08/15 11:10
Sample Matrix:	Water	**Date Received:**	09/08/15 14:30
Sample Name:	MW-15	**Units:**	ug/L
Lab Code:	R1507468-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	09/10/15 18:07	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	09/10/15 18:07	
Vinyl Chloride	5.0 U	5.0	1	09/10/15 18:07	
cis-1,2-Dichloroethene	5.0 U	5.0	1	09/10/15 18:07	
cis-1,3-Dichloropropene	5.0 U	5.0	1	09/10/15 18:07	
m,p-Xylenes	5.0 U	5.0	1	09/10/15 18:07	
o-Xylene	5.0 U	5.0	1	09/10/15 18:07	
trans-1,2-Dichloroethene	5.0 U	5.0	1	09/10/15 18:07	
trans-1,3-Dichloropropene	5.0 U	5.0	1	09/10/15 18:07	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	09/10/15 18:07	
Dibromofluoromethane	100	89 - 119	09/10/15 18:07	
Toluene-d8	102	87 - 121	09/10/15 18:07	

Client:	Marks Engineering, PC	**Service Request:**	R1507468
Project:	NYSDEC Site No. 8-35-013/15-027	**Date Collected:**	09/08/15 11:25
Sample Matrix:	Water	**Date Received:**	09/08/15 14:30
Sample Name:	MW-13	**Units:**	ug/L
Lab Code:	R1507468-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	**7.8**	5.0	1	09/10/15 18:34	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	09/10/15 18:34	
1,1,2-Trichloroethane	5.0 U	5.0	1	09/10/15 18:34	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	09/10/15 18:34	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	09/10/15 18:34	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	09/10/15 18:34	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	09/10/15 18:34	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	09/10/15 18:34	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	09/10/15 18:34	
1,2-Dibromoethane	5.0 U	5.0	1	09/10/15 18:34	
1,2-Dichlorobenzene	5.0 U	5.0	1	09/10/15 18:34	
1,2-Dichloroethane	5.0 U	5.0	1	09/10/15 18:34	
1,2-Dichloropropane	5.0 U	5.0	1	09/10/15 18:34	
1,3-Dichlorobenzene	5.0 U	5.0	1	09/10/15 18:34	
1,4-Dichlorobenzene	5.0 U	5.0	1	09/10/15 18:34	
1,4-Dioxane	100 U	100	1	09/10/15 18:34	
2-Butanone (MEK)	10 U	10	1	09/10/15 18:34	
2-Hexanone	10 U	10	1	09/10/15 18:34	
4-Methyl-2-pentanone	10 U	10	1	09/10/15 18:34	
Acetone	10 U	10	1	09/10/15 18:34	
Benzene	5.0 U	5.0	1	09/10/15 18:34	
Bromochloromethane	5.0 U	5.0	1	09/10/15 18:34	
Bromodichloromethane	5.0 U	5.0	1	09/10/15 18:34	
Bromoform	5.0 U	5.0	1	09/10/15 18:34	
Bromomethane	5.0 U	5.0	1	09/10/15 18:34	
Carbon Disulfide	10 U	10	1	09/10/15 18:34	
Carbon Tetrachloride	5.0 U	5.0	1	09/10/15 18:34	
Chlorobenzene	5.0 U	5.0	1	09/10/15 18:34	
Chloroethane	5.0 U	5.0	1	09/10/15 18:34	
Chloroform	5.0 U	5.0	1	09/10/15 18:34	
Chloromethane	5.0 U	5.0	1	09/10/15 18:34	
Cyclohexane	10 U	10	1	09/10/15 18:34	
Dibromochloromethane	5.0 U	5.0	1	09/10/15 18:34	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	09/10/15 18:34	
Dichloromethane	5.0 U	5.0	1	09/10/15 18:34	
Ethylbenzene	5.0 U	5.0	1	09/10/15 18:34	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	09/10/15 18:34	
Methyl Acetate	10 U	10	1	09/10/15 18:34	
Methyl tert-Butyl Ether	5.0 U	5.0	1	09/10/15 18:34	
Methylcyclohexane	10 U	10	1	09/10/15 18:34	
Styrene	5.0 U	5.0	1	09/10/15 18:34	
Tetrachloroethene (PCE)	5.0 U	5.0	1	09/10/15 18:34	
Toluene	5.0 U	5.0	1	09/10/15 18:34	

Analytical Report

Client:	Marks Engineering, PC	**Service Request:**	R1507468
Project:	NYSDEC Site No. 8-35-013/15-027	**Date Collected:**	09/08/15 11:25
Sample Matrix:	Water	**Date Received:**	09/08/15 14:30
Sample Name:	MW-13	**Units:**	ug/L
Lab Code:	R1507468-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	**32**	5.0	1	09/10/15 18:34	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	09/10/15 18:34	
Vinyl Chloride	5.0 U	5.0	1	09/10/15 18:34	
cis-1,2-Dichloroethene	5.0 U	5.0	1	09/10/15 18:34	
cis-1,3-Dichloropropene	5.0 U	5.0	1	09/10/15 18:34	
m,p-Xylenes	5.0 U	5.0	1	09/10/15 18:34	
o-Xylene	5.0 U	5.0	1	09/10/15 18:34	
trans-1,2-Dichloroethene	5.0 U	5.0	1	09/10/15 18:34	
trans-1,3-Dichloropropene	5.0 U	5.0	1	09/10/15 18:34	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	09/10/15 18:34	
Dibromofluoromethane	100	89 - 119	09/10/15 18:34	
Toluene-d8	103	87 - 121	09/10/15 18:34	

Client:	Marks Engineering, PC	**Service Request:**	R1507468
Project:	NYSDEC Site No. 8-35-013/15-027	**Date Collected:**	09/08/15 11:40
Sample Matrix:	Water	**Date Received:**	09/08/15 14:30
Sample Name:	MW-14	**Units:**	ug/L
Lab Code:	R1507468-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	**25**	5.0	1	09/11/15 13:00	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	09/11/15 13:00	
1,1,2-Trichloroethane	5.0 U	5.0	1	09/11/15 13:00	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	09/11/15 13:00	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	09/11/15 13:00	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	09/11/15 13:00	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	09/11/15 13:00	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	09/11/15 13:00	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	09/11/15 13:00	
1,2-Dibromoethane	5.0 U	5.0	1	09/11/15 13:00	
1,2-Dichlorobenzene	5.0 U	5.0	1	09/11/15 13:00	
1,2-Dichloroethane	5.0 U	5.0	1	09/11/15 13:00	
1,2-Dichloropropane	5.0 U	5.0	1	09/11/15 13:00	
1,3-Dichlorobenzene	5.0 U	5.0	1	09/11/15 13:00	
1,4-Dichlorobenzene	5.0 U	5.0	1	09/11/15 13:00	
1,4-Dioxane	100 U	100	1	09/11/15 13:00	
2-Butanone (MEK)	10 U	10	1	09/11/15 13:00	
2-Hexanone	10 U	10	1	09/11/15 13:00	
4-Methyl-2-pentanone	10 U	10	1	09/11/15 13:00	
Acetone	10 U	10	1	09/11/15 13:00	
Benzene	5.0 U	5.0	1	09/11/15 13:00	
Bromochloromethane	5.0 U	5.0	1	09/11/15 13:00	
Bromodichloromethane	5.0 U	5.0	1	09/11/15 13:00	
Bromoform	5.0 U	5.0	1	09/11/15 13:00	
Bromomethane	5.0 U	5.0	1	09/11/15 13:00	
Carbon Disulfide	10 U	10	1	09/11/15 13:00	
Carbon Tetrachloride	5.0 U	5.0	1	09/11/15 13:00	
Chlorobenzene	5.0 U	5.0	1	09/11/15 13:00	
Chloroethane	5.0 U	5.0	1	09/11/15 13:00	
Chloroform	5.0 U	5.0	1	09/11/15 13:00	
Chloromethane	5.0 U	5.0	1	09/11/15 13:00	
Cyclohexane	10 U	10	1	09/11/15 13:00	
Dibromochloromethane	5.0 U	5.0	1	09/11/15 13:00	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	09/11/15 13:00	
Dichloromethane	5.0 U	5.0	1	09/11/15 13:00	
Ethylbenzene	5.0 U	5.0	1	09/11/15 13:00	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	09/11/15 13:00	
Methyl Acetate	10 U	10	1	09/11/15 13:00	
Methyl tert-Butyl Ether	5.0 U	5.0	1	09/11/15 13:00	
Methylcyclohexane	10 U	10	1	09/11/15 13:00	
Styrene	5.0 U	5.0	1	09/11/15 13:00	
Tetrachloroethene (PCE)	5.0 U	5.0	1	09/11/15 13:00	
Toluene	5.0 U	5.0	1	09/11/15 13:00	

Analytical Report

Client:	Marks Engineering, PC	**Service Request:**	R1507468
Project:	NYSDEC Site No. 8-35-013/15-027	**Date Collected:**	09/08/15 11:40
Sample Matrix:	Water	**Date Received:**	09/08/15 14:30
Sample Name:	MW-14	**Units:**	ug/L
Lab Code:	R1507468-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	**120**	5.0	1	09/11/15 13:00	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	09/11/15 13:00	
Vinyl Chloride	5.0 U	5.0	1	09/11/15 13:00	
cis-1,2-Dichloroethene	5.0 U	5.0	1	09/11/15 13:00	
cis-1,3-Dichloropropene	5.0 U	5.0	1	09/11/15 13:00	
m,p-Xylenes	5.0 U	5.0	1	09/11/15 13:00	
o-Xylene	5.0 U	5.0	1	09/11/15 13:00	
trans-1,2-Dichloroethene	5.0 U	5.0	1	09/11/15 13:00	
trans-1,3-Dichloropropene	5.0 U	5.0	1	09/11/15 13:00	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	09/11/15 13:00	
Dibromofluoromethane	102	89 - 119	09/11/15 13:00	
Toluene-d8	105	87 - 121	09/11/15 13:00	

Client:	Marks Engineering, PC	**Service Request:**	R1507468
Project:	NYSDEC Site No. 8-35-013/15-027	**Date Collected:**	09/08/15 11:55
Sample Matrix:	Water	**Date Received:**	09/08/15 14:30
Sample Name:	MW-17S	**Units:**	ug/L
Lab Code:	R1507468-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	**43**	5.0	1	09/11/15 13:47	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	09/11/15 13:47	
1,1,2-Trichloroethane	5.0 U	5.0	1	09/11/15 13:47	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	09/11/15 13:47	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	09/11/15 13:47	
1,1-Dichloroethene (1,1-DCE)	**8.3**	5.0	1	09/11/15 13:47	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	09/11/15 13:47	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	09/11/15 13:47	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	09/11/15 13:47	
1,2-Dibromoethane	5.0 U	5.0	1	09/11/15 13:47	
1,2-Dichlorobenzene	5.0 U	5.0	1	09/11/15 13:47	
1,2-Dichloroethane	5.0 U	5.0	1	09/11/15 13:47	
1,2-Dichloropropane	5.0 U	5.0	1	09/11/15 13:47	
1,3-Dichlorobenzene	5.0 U	5.0	1	09/11/15 13:47	
1,4-Dichlorobenzene	5.0 U	5.0	1	09/11/15 13:47	
1,4-Dioxane	100 U	100	1	09/11/15 13:47	
2-Butanone (MEK)	10 U	10	1	09/11/15 13:47	
2-Hexanone	10 U	10	1	09/11/15 13:47	
4-Methyl-2-pentanone	10 U	10	1	09/11/15 13:47	
Acetone	10 U	10	1	09/11/15 13:47	
Benzene	5.0 U	5.0	1	09/11/15 13:47	
Bromochloromethane	5.0 U	5.0	1	09/11/15 13:47	
Bromodichloromethane	5.0 U	5.0	1	09/11/15 13:47	
Bromoform	5.0 U	5.0	1	09/11/15 13:47	
Bromomethane	5.0 U	5.0	1	09/11/15 13:47	
Carbon Disulfide	10 U	10	1	09/11/15 13:47	
Carbon Tetrachloride	5.0 U	5.0	1	09/11/15 13:47	
Chlorobenzene	5.0 U	5.0	1	09/11/15 13:47	
Chloroethane	5.0 U	5.0	1	09/11/15 13:47	
Chloroform	5.0 U	5.0	1	09/11/15 13:47	
Chloromethane	5.0 U	5.0	1	09/11/15 13:47	
Cyclohexane	10 U	10	1	09/11/15 13:47	
Dibromochloromethane	5.0 U	5.0	1	09/11/15 13:47	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	09/11/15 13:47	
Dichloromethane	5.0 U	5.0	1	09/11/15 13:47	
Ethylbenzene	5.0 U	5.0	1	09/11/15 13:47	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	09/11/15 13:47	
Methyl Acetate	10 U	10	1	09/11/15 13:47	
Methyl tert-Butyl Ether	5.0 U	5.0	1	09/11/15 13:47	
Methylcyclohexane	10 U	10	1	09/11/15 13:47	
Styrene	5.0 U	5.0	1	09/11/15 13:47	
Tetrachloroethene (PCE)	5.0 U	5.0	1	09/11/15 13:47	
Toluene	5.0 U	5.0	1	09/11/15 13:47	

Analytical Report

Client:	Marks Engineering, PC	**Service Request:**	R1507468
Project:	NYSDEC Site No. 8-35-013/15-027	**Date Collected:**	09/08/15 11:55
Sample Matrix:	Water	**Date Received:**	09/08/15 14:30
Sample Name:	MW-17S	**Units:**	ug/L
Lab Code:	R1507468-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	**480**	25	5	09/14/15 12:33	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	09/11/15 13:47	
Vinyl Chloride	5.0 U	5.0	1	09/11/15 13:47	
cis-1,2-Dichloroethene	5.0 U	5.0	1	09/11/15 13:47	
cis-1,3-Dichloropropene	5.0 U	5.0	1	09/11/15 13:47	
m,p-Xylenes	5.0 U	5.0	1	09/11/15 13:47	
o-Xylene	5.0 U	5.0	1	09/11/15 13:47	
trans-1,2-Dichloroethene	5.0 U	5.0	1	09/11/15 13:47	
trans-1,3-Dichloropropene	5.0 U	5.0	1	09/11/15 13:47	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	09/11/15 13:47	
Dibromofluoromethane	103	89 - 119	09/11/15 13:47	
Toluene-d8	103	87 - 121	09/11/15 13:47	

Client:	Marks Engineering, PC	**Service Request:**	R1507468
Project:	NYSDEC Site No. 8-35-013/15-027	**Date Collected:**	09/08/15 12:15
Sample Matrix:	Water	**Date Received:**	09/08/15 14:30
Sample Name:	MW-16	**Units:**	ug/L
Lab Code:	R1507468-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	**42**	5.0	1	09/11/15 14:14	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	09/11/15 14:14	
1,1,2-Trichloroethane	5.0 U	5.0	1	09/11/15 14:14	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	09/11/15 14:14	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	09/11/15 14:14	
1,1-Dichloroethene (1,1-DCE)	**9.3**	5.0	1	09/11/15 14:14	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	09/11/15 14:14	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	09/11/15 14:14	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	09/11/15 14:14	
1,2-Dibromoethane	5.0 U	5.0	1	09/11/15 14:14	
1,2-Dichlorobenzene	5.0 U	5.0	1	09/11/15 14:14	
1,2-Dichloroethane	5.0 U	5.0	1	09/11/15 14:14	
1,2-Dichloropropane	5.0 U	5.0	1	09/11/15 14:14	
1,3-Dichlorobenzene	5.0 U	5.0	1	09/11/15 14:14	
1,4-Dichlorobenzene	5.0 U	5.0	1	09/11/15 14:14	
1,4-Dioxane	100 U	100	1	09/11/15 14:14	
2-Butanone (MEK)	10 U	10	1	09/11/15 14:14	
2-Hexanone	10 U	10	1	09/11/15 14:14	
4-Methyl-2-pentanone	10 U	10	1	09/11/15 14:14	
Acetone	10 U	10	1	09/11/15 14:14	
Benzene	5.0 U	5.0	1	09/11/15 14:14	
Bromochloromethane	5.0 U	5.0	1	09/11/15 14:14	
Bromodichloromethane	5.0 U	5.0	1	09/11/15 14:14	
Bromoform	5.0 U	5.0	1	09/11/15 14:14	
Bromomethane	5.0 U	5.0	1	09/11/15 14:14	
Carbon Disulfide	10 U	10	1	09/11/15 14:14	
Carbon Tetrachloride	5.0 U	5.0	1	09/11/15 14:14	
Chlorobenzene	5.0 U	5.0	1	09/11/15 14:14	
Chloroethane	5.0 U	5.0	1	09/11/15 14:14	
Chloroform	5.0 U	5.0	1	09/11/15 14:14	
Chloromethane	5.0 U	5.0	1	09/11/15 14:14	
Cyclohexane	10 U	10	1	09/11/15 14:14	
Dibromochloromethane	5.0 U	5.0	1	09/11/15 14:14	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	09/11/15 14:14	
Dichloromethane	5.0 U	5.0	1	09/11/15 14:14	
Ethylbenzene	5.0 U	5.0	1	09/11/15 14:14	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	09/11/15 14:14	
Methyl Acetate	10 U	10	1	09/11/15 14:14	
Methyl tert-Butyl Ether	5.0 U	5.0	1	09/11/15 14:14	
Methylcyclohexane	10 U	10	1	09/11/15 14:14	
Styrene	5.0 U	5.0	1	09/11/15 14:14	
Tetrachloroethene (PCE)	5.0 U	5.0	1	09/11/15 14:14	
Toluene	5.0 U	5.0	1	09/11/15 14:14	

Analytical Report

Client:	Marks Engineering, PC	**Service Request:**	R1507468
Project:	NYSDEC Site No. 8-35-013/15-027	**Date Collected:**	09/08/15 12:15
Sample Matrix:	Water	**Date Received:**	09/08/15 14:30
Sample Name:	MW-16	**Units:**	ug/L
Lab Code:	R1507468-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result		MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	**250**	**D**	10	2	09/11/15 18:18	
Trichlorofluoromethane (CFC 11)	5.0	U	5.0	1	09/11/15 14:14	
Vinyl Chloride	5.0	U	5.0	1	09/11/15 14:14	
cis-1,2-Dichloroethene	5.0	U	5.0	1	09/11/15 14:14	
cis-1,3-Dichloropropene	5.0	U	5.0	1	09/11/15 14:14	
m,p-Xylenes	5.0	U	5.0	1	09/11/15 14:14	
o-Xylene	5.0	U	5.0	1	09/11/15 14:14	
trans-1,2-Dichloroethene	5.0	U	5.0	1	09/11/15 14:14	
trans-1,3-Dichloropropene	5.0	U	5.0	1	09/11/15 14:14	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	09/11/15 14:14	
Dibromofluoromethane	101	89 - 119	09/11/15 14:14	
Toluene-d8	102	87 - 121	09/11/15 14:14	

Client:	Marks Engineering, PC	**Service Request:**	R1507468
Project:	NYSDEC Site No. 8-35-013/15-027	**Date Collected:**	09/08/15 12:40
Sample Matrix:	Water	**Date Received:**	09/08/15 14:30
Sample Name:	SS&G MW-3	**Units:**	ug/L
Lab Code:	R1507468-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	**9.1**	5.0	1	09/11/15 18:46	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	09/11/15 18:46	
1,1,2-Trichloroethane	5.0 U	5.0	1	09/11/15 18:46	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	09/11/15 18:46	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	09/11/15 18:46	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	09/11/15 18:46	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	09/11/15 18:46	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	09/11/15 18:46	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	09/11/15 18:46	
1,2-Dibromoethane	5.0 U	5.0	1	09/11/15 18:46	
1,2-Dichlorobenzene	5.0 U	5.0	1	09/11/15 18:46	
1,2-Dichloroethane	5.0 U	5.0	1	09/11/15 18:46	
1,2-Dichloropropane	5.0 U	5.0	1	09/11/15 18:46	
1,3-Dichlorobenzene	5.0 U	5.0	1	09/11/15 18:46	
1,4-Dichlorobenzene	5.0 U	5.0	1	09/11/15 18:46	
1,4-Dioxane	100 U	100	1	09/11/15 18:46	
2-Butanone (MEK)	10 U	10	1	09/11/15 18:46	
2-Hexanone	10 U	10	1	09/11/15 18:46	
4-Methyl-2-pentanone	10 U	10	1	09/11/15 18:46	
Acetone	10 U	10	1	09/11/15 18:46	
Benzene	5.0 U	5.0	1	09/11/15 18:46	
Bromochloromethane	5.0 U	5.0	1	09/11/15 18:46	
Bromodichloromethane	5.0 U	5.0	1	09/11/15 18:46	
Bromoform	5.0 U	5.0	1	09/11/15 18:46	
Bromomethane	5.0 U	5.0	1	09/11/15 18:46	
Carbon Disulfide	10 U	10	1	09/11/15 18:46	
Carbon Tetrachloride	5.0 U	5.0	1	09/11/15 18:46	
Chlorobenzene	5.0 U	5.0	1	09/11/15 18:46	
Chloroethane	5.0 U	5.0	1	09/11/15 18:46	
Chloroform	5.0 U	5.0	1	09/11/15 18:46	
Chloromethane	5.0 U	5.0	1	09/11/15 18:46	
Cyclohexane	10 U	10	1	09/11/15 18:46	
Dibromochloromethane	5.0 U	5.0	1	09/11/15 18:46	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	09/11/15 18:46	
Dichloromethane	5.0 U	5.0	1	09/11/15 18:46	
Ethylbenzene	5.0 U	5.0	1	09/11/15 18:46	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	09/11/15 18:46	
Methyl Acetate	10 U	10	1	09/11/15 18:46	
Methyl tert-Butyl Ether	5.0 U	5.0	1	09/11/15 18:46	
Methylcyclohexane	10 U	10	1	09/11/15 18:46	
Styrene	5.0 U	5.0	1	09/11/15 18:46	
Tetrachloroethene (PCE)	5.0 U	5.0	1	09/11/15 18:46	
Toluene	5.0 U	5.0	1	09/11/15 18:46	

Analytical Report

Client:	Marks Engineering, PC	**Service Request:**	R1507468
Project:	NYSDEC Site No. 8-35-013/15-027	**Date Collected:**	09/08/15 12:40
Sample Matrix:	Water	**Date Received:**	09/08/15 14:30
Sample Name:	SS&G MW-3	**Units:**	ug/L
Lab Code:	R1507468-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	**13**	5.0	1	09/11/15 18:46	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	09/11/15 18:46	
Vinyl Chloride	5.0 U	5.0	1	09/11/15 18:46	
cis-1,2-Dichloroethene	5.0 U	5.0	1	09/11/15 18:46	
cis-1,3-Dichloropropene	5.0 U	5.0	1	09/11/15 18:46	
m,p-Xylenes	5.0 U	5.0	1	09/11/15 18:46	
o-Xylene	5.0 U	5.0	1	09/11/15 18:46	
trans-1,2-Dichloroethene	5.0 U	5.0	1	09/11/15 18:46	
trans-1,3-Dichloropropene	5.0 U	5.0	1	09/11/15 18:46	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	09/11/15 18:46	
Dibromofluoromethane	102	89 - 119	09/11/15 18:46	
Toluene-d8	100	87 - 121	09/11/15 18:46	

Client:	Marks Engineering, PC	**Service Request:**	R1507468
Project:	NYSDEC Site No. 8-35-013/15-027	**Date Collected:**	09/08/15 13:45
Sample Matrix:	Water	**Date Received:**	09/08/15 14:30
Sample Name:	SC-1	**Units:**	ug/L
Lab Code:	R1507468-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	**12**	5.0	1	09/11/15 15:08	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	09/11/15 15:08	
1,1,2-Trichloroethane	5.0 U	5.0	1	09/11/15 15:08	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	09/11/15 15:08	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	09/11/15 15:08	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	09/11/15 15:08	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	09/11/15 15:08	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	09/11/15 15:08	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	09/11/15 15:08	
1,2-Dibromoethane	5.0 U	5.0	1	09/11/15 15:08	
1,2-Dichlorobenzene	5.0 U	5.0	1	09/11/15 15:08	
1,2-Dichloroethane	5.0 U	5.0	1	09/11/15 15:08	
1,2-Dichloropropane	5.0 U	5.0	1	09/11/15 15:08	
1,3-Dichlorobenzene	5.0 U	5.0	1	09/11/15 15:08	
1,4-Dichlorobenzene	5.0 U	5.0	1	09/11/15 15:08	
1,4-Dioxane	100 U	100	1	09/11/15 15:08	
2-Butanone (MEK)	10 U	10	1	09/11/15 15:08	
2-Hexanone	10 U	10	1	09/11/15 15:08	
4-Methyl-2-pentanone	10 U	10	1	09/11/15 15:08	
Acetone	10 U	10	1	09/11/15 15:08	
Benzene	5.0 U	5.0	1	09/11/15 15:08	
Bromochloromethane	5.0 U	5.0	1	09/11/15 15:08	
Bromodichloromethane	5.0 U	5.0	1	09/11/15 15:08	
Bromoform	5.0 U	5.0	1	09/11/15 15:08	
Bromomethane	5.0 U	5.0	1	09/11/15 15:08	
Carbon Disulfide	10 U	10	1	09/11/15 15:08	
Carbon Tetrachloride	5.0 U	5.0	1	09/11/15 15:08	
Chlorobenzene	5.0 U	5.0	1	09/11/15 15:08	
Chloroethane	5.0 U	5.0	1	09/11/15 15:08	
Chloroform	5.0 U	5.0	1	09/11/15 15:08	
Chloromethane	5.0 U	5.0	1	09/11/15 15:08	
Cyclohexane	10 U	10	1	09/11/15 15:08	
Dibromochloromethane	5.0 U	5.0	1	09/11/15 15:08	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	09/11/15 15:08	
Dichloromethane	5.0 U	5.0	1	09/11/15 15:08	
Ethylbenzene	5.0 U	5.0	1	09/11/15 15:08	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	09/11/15 15:08	
Methyl Acetate	10 U	10	1	09/11/15 15:08	
Methyl tert-Butyl Ether	5.0 U	5.0	1	09/11/15 15:08	
Methylcyclohexane	10 U	10	1	09/11/15 15:08	
Styrene	5.0 U	5.0	1	09/11/15 15:08	
Tetrachloroethene (PCE)	5.0 U	5.0	1	09/11/15 15:08	
Toluene	5.0 U	5.0	1	09/11/15 15:08	

Analytical Report

Client:	Marks Engineering, PC	**Service Request:**	R1507468
Project:	NYSDEC Site No. 8-35-013/15-027	**Date Collected:**	09/08/15 13:45
Sample Matrix:	Water	**Date Received:**	09/08/15 14:30
Sample Name:	SC-1	**Units:**	ug/L
Lab Code:	R1507468-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	**50**	5.0	1	09/11/15 15:08	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	09/11/15 15:08	
Vinyl Chloride	5.0 U	5.0	1	09/11/15 15:08	
cis-1,2-Dichloroethene	5.0 U	5.0	1	09/11/15 15:08	
cis-1,3-Dichloropropene	5.0 U	5.0	1	09/11/15 15:08	
m,p-Xylenes	5.0 U	5.0	1	09/11/15 15:08	
o-Xylene	5.0 U	5.0	1	09/11/15 15:08	
trans-1,2-Dichloroethene	5.0 U	5.0	1	09/11/15 15:08	
trans-1,3-Dichloropropene	5.0 U	5.0	1	09/11/15 15:08	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	09/11/15 15:08	
Dibromofluoromethane	101	89 - 119	09/11/15 15:08	
Toluene-d8	102	87 - 121	09/11/15 15:08	

Client:	Marks Engineering, PC	**Service Request:**	R1507468
Project:	NYSDEC Site No. 8-35-013/15-027	**Date Collected:**	09/08/15 16:00
Sample Matrix:	Water	**Date Received:**	09/08/15 14:30
Sample Name:	DUP090815	**Units:**	ug/L
Lab Code:	R1507468-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	**39**	5.0	1	09/11/15 15:36	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	09/11/15 15:36	
1,1,2-Trichloroethane	5.0 U	5.0	1	09/11/15 15:36	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	09/11/15 15:36	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	09/11/15 15:36	
1,1-Dichloroethene (1,1-DCE)	**7.0**	5.0	1	09/11/15 15:36	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	09/11/15 15:36	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	09/11/15 15:36	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	09/11/15 15:36	
1,2-Dibromoethane	5.0 U	5.0	1	09/11/15 15:36	
1,2-Dichlorobenzene	5.0 U	5.0	1	09/11/15 15:36	
1,2-Dichloroethane	5.0 U	5.0	1	09/11/15 15:36	
1,2-Dichloropropane	5.0 U	5.0	1	09/11/15 15:36	
1,3-Dichlorobenzene	5.0 U	5.0	1	09/11/15 15:36	
1,4-Dichlorobenzene	5.0 U	5.0	1	09/11/15 15:36	
1,4-Dioxane	100 U	100	1	09/11/15 15:36	
2-Butanone (MEK)	10 U	10	1	09/11/15 15:36	
2-Hexanone	10 U	10	1	09/11/15 15:36	
4-Methyl-2-pentanone	10 U	10	1	09/11/15 15:36	
Acetone	10 U	10	1	09/11/15 15:36	
Benzene	5.0 U	5.0	1	09/11/15 15:36	
Bromochloromethane	5.0 U	5.0	1	09/11/15 15:36	
Bromodichloromethane	5.0 U	5.0	1	09/11/15 15:36	
Bromoform	5.0 U	5.0	1	09/11/15 15:36	
Bromomethane	5.0 U	5.0	1	09/11/15 15:36	
Carbon Disulfide	10 U	10	1	09/11/15 15:36	
Carbon Tetrachloride	5.0 U	5.0	1	09/11/15 15:36	
Chlorobenzene	5.0 U	5.0	1	09/11/15 15:36	
Chloroethane	5.0 U	5.0	1	09/11/15 15:36	
Chloroform	5.0 U	5.0	1	09/11/15 15:36	
Chloromethane	5.0 U	5.0	1	09/11/15 15:36	
Cyclohexane	10 U	10	1	09/11/15 15:36	
Dibromochloromethane	5.0 U	5.0	1	09/11/15 15:36	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	09/11/15 15:36	
Dichloromethane	5.0 U	5.0	1	09/11/15 15:36	
Ethylbenzene	5.0 U	5.0	1	09/11/15 15:36	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	09/11/15 15:36	
Methyl Acetate	10 U	10	1	09/11/15 15:36	
Methyl tert-Butyl Ether	5.0 U	5.0	1	09/11/15 15:36	
Methylcyclohexane	10 U	10	1	09/11/15 15:36	
Styrene	5.0 U	5.0	1	09/11/15 15:36	
Tetrachloroethene (PCE)	5.0 U	5.0	1	09/11/15 15:36	
Toluene	5.0 U	5.0	1	09/11/15 15:36	

Analytical Report

Client:	Marks Engineering, PC	**Service Request:**	R1507468
Project:	NYSDEC Site No. 8-35-013/15-027	**Date Collected:**	09/08/15 16:00
Sample Matrix:	Water	**Date Received:**	09/08/15 14:30
Sample Name:	DUP090815	**Units:**	ug/L
Lab Code:	R1507468-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result		MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	**410**	**D**	25	5	09/11/15 19:40	
Trichlorofluoromethane (CFC 11)	5.0	U	5.0	1	09/11/15 15:36	
Vinyl Chloride	5.0	U	5.0	1	09/11/15 15:36	
cis-1,2-Dichloroethene	5.0	U	5.0	1	09/11/15 15:36	
cis-1,3-Dichloropropene	5.0	U	5.0	1	09/11/15 15:36	
m,p-Xylenes	5.0	U	5.0	1	09/11/15 15:36	
o-Xylene	5.0	U	5.0	1	09/11/15 15:36	
trans-1,2-Dichloroethene	5.0	U	5.0	1	09/11/15 15:36	
trans-1,3-Dichloropropene	5.0	U	5.0	1	09/11/15 15:36	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	09/11/15 15:36	
Dibromofluoromethane	103	89 - 119	09/11/15 15:36	
Toluene-d8	104	87 - 121	09/11/15 15:36	

Client:	Marks Engineering, PC	**Service Request:**	R1507468
Project:	NYSDEC Site No. 8-35-013/15-027	**Date Collected:**	09/08/15
Sample Matrix:	Water	**Date Received:**	09/09/15 14:30
Sample Name:	TRIP BLANK	**Units:**	ug/L
Lab Code:	R1507468-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	09/11/15 19:13	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	09/11/15 19:13	
1,1,2-Trichloroethane	5.0 U	5.0	1	09/11/15 19:13	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	09/11/15 19:13	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	09/11/15 19:13	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	09/11/15 19:13	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	09/11/15 19:13	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	09/11/15 19:13	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	09/11/15 19:13	
1,2-Dibromoethane	5.0 U	5.0	1	09/11/15 19:13	
1,2-Dichlorobenzene	5.0 U	5.0	1	09/11/15 19:13	
1,2-Dichloroethane	5.0 U	5.0	1	09/11/15 19:13	
1,2-Dichloropropane	5.0 U	5.0	1	09/11/15 19:13	
1,3-Dichlorobenzene	5.0 U	5.0	1	09/11/15 19:13	
1,4-Dichlorobenzene	5.0 U	5.0	1	09/11/15 19:13	
1,4-Dioxane	100 U	100	1	09/11/15 19:13	
2-Butanone (MEK)	10 U	10	1	09/11/15 19:13	
2-Hexanone	10 U	10	1	09/11/15 19:13	
4-Methyl-2-pentanone	10 U	10	1	09/11/15 19:13	
Acetone	10 U	10	1	09/11/15 19:13	
Benzene	5.0 U	5.0	1	09/11/15 19:13	
Bromochloromethane	5.0 U	5.0	1	09/11/15 19:13	
Bromodichloromethane	5.0 U	5.0	1	09/11/15 19:13	
Bromoform	5.0 U	5.0	1	09/11/15 19:13	
Bromomethane	5.0 U	5.0	1	09/11/15 19:13	
Carbon Disulfide	10 U	10	1	09/11/15 19:13	
Carbon Tetrachloride	5.0 U	5.0	1	09/11/15 19:13	
Chlorobenzene	5.0 U	5.0	1	09/11/15 19:13	
Chloroethane	5.0 U	5.0	1	09/11/15 19:13	
Chloroform	5.0 U	5.0	1	09/11/15 19:13	
Chloromethane	5.0 U	5.0	1	09/11/15 19:13	
Cyclohexane	10 U	10	1	09/11/15 19:13	
Dibromochloromethane	5.0 U	5.0	1	09/11/15 19:13	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	09/11/15 19:13	
Dichloromethane	5.0 U	5.0	1	09/11/15 19:13	
Ethylbenzene	5.0 U	5.0	1	09/11/15 19:13	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	09/11/15 19:13	
Methyl Acetate	10 U	10	1	09/11/15 19:13	
Methyl tert-Butyl Ether	5.0 U	5.0	1	09/11/15 19:13	
Methylcyclohexane	10 U	10	1	09/11/15 19:13	
Styrene	5.0 U	5.0	1	09/11/15 19:13	
Tetrachloroethene (PCE)	5.0 U	5.0	1	09/11/15 19:13	
Toluene	5.0 U	5.0	1	09/11/15 19:13	

Analytical Report

Client:	Marks Engineering, PC	**Service Request:**	R1507468
Project:	NYSDEC Site No. 8-35-013/15-027	**Date Collected:**	09/08/15
Sample Matrix:	Water	**Date Received:**	09/09/15 14:30
Sample Name:	TRIP BLANK	**Units:**	ug/L
Lab Code:	R1507468-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	09/11/15 19:13	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	09/11/15 19:13	
Vinyl Chloride	5.0 U	5.0	1	09/11/15 19:13	
cis-1,2-Dichloroethene	5.0 U	5.0	1	09/11/15 19:13	
cis-1,3-Dichloropropene	5.0 U	5.0	1	09/11/15 19:13	
m,p-Xylenes	5.0 U	5.0	1	09/11/15 19:13	
o-Xylene	5.0 U	5.0	1	09/11/15 19:13	
trans-1,2-Dichloroethene	5.0 U	5.0	1	09/11/15 19:13	
trans-1,3-Dichloropropene	5.0 U	5.0	1	09/11/15 19:13	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	09/11/15 19:13	
Dibromofluoromethane	102	89 - 119	09/11/15 19:13	
Toluene-d8	102	87 - 121	09/11/15 19:13	

Client:	Marks Engineering, PC	**Service Request:**	R1507468
Project:	NYSDEC Site No. 8-35-013/15-027	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1510633-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	09/10/15 12:51	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	09/10/15 12:51	
1,1,2-Trichloroethane	5.0 U	5.0	1	09/10/15 12:51	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	09/10/15 12:51	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	09/10/15 12:51	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	09/10/15 12:51	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	09/10/15 12:51	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	09/10/15 12:51	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	09/10/15 12:51	
1,2-Dibromoethane	5.0 U	5.0	1	09/10/15 12:51	
1,2-Dichlorobenzene	5.0 U	5.0	1	09/10/15 12:51	
1,2-Dichloroethane	5.0 U	5.0	1	09/10/15 12:51	
1,2-Dichloropropane	5.0 U	5.0	1	09/10/15 12:51	
1,3-Dichlorobenzene	5.0 U	5.0	1	09/10/15 12:51	
1,4-Dichlorobenzene	5.0 U	5.0	1	09/10/15 12:51	
1,4-Dioxane	100 U	100	1	09/10/15 12:51	
2-Butanone (MEK)	10 U	10	1	09/10/15 12:51	
2-Hexanone	10 U	10	1	09/10/15 12:51	
4-Methyl-2-pentanone	10 U	10	1	09/10/15 12:51	
Acetone	10 U	10	1	09/10/15 12:51	
Benzene	5.0 U	5.0	1	09/10/15 12:51	
Bromochloromethane	5.0 U	5.0	1	09/10/15 12:51	
Bromodichloromethane	5.0 U	5.0	1	09/10/15 12:51	
Bromoform	5.0 U	5.0	1	09/10/15 12:51	
Bromomethane	5.0 U	5.0	1	09/10/15 12:51	
Carbon Disulfide	10 U	10	1	09/10/15 12:51	
Carbon Tetrachloride	5.0 U	5.0	1	09/10/15 12:51	
Chlorobenzene	5.0 U	5.0	1	09/10/15 12:51	
Chloroethane	5.0 U	5.0	1	09/10/15 12:51	
Chloroform	5.0 U	5.0	1	09/10/15 12:51	
Chloromethane	5.0 U	5.0	1	09/10/15 12:51	
Cyclohexane	10 U	10	1	09/10/15 12:51	
Dibromochloromethane	5.0 U	5.0	1	09/10/15 12:51	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	09/10/15 12:51	
Dichloromethane	5.0 U	5.0	1	09/10/15 12:51	
Ethylbenzene	5.0 U	5.0	1	09/10/15 12:51	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	09/10/15 12:51	
Methyl Acetate	10 U	10	1	09/10/15 12:51	
Methyl tert-Butyl Ether	5.0 U	5.0	1	09/10/15 12:51	
Methylcyclohexane	10 U	10	1	09/10/15 12:51	
Styrene	5.0 U	5.0	1	09/10/15 12:51	
Tetrachloroethene (PCE)	5.0 U	5.0	1	09/10/15 12:51	
Toluene	5.0 U	5.0	1	09/10/15 12:51	

Analytical Report

Client:	Marks Engineering, PC	**Service Request:**	R1507468
Project:	NYSDEC Site No. 8-35-013/15-027	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1510633-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	09/10/15 12:51	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	09/10/15 12:51	
Vinyl Chloride	5.0 U	5.0	1	09/10/15 12:51	
cis-1,2-Dichloroethene	5.0 U	5.0	1	09/10/15 12:51	
cis-1,3-Dichloropropene	5.0 U	5.0	1	09/10/15 12:51	
m,p-Xylenes	5.0 U	5.0	1	09/10/15 12:51	
o-Xylene	5.0 U	5.0	1	09/10/15 12:51	
trans-1,2-Dichloroethene	5.0 U	5.0	1	09/10/15 12:51	
trans-1,3-Dichloropropene	5.0 U	5.0	1	09/10/15 12:51	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	09/10/15 12:51	
Dibromofluoromethane	100	89 - 119	09/10/15 12:51	
Toluene-d8	100	87 - 121	09/10/15 12:51	

Client:	Marks Engineering, PC	**Service Request:**	R1507468
Project:	NYSDEC Site No. 8-35-013/15-027	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1510657-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	09/11/15 12:23	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	09/11/15 12:23	
1,1,2-Trichloroethane	5.0 U	5.0	1	09/11/15 12:23	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	09/11/15 12:23	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	09/11/15 12:23	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	09/11/15 12:23	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	09/11/15 12:23	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	09/11/15 12:23	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	09/11/15 12:23	
1,2-Dibromoethane	5.0 U	5.0	1	09/11/15 12:23	
1,2-Dichlorobenzene	5.0 U	5.0	1	09/11/15 12:23	
1,2-Dichloroethane	5.0 U	5.0	1	09/11/15 12:23	
1,2-Dichloropropane	5.0 U	5.0	1	09/11/15 12:23	
1,3-Dichlorobenzene	5.0 U	5.0	1	09/11/15 12:23	
1,4-Dichlorobenzene	5.0 U	5.0	1	09/11/15 12:23	
1,4-Dioxane	100 U	100	1	09/11/15 12:23	
2-Butanone (MEK)	10 U	10	1	09/11/15 12:23	
2-Hexanone	10 U	10	1	09/11/15 12:23	
4-Methyl-2-pentanone	10 U	10	1	09/11/15 12:23	
Acetone	10 U	10	1	09/11/15 12:23	
Benzene	5.0 U	5.0	1	09/11/15 12:23	
Bromochloromethane	5.0 U	5.0	1	09/11/15 12:23	
Bromodichloromethane	5.0 U	5.0	1	09/11/15 12:23	
Bromoform	5.0 U	5.0	1	09/11/15 12:23	
Bromomethane	5.0 U	5.0	1	09/11/15 12:23	
Carbon Disulfide	10 U	10	1	09/11/15 12:23	
Carbon Tetrachloride	5.0 U	5.0	1	09/11/15 12:23	
Chlorobenzene	5.0 U	5.0	1	09/11/15 12:23	
Chloroethane	5.0 U	5.0	1	09/11/15 12:23	
Chloroform	5.0 U	5.0	1	09/11/15 12:23	
Chloromethane	5.0 U	5.0	1	09/11/15 12:23	
Cyclohexane	10 U	10	1	09/11/15 12:23	
Dibromochloromethane	5.0 U	5.0	1	09/11/15 12:23	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	09/11/15 12:23	
Dichloromethane	5.0 U	5.0	1	09/11/15 12:23	
Ethylbenzene	5.0 U	5.0	1	09/11/15 12:23	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	09/11/15 12:23	
Methyl Acetate	10 U	10	1	09/11/15 12:23	
Methyl tert-Butyl Ether	5.0 U	5.0	1	09/11/15 12:23	
Methylcyclohexane	10 U	10	1	09/11/15 12:23	
Styrene	5.0 U	5.0	1	09/11/15 12:23	
Tetrachloroethene (PCE)	5.0 U	5.0	1	09/11/15 12:23	
Toluene	5.0 U	5.0	1	09/11/15 12:23	

Analytical Report

Client:	Marks Engineering, PC	**Service Request:**	R1507468
Project:	NYSDEC Site No. 8-35-013/15-027	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1510657-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	09/11/15 12:23	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	09/11/15 12:23	
Vinyl Chloride	5.0 U	5.0	1	09/11/15 12:23	
cis-1,2-Dichloroethene	5.0 U	5.0	1	09/11/15 12:23	
cis-1,3-Dichloropropene	5.0 U	5.0	1	09/11/15 12:23	
m,p-Xylenes	5.0 U	5.0	1	09/11/15 12:23	
o-Xylene	5.0 U	5.0	1	09/11/15 12:23	
trans-1,2-Dichloroethene	5.0 U	5.0	1	09/11/15 12:23	
trans-1,3-Dichloropropene	5.0 U	5.0	1	09/11/15 12:23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	09/11/15 12:23	
Dibromofluoromethane	100	89 - 119	09/11/15 12:23	
Toluene-d8	102	87 - 121	09/11/15 12:23	

Client:	Marks Engineering, PC	**Service Request:**	R1507468
Project:	NYSDEC Site No. 8-35-013/15-027	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1510846-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	09/14/15 11:55	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	09/14/15 11:55	
1,1,2-Trichloroethane	5.0 U	5.0	1	09/14/15 11:55	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	09/14/15 11:55	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	09/14/15 11:55	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	09/14/15 11:55	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	09/14/15 11:55	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	09/14/15 11:55	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	09/14/15 11:55	
1,2-Dibromoethane	5.0 U	5.0	1	09/14/15 11:55	
1,2-Dichlorobenzene	5.0 U	5.0	1	09/14/15 11:55	
1,2-Dichloroethane	5.0 U	5.0	1	09/14/15 11:55	
1,2-Dichloropropane	5.0 U	5.0	1	09/14/15 11:55	
1,3-Dichlorobenzene	5.0 U	5.0	1	09/14/15 11:55	
1,4-Dichlorobenzene	5.0 U	5.0	1	09/14/15 11:55	
1,4-Dioxane	100 U	100	1	09/14/15 11:55	
2-Butanone (MEK)	10 U	10	1	09/14/15 11:55	
2-Hexanone	10 U	10	1	09/14/15 11:55	
4-Methyl-2-pentanone	10 U	10	1	09/14/15 11:55	
Acetone	10 U	10	1	09/14/15 11:55	
Benzene	5.0 U	5.0	1	09/14/15 11:55	
Bromochloromethane	5.0 U	5.0	1	09/14/15 11:55	
Bromodichloromethane	5.0 U	5.0	1	09/14/15 11:55	
Bromoform	5.0 U	5.0	1	09/14/15 11:55	
Bromomethane	5.0 U	5.0	1	09/14/15 11:55	
Carbon Disulfide	10 U	10	1	09/14/15 11:55	
Carbon Tetrachloride	5.0 U	5.0	1	09/14/15 11:55	
Chlorobenzene	5.0 U	5.0	1	09/14/15 11:55	
Chloroethane	5.0 U	5.0	1	09/14/15 11:55	
Chloroform	5.0 U	5.0	1	09/14/15 11:55	
Chloromethane	5.0 U	5.0	1	09/14/15 11:55	
Cyclohexane	10 U	10	1	09/14/15 11:55	
Dibromochloromethane	5.0 U	5.0	1	09/14/15 11:55	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	09/14/15 11:55	
Dichloromethane	5.0 U	5.0	1	09/14/15 11:55	
Ethylbenzene	5.0 U	5.0	1	09/14/15 11:55	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	09/14/15 11:55	
Methyl Acetate	10 U	10	1	09/14/15 11:55	
Methyl tert-Butyl Ether	5.0 U	5.0	1	09/14/15 11:55	
Methylcyclohexane	10 U	10	1	09/14/15 11:55	
Styrene	5.0 U	5.0	1	09/14/15 11:55	
Tetrachloroethene (PCE)	5.0 U	5.0	1	09/14/15 11:55	
Toluene	5.0 U	5.0	1	09/14/15 11:55	

Analytical Report

Client:	Marks Engineering, PC	**Service Request:**	R1507468
Project:	NYSDEC Site No. 8-35-013/15-027	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1510846-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	09/14/15 11:55	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	09/14/15 11:55	
Vinyl Chloride	5.0 U	5.0	1	09/14/15 11:55	
cis-1,2-Dichloroethene	5.0 U	5.0	1	09/14/15 11:55	
cis-1,3-Dichloropropene	5.0 U	5.0	1	09/14/15 11:55	
m,p-Xylenes	5.0 U	5.0	1	09/14/15 11:55	
o-Xylene	5.0 U	5.0	1	09/14/15 11:55	
trans-1,2-Dichloroethene	5.0 U	5.0	1	09/14/15 11:55	
trans-1,3-Dichloropropene	5.0 U	5.0	1	09/14/15 11:55	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	09/14/15 11:55	
Dibromofluoromethane	101	89 - 119	09/14/15 11:55	
Toluene-d8	102	87 - 121	09/14/15 11:55	

Client: Marks Engineering, PC
Project: NYSDEC Site No. 8-35-013/15-027
Sample Matrix: Water

Service Request: R1507468
Date Analyzed: 09/10/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1510633-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	18.0	20.0	90	74-120
1,1,2,2-Tetrachloroethane	8260C	21.3	20.0	106	78-122
1,1,2-Trichloroethane	8260C	18.8	20.0	94	82-118
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	16.7	20.0	84	75-124
1,1-Dichloroethane (1,1-DCA)	8260C	18.9	20.0	94	78-117
1,1-Dichloroethene (1,1-DCE)	8260C	17.3	20.0	87	74-135
1,2,3-Trichlorobenzene	8260C	20.6	20.0	103	56-164
1,2,4-Trichlorobenzene	8260C	20.1	20.0	100	68-147
1,2-Dibromo-3-chloropropane (DBCP)	8260C	18.9	20.0	94	55-149
1,2-Dibromoethane	8260C	20.0	20.0	100	81-125
1,2-Dichlorobenzene	8260C	20.5	20.0	102	80-119
1,2-Dichloroethane	8260C	19.1	20.0	95	71-127
1,2-Dichloropropane	8260C	19.7	20.0	98	80-119
1,3-Dichlorobenzene	8260C	21.0	20.0	105	79-121
1,4-Dichlorobenzene	8260C	19.9	20.0	99	79-119
1,4-Dioxane	8260C	392	400	98	69-151
2-Butanone (MEK)	8260C	18.6	20.0	93	61-137
2-Hexanone	8260C	19.4	20.0	97	63-124
4-Methyl-2-pentanone	8260C	19.5	20.0	97	66-124
Acetone	8260C	18.5	20.0	92	40-161
Benzene	8260C	18.5	20.0	93	76-118
Bromochloromethane	8260C	18.8	20.0	94	81-126
Bromodichloromethane	8260C	19.3	20.0	97	78-126
Bromoform	8260C	20.0	20.0	100	71-136
Bromomethane	8260C	18.8	20.0	94	42-166
Carbon Disulfide	8260C	18.7	20.0	93	65-127
Carbon Tetrachloride	8260C	17.0	20.0	85	68-125
Chlorobenzene	8260C	20.4	20.0	102	80-121
Chloroethane	8260C	19.3	20.0	96	70-127
Chloroform	8260C	18.2	20.0	91	76-120
Chloromethane	8260C	15.5	20.0	78	69-145
Cyclohexane	8260C	20.4	20.0	102	63-121
Dibromochloromethane	8260C	19.9	20.0	100	77-128

Client: Marks Engineering, PC
Project: NYSDEC Site No. 8-35-013/15-027
Sample Matrix: Water

Service Request: R1507468
Date Analyzed: 09/10/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1510633-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260C	20.5	20.0	102	65-152
Dichloromethane	8260C	17.7	20.0	88	73-122
Ethylbenzene	8260C	17.1	20.0	86	76-120
Isopropylbenzene (Cumene)	8260C	20.5	20.0	102	78-126
Methyl Acetate	8260C	17.0	20.0	85	62-131
Methyl tert-Butyl Ether	8260C	20.3	20.0	101	78-125
Methylcyclohexane	8260C	19.8	20.0	99	51-129
Styrene	8260C	20.7	20.0	104	80-124
Tetrachloroethene (PCE)	8260C	18.6	20.0	93	78-124
Toluene	8260C	18.8	20.0	94	77-120
Trichloroethene (TCE)	8260C	17.8	20.0	89	78-123
Trichlorofluoromethane (CFC 11)	8260C	17.6	20.0	88	68-126
Vinyl Chloride	8260C	18.8	20.0	94	69-133
cis-1,2-Dichloroethene	8260C	17.5	20.0	87	80-121
cis-1,3-Dichloropropene	8260C	19.5	20.0	98	74-126
m,p-Xylenes	8260C	40.1	40.0	100	78-123
o-Xylene	8260C	19.3	20.0	96	80-120
trans-1,2-Dichloroethene	8260C	18.9	20.0	95	80-120
trans-1,3-Dichloropropene	8260C	19.3	20.0	96	67-135

Client: Marks Engineering, PC
Project: NYSDEC Site No. 8-35-013/15-027
Sample Matrix: Water

Service Request: R1507468
Date Analyzed: 09/11/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1510657-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	17.9	20.0	90	74-120
1,1,2,2-Tetrachloroethane	8260C	22.7	20.0	114	78-122
1,1,2-Trichloroethane	8260C	18.8	20.0	94	82-118
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	17.2	20.0	86	75-124
1,1-Dichloroethane (1,1-DCA)	8260C	19.3	20.0	97	78-117
1,1-Dichloroethene (1,1-DCE)	8260C	17.0	20.0	85	74-135
1,2,3-Trichlorobenzene	8260C	26.4	20.0	132	56-164
1,2,4-Trichlorobenzene	8260C	23.8	20.0	119	68-147
1,2-Dibromo-3-chloropropane (DBCP)	8260C	23.4	20.0	117	55-149
1,2-Dibromoethane	8260C	21.1	20.0	106	81-125
1,2-Dichlorobenzene	8260C	22.0	20.0	110	80-119
1,2-Dichloroethane	8260C	19.8	20.0	99	71-127
1,2-Dichloropropane	8260C	20.2	20.0	101	80-119
1,3-Dichlorobenzene	8260C	21.1	20.0	106	79-121
1,4-Dichlorobenzene	8260C	21.0	20.0	105	79-119
1,4-Dioxane	8260C	725	400	181 *	69-151
2-Butanone (MEK)	8260C	25.6	20.0	128	61-137
2-Hexanone	8260C	24.3	20.0	122	63-124
4-Methyl-2-pentanone	8260C	20.8	20.0	104	66-124
Acetone	8260C	31.4	20.0	157	40-161
Benzene	8260C	18.7	20.0	93	76-118
Bromochloromethane	8260C	18.4	20.0	92	81-126
Bromodichloromethane	8260C	19.7	20.0	98	78-126
Bromoform	8260C	21.3	20.0	106	71-136
Bromomethane	8260C	19.4	20.0	97	42-166
Carbon Disulfide	8260C	18.4	20.0	92	65-127
Carbon Tetrachloride	8260C	16.1	20.0	80	68-125
Chlorobenzene	8260C	21.1	20.0	106	80-121
Chloroethane	8260C	19.3	20.0	96	70-127
Chloroform	8260C	18.6	20.0	93	76-120
Chloromethane	8260C	15.6	20.0	78	69-145
Cyclohexane	8260C	20.2	20.0	101	63-121
Dibromochloromethane	8260C	21.0	20.0	105	77-128

Client: Marks Engineering, PC
Project: NYSDEC Site No. 8-35-013/15-027
Sample Matrix: Water

Service Request: R1507468
Date Analyzed: 09/11/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1510657-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260C	20.8	20.0	104	65-152
Dichloromethane	8260C	18.2	20.0	91	73-122
Ethylbenzene	8260C	18.8	20.0	94	76-120
Isopropylbenzene (Cumene)	8260C	21.5	20.0	107	78-126
Methyl Acetate	8260C	18.5	20.0	93	62-131
Methyl tert-Butyl Ether	8260C	20.8	20.0	104	78-125
Methylcyclohexane	8260C	20.0	20.0	100	51-129
Styrene	8260C	21.3	20.0	107	80-124
Tetrachloroethene (PCE)	8260C	19.0	20.0	95	78-124
Toluene	8260C	19.0	20.0	95	77-120
Trichloroethene (TCE)	8260C	18.5	20.0	93	78-123
Trichlorofluoromethane (CFC 11)	8260C	19.1	20.0	96	68-126
Vinyl Chloride	8260C	18.9	20.0	94	69-133
cis-1,2-Dichloroethene	8260C	17.9	20.0	90	80-121
cis-1,3-Dichloropropene	8260C	19.6	20.0	98	74-126
m,p-Xylenes	8260C	42.7	40.0	107	78-123
o-Xylene	8260C	19.8	20.0	99	80-120
trans-1,2-Dichloroethene	8260C	18.3	20.0	91	80-120
trans-1,3-Dichloropropene	8260C	20.0	20.0	100	67-135

Client: Marks Engineering, PC
Project: NYSDEC Site No. 8-35-013/15-027
Sample Matrix: Water

Service Request: R1507468
Date Analyzed: 09/14/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1510846-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	18.8	20.0	94	74-120
1,1,2,2-Tetrachloroethane	8260C	20.6	20.0	103	78-122
1,1,2-Trichloroethane	8260C	19.6	20.0	98	82-118
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	17.5	20.0	88	75-124
1,1-Dichloroethane (1,1-DCA)	8260C	20.1	20.0	100	78-117
1,1-Dichloroethene (1,1-DCE)	8260C	19.1	20.0	96	74-135
1,2,3-Trichlorobenzene	8260C	25.2	20.0	126	56-164
1,2,4-Trichlorobenzene	8260C	23.8	20.0	119	68-147
1,2-Dibromo-3-chloropropane (DBCP)	8260C	21.1	20.0	105	55-149
1,2-Dibromoethane	8260C	20.5	20.0	102	81-125
1,2-Dichlorobenzene	8260C	21.5	20.0	108	80-119
1,2-Dichloroethane	8260C	20.0	20.0	100	71-127
1,2-Dichloropropane	8260C	21.2	20.0	106	80-119
1,3-Dichlorobenzene	8260C	21.7	20.0	108	79-121
1,4-Dichlorobenzene	8260C	20.7	20.0	104	79-119
1,4-Dioxane	8260C	593	400	148	69-151
2-Butanone (MEK)	8260C	22.1	20.0	110	61-137
2-Hexanone	8260C	21.9	20.0	110	63-124
4-Methyl-2-pentanone	8260C	20.2	20.0	101	66-124
Acetone	8260C	28.8	20.0	144	40-161
Benzene	8260C	19.6	20.0	98	76-118
Bromochloromethane	8260C	18.9	20.0	95	81-126
Bromodichloromethane	8260C	20.8	20.0	104	78-126
Bromoform	8260C	20.7	20.0	104	71-136
Bromomethane	8260C	20.4	20.0	102	42-166
Carbon Disulfide	8260C	18.7	20.0	93	65-127
Carbon Tetrachloride	8260C	18.2	20.0	91	68-125
Chlorobenzene	8260C	21.5	20.0	108	80-121
Chloroethane	8260C	20.4	20.0	102	70-127
Chloroform	8260C	19.2	20.0	96	76-120
Chloromethane	8260C	16.4	20.0	82	69-145
Cyclohexane	8260C	20.9	20.0	105	63-121
Dibromochloromethane	8260C	20.8	20.0	104	77-128

Client: Marks Engineering, PC
Project: NYSDEC Site No. 8-35-013/15-027
Sample Matrix: Water

Service Request: R1507468
Date Analyzed: 09/14/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1510846-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260C	21.1	20.0	106	65-152
Dichloromethane	8260C	18.0	20.0	90	73-122
Ethylbenzene	8260C	18.7	20.0	93	76-120
Isopropylbenzene (Cumene)	8260C	22.4	20.0	112	78-126
Methyl Acetate	8260C	16.6	20.0	83	62-131
Methyl tert-Butyl Ether	8260C	20.6	20.0	103	78-125
Methylcyclohexane	8260C	20.5	20.0	102	51-129
Styrene	8260C	21.3	20.0	107	80-124
Tetrachloroethene (PCE)	8260C	19.9	20.0	100	78-124
Toluene	8260C	19.8	20.0	99	77-120
Trichloroethene (TCE)	8260C	19.8	20.0	99	78-123
Trichlorofluoromethane (CFC 11)	8260C	19.9	20.0	99	68-126
Vinyl Chloride	8260C	19.9	20.0	99	69-133
cis-1,2-Dichloroethene	8260C	18.5	20.0	93	80-121
cis-1,3-Dichloropropene	8260C	20.2	20.0	101	74-126
m,p-Xylenes	8260C	43.4	40.0	109	78-123
o-Xylene	8260C	19.8	20.0	99	80-120
trans-1,2-Dichloroethene	8260C	19.2	20.0	96	80-120
trans-1,3-Dichloropropene	8260C	20.6	20.0	103	67-135

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

30720

ALS Environmental

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 2

Project Name: NYSDEC Site No 8-35-013	Project Number: 15-027
Project Manager: Jeremy Wolf	Report CC:
Company/Address: Marks Engineering 152 Yellow Mills Road Palmyra, NY 14522	
Phone #: 585-500-8392	Email: JWolf@marksengineering.com
Sampler's Signature:	Sampler's Printed Name: Jeremy Wolf

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 1

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS		GC/MS VOAs ◦ 8260 ◦ 624 ◦ CLP TCL	GC/MS SVOAs ◦ 8270 ◦ 625	GC VOAs ◦ 8021 ◦ 601/602	PESTICIDES ◦ 8081 ◦ 608	PCBs ◦ 8082 ◦ 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	REMARKS/ ALTERNATE DESCRIPTION
MW-4		9/8/15	0945	GW	3	3								
MW-23		9/8/15	1015	GW	3	3								
MW-10		9/8/15	1035	GW	3	3								
MW-24S		9/8/15	1050	GW	3	3								
MW-15		9/8/15	1110	GW	3	3								
MW-13		9/8/15	1125	GW	3	3								
MW-14		9/8/15	1140	GW	3	3								
MW-17S		9/8/15	1155	GW	3	3								
MW-16		9/8/15	1215	GW	3	3								
SSFG MW-3		9/8/15	1240	GW	3	3								
SC-1		9/8/15	1345	SW	3	3								

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

Report. PDF. only to

JWolf@marksengineering.com

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 1 day _____ 2 day _____ 3 day
_____ 4 day X 5 day
REQUESTED REPORT DATE
_____

REPORT REQUIREMENTS
X I. Results Only
___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data
Edata ___Yes ___No

INVOICE INFORMATION
PO # 15-027
BILL TO: Marks Engineering
152 Yellow Mills Rd.
Palmyra, NY 14522

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Jeremy Wolf	Signature: Daniel Marc	Signature	Signature	Signature	Signature
Printed Name: Jeremy Wolf	Printed Name: ALS	Printed Name	Printed Name	Printed Name	
Firm: Marks Engineering	Firm: 9/8/15 1430	Firm	Firm	Firm	
Date/Time: 9/8/15 1430	Date/Time	Date/Time	Date/Time	Date/Time	

Distribution: White - Lab Copy; Yellow - Return to Originator

R1507468 5
Marks Engineering, PC
VOA

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

30719

ALS Environmental

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 2 OF 2

Project Name: NYSDEC Site No 8-35-013	Project Number: 15-027
Project Manager: Jeremy Wolf	Report CC:
Company/Address: Marks Engineering 152 Yellow Mills Road Palmyra NY 14522	
Phone #: 585-500-8392	Email: JWolf@MarksEngineering.com
Sampler's Signature:	Sampler's Printed Name: Jeremy Wolf

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 1

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs ○ 8260 ○ 624 ○ CLP	GC/MS SVOAs ○ 8270 ○ 625	GC VOAs ○ 8021 ○ 601/602	PESTICIDES ○ 8081 ○ 608	PCBs ○ 8082 ○ 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)
DUP090815		9/8/15	1600	GW	2	2						

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

SPECIAL INSTRUCTIONS/COMMENTS
Metals

Report PDF. only to JWolf@marksengineering.com

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 1 day _____ 2 day _____ 3 day
_____ 4 day X 5 day

REQUESTED REPORT DATE: _____

REPORT REQUIREMENTS
X I. Results Only
_____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
_____ III. Results + QC and Calibration Summaries
_____ IV. Data Validation Report with Raw Data

Edata _____ Yes _____ No

INVOICE INFORMATION
PO # 15-027
BILL TO: Marks Engineering
152 Yellow Mills Rd.
Palmyra, NY 14552

STATE WHERE SAMPLES WERE COLLECTED

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Jeremy Wolf	Signature: David Nuhn	Signature	Signature	Signature	Signature
Printed Name: Jeremy Wolf	Printed Name: ALS	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Marks Engineering	Firm: 9/8/15 / 1430	Firm	Firm	Firm	Firm
Date/Time: 9/8/15 1430	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Lab Copy; Yellow - Return to Originator

Cooler Receipt and Preservation Check Form

Project/Client Mark's Eng. Folder Number R15-7468

Cooler received on 9/8/15 by: DW

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	Y (N)
2	**Custody papers** properly completed (ink, signed)?	(Y) N
3	Did **all bottles** arrive in good **condition** (unbroken)?	(Y) N
4	Circle: ~~Wet Ice~~ **Dry Ice Gel packs** present?	(Y) N

5a	**Perchlorate** samples have required headspace?	Y N (NA)
5b	Did VOA vials, Alk,or Sulfide have sig* **bubbles**?	Y (N) NA
6	Where did the bottles originate?	ALS/ROC CLIENT
7	Soil VOA received as:	Bulk Encore 5035set ~~NA~~

8. Temperature Readings Date: 9/8/15 Time: 1440 ID: ~~IR#3~~ IR#5 From: ~~Temp Blank~~ Sample Bottle

Observed Temp (°C)	8.3						
Correction Factor (°C)	-0.3						
Corrected Temp (°C)	8.0						
Within 0-6°C?	Y (N)	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed ~~Same Day Rule~~

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R-002 by DW on 9/8/15 at 1440

5035 samples placed in storage location: _____ by _____ on _____ at _____

PC Secondary Review: [signature]

Cooler Breakdown: Date: 9/9/15 Time: 0907 by: MDS

1. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
2. Did all bottle labels and tags agree with custody papers? (YES) NO
3. Were correct containers used for the tests indicated? (YES) NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated (N/A)

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO_3								
≤2	H_2SO_4								
<4	$NaHSO_4$								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add $Na_2S_2O_3$ (CN), ascorbic (phenol).					
	$Na_2S_2O_3$	-	-						
	ZnAcetate	-	-						
	HCl	**	**	4114076	8/16				

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust: _____

Bottle lot numbers: 5120-002

Other Comments:

PC Secondary Review: [signature]

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter