DECEMBER 2019

GROUNDWATER MONITORING REPORT

FOR
FORMER MOBIL SERVICE STATION 99-MST - 979 MAIN STREET (1001 MAIN STREET) BCP SITE NO. C915260 CITY OF BUFFALO, ERIE COUNTY, NEW YORK

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DECEMBER 2019

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ACRONYM LIST

C&S	C&S ENGINEERS, INC.
NYSDEC	NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
LUST	LEAKING UNDERGROUND STORAGE TANK
BCP	BROWNFIELD CLEANUP PROGRAM
SPH	SEPARATE PHASE HYDROCARBONS
RI/IRM	REMEDIAL INVESTIGATION / INTERIM REMEDIAL MEASURES
BTEX	BENZENE, TOLUENE, ETHYLBENZENE AND TOLUENE
LNAPL	LIGHT NON AQUEOUS PHASE LIQUID
VOC	VOLATILE ORGANIC COMPOUNDS
SCO	SOIL CLEANUP OBJECTIVES
PID	PHOTO-IONIZATION DETECTOR

1. INTRODUCTION

C&S Engineers, Inc. (C&S) has prepared this Groundwater Monitoring Report for the former Mobil Service Station 99-MST - 979 Main Street (1001 Main Street) (hereinafter referred to as the Site) located at 1001 Main Street in Buffalo, New York.

The Site was remediated in accordance with Brownfield Cleanup Agreement (BCA) Index #C915260-03-12, Site #C915260, which was executed on June 15, 2012 and last amended on August 7, 2012. A figure showing the Site location and boundaries is provided in **Figure 1** and **Figure 2**.

Remedial activities consisted of installing steel shoring around the property and removing contaminated soil and groundwater to 26 – 40 feet below ground surface. After completion of the remedial work, some contamination remained in the subsurface at this Site. A Site Management Plan (SMP) was prepared on November 28, 2014 to manage remaining groundwater contamination at the Site until the Environmental Easement is extinguished in accordance with ECL Article 71, Title 36.

Petroleum contaminated groundwater is present within a discontinuous layer of coarse sand and gravel located between 32 and 35 feet below ground surface. This layer generally ranges from 6 inches to three feet thick, provides a preferential pathway for groundwater flow, and is confined within dense silt and fine sand present above and below the groundwater bearing zone.

During the remedial efforts, seven groundwater monitoring wells were installed prior to the installation of the two floors of underground parking. These monitoring wells were used to monitor the effectiveness of in-situ chemical injections.

SUBSURFACE CONDITIONS

1.1. Geology

Geologic information is based on observations made during site excavations for the Site remedial efforts, as well as numerous previous studies such as the *Supplemental Subsurface Investigation and Quarterly Groundwater Monitoring Report*, (December 9, 2008, Groundwater & Environmental Service, Inc.) and the *Geotechnical Engineering Report, 1001 Main Street Medical Office Building, Buffalo New York*; (November 2010; McMahon and Mann Consulting Engineers).

The Site contained urban fill of varying depths. Fill depths ranged from 3 feet of parking lot subgrade and mixed stone to more urban fill ranging from 6 -12 feet of bricks concrete and miscellaneous building rubble, which at times was contained within old building basements.

Underlying the fill were native deposits of fine dense sand with silt with discrete clay lenses. Within this formation is a discrete, discontinuous water bearing zone comprised of coarse sand and fine to medium gravel. This zone is generally found between 32 and 35 feet bgs and ranging in thickness between 6-inches to several feet (GES, 2008).

Below this zone is the dry to moist fine sand and silt formation extends to nearly 70 feet bgs. Below this massive sand and silt formation is a coarse sand and gravel layer that grades to a sand, gravel; and clay till formation. Underlying the overburden is a grey cherty limestone formation at approximately 90 feet bgs (M&M, 2010).

1.2. Hydrogeology

The principal groundwater bearing zone beneath the Site is located within the coarse sand and gravel layer that is generally present between 32 and 35 feet bgs. This layer is of variable thickness (generally six inches to three feet) but is horizontally discontinuous. The layer is located within the central and northeastern portions of the Site, but does not extend completely to the southern, northwestern or southeastern areas of the Site (GES, 2008) and is confined by the dense fine sands and silt above and below the groundwater bearing zone.

Groundwater beneath the Site flows from the west to the northeast, following the depositional area of the confined groundwater bearing zone.

1.3. Contaminant Transport

Petroleum from leaking underground storage tanks (LUSTs) formerly located at a Mobil Service Station at the corner of Main and High Streets spilled petroleum products into the subsurface soils and groundwater for over 30 years. The main release area is located in the approximate area of the former LUSTs where contaminated soils were observed from 10 feet below ground surface (BGS) to approximately 20 feet BGS grade.

From the main release area, historic migration of petroleum product entered into a semi-confined coarse sand and gravel lens observed approximately 32 to 35 feet BGS. The water table is present within this semi-confined coarse sand and gravel lens. This lens varies in thickness (1/2 to 3 feet) and extends to the northeast, confined laterally to the east and west. Petroleum product within this lens generally moved horizontally across the Site with groundwater flow.

Because of low carbon in the fine sand silt and gravel formations, breakdown of benzene, toluene, ethylbenzene and xylene (BTEX) compounds was slow. Dissolved BTEX, once entering the groundwater bearing zone was transported via localized, preferential groundwater flow to the northeast corner of the Site (following the location of the sand/gravel lens).

2. ISCO TREATMENT

The remedial method selected for the Site was in-situ chemical oxidation (ISCO) using RegenOX manufactured by Regenesis. RegenOX is sodium percarbonate formulated to degrade petroleum hydrocarbons through direct oxidation and through the generation of free radical compounds which will also oxidize contaminants. RegenOx produces minimal heat and pressure and is non-corrosive, making it a relatively safe chemical oxidant that is compatible for use in direct contact with underground infrastructure such as utilities, tanks, piping, and communication lines. This was an important characteristic when selecting the ISCO product due to the close proximity of the monitoring wells to the earth retention sheeting for the Conventus Building.

The amount of RegenOX used was calculated based on Conventus Site specific data and professional experience of C&S and Regenesis. RegenOX was mixed with tap water in 55 gallon drums at a concentration of 100 pounds of RegenOX with 110 gallons of water for each location.

In-situ treatment consisted of gravity-feeding a chemical oxidizer mixed with water directly into monitoring wells, BCP-MW-3, BCP-MW-4, BCP-MW-5, and BCP-MW-6,. Groundwater samples were collected approximately three months after treatment. The first ISCO treatment was conducted on December 12, 2013.

Evaluation of the gravity fed treatments determined this method was not effective at reducing groundwater contaminants. A work plan for increasing the amount of treatment solution using pressure injections was developed. Borings were advanced in the lower floor of underground parking to apply in-situ treatments under pressure directly into the contaminated sand and gravel lens. The sections below describe the methods used to conduct two in-situ treatment events on November 12td, and 13th, 2019.

The ISCO solution was directly injected into the soil in 12 borings in the sub-basement. Three borings were advanced adjacent to each monitoring wells listed below:

- BCP-MW-3
- BCP-MW-5
- BCP-MW-4
- BCP-MW-6

Each injection boring had to be carefully located to avoid hitting utilities located underneath the floor, with the intent of being within 10 to 15 feet of each monitoring well. Each injection boring was advanced into the coarse sand and gravel layer, approximately 15 feet below the concrete floor.

The ISCO solution was pumped from the mixing station to a truck mounted geo-probe and into the subsurface. The mix of RegenOX and water was injected under pressure in each boring, and the 12 injection borings received approximately 100 pounds of RegenOx. Additionally, 100 pounds of ISCO material was gravity fed directly into each monitoring well. A total of 1,600 pounds of RegenOx was used for each treatment event. For two treatments, a total of 3,200 pounds of RegenOX was used. These large treatment events resulted in mixed results; some locations showed an increase in contaminant concentrations, likely due to additional petroleum desorption, other locations indicated a significant decrease of petroleum contaminants.

The current ISCO treatment method is smaller pressurized injections around each target location on a quarterly schedule. A total of six temporary PVC injection points were installed around BCP-MW-6 and BCP-MW-5. Each quarterly treatment injects a total of 800 pounds (130 pounds per injection point) of chemical oxidant. Groundwater monitoring is conducted biannually.

For this reporting period, the last in-situ treatment was completed on November 12th, and 13th, 2019.

3. GROUNDWATER MONITORING

3.1. Groundwater Sampling Events

Previously, groundwater samples were collected from the wells on following dates:

- September 20, 2013
- March 19, 2014
- May 22, 2014
- March 11, 2015
- June 17, 2015
- August 3, 2015
- October 7, 2015
- December 14, 2015
- January 27, 2016
- March 22, 2016
- June 3, 2016
- October 25, 2016
- December 8, 2016
- January 20, 2017
- May 17, 2017
- July 5, 2017
- November 2, 2017
- August 18, 2018
- November 30, 2018
- July 30, 2019
- December 4, 2019

For this reporting period, the groundwater sampling was completed on December 4th, 2019.

3.2. Groundwater Sampling Methods

Before purging the wells, water levels were measured using an electric water level sounder capable of measuring to the 0.01-foot accuracy. Peristaltic or bladder pumps using manufacturer-specified tubing was used for purging and sampling groundwater. Calibration, purging and sampling procedures was performed as specified by the USEPA[1] for low-flow sampling. Decontamination was conducted after each well is sampled to reduce the likelihood of cross contamination. Groundwater sampling equipment including the in-well pump, flow cell and water level meter was cleaned with Alconox, a phosphate free cleaner.

Samples were collected for VOCs in three 40 ml glass vials. Groundwater filled each vial until it formed a meniscus and no air bubbles were inside the vial. The cap was placed on the vial

[1] U.S. EPA Region 1 Low Stress (low-flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells, January 19, 2010.

and turned over to check if any air bubbles were in the sample. Groundwater samples were kept at 4°C until the laboratory took custody of the samples.

3.3. Groundwater Levels

Groundwater levels were measured from the top of the monitoring well casing an electric water level sounder capable of measuring to the 0.01-foot accuracy. Lidar data, downloaded from the New York State GIS Clearinghouse, was used to obtain ground elevations for each monitoring well. The Lidar dataset, developed in 2008, covers Erie County and achieves a vertical accuracy of 18.5 cm on open bare terrain and 37.0 cm for obscured areas. Groundwater elevations for each monitoring well are provided in **Table 3-1** below.

Table 3-1: Monitoring Well Ground Elevations

MONITORING WELL ID	*GROUND ELEVATION (FT.)*	*WATER LEVEL (FT.)*	*GROUNDWATER ELEVATION (FT.)*
BCP-MW-1	663.465	33.0	630.465
BCP-MW-3	663.465	33.0	630.465
BCP-MW-4	663.465	33.1	630.365
BCP-MW-5	663.465	32.1	631.365
BCP-MW-6	663.465	32.9	630.565
BCP-MW-7	663.465	30.2	633.265

Note: Ground elevations from Lidar Dataset.

Figure 3 presents groundwater elevation contours.

3.4. BTEX Monitoring

Table 3-2 attached to the end of this report presents detected VOC concentrations from December 2012 to December 2019. **Figure 4** presents total BTEX concentrations from each monitoring well. Lab analytical reports are provided in **Appendix A**.

BCP-MW-1

Total BTEX concentrations in this well after sampling showed 0 ug/L. This trend has been consistent since the sampling event that took place in October of 2016.

BCP-MW-2

BCP-MW-2 was installed adjacent to the source area that was backfilled with flowable fill. Since its installation, this well has been dry. NYSDEC requested the well be modified to

evaluate if groundwater underneath the flowable fill mass contains residual contamination. On October 7, 2015 Nature's Way Environmental installed a 1-inch PVC well through the existing BCP-MW-2 to a final depth of 50 feet bgs. The modified well has remained dry.

BCP-MW-3

Sample results indicate total reading of 2.6 ug/L for total VOCs which was consistent with previous sampling events levels of 2.1ug/L. Total BTEX showed a concentration of 2.6ug/L which is up from non-detect levels that has been consistent for the last three sampling events dating back to the August 16th, 2018 sampling event.

BCP-MW-4

Initial analytical results from MW-4 had a BTEX concentration of 76.8 ug/L from September 20, 2013, and had initially increased and peaked at a BTEX concentration of 4,162 ug/L, after the sampling event that took place on August 3, 2015. Since the peak from the sampling event in August of 2015, injection treatments have been successful to decrease the concentrations.

In the latest sampling event that was carried out on July 30, 2019 the BTEX concentration was 8.7 ug/L. This indicates a 99.7% decrease of BTEX concentrations from the peak analytical of 4,162 ug/L from the August, 2015 sampling event.

The 8.7 ug/L BTEX concentration from the July 2019 sampling event is also down 97.1% from the previous sampling event that took place on November 29, 2019.

BCP-MW-4 showed an increase in total VOC levels as well as total BTEX levels. Total VOC samples showed a concentration of 821.7 ug/L and total BTEX showed a concentration of 634.7 ug/L. The increase in concentration levels when compared to the previous sampling event in July of 2019 can be attributed to the samples being collected in such a close time period to when well injections were implemented. The chemicals injected will remove petroleum contaminants adhered to soil particles, as a result, a higher concentration of contaminants will be found in the groundwater. The oxidant component of the chemical injected will break these contaminants down over time.

BCP-MW-5

The initial BTEX concentration of MW-5 was 17,670 ug/L in September of 2013. The most recent sampling event on December 4th, 2019, showed a BTEX concentration of 4,623.90 ug/L, which is an increase compared to the previous, July 2019 sampling event that had a concentration of 2,440.30 ug/L. The reason for the increase could be a result of the same issue that caused BCP-MW-4 to increase.

BCP-MW-6

Total BTEX concentrations from the December 4th, 2019 sampling event showed a slight increase in BTEx concentrations. The most recent sampling event showed a concentration for total BTEX of 21.10 ug/L. The increase in concentration may also be related to the issue that caused the previous wells to also increase.

BCP-MW-7

MW-7 decreased in BTEX concentration to nearly non-detect levels. The recorded BTEX concentration after the December 2019 sampling event was 0.17 ug/L. The sample concentration of 0.17 ug/L is consistent with the previous two sampling event concentrations of 0.77ug/L in July of 2019, as well as 0.18 ug/L in November of 2018.

4. CONCLUSION AND RECOMMENDATIONS

The November 2019 injection event appeared to be successful in some wells but inefficient in other wells. This could have a correlation with the time period between when the wells were injected and when the samples were collected from the wells. After the chemical oxidant treatment, petroleum contamination still exists in three monitoring wells. C&S recommends the following:

- Perform another quarterly in-situ treatments within three groundwater monitoring wells (BCP-MW-4, BCP-MW-5 and BCP-MW-6).
- Subsequent in-situ treatments should focus on reducing contaminant concentrations at BCP-MW-5.
- Bi-annual groundwater sampling on all monitoring wells located on the Conventus site.

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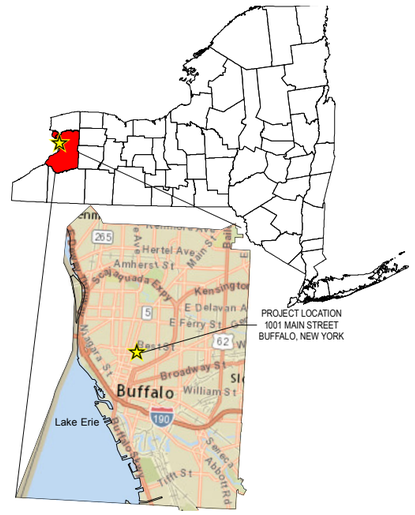
FIGURES



Legend

- Parcel Boundary
- Brownfield Cleanup Program Boundary

Property Note

1) The BCP Project Area ("Site") includes the entire western parcel [1001 Main Street (formerly 979 Main Street)] and extends approximately 40 feet east onto the adjacent eastern parcel (818 Ellicott Street). Total acreage of the BCP Project Site is 1.72 acres.

Notes

1) Groundwater elevation benchmark.

2) Coordinate System: NAD 1983 StatePlane NY West FIPS 3103
Projection: Transverse Mercator
Datum: North American 1983
Units: Foot US

0 30 60 120
Feet

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FORMER MOBIL STATION 99-MST
979 MAIN ST (1001 MAIN ST)
BROWNFIELD CLEANUP PROGRAM
BUFFALO, NEW YORK

MARK	DATE	DESCRIPTION

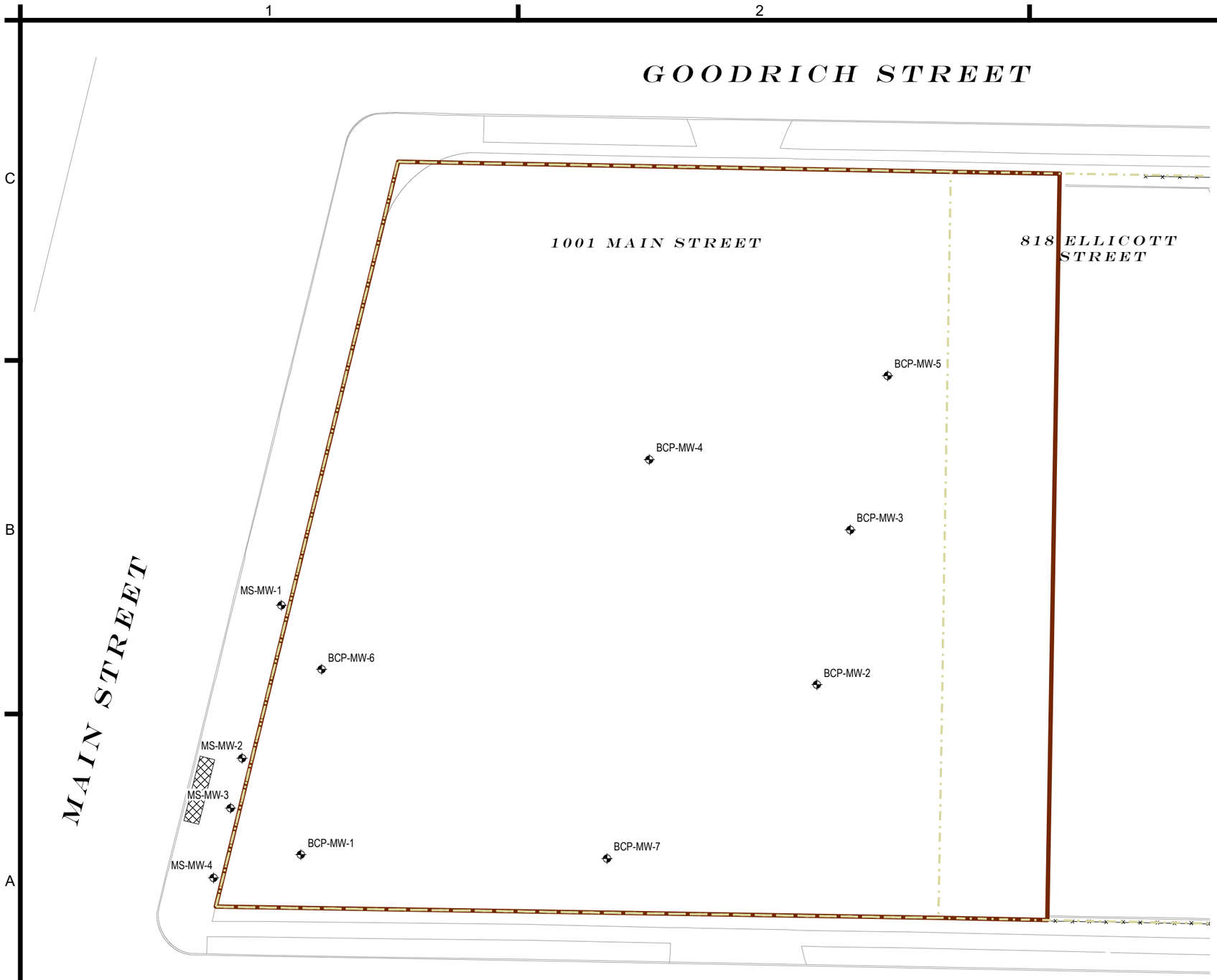
REVISIONS

PROJECT NO:	K11.002.001
DATE:	May 4, 2016
DRAWN BY:	C. MARTIN
DESIGNED BY:	C. MARTIN
CHECKED BY:	

SITE LOCATION

FIGURE 1

Path: F:\Project\K11-Kaleida Health\K11.002.001 - MOB Brownfield Cleanup Program\Environmental-study\CADD-GIS\GIS\Projects\PRR\FIGURE_2_PROJECT_BOUNDARIES.mxd



Legend

- Property Lines
- Brownfield Cleanup Program Boundary
- Groundwater Monitoring Well Location

Property Note

1) The BCP Project Area ("Site") includes the entire western parcel [1001 Main Street (formerly 979 Main Street)] and extends approximately 40 feet east onto the adjacent eastern parcel (818 Ellicott Street). Total acreage of the BCP Project Site is 1.72 acres.

Notes

1) Coordinate System: NAD 1983 StatePlane NY West FIPS 3103
Projection: Transverse Mercator
Datum: North American 1983
Units: Foot US

2) Survey data from McIntosh & McIntosh P.C. "Topographical Map of Part of Lot-29, TWP.-11, R.-8, Holland Purchase" Job No. 7669-B(2) September 24, 2008.

0 25 50 100 Feet

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BROWNFIELD CLEANUP PROGRAM
BUFFALO, NEW YORK

MARK	DATE	DESCRIPTION
REVISIONS		

PROJECT NO:	K11.002.001
DATE:	JUNE 15, 2016
DRAWN BY:	C. MARTIN
DESIGNED BY:	C. MARTIN
CHECKED BY:	D. RIKER

OFFSITE & ONSITE GROUNDWATER WELLS

FIGURE 2

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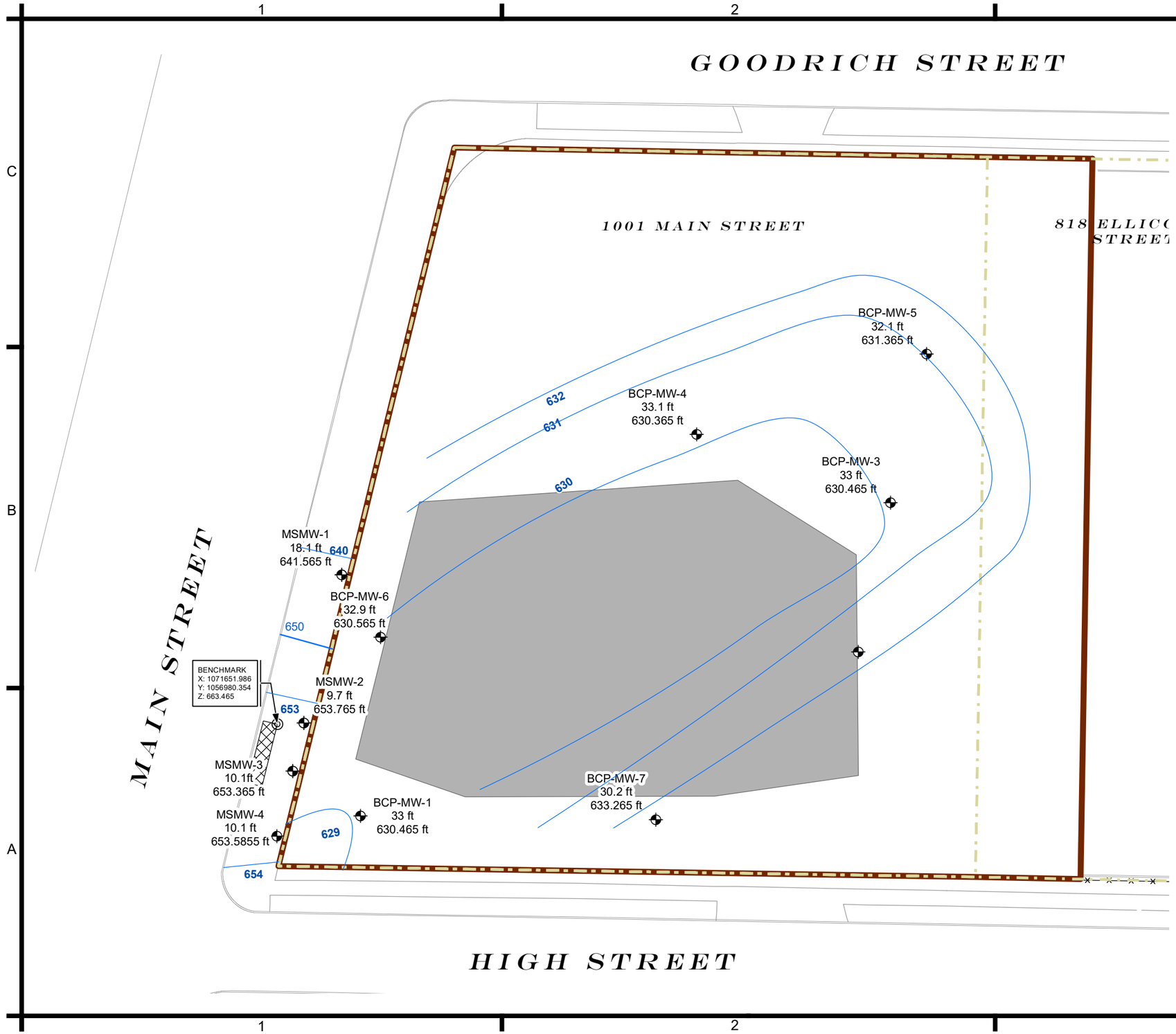

Legend

- Property Lines
- Brownfield Cleanup Program Boundary
- Area of Deep Excavation / Flowable Fill Area
- Groundwater Monitoring Well Location

Label Note

32.2' — Depth to Water (ft) from ground surface

631.265' — Groundwater Elevation below Benchmark (feet)

Property Note

1) The BCP Project Area ("Site") includes the entire western parcel [1001 Main Street (formerly 979 Main Street)] and extends approximately 40 feet east onto the adjacent eastern parcel (818 Ellicott Street). Total acreage of the BCP Project Site is 1.72 acres.

Notes

1) Coordinate System: NAD 1983 StatePlane NY West FIPS 3103
Projection: Transverse Mercator
Datum: North American 1983
Units: Foot US

2) Survey data from McIntosh & McIntosh P.C. "Topographical Map of Part of Lot-29, TWP.-11, R.-8, Holland Purchase" Job No. 7669-B(2) September 24, 2008.

0 20 40 80 Feet

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BROWNFIELD CLEANUP PROGRAM
BUFFALO, NEW YORK

MARK	DATE	DESCRIPTION

REVISIONS

PROJECT NO:	K11.002.001
DATE:	December 12, 2019
DRAWN BY:	R. BACKERT
DESIGNED BY:	C. MARTIN
CHECKED BY:	D. RIKER

GROUNDWATER CONTOUR

FIGURE 2

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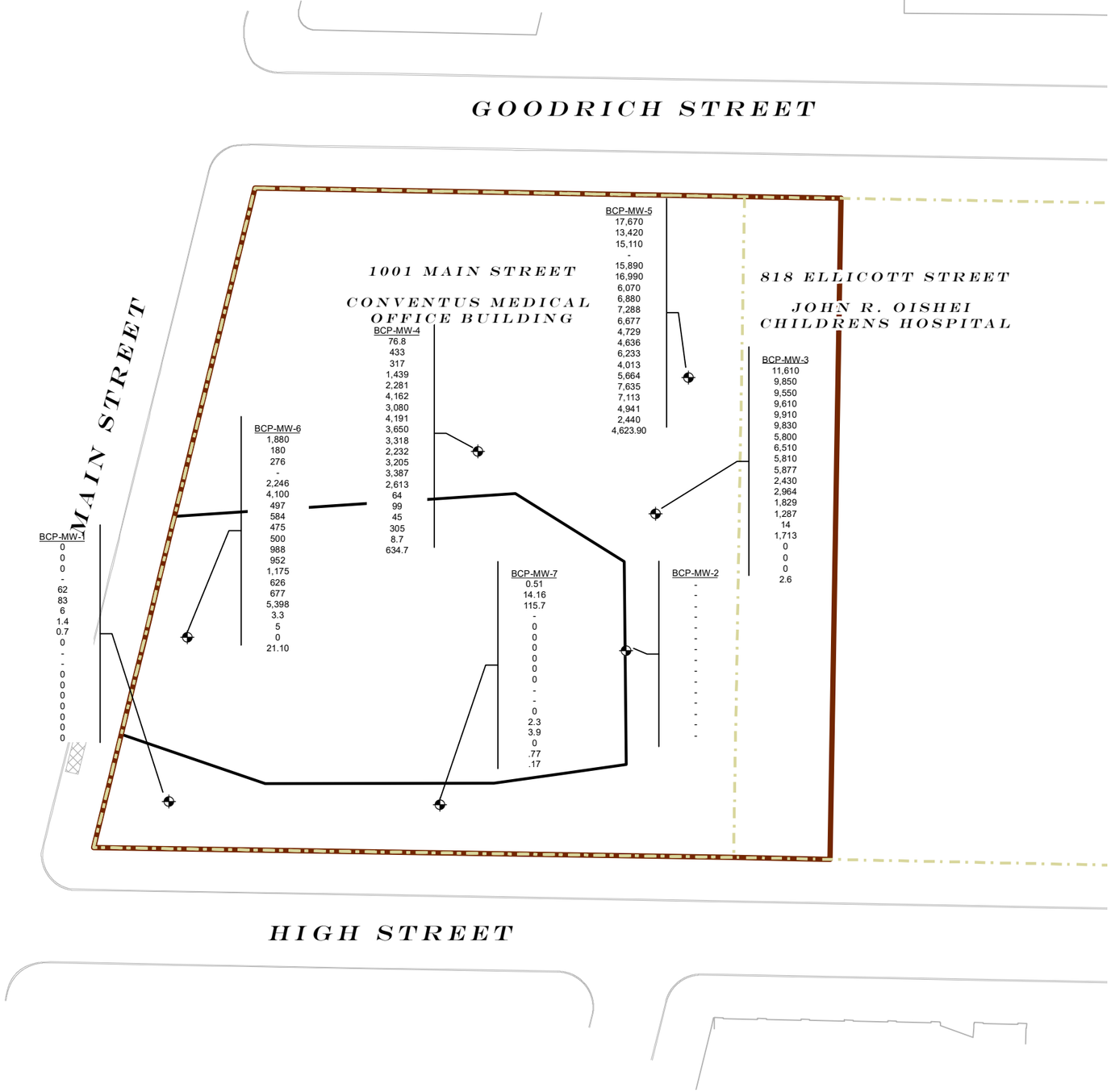

Legend

- Property Lines
- Brownfield Cleanup Program Boundary
- Area of Deep Excavation to -40 ft (below former ground surface)
- Groundwater Monitoring Well Location (Ground Floor of Underground Parking Garage)

Property Note

1) The BCP Project Area ("Site") includes the entire western parcel [1001 Main Street (formerly 979 Main Street)] and extends approximately 40 feet east onto the adjacent eastern parcel (818 Ellicott Street). Total acreage of the BCP Project Site is 1.72 acres.

Label Note

Total concentrations (ug/L) of benzene, toluene, ethlybenzene and xylenes ("BTEX") for each groundwater monitoring event.

BCP-MW-4	
76.8	September 2013
433	March 2014
317	May 2014
1,439	March 2015
2,281	June 2015
4,162	August 2015
3,080	December 2015
4,191	January 2016
3,650	March 2016
3,318	June 2016
2,232	October 2016
3,205	December 2016
3,387	January 2017
2,613	May 2017
64	July 2017
99	November 2017
45	August 2018
305	November 2018
8.7	July 2019
634.7	December 2019

Notes

1) Elevations from New York State Erie County LiDAR Dataset, 2005, NAD 88.

2) Coordinate System: NAD 1983 StatePlane NY West FIPS 3103
Projection: Transverse Mercator
Datum: North American 1983
Units: Foot US

3) Survey data from McIntosh & McIntosh P.C. "Topographical Map of Part of Lot-29, TWP.-11, R.-8, Holland Purchase" Job No. 7669-B(2) September 24, 2008.

0 20 40 80
Feet

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December 2019
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HISTORIC BTEX CONCENTRATIONS

FIGURE 3

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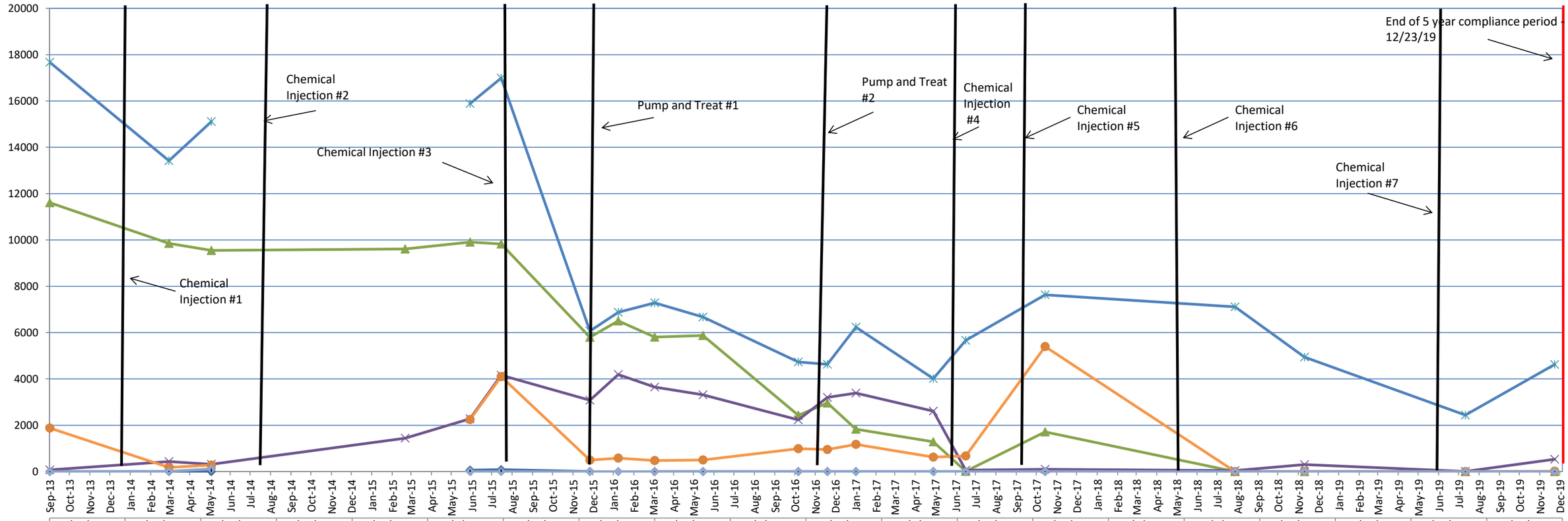
Former Mobil Station 99-MST 979 Main Street (1001 Main Street)
Conventus Groundwater Remediation

Graph 1

GROUNDWATER TREATMENT MONITORING - TOTAL BTEX



	9/20/2013	3/19/2014	5/22/2014	3/11/2015	6/17/2015	8/3/2015	12/15/2015	1/27/2016	3/22/2016	6/3/2016	10/25/2016	12/8/2016	1/20/2017	5/17/2017	7/5/2017	11/2/2017	8/16/2018	11/29/2018	7/30/2019	12/12/2019
BCP MW-1	0	0	0		62	83	6.25		1	1	-	-	-	-	-	-	-	-	0	0
BCP MW-2																				
BCP MW-3	11,610	9,850	9,550	9,610	9,910	9,830	5,800	6,510	5,810	5,877	2,430	2,964	1,829	1,287	14	1,713	-	0	0	2.6
BCP MW-4	76.8	433	317	1,439	2,281	4,162	3,080	4,191	3,650	3,318	2,232	3,205	3,387	2,613	64	99	45	305	8.7	534.7
BCP MW-5	17,670	13,420	15,110		15,890	16,990	6,070	6,880	7,288	6,677	4,729	4,636	6,233	4,013	5,664	7,635	7,113	4,941	2,440	4,623.90
BCP MW-6	1,880	180	276		2,246	4,100	497	584	475	500	988	952	1,175	626	677	5,398	3	5	0	21.1
BCP MW-7	1	14.16	115.7		0	0	0	-	-	-	-	-	-	-	2.3	3.9	1.8	0	0.77	0.17

TABLES

Table 1 - Groundwater Analytical Results
Summary of Detected Compounds
Former Mobil Station 99-MST 979 Main Street (1001 Main Street) Brownfield Cleanup

			Sample Name	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1
			Date Collected	9/20/2013	3/19/2014	5/22/2014	3/11/2015	6/17/2015	8/3/2014	12/15/2015	3/22/2016	6/3/2016	10/25/2016	12/8/2016	1/20/2017	5/17/2017	7/5/2017	11/2/2017	8/16/2018	11/29/2018	7/30/2019	12/12/2019
			Matrix	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG
			Unit	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NYSDEC Ambient Water Quality Standards & Guidance Values																						
Volatile Organic Compound	**Surface Water**	**Groundwater**																				
1,2-DICHLOROBENZENE	3	3		ND	ND	ND			ND		ND										ND	
1,2-DICHLOROETHANE	0.6	0.6		ND	ND	ND			ND		ND										.15 J	
1,2-DICHLOROPROPANE	1	1		ND	ND	ND			ND		ND											
1,3-DICHLOROBENZENE	3	3		ND	ND	ND			ND		ND										ND	
2-HEXANONE	50	50		ND	ND	ND		ND	ND	3.5	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND
ACETONE	50	50		ND	ND	ND		ND	ND	ND	ND	ND	ND			ND	5.1	ND	ND	1.8J	2.4 J	634..17
BENZENE	1	1		ND	ND	ND		**35**	**39**	**5.7**	**1.4**	0.72	ND			ND	ND	0.33	ND	ND	ND	ND
DIBROMOCHLOROMETHANE	50	50		ND	ND	ND			ND		ND		ND				ND	ND	ND	ND	ND	ND
DICHLORODIFLUOROMETHANE	5	5		ND	ND	ND			ND		ND		ND				ND	ND	ND	ND	ND	ND
ETHYLBENZENE	5	5		ND	ND	ND		2	1.5	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND
ISOPROPYLBENZENE (CUMENE)	5	5		ND	ND	ND		1.3	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND
METHYL ETHYL KETONE (2-BUTANONE)	50	50		ND	ND	ND		ND	45	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND
METHYLENE CHLORIDE	5	5		ND	ND	ND		ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND
TOLUENE	5	5		ND	ND	ND		**19**	**38**	0.55	ND	ND	ND			ND	ND	1.1	ND	ND	ND	ND
TRICHLOROETHYLENE (TCE)	5	5		ND	ND	ND		ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND
1,1,2-TRICHLOROETHANE	1	1		ND	ND	ND		ND	ND	ND	0.33 J	ND	ND			ND	ND	ND	ND	ND	ND	ND
XYLENES, TOTAL	5	5		ND	ND	ND		**6.4**	4.2	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND
NAPHTHALENE	10	10		ND	ND	ND		ND	ND	ND	0.33 J	ND	ND			ND	ND	ND	ND	4.3	ND	ND
No Standard																						
CARBON DISULFIDE				ND	ND	0.94		ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND
CYCLOHEXANE				ND	ND	ND		35	59	61	51	72	ND			ND	ND	ND	ND	ND	ND	ND
METHYL ISOBUTYL KETONE				ND	ND	ND		ND	13	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND
METHYLCYCLOHEXANE				ND	ND	0.47		3.2	17	15	11	ND	ND			ND	ND	ND	1.5	.88J	ND	ND
Total VOCs				**0**	**0**	**1.41**	**-**	**101.90**	**216.70**	**85.75**	**63.40**	**72.72**	**0**			**-**	**5.1**	**1.4**	**1.5**	**6.98**	**2.55**	**1.7**
Total BTEX				**0**	**0**	**0**	**-**	**62**	**83**	**6**	**1.4**	**0.7**	**0**			**0.0**	**0**	**0**	**0**	**0**	**0**	**0**
Non-Standard VOC List																						
1,3,5-TRIMETHYLBENZENE	5	5															ND	ND		ND		ND
1,2,4,5-TETRAMETHYLBENZENE	5	5															ND	ND		ND		ND
1,2,4-TRIMETHYLBENZENE	5	5															ND	ND		ND		ND
SEC-BUTYLBENZENE	5	5															ND	ND		ND		ND
N-PROPYLBENZENE	5	5															ND	ND		ND		ND
N-BUTYLBENZENE	5	5															ND	ND		ND		ND
P-ISOPROPYLTOLUENE																	ND	ND		ND		ND
1,4-DIETHYLBENZENE																	ND	ND		ND		ND

Notes:

Not Sampled

1) Blank space = analyte concentration not reported

2) BCP MW-2 was dry and not sampled

3) For the March 11, 2015 monitoring event well MW-1, MW-5, MW-6 and MW-7 were dry or not enough water was inside the well for a representative sample.

4) WG = groundwater

Table 1 - Groundwater Analytical Results
Summary of Detected Compounds
Former Mobil Station 99-MST 979 Main Street (1001 Main Street) Brownfield Cleanup

			Sample Name	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3
			Date Collected	9/20/2013	3/19/2014	5/22/2014	3/11/2015	6/17/2015	8/3/2015	12/15/2015	1/27/2015	3/22/2016	6/3/2016	10/25/2016	12/8/2016	1/20/2017	5/17/2017	7/5/2017	11/2/2017	8/16/2018	11/29/2018	7/30/2019	12/12/2019
			Matrix	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG
			Unit	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NYSDEC Ambient Water Quality Standards & Guidance Values																							
Volatile Organic Compound	**Surface Water**	**Groundwater**																					
1,2-DICHLOROBENZENE	3	3		ND	ND	ND																	
1,2-DICHLOROETHANE	0.6	0.6		ND	ND	ND																	
1,2-DICHLOROPROPANE	1	1		ND	ND	ND																	
1,3-DICHLOROBENZENE	3	3		ND	ND	ND																	
2-HEXANONE	50	50		ND	ND	ND	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8	ND	ND	ND	ND	ND
ACETONE	50	50		ND	**98**	ND	17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**166**	ND	2.3	24.0	**2.1 J**	ND
BENZENE	1	1		**6,600**	**4,500**	**4,700**	**3,700**	**4,300**	**4,100**	**2,100**	**2,200**	**1,900**	**3,100**	**1,390**	**635**	**363**	**451**	**3**	**364**	ND	ND	ND	0.2J
DIBROMOCHLOROMETHANE	50	50		ND	ND	ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND
DICHLORODIFLUOROMETHANE	5	5		ND	ND	ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND
ETHYLBENZENE	5	5		**1,200**	**1,600**	**1,500**	**1,600**	**1,500**	**1,700**	**1,400**	**1,600**	**1,600**	**610**	**194**	**899**	**517**	**197**	2.4	**384**	ND	ND	ND	1.1 J
ISOPROPYLBENZENE (CUMENE)	5	5		ND	**37**	ND	**32**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**8.7**	ND	ND	ND	ND
METHYL ETHYL KETONE (2-BUTANONE)	50	50		ND	**71**	ND	6.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	**201**	**51.4**	**51.4**	ND	ND	ND	ND
METHYLENE CHLORIDE	5	5		ND	ND	ND	ND	ND	ND	ND	ND	ND	**35**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOLUENE	5	5		**110**	**150**	**150**	**110**	**110**	**130**	**100**	**110**	**110**	**67**	**39.4**	**74.5**	**38.4**	**22.6**	1.6	**34.8**	ND	ND	ND	ND
TRICHLOROETHYLENE (TCE)	5	5		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
1,1,2-TRICHLOROETHANE	1	1		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
XYLENES, TOTAL	5	5		**3,700**	**3,600**	**3,200**	**4200**	**4000**	**3900**	**2200**	**2600**	**2200**	**2100**	**806.3**	**1430**	**949**	**639**	**7.1**	**930.0**	ND	ND	ND	1.3 J
NAPHTHALENE	10	10		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**14**	**357**	ND	ND	ND	ND
No Standard																							
CARBON DISULFIDE				ND	ND	ND	0.31	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CYCLOHEXANE				120	320	270	390	330	210	100	93	110	170	ND	ND	ND	ND	ND	60.5	ND	ND	ND	ND
METHYL ISOBUTYL KETONE				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
METHYLCYCLOHEXANE				ND	130	150	120	160	96	34	33	36 J	170	47.7	ND	ND	29.5	ND	33.4	ND	ND	ND	ND
Total VOCs				**11,730**	**10,506**	**9,970**	**10,179**	**10,400**	**10,136**	**5,934**	**6,636**	**5,920**	**6,252**	**2,477**	**3,038**	**1,867**	**1,540**	**254**	**2,224**	**2.3**	**24.0**	**2.1**	**2.6**
Total BTEX				**11,610**	**9,850**	**9,550**	**9,610**	**9,910**	**9,830**	**5,800**	**6,510**	**5,810**	**5,877**	**2,430**	**3,038**	**1,867**	**1,310**	**14**	**1,713**	**-**	**-**	**-**	**2.6**
Non-Standard VOC List																							
1,3,5-TRIMETHYLBENZENE	5	5																ND	**133**	**133**	ND	ND	ND
1,2,4,5-TETRAMETHYLBENZENE	5	5																ND	ND	ND	ND	ND	ND
1,2,4-TRIMETHYLBENZENE	5	5																4.9	**737**	**737**	ND	ND	1.2 J
SEC-BUTYLBENZENE	5	5																ND	ND	ND	ND	ND	ND
N-PROPYLBENZENE	5	5																ND	ND	ND	ND	ND	ND
N-BUTYLBENZENE	5	5																ND	ND	ND	ND	ND	ND
P-ISOPROPYLTOLUENE																		ND	ND	ND	ND	ND	ND
1,4-DIETHYLBENZENE																		ND	ND	ND	ND	ND	ND

Notes:

Not Sampled

1) Blank space = analyte concentration not reported

2) BCP MW-2 was dry and not sampled

3) For the March 11, 2015 monitoring event well MW-1, MW-5, MW-6 and MW-7 were dry or not enough water was inside the well for a representative sample.

4) WG = groundwater

Table 1 - Groundwater Analytical Results
Summary of Detected Compounds
Former Mobil Station 99-MST 979 Main Street (1001 Main Street) Brownfield Cleanup

		Sample Name	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4
		Date Collected	9/20/2013	3/19/2014	5/22/2014	3/11/2015	6/17/2015	8/3/2015	12/15/2015	1/27/2016	3/22/2016	6/3/2016	10/25/2016	12/8/2016	1/20/2017	5/17/2017	7/5/2017	11/17/2017	8/16/2018	11/29/2018	7/30/2019	12/12/2019
		Matrix	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG
		Unit	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NYSDEC Ambient Water Quality Standards & Guidance Values																						
Volatile Organic Compound	**Surface Water**	**Groundwater**																				
1,2-DICHLOROBENZENE	3	3	ND	ND	ND																	
1,2-DICHLOROETHANE	0.6	0.6	ND	ND	ND																	
1,2-DICHLOROPROPANE	1	1	ND	ND	ND																	1.0 J
1,3-DICHLOROBENZENE	3	3	ND	ND	ND																	
2-HEXANONE	50	50	ND	ND	ND	1.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ACETONE	50	50	10	**250**	**170**	**67**	ND	**210**	ND	ND	ND	ND	ND	ND	ND	ND	38.2	10	1.6	ND	ND	ND
BENZENE	1	1	**42**	**29**	**15**	**26**	**24**	**242**	ND	**21**	ND	**21**	**9.57**	**12.8**	**10.2**	**10.8**	**1.3**	**97.0**	**45.0**	**36.0**	**6.7**	6.4
DIBROMOCHLOROMETHANE	50	50	ND	ND	ND																	ND
DICHLORODIFLUOROMETHANE	5	5	ND	ND	ND																	ND
ETHYLBENZENE	5	5	4.7	**34**	**32**	**560**	**1,000**	**680**	**1,100**	**1300**	**1,400**	**1400**	**1,000**	**1170**	**1,300**	**1220**	**28**	**1.8**	ND	**170**	**2.0 J**	460
ISOPROPYLBENZENE (CUMENE)	5	5	ND	ND	ND	**9.8**	**15.0**	**26**	ND	ND	ND	ND	**19**	**30.3**	**28.7**	ND	2.3	ND	ND	**8.3**	**1.3 J**	19
METHYL ETHYL KETONE (2-BUTANONE)	50	50	ND	ND	ND	ND	8.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.9	ND	ND	ND	ND	ND
METHYLENE CHLORIDE	5	5	ND	ND	1 J	ND	ND	ND	ND	**52**	ND	**42**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOLUENE	5	5	1.1	**190**	**110**	**53**	**57**	**140**	**180**	**270**	**150**	**97**	**62.4**	**130**	**133**	**92.2**	**9.8**	ND	ND	**15**	ND	11
TRICHLOROETHYLENE (TCE)	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				ND
1,1,2-TRICHLOROETHANE	1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
XYLENES, TOTAL	5	5	**29**	**180**	**160**	**800**	**1,200**	**3100**	**1,800**	**2600**	**2,100**	**1800**	**1,160**	**1892**	**1,944**	**1289.7**	**24.5**	ND	ND	**83.6**	ND	157.3
NAPHTHALENE	10	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.9	ND	ND	**36**	ND	99
No Standard																						
CARBON DISULFIDE			ND	ND	1.9 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CYCLOHEXANE			8.2	11	7	170	170	110	160	220	250	340	189	259	276	235	276	5.5	ND	24	**.41 J**	60
METHYL ISOBUTYL KETONE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
METHYLCYCLOHEXANE			7.5	3.7	3.1	87	92	69	86	100	110	140	85.1	110	123	99.7	123	2.4	0.47	8.9	ND	8
Total VOCs			**102.5**	**697.7**	**497.1**	**1,774.5**	**2,566.5**	**4,577.0**	**3,326.0**	**4,563.0**	**4,010.0**	**3,840.0**	**2,525.5**	**3,604.1**	**3,814.9**	**2,947.4**	**511.9**	**116.7**	**47.1**	**381.8**	**10.4**	**821.7**
Total BTEX			**76.8**	**433**	**317**	**1,439**	**2,281**	**4,162**	**3,080**	**4,191**	**3,650**	**3,318**	**2,232**	**3,205**	**3,387**	**2,613**	**64**	**99**	**45**	**304.6**	**8.7**	**634.7**
Non-Standard VOC List																						
1,3,5-TRIMETHYLBENZENE	5	5															2	ND	ND	1.4 J	ND	ND
1,2,4,5-TETRAMETHYLBENZENE	5	5															1.1	ND	ND	ND	ND	ND
1,2,4-TRIMETHYLBENZENE	5	5															1.1	ND	ND	**150**	ND	470
SEC-BUTYLBENZENE	5	5															ND	ND	ND	1.5 J	ND	2.9 J
N-PROPYLBENZENE	5	5															2.3	ND	ND	**37**	ND	86
N-BUTYLBENZENE	5	5															1.7	ND	ND	2.2 J	ND	4.1 J
P-ISOPROPYLTOLUENE																	ND	ND	ND	ND	ND	ND
1,4-DIETHYLBENZENE																	ND	ND	ND	ND	ND	ND

Notes:

Not Sampled

1) Blank space = analyte concentration not reported

2) BCP MW-2 was dry and not sampled

3) For the March 11, 2015 monitoring event well MW-1, MW-5, MW-6 and MW-7 were dry or not enough water was inside the well for a representative sample.

4) WG = groundwater

Table 1 - Groundwater Analytical Results
Summary of Detected Compounds
Former Mobil Station 99-MST 979 Main Street (1001 Main Street) Brownfield Cleanup

			Sample Name	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5
			Date Collected	9/20/2013	3/19/2014	5/22/2014	3/11/2015	6/17/2015	8/3/2015	12/15/2015	1/27/2016	3/22/2016	6/3/2016	10/25/2016	12/8/2016	1/20/2017	5/17/2017	7/5/2017	11/2/2017	8/16/2018	11/29/2018	7/30/2019	12/12/2019
			Matrix	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG
			Unit	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NYSDEC Ambient Water Quality Standards & Guidance Values																						
Volatile Organic Compound	**Surface Water**	**Groundwater**																				
1,2-DICHLOROBENZENE	3	3		ND	ND	ND																ND
1,2-DICHLOROETHANE	0.6	0.6		ND	ND	ND																ND
1,2-DICHLOROPROPANE	1	1		ND	ND	ND																ND
1,3-DICHLOROBENZENE	3	3		ND	ND	ND																ND
2-HEXANONE	50	50		11	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		**2.7 J**	ND
ACETONE	50	50		ND	**520**	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.3	ND	41	**69 J**	**44**	97 J
BENZENE	1	1		**5,600**	**4,800**	**4,900**		**3,700**	**4,100**	**1,800**	**1,800**	**1,700**	**1,600**	**899**	**949**	**682**	**428**	**574**	**283**	**86**	**26**	**3.3**	8.9 J
DIBROMOCHLOROMETHANE	50	50		ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND
DICHLORODIFLUOROMETHANE	5	5		ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND
ETHYLBENZENE	5	5		**1,900**	**1,600**	**1,600**		**2,800**	**2,600**	**1,600**	**1,900**	**2,200**	**2,200**	**1,490**	**1,450**	**2,070**	**584**	**534**	**1,660**	**1,500**	**810**	**520 E**	1200
ISOPROPYLBENZENE (CUMENE)	5	5		**28**	**29**	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**13.6**	ND	**20**	**16 J**	**23**	24 J
METHYL ETHYL KETONE (2-BUTANONE)	50	50		10	**350**	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.1	ND	ND		ND	ND
METHYLENE CHLORIDE	5	5		ND	ND	ND		ND	ND	ND	ND	**77**	**96**	ND	ND	ND	ND	ND	ND	ND		ND	ND
TOLUENE	5	5		**170**	**220**	**310**		**290**	**290**	**70**	**80**	**88**	**77**	**68.5**	**84.9**	**86.6**	ND	**36.2**	**82.0**	**66.0**	**39 J**	**38.0**	42 J
TRICHLOROETHYLENE (TCE)	5	5		ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		**.22 J**	ND
1,1,2-TRICHLOROETHANE	1	1		ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND
XYLENES, TOTAL	5	5		**10,000**	**6,800**	**8,300**		**9,100**	**10,000**	**2,600**	**3,100**	**3,300**	**2,800**	**2,271.3**	**2,152.2**	**3,394.7**	**3,000.7**	**4,520.0**	**5,610.0**	**5,461.0**	**4,066.0**	**1879 E**	3373
NAPHTHALENE	10	10		ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**730**	**1,030**	**620**	**1,100**		1100
No Standard																							
CARBON DISULFIDE				ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.1	ND	ND		**1.2 J**	ND
CYCLOHEXANE				230	340	240		430	260	230	250	280	430	198	148	257	ND	257	238	150	130 J	**140**	220
METHYL ISOBUTYL KETONE				23	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		**3.0 J**	ND
METHYLCYCLOHEXANE				100	170	150		190	130	92	100	100	140	67.5	58.4	92.8	49	92.8	106	70	82 J	**65**	96
Total VOCs				**18,072**	**14,829**	**15,500**	**-**	**16,510**	**17,380**	**6,392**	**7,230**	**7,745**	**7,343**	**4,994**	**4,843**	**6,583**	**4,062**	**6,780**	**9,009**	**8,014**	**6,338**	**2,718.72**	**6,160.9**
Total BTEX				**17,670**	**13,420**	**15,110**	**-**	**15,890**	**16,990**	**6,070**	**6,880**	**7,288**	**6,677**	**4,729**	**4,636**	**6,233**	**4,013**	**5,664**	**7,635**	**7,113**	**4,941**	**2,440.30**	**4,623.90**
Non-Standard VOC List																							
1,3,5-TRIMETHYLBENZENE	5	5																**823**	ND	ND	**630**	ND	480
1,2,4,5-TETRAMETHYLBENZENE	5	5																**135**	ND	ND		ND	ND
1,2,4-TRIMETHYLBENZENE	5	5																**2,280**	**2,490**	**2,400**	**2,300**	ND	2200
SEC-BUTYLBENZENE	5	5																3.2	ND	ND		ND	ND
N-PROPYLBENZENE	5	5																**34.8**	ND	110	**69**	ND	110
N-BUTYLBENZENE	5	5																**43.3**	ND	ND		ND	4.1 J
P-ISOPROPYLTOLUENE																		5.7	ND	ND		ND	ND
1,4-DIETHYLBENZENE																		347	ND	ND		ND	ND

Notes:

Not Sampled

1) Blank space = analyte concentration not reported

2) BCP MW-2 was dry and not sampled

3) For the March 11, 2015 monitoring event well MW-1, MW-5, MW-6 and MW-7 were dry or not enough water was inside the well for a representative sample.

4) WG = groundwater

Table 1 - Groundwater Analytical Results
Summary of Detected Compounds
Former Mobil Station 99-MST 979 Main Street (1001 Main Street) Brownfield Cleanup

		Sample Name	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6
		Date Collected	9/20/2013	3/19/2014	5/22/2014	3/11/2015	6/17/2015	8/3/2015	12/14/2015	1/27/2016	3/22/2016	6/3/2016	10/25/2016	12/8/2016	1/20/2017	5/17/2017	7/5/2017	11/2/2017	8/16/2018	11/29/2018	7/30/2019	12/12/2019
		Matrix	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG
		Unit	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NYSDEC Ambient Water Quality Standards & Guidance Values																						
Volatile Organic Compound	**Surface Water**	**Groundwater**																				
1,2-DICHLOROBENZENE	3	3	ND	ND	ND																ND	ND
1,2-DICHLOROETHANE	0.6	0.6	ND	ND	ND																ND	ND
1,2-DICHLOROPROPANE	1	1	ND	ND	ND																ND	.20 J
1,3-DICHLOROBENZENE	3	3	ND	ND	ND																ND	ND
2-HEXANONE	50	50	ND	ND	ND		190	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ACETONE	50	50	ND	ND	ND		480	340	ND	ND	ND	ND	ND	ND	ND	ND	**102**	ND	17	4.5 J	ND	6.4
BENZENE	1	1	**190**	**33**	**16**		**470**	**890**	**250**	**230**	**200**	**120**	**302**	**168**	**200**	**113**	**131**	**774**	ND	0.82	ND	4
DIBROMOCHLOROMETHANE	50	50	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DICHLORODIFLUOROMETHANE	5	5	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ETHYLBENZENE	5	5	**130**	**20**	**31**		**36**	**210**	**22**	**44**	**67**	**50**	**163**	**169**	**173**	**175**	**85.5**	**154.0**	**3.3**	1.7 J	ND	2.4 J
ISOPROPYLBENZENE (CUMENE)	5	5	4.4	ND	1.9 J			ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5	ND	1.3	ND	ND	.90 J
METHYL ETHYL KETONE (2-BUTANONE)	50	50	ND	ND	ND		110	ND	ND	ND	ND	ND	ND	ND	ND	ND	**19.6**	ND	ND	ND	ND	ND
METHYLENE CHLORIDE	5	5	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOLUENE	5	5	**810**	**42**	**79**		**1,000**	**1,900**	**85**	**120**	**78**	**120**	**130**	**255**	**351**	**147**	**22.5**	**2,970.0**	ND	ND	ND	6.7
TRICHLOROETHYLENE (TCE)	5	5	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND
1,1,2-TRICHLOROETHANE	1	1	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
XYLENES, TOTAL	5	5	**750**	**85**	**150**		**740**	**1,100**	**140**	**190**	**130**	**210**	**393**	**360**	**451**	**190.7**	**438**	**1,500**	ND	2 J	ND	8
NAPHTHALENE	10	10	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**86.6**	ND	1	.8 J	ND	4.8
No Standard																						
CARBON DISULFIDE			ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CYCLOHEXANE			68	ND	130		270	41	62	110	110	91	81.5	ND	ND	ND	ND	84	7.4	3.7 J	**.60 J**	6.6 J
METHYL ISOBUTYL KETONE			ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
METHYLCYCLOHEXANE			46	16	18		170	27	24	21	10	24	32.2	30.2	36.9	35.3	36.9	44	4.3	3.8 J	ND	4.5 J
Total VOCs			**1,998.4**	**196**	**424**	**-**	**3,466**	**4,508**	**583**	**715**	**595**	**615**	**1,101**	**983**	**1,212**	**661**	**925**	**5,526**	**35**	**17.32**	**0.6**	**44.5**
Total BTEX			**1,880**	**180**	**276**	**-**	**2,246**	**4,100**	**497**	**584**	**475**	**500**	**988**	**952**	**1,175**	**626**	**677**	**5,398**	**3**	**4.52**	**-**	**21.10**
Non-Standard VOC List																						
1,3,5-TRIMETHYLBENZENE	5	5															**74.3**	ND	ND	5.1	ND	1.4 J
1,2,4,5-TETRAMETHYLBENZENE	5	5															**14.3**	ND	ND	ND	ND	ND
1,2,4-TRIMETHYLBENZENE	5	5															**134**	ND	ND	ND	ND	2.2 J
SEC-BUTYLBENZENE	5	5																		ND	ND	0.88 J
N-PROPYLBENZENE	5	5															**11.3**	ND	4.7	1.7 J	ND	1.3 J
N-BUTYLBENZENE	5	5															4.6	ND	0.72	ND	ND	4.1 J
P-ISOPROPYLTOLUENE																	1.6	1.6	1.6	ND	ND	ND
1,4-DIETHYLBENZENE																	32.9	32.9	32.9	ND	ND	ND

Notes:

Not Sampled

1) Blank space = analyte concentration not reported

2) BCP MW-2 was dry and not sampled

3) For the March 11, 2015 monitoring event well MW-1, MW-5, MW-6 and MW-7 were dry or not enough water was inside the well for a representative sample.

4) WG = groundwater

Table 1 - Groundwater Analytical Results
Summary of Detected Compounds
Former Mobil Station 99-MST 979 Main Street (1001 Main Street) Brownfield Cleanup

			Sample Name	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7
			Date Collected	9/20/2013	3/19/2014	5/22/2014	3/11/2015	6/17/2015	8/3/2015	12/15/2015	3/22/2016	6/3/2016	10/25/2016	12/8/2016	1/20/2017	5/17/2017	7/5/2017	11/2/2017	8/16/2018	11/29/2018	7/30/2019	12/12/2019
			Matrix	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG
			Unit	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NYSDEC Ambient Water Quality Standards & Guidance Values																						
Volatile Organic Compound	**Surface Water**	**Groundwater**																				
1,2-DICHLOROBENZENE	3	3		ND	ND	ND															ND	ND
1,2-DICHLOROETHANE	0.6	0.6		ND	ND	ND															ND	ND
1,2-DICHLOROPROPANE	1	1		ND	ND	ND															ND	ND
1,3-DICHLOROBENZENE	3	3		ND	ND	ND															ND	ND
2-HEXANONE	50	50		ND	ND	4.8		ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND
ACETONE	50	50		ND	3	ND		ND	ND	ND	ND	ND	ND			ND	ND	ND	1.5	ND	**4.2 J**	ND
BENZENE	1	1		0.51	**8.8**	**14**		ND	ND	ND	ND	ND	ND			ND	**2.3**	**2.81**	**1.8**	.18 J	**.77**	.17 J
DIBROMOCHLOROMETHANE	50	50		ND	ND	ND		ND		ND		ND				ND		ND			ND	ND
DICHLORODIFLUOROMETHANE	5	5		ND	ND	ND		ND		ND		ND				ND		ND			ND	ND
ETHYLBENZENE	5	5		ND	ND	3		ND	ND	ND	ND	ND	ND			ND	ND	0	ND	ND	ND	ND
ISOPROPYLBENZENE (CUMENE)	5	5		ND	ND	ND		ND	ND	ND	ND	ND	ND			ND	ND	0.45	ND	ND	ND	ND
METHYL ETHYL KETONE (2-BUTANONE)	50	50		ND	ND	ND		ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND
METHYLENE CHLORIDE	5	5		ND	ND	ND		ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND
TOLUENE	5	5		ND	0.56	4.7		ND	ND	ND	ND	ND	ND			ND	ND	1.1	ND	ND	ND	ND
TRICHLOROETHYLENE (TCE)	5	5		ND	ND	ND		ND		ND		ND				ND		ND			ND	ND
1,1,2-TRICHLOROETHANE	1	1																			ND	ND
XYLENES, TOTAL	5	5		0.96	4.8	**94**		ND	ND	ND	0.99 J	ND	ND			ND	ND	ND	ND	ND	ND	ND
NAPHTHALENE	10	10																	1.50	.86 J	ND	ND
No Standard																						
CARBON DISULFIDE				ND	ND	0.97		ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND
CYCLOHEXANE				ND	4.3	9.6		ND	ND	0.71	ND	ND	ND			ND	ND	0.99	0.66	ND	ND	ND
METHYL ISOBUTYL KETONE				ND	ND	ND		ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND
METHYLCYCLOHEXANE				ND	1.7	5.1		0.18	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND
Total VOCs				**1.47**	**23.16**	**136.17**	**-**	**0.18**	**-**	**0.71**	**-**	**-**	**-**	**-**	**-**	**-**	**2.30**	**5.35**	**3.66**	**1.04**	**4.97**	**0.17**
Total BTEX				**0.51**	**14.16**	**115.7**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**2.3**	**3.9**	**1.8**	**0.18**	**0.77**	**0.17**
Non-Standard VOC List																						
1,3,5-TRIMETHYLBENZENE	5	5														ND	ND	3.2		3.2	ND	
1,2,4,5-TETRAMETHYLBENZENE	5	5														ND	ND	ND	ND	ND	ND	
1,2,4-TRIMETHYLBENZENE	5	5														ND	ND	ND	ND	ND	ND	
SEC-BUTYLBENZENE	5	5																			ND	
N-PROPYLBENZENE	5	5																			ND	
N-BUTYLBENZENE	5	5																			ND	
P-ISOPROPYLTOLUENE																					ND	
1,4-DIETHYLBENZENE																					ND	

Notes:

Not Sampled

1) Blank space = analyte concentration not reported

2) BCP MW-2 was dry and not sampled

3) For the March 11, 2015 monitoring event well MW-1, MW-5, MW-6 and MW-7 were dry or not enough water was inside the well for a representative sample.

4) WG = groundwater

APPENDICES

APPENDIX A
LABORATORY ANALYTICAL RESULTS

ANALYTICAL REPORT

Lab Number:	L1958113
Client:	C&S Companies 141 Elm Street, Suite 100 Buffalo, NY 14203
ATTN:	Cody Martin
Phone:	(716) 847-1630
Project Name:	CONVENTUS
Project Number:	K11.002.001
Report Date:	12/12/19

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: CONVENTUS
Project Number: K11.002.001

Lab Number: L1958113
Report Date: 12/12/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1958113-01	TRIP BLANK	WATER	1001 MAIN ST.	12/03/19 00:00	12/05/19
L1958113-02	MS-MW01120319	WATER	1001 MAIN ST.	12/03/19 11:18	12/05/19
L1958113-03	MS-MW02120319	WATER	1001 MAIN ST.	12/03/19 12:02	12/05/19
L1958113-04	MS-MW03120319	WATER	1001 MAIN ST.	12/03/19 12:42	12/05/19
L1958113-05	MS-MW04120319	WATER	1001 MAIN ST.	12/03/19 13:31	12/05/19
L1958113-06	BCP-MW01120419	WATER	1001 MAIN ST.	12/04/19 11:28	12/05/19
L1958113-07	BCP-MW07120419	WATER	1001 MAIN ST.	12/04/19 11:56	12/05/19
L1958113-08	BCP-MW04120419	WATER	1001 MAIN ST.	12/04/19 12:25	12/05/19
L1958113-09	BCP-MW03120419	WATER	1001 MAIN ST.	12/04/19 12:55	12/05/19
L1958113-10	BCP-MW06120419	WATER	1001 MAIN ST.	12/04/19 13:45	12/05/19
L1958113-11	BCP-MW05120419	WATER	1001 MAIN ST.	12/04/19 12:15	12/05/19

Project Name:	CONVENTUS	**Lab Number:**	L1958113
Project Number:	K11.002.001	**Report Date:**	12/12/19

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	CONVENTUS	**Lab Number:**	L1958113
Project Number:	K11.002.001	**Report Date:**	12/12/19

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Tiffani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative Date: 12/12/19

ORGANICS

VOLATILES

Project Name: CONVENTUS
Project Number: K11.002.001

Lab Number: L1958113
Report Date: 12/12/19

SAMPLE RESULTS

Lab ID: L1958113-01
Client ID: TRIP BLANK
Sample Location: 1001 MAIN ST.

Date Collected: 12/03/19 00:00
Date Received: 12/05/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/11/19 13:39
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: CONVENTUS **Lab Number:** L1958113

Project Number: K11.002.001 **Report Date:** 12/12/19

SAMPLE RESULTS

Lab ID: L1958113-01 Date Collected: 12/03/19 00:00

Client ID: TRIP BLANK Date Received: 12/05/19

Sample Location: 1001 MAIN ST. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.5	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	94		70-130

Project Name: CONVENTUS
Project Number: K11.002.001
Lab Number: L1958113
Report Date: 12/12/19

SAMPLE RESULTS

Lab ID: L1958113-02
Client ID: MS-MW01120319
Sample Location: 1001 MAIN ST.
Date Collected: 12/03/19 11:18
Date Received: 12/05/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/11/19 14:04
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: CONVENTUS **Lab Number:** L1958113

Project Number: K11.002.001 **Report Date:** 12/12/19

SAMPLE RESULTS

Lab ID: L1958113-02 Date Collected: 12/03/19 11:18

Client ID: MS-MW01120319 Date Received: 12/05/19

Sample Location: 1001 MAIN ST. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	1.5	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	96		70-130

Project Name: CONVENTUS
Project Number: K11.002.001
Lab Number: L1958113
Report Date: 12/12/19

SAMPLE RESULTS

Lab ID: L1958113-03 D
Client ID: MS-MW02120319
Sample Location: 1001 MAIN ST.

Date Collected: 12/03/19 12:02
Date Received: 12/05/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/12/19 14:05
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	12	3.5	5
1,1-Dichloroethane	ND		ug/l	12	3.5	5
Chloroform	ND		ug/l	12	3.5	5
Carbon tetrachloride	ND		ug/l	2.5	0.67	5
1,2-Dichloropropane	2.3	J	ug/l	5.0	0.68	5
Dibromochloromethane	ND		ug/l	2.5	0.74	5
1,1,2-Trichloroethane	ND		ug/l	7.5	2.5	5
Tetrachloroethene	ND		ug/l	2.5	0.90	5
Chlorobenzene	ND		ug/l	12	3.5	5
Trichlorofluoromethane	ND		ug/l	12	3.5	5
1,2-Dichloroethane	ND		ug/l	2.5	0.66	5
1,1,1-Trichloroethane	ND		ug/l	12	3.5	5
Bromodichloromethane	ND		ug/l	2.5	0.96	5
trans-1,3-Dichloropropene	ND		ug/l	2.5	0.82	5
cis-1,3-Dichloropropene	ND		ug/l	2.5	0.72	5
Bromoform	ND		ug/l	10	3.2	5
1,1,2,2-Tetrachloroethane	ND		ug/l	2.5	0.84	5
Benzene	79		ug/l	2.5	0.80	5
Toluene	390		ug/l	12	3.5	5
Ethylbenzene	23		ug/l	12	3.5	5
Chloromethane	ND		ug/l	12	3.5	5
Bromomethane	ND		ug/l	12	3.5	5
Vinyl chloride	ND		ug/l	5.0	0.36	5
Chloroethane	ND		ug/l	12	3.5	5
1,1-Dichloroethene	ND		ug/l	2.5	0.84	5
trans-1,2-Dichloroethene	ND		ug/l	12	3.5	5
Trichloroethene	ND		ug/l	2.5	0.88	5
1,2-Dichlorobenzene	ND		ug/l	12	3.5	5

Project Name: CONVENTUS **Lab Number:** L1958113

Project Number: K11.002.001 **Report Date:** 12/12/19

SAMPLE RESULTS

Lab ID: L1958113-03 D
Client ID: MS-MW02120319
Sample Location: 1001 MAIN ST.

Date Collected: 12/03/19 12:02
Date Received: 12/05/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	12	3.5	5
1,4-Dichlorobenzene	ND		ug/l	12	3.5	5
Methyl tert butyl ether	ND		ug/l	12	3.5	5
p/m-Xylene	1400		ug/l	12	3.5	5
o-Xylene	1700		ug/l	12	3.5	5
cis-1,2-Dichloroethene	ND		ug/l	12	3.5	5
Styrene	ND		ug/l	12	3.5	5
Dichlorodifluoromethane	ND		ug/l	25	5.0	5
Acetone	53		ug/l	25	7.3	5
Carbon disulfide	ND		ug/l	25	5.0	5
2-Butanone	ND		ug/l	25	9.7	5
4-Methyl-2-pentanone	22	J	ug/l	25	5.0	5
2-Hexanone	ND		ug/l	25	5.0	5
1,2-Dibromoethane	ND		ug/l	10	3.2	5
n-Butylbenzene	ND		ug/l	12	3.5	5
sec-Butylbenzene	ND		ug/l	12	3.5	5
tert-Butylbenzene	ND		ug/l	12	3.5	5
1,2-Dibromo-3-chloropropane	ND		ug/l	12	3.5	5
Isopropylbenzene	9.8	J	ug/l	12	3.5	5
p-Isopropyltoluene	3.7	J	ug/l	12	3.5	5
Naphthalene	380		ug/l	12	3.5	5
n-Propylbenzene	11	J	ug/l	12	3.5	5
1,2,4-Trichlorobenzene	ND		ug/l	12	3.5	5
1,3,5-Trimethylbenzene	560		ug/l	12	3.5	5
1,2,4-Trimethylbenzene	620		ug/l	12	3.5	5
Methyl Acetate	ND		ug/l	10	1.2	5
Cyclohexane	120		ug/l	50	1.4	5
Freon-113	ND		ug/l	12	3.5	5
Methyl cyclohexane	83		ug/l	50	2.0	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	87		70-130

Project Name: CONVENTUS
Project Number: K11.002.001
Lab Number: L1958113
Report Date: 12/12/19

SAMPLE RESULTS

Lab ID: L1958113-04
Client ID: MS-MW03120319
Sample Location: 1001 MAIN ST.
Date Collected: 12/03/19 12:42
Date Received: 12/05/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/11/19 16:11
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	1.1	J	ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	0.36	J	ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	0.32	J	ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	2.8		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: CONVENTUS **Lab Number:** L1958113

Project Number: K11.002.001 **Report Date:** 12/12/19

SAMPLE RESULTS

Lab ID: L1958113-04 Date Collected: 12/03/19 12:42

Client ID: MS-MW03120319 Date Received: 12/05/19

Sample Location: 1001 MAIN ST. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	8.8		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	24		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	4.0		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	6.1		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	3.0	J	ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	0.76	J	ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	95		70-130

Project Name: CONVENTUS
Project Number: K11.002.001
Lab Number: L1958113
Report Date: 12/12/19

SAMPLE RESULTS

Lab ID: L1958113-05
Client ID: MS-MW04120319
Sample Location: 1001 MAIN ST.
Date Collected: 12/03/19 13:31
Date Received: 12/05/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/11/19 16:36
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	0.20	J	ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	0.29	J	ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.47	J	ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	1.2	J	ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: CONVENTUS **Lab Number:** L1958113

Project Number: K11.002.001 **Report Date:** 12/12/19

SAMPLE RESULTS

Lab ID: L1958113-05 Date Collected: 12/03/19 13:31

Client ID: MS-MW04120319 Date Received: 12/05/19

Sample Location: 1001 MAIN ST. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	0.93	J	ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	3.7	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	1.4	J	ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	3.6	J	ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	0.59	J	ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	94		70-130

Project Name: CONVENTUS
Project Number: K11.002.001
Lab Number: L1958113
Report Date: 12/12/19

SAMPLE RESULTS

Lab ID: L1958113-06
Client ID: BCP-MW01120419
Sample Location: 1001 MAIN ST.
Date Collected: 12/04/19 11:28
Date Received: 12/05/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/11/19 17:01
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: CONVENTUS **Lab Number:** L1958113

Project Number: K11.002.001 **Report Date:** 12/12/19

SAMPLE RESULTS

Lab ID: L1958113-06 Date Collected: 12/04/19 11:28

Client ID: BCP-MW01120419 Date Received: 12/05/19

Sample Location: 1001 MAIN ST. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	1.7	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	118		70-130
Dibromofluoromethane	93		70-130

Project Name: CONVENTUS
Project Number: K11.002.001
Lab Number: L1958113
Report Date: 12/12/19

SAMPLE RESULTS

Lab ID: L1958113-07
Client ID: BCP-MW07120419
Sample Location: 1001 MAIN ST.
Date Collected: 12/04/19 11:56
Date Received: 12/05/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/11/19 17:26
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.17	J	ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: CONVENTUS **Lab Number:** L1958113

Project Number: K11.002.001 **Report Date:** 12/12/19

SAMPLE RESULTS

Lab ID: L1958113-07 Date Collected: 12/04/19 11:56

Client ID: BCP-MW07120419 Date Received: 12/05/19

Sample Location: 1001 MAIN ST. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	94		70-130

Project Name: CONVENTUS
Project Number: K11.002.001
Lab Number: L1958113
Report Date: 12/12/19

SAMPLE RESULTS

Lab ID: L1958113-08 D
Client ID: BCP-MW04120419
Sample Location: 1001 MAIN ST.
Date Collected: 12/04/19 12:25
Date Received: 12/05/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/11/19 14:54
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	10	2.8	4
1,1-Dichloroethane	ND		ug/l	10	2.8	4
Chloroform	ND		ug/l	10	2.8	4
Carbon tetrachloride	ND		ug/l	2.0	0.54	4
1,2-Dichloropropane	1.0	J	ug/l	4.0	0.55	4
Dibromochloromethane	ND		ug/l	2.0	0.60	4
1,1,2-Trichloroethane	ND		ug/l	6.0	2.0	4
Tetrachloroethene	ND		ug/l	2.0	0.72	4
Chlorobenzene	ND		ug/l	10	2.8	4
Trichlorofluoromethane	ND		ug/l	10	2.8	4
1,2-Dichloroethane	ND		ug/l	2.0	0.53	4
1,1,1-Trichloroethane	ND		ug/l	10	2.8	4
Bromodichloromethane	ND		ug/l	2.0	0.77	4
trans-1,3-Dichloropropene	ND		ug/l	2.0	0.66	4
cis-1,3-Dichloropropene	ND		ug/l	2.0	0.58	4
Bromoform	ND		ug/l	8.0	2.6	4
1,1,2,2-Tetrachloroethane	ND		ug/l	2.0	0.67	4
Benzene	6.4		ug/l	2.0	0.64	4
Toluene	11		ug/l	10	2.8	4
Ethylbenzene	460		ug/l	10	2.8	4
Chloromethane	ND		ug/l	10	2.8	4
Bromomethane	ND		ug/l	10	2.8	4
Vinyl chloride	ND		ug/l	4.0	0.28	4
Chloroethane	ND		ug/l	10	2.8	4
1,1-Dichloroethene	ND		ug/l	2.0	0.68	4
trans-1,2-Dichloroethene	ND		ug/l	10	2.8	4
Trichloroethene	ND		ug/l	2.0	0.70	4
1,2-Dichlorobenzene	ND		ug/l	10	2.8	4

Project Name: CONVENTUS **Lab Number:** L1958113

Project Number: K11.002.001 **Report Date:** 12/12/19

SAMPLE RESULTS

Lab ID: L1958113-08 D
Client ID: BCP-MW04120419
Sample Location: 1001 MAIN ST.

Date Collected: 12/04/19 12:25
Date Received: 12/05/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	10	2.8	4
1,4-Dichlorobenzene	ND		ug/l	10	2.8	4
Methyl tert butyl ether	ND		ug/l	10	2.8	4
p/m-Xylene	150		ug/l	10	2.8	4
o-Xylene	7.3	J	ug/l	10	2.8	4
cis-1,2-Dichloroethene	ND		ug/l	10	2.8	4
Styrene	ND		ug/l	10	2.8	4
Dichlorodifluoromethane	ND		ug/l	20	4.0	4
Acetone	ND		ug/l	20	5.8	4
Carbon disulfide	ND		ug/l	20	4.0	4
2-Butanone	ND		ug/l	20	7.8	4
4-Methyl-2-pentanone	ND		ug/l	20	4.0	4
2-Hexanone	ND		ug/l	20	4.0	4
1,2-Dibromoethane	ND		ug/l	8.0	2.6	4
n-Butylbenzene	4.1	J	ug/l	10	2.8	4
sec-Butylbenzene	2.9	J	ug/l	10	2.8	4
tert-Butylbenzene	ND		ug/l	10	2.8	4
1,2-Dibromo-3-chloropropane	ND		ug/l	10	2.8	4
Isopropylbenzene	19		ug/l	10	2.8	4
p-Isopropyltoluene	ND		ug/l	10	2.8	4
Naphthalene	99		ug/l	10	2.8	4
n-Propylbenzene	86		ug/l	10	2.8	4
1,2,4-Trichlorobenzene	ND		ug/l	10	2.8	4
1,3,5-Trimethylbenzene	ND		ug/l	10	2.8	4
1,2,4-Trimethylbenzene	470		ug/l	10	2.8	4
Methyl Acetate	ND		ug/l	8.0	0.94	4
Cyclohexane	60		ug/l	40	1.1	4
Freon-113	ND		ug/l	10	2.8	4
Methyl cyclohexane	8.0	J	ug/l	40	1.6	4

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	94		70-130

Project Name: CONVENTUS
Project Number: K11.002.001
Lab Number: L1958113
Report Date: 12/12/19

SAMPLE RESULTS

Lab ID: L1958113-09
Client ID: BCP-MW03120419
Sample Location: 1001 MAIN ST.
Date Collected: 12/04/19 12:55
Date Received: 12/05/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/11/19 17:52
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.20	J	ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	1.1	J	ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: CONVENTUS **Lab Number:** L1958113

Project Number: K11.002.001 **Report Date:** 12/12/19

SAMPLE RESULTS

Lab ID: L1958113-09 Date Collected: 12/04/19 12:55

Client ID: BCP-MW03120419 Date Received: 12/05/19

Sample Location: 1001 MAIN ST. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	1.3	J	ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	1.2	J	ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	94		70-130

Project Name: CONVENTUS
Project Number: K11.002.001
Lab Number: L1958113
Report Date: 12/12/19

SAMPLE RESULTS

Lab ID: L1958113-10
Client ID: BCP-MW06120419
Sample Location: 1001 MAIN ST.
Date Collected: 12/04/19 13:45
Date Received: 12/05/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/11/19 15:20
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	0.20	J	ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	4.0		ug/l	0.50	0.16	1
Toluene	6.7		ug/l	2.5	0.70	1
Ethylbenzene	2.4	J	ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: CONVENTUS **Lab Number:** L1958113

Project Number: K11.002.001 **Report Date:** 12/12/19

SAMPLE RESULTS

Lab ID: L1958113-10 Date Collected: 12/04/19 13:45

Client ID: BCP-MW06120419 Date Received: 12/05/19

Sample Location: 1001 MAIN ST. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	5.1		ug/l	2.5	0.70	1
o-Xylene	2.9		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	6.4		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	0.88	J	ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	0.90	J	ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	4.8		ug/l	2.5	0.70	1
n-Propylbenzene	1.3	J	ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	1.4	J	ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	2.2	J	ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	6.6	J	ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	4.5	J	ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	92		70-130

Project Name: CONVENTUS
Project Number: K11.002.001
Lab Number: L1958113
Report Date: 12/12/19

SAMPLE RESULTS

Lab ID: L1958113-11 D
Client ID: BCP-MW05120419
Sample Location: 1001 MAIN ST.
Date Collected: 12/04/19 12:15
Date Received: 12/05/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/11/19 15:45
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	50	14.	20
1,1-Dichloroethane	ND		ug/l	50	14.	20
Chloroform	ND		ug/l	50	14.	20
Carbon tetrachloride	ND		ug/l	10	2.7	20
1,2-Dichloropropane	ND		ug/l	20	2.7	20
Dibromochloromethane	ND		ug/l	10	3.0	20
1,1,2-Trichloroethane	ND		ug/l	30	10.	20
Tetrachloroethene	ND		ug/l	10	3.6	20
Chlorobenzene	ND		ug/l	50	14.	20
Trichlorofluoromethane	ND		ug/l	50	14.	20
1,2-Dichloroethane	ND		ug/l	10	2.6	20
1,1,1-Trichloroethane	ND		ug/l	50	14.	20
Bromodichloromethane	ND		ug/l	10	3.8	20
trans-1,3-Dichloropropene	ND		ug/l	10	3.3	20
cis-1,3-Dichloropropene	ND		ug/l	10	2.9	20
Bromoform	ND		ug/l	40	13.	20
1,1,2,2-Tetrachloroethane	ND		ug/l	10	3.3	20
Benzene	8.9	J	ug/l	10	3.2	20
Toluene	42	J	ug/l	50	14.	20
Ethylbenzene	1200		ug/l	50	14.	20
Chloromethane	ND		ug/l	50	14.	20
Bromomethane	ND		ug/l	50	14.	20
Vinyl chloride	ND		ug/l	20	1.4	20
Chloroethane	ND		ug/l	50	14.	20
1,1-Dichloroethene	ND		ug/l	10	3.4	20
trans-1,2-Dichloroethene	ND		ug/l	50	14.	20
Trichloroethene	ND		ug/l	10	3.5	20
1,2-Dichlorobenzene	ND		ug/l	50	14.	20

Project Name: CONVENTUS **Lab Number:** L1958113

Project Number: K11.002.001 **Report Date:** 12/12/19

SAMPLE RESULTS

Lab ID: L1958113-11 D
Client ID: BCP-MW05120419
Sample Location: 1001 MAIN ST.

Date Collected: 12/04/19 12:15
Date Received: 12/05/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	50	14.	20
1,4-Dichlorobenzene	ND		ug/l	50	14.	20
Methyl tert butyl ether	ND		ug/l	50	14.	20
p/m-Xylene	3300		ug/l	50	14.	20
o-Xylene	73		ug/l	50	14.	20
cis-1,2-Dichloroethene	ND		ug/l	50	14.	20
Styrene	ND		ug/l	50	14.	20
Dichlorodifluoromethane	ND		ug/l	100	20.	20
Acetone	97	J	ug/l	100	29.	20
Carbon disulfide	ND		ug/l	100	20.	20
2-Butanone	ND		ug/l	100	39.	20
4-Methyl-2-pentanone	ND		ug/l	100	20.	20
2-Hexanone	ND		ug/l	100	20.	20
1,2-Dibromoethane	ND		ug/l	40	13.	20
n-Butylbenzene	ND		ug/l	50	14.	20
sec-Butylbenzene	ND		ug/l	50	14.	20
tert-Butylbenzene	ND		ug/l	50	14.	20
1,2-Dibromo-3-chloropropane	ND		ug/l	50	14.	20
Isopropylbenzene	24	J	ug/l	50	14.	20
p-Isopropyltoluene	ND		ug/l	50	14.	20
Naphthalene	1100		ug/l	50	14.	20
n-Propylbenzene	110		ug/l	50	14.	20
1,2,4-Trichlorobenzene	ND		ug/l	50	14.	20
1,3,5-Trimethylbenzene	480		ug/l	50	14.	20
1,2,4-Trimethylbenzene	2200		ug/l	50	14.	20
Methyl Acetate	ND		ug/l	40	4.7	20
Cyclohexane	220		ug/l	200	5.4	20
Freon-113	ND		ug/l	50	14.	20
Methyl cyclohexane	96	J	ug/l	200	7.9	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	92		70-130

Project Name: CONVENTUS
Project Number: K11.002.001

Lab Number: L1958113
Report Date: 12/12/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/11/19 09:25
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04-11 Batch: WG1320012-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: CONVENTUS
Project Number: K11.002.001

Lab Number: L1958113
Report Date: 12/12/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/11/19 09:25
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04-11 Batch: WG1320012-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
1,2-Dibromoethane	ND		ug/l	2.0	0.65
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: CONVENTUS
Project Number: K11.002.001

Lab Number: L1958113
Report Date: 12/12/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/11/19 09:25
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04-11 Batch: WG1320012-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	94		70-130

Project Name: CONVENTUS
Project Number: K11.002.001

Lab Number: L1958113
Report Date: 12/12/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/12/19 09:00
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1320057-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: CONVENTUS
Project Number: K11.002.001

Lab Number: L1958113
Report Date: 12/12/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/12/19 09:00
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1320057-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
1,2-Dibromoethane	ND		ug/l	2.0	0.65
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: CONVENTUS
Project Number: K11.002.001

Lab Number: L1958113
Report Date: 12/12/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/12/19 09:00
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1320057-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	95		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: CONVENTUS
Project Number: K11.002.001

Lab Number: L1958113
Report Date: 12/12/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-11 Batch: WG1320012-3 WG1320012-4								
Methylene chloride	89		88		70-130	1		20
1,1-Dichloroethane	88		92		70-130	4		20
Chloroform	82		87		70-130	6		20
Carbon tetrachloride	82		84		63-132	2		20
1,2-Dichloropropane	95		97		70-130	2		20
Dibromochloromethane	90		89		63-130	1		20
1,1,2-Trichloroethane	92		88		70-130	4		20
Tetrachloroethene	86		87		70-130	1		20
Chlorobenzene	87		89		75-130	2		20
Trichlorofluoromethane	73		74		62-150	1		20
1,2-Dichloroethane	85		83		70-130	2		20
1,1,1-Trichloroethane	79		81		67-130	3		20
Bromodichloromethane	84		84		67-130	0		20
trans-1,3-Dichloropropene	95		91		70-130	4		20
cis-1,3-Dichloropropene	89		88		70-130	1		20
Bromoform	90		83		54-136	8		20
1,1,2,2-Tetrachloroethane	95		90		67-130	5		20
Benzene	91		92		70-130	1		20
Toluene	92		93		70-130	1		20
Ethylbenzene	88		90		70-130	2		20
Chloromethane	82		86		64-130	5		20
Bromomethane	43		68		39-139	**45**	Q	20
Vinyl chloride	88		87		55-140	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: CONVENTUS
Project Number: K11.002.001

Lab Number: L1958113
Report Date: 12/12/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-11 Batch: WG1320012-3 WG1320012-4								
Chloroethane	76		77		55-138	1		20
1,1-Dichloroethene	83		87		61-145	5		20
trans-1,2-Dichloroethene	95		96		70-130	1		20
Trichloroethene	84		87		70-130	4		20
1,2-Dichlorobenzene	93		95		70-130	2		20
1,3-Dichlorobenzene	94		97		70-130	3		20
1,4-Dichlorobenzene	92		93		70-130	1		20
Methyl tert butyl ether	95		90		63-130	5		20
p/m-Xylene	85		90		70-130	6		20
o-Xylene	85		90		70-130	6		20
cis-1,2-Dichloroethene	87		86		70-130	1		20
Styrene	85		90		70-130	6		20
Dichlorodifluoromethane	68		70		36-147	3		20
Acetone	120		100		58-148	18		20
Carbon disulfide	88		90		51-130	2		20
2-Butanone	120		110		63-138	9		20
4-Methyl-2-pentanone	120		110		59-130	9		20
2-Hexanone	110		96		57-130	14		20
1,2-Dibromoethane	94		89		70-130	5		20
n-Butylbenzene	92		96		53-136	4		20
sec-Butylbenzene	96		100		70-130	4		20
tert-Butylbenzene	93		96		70-130	3		20
1,2-Dibromo-3-chloropropane	100		94		41-144	6		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: CONVENTUS
Project Number: K11.002.001

Lab Number: L1958113
Report Date: 12/12/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-11 Batch: WG1320012-3 WG1320012-4								
Isopropylbenzene	91		94		70-130	3		20
p-Isopropyltoluene	93		98		70-130	5		20
Naphthalene	110		100		70-130	10		20
n-Propylbenzene	92		94		69-130	2		20
1,2,4-Trichlorobenzene	100		99		70-130	1		20
1,3,5-Trimethylbenzene	91		94		64-130	3		20
1,2,4-Trimethylbenzene	91		95		70-130	4		20
Methyl Acetate	98		91		70-130	7		20
Cyclohexane	97		99		70-130	2		20
Freon-113	80		84		70-130	5		20
Methyl cyclohexane	86		88		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		88		70-130
Toluene-d8	103		103		70-130
4-Bromofluorobenzene	111		111		70-130
Dibromofluoromethane	96		96		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: CONVENTUS
Project Number: K11.002.001

Lab Number: L1958113
Report Date: 12/12/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1320057-3 WG1320057-4								
Methylene chloride	84		85		70-130	1		20
1,1-Dichloroethane	88		87		70-130	1		20
Chloroform	83		82		70-130	1		20
Carbon tetrachloride	78		80		63-132	3		20
1,2-Dichloropropane	94		94		70-130	0		20
Dibromochloromethane	85		87		63-130	2		20
1,1,2-Trichloroethane	89		90		70-130	1		20
Tetrachloroethene	80		83		70-130	4		20
Chlorobenzene	85		86		75-130	1		20
Trichlorofluoromethane	70		72		62-150	3		20
1,2-Dichloroethane	83		83		70-130	0		20
1,1,1-Trichloroethane	75		76		67-130	1		20
Bromodichloromethane	81		83		67-130	2		20
trans-1,3-Dichloropropene	90		92		70-130	2		20
cis-1,3-Dichloropropene	85		86		70-130	1		20
Bromoform	83		86		54-136	4		20
1,1,2,2-Tetrachloroethane	91		96		67-130	5		20
Benzene	87		87		70-130	0		20
Toluene	88		88		70-130	0		20
Ethylbenzene	84		85		70-130	1		20
Chloromethane	81		85		64-130	5		20
Bromomethane	**28**	Q	47		39-139	**51**	Q	20
Vinyl chloride	85		86		55-140	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: CONVENTUS

Project Number: K11.002.001

Lab Number: L1958113

Report Date: 12/12/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1320057-3 WG1320057-4								
Chloroethane	73		75		55-138	3		20
1,1-Dichloroethene	82		82		61-145	0		20
trans-1,2-Dichloroethene	88		89		70-130	1		20
Trichloroethene	80		81		70-130	1		20
1,2-Dichlorobenzene	91		96		70-130	5		20
1,3-Dichlorobenzene	94		96		70-130	2		20
1,4-Dichlorobenzene	90		94		70-130	4		20
Methyl tert butyl ether	88		90		63-130	2		20
p/m-Xylene	80		85		70-130	6		20
o-Xylene	85		85		70-130	0		20
cis-1,2-Dichloroethene	90		83		70-130	8		20
Styrene	85		85		70-130	0		20
Dichlorodifluoromethane	65		65		36-147	0		20
Acetone	97		100		58-148	3		20
Carbon disulfide	82		83		51-130	1		20
2-Butanone	100		110		63-138	10		20
4-Methyl-2-pentanone	100		110		59-130	10		20
2-Hexanone	95		100		57-130	5		20
1,2-Dibromoethane	88		90		70-130	2		20
n-Butylbenzene	88		91		53-136	3		20
sec-Butylbenzene	90		94		70-130	4		20
tert-Butylbenzene	88		92		70-130	4		20
1,2-Dibromo-3-chloropropane	90		96		41-144	6		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: CONVENTUS
Project Number: K11.002.001

Lab Number: L1958113
Report Date: 12/12/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1320057-3 WG1320057-4								
Isopropylbenzene	87		91		70-130	4		20
p-Isopropyltoluene	87		92		70-130	6		20
Naphthalene	100		100		70-130	0		20
n-Propylbenzene	87		91		69-130	4		20
1,2,4-Trichlorobenzene	96		96		70-130	0		20
1,3,5-Trimethylbenzene	87		90		64-130	3		20
1,2,4-Trimethylbenzene	88		92		70-130	4		20
Methyl Acetate	97		99		70-130	2		20
Cyclohexane	93		92		70-130	1		20
Freon-113	78		76		70-130	3		20
Methyl cyclohexane	78		81		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		93		70-130
Toluene-d8	104		103		70-130
4-Bromofluorobenzene	112		114		70-130
Dibromofluoromethane	96		97		70-130

Project Name: CONVENTUS
Project Number: K11.002.001

Lab Number: L1958113
Report Date: 12/12/19

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1958113-01A	Vial HCl preserved	A	NA		5.6	Y	Absent		NYTCL-8260-R2(14)
L1958113-01B	Vial HCl preserved	A	NA		5.6	Y	Absent		NYTCL-8260-R2(14)
L1958113-02A	Vial HCl preserved	A	NA		5.6	Y	Absent		NYTCL-8260-R2(14)
L1958113-02B	Vial HCl preserved	A	NA		5.6	Y	Absent		NYTCL-8260-R2(14)
L1958113-02C	Vial HCl preserved	A	NA		5.6	Y	Absent		NYTCL-8260-R2(14)
L1958113-03A	Vial HCl preserved	A	NA		5.6	Y	Absent		NYTCL-8260-R2(14)
L1958113-03B	Vial HCl preserved	A	NA		5.6	Y	Absent		NYTCL-8260-R2(14)
L1958113-03C	Vial HCl preserved	A	NA		5.6	Y	Absent		NYTCL-8260-R2(14)
L1958113-04A	Vial HCl preserved	A	NA		5.6	Y	Absent		NYTCL-8260-R2(14)
L1958113-04B	Vial HCl preserved	A	NA		5.6	Y	Absent		NYTCL-8260-R2(14)
L1958113-04C	Vial HCl preserved	A	NA		5.6	Y	Absent		NYTCL-8260-R2(14)
L1958113-05A	Vial HCl preserved	A	NA		5.6	Y	Absent		NYTCL-8260-R2(14)
L1958113-05B	Vial HCl preserved	A	NA		5.6	Y	Absent		NYTCL-8260-R2(14)
L1958113-05C	Vial HCl preserved	A	NA		5.6	Y	Absent		NYTCL-8260-R2(14)
L1958113-06A	Vial HCl preserved	A	NA		5.6	Y	Absent		NYTCL-8260-R2(14)
L1958113-06B	Vial HCl preserved	A	NA		5.6	Y	Absent		NYTCL-8260-R2(14)
L1958113-06C	Vial HCl preserved	A	NA		5.6	Y	Absent		NYTCL-8260-R2(14)
L1958113-07A	Vial HCl preserved	A	NA		5.6	Y	Absent		NYTCL-8260-R2(14)
L1958113-07B	Vial HCl preserved	A	NA		5.6	Y	Absent		NYTCL-8260-R2(14)
L1958113-07C	Vial HCl preserved	A	NA		5.6	Y	Absent		NYTCL-8260-R2(14)
L1958113-08A	Vial HCl preserved	A	NA		5.6	Y	Absent		NYTCL-8260-R2(14)
L1958113-08B	Vial HCl preserved	A	NA		5.6	Y	Absent		NYTCL-8260-R2(14)
L1958113-08C	Vial HCl preserved	A	NA		5.6	Y	Absent		NYTCL-8260-R2(14)

*Values in parentheses indicate holding time in days

Project Name: CONVENTUS
Project Number: K11.002.001

Lab Number: L1958113
Report Date: 12/12/19

Container Information

Container ID	*Container Type*	*Cooler*	*Initial pH*	*Final pH*	*Temp deg C*	*Pres*	*Seal*	*Frozen Date/Time*	*Analysis(*)*
L1958113-09A	Vial HCl preserved	A	NA		5.6	Y	Absent		NYTCL-8260-R2(14)
L1958113-09B	Vial HCl preserved	A	NA		5.6	Y	Absent		NYTCL-8260-R2(14)
L1958113-09C	Vial HCl preserved	A	NA		5.6	Y	Absent		NYTCL-8260-R2(14)
L1958113-10A	Vial HCl preserved	A	NA		5.6	Y	Absent		NYTCL-8260-R2(14)
L1958113-10B	Vial HCl preserved	A	NA		5.6	Y	Absent		NYTCL-8260-R2(14)
L1958113-10C	Vial HCl preserved	A	NA		5.6	Y	Absent		NYTCL-8260-R2(14)
L1958113-11A	Vial HCl preserved	A	NA		5.6	Y	Absent		NYTCL-8260-R2(14)
L1958113-11B	Vial HCl preserved	A	NA		5.6	Y	Absent		NYTCL-8260-R2(14)
L1958113-11C	Vial HCl preserved	A	NA		5.6	Y	Absent		NYTCL-8260-R2(14)

*Values in parentheses indicate holding time in days

Project Name:	CONVENTUS	**Lab Number:**	L1958113
Project Number:	K11.002.001	**Report Date:**	12/12/19

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers

Project Name:	CONVENTUS	**Lab Number:**	L1958113
Project Number:	K11.002.001	**Report Date:**	12/12/19

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	CONVENTUS	**Lab Number:**	L1958113
Project Number:	K11.002.001	**Report Date:**	12/12/19

Data Qualifiers

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers

Project Name:	CONVENTUS	**Lab Number:**	L1958113
Project Number:	K11.002.001	**Report Date:**	12/12/19

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2

Date Rec'd in Lab: 12-6-19

ALPHA Job #: L1958113

Client Information
Client: C&S ENGINEERS
Address: 141 ELLICOTT ST. Suite 100
BUFFALO NY 14203
Phone: (716)-847-1630
Fax:
Email: RBuchert@CSLOS.com

Project Information
Project Name: CONVENTUS
Project Location: 1001 MAIN ST.
Project # K11.002.001
(Use Project name as Project #) ☐
Project Manager: CODY MARTIN
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☒ ASP-B
☒ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☒ NY Part 375 MTBE/TAL
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☒ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☒ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

VOCs 8260

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs 8260	Total Bottle
L1958113-01 (ID-12/6/19)	TRIP BLANK	12/4/19	3:00	GW	KB	B	2

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type: V
Preservative: B

Relinquished By:	Date/Time	Received By:	Date/Time
	12/5/19 1250		12/5/19 1250
	12/5/19 1330		12/6/19 01:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 12-6-19

ALPHA Job #: L1958113

Client Information
Client: C&S ENGINEERS
Address: 141 ELM ST. SUITE 100
BUFFALO NY 14203
Phone: (716)-847-1630
Fax:
Email: RBuchert@CandS.com

Project Information
Project Name: CONVENTUS
Project Location: 1001 MAIN ST.
Project #: K11.002.001
(Use Project name as Project #)
Project Manager: CODY MARTIN
ALPHAQuote #:

Turn-Around Time
Standard [X] Due Date:
Rush (only if pre approved) [ ] # of Days:

Deliverables
[ ] ASP-A [X] ASP-B
[X] EQuIS (1 File) [ ] EQuIS (4 File)
[ ] Other

Regulatory Requirement
[ ] NY TOGS [X] NY Part 375 NYECL/TAL
[ ] AWQ Standards [ ] NY CP-51
[ ] NY Restricted Use [ ] Other
[ ] NY Unrestricted Use
[ ] NYC Sewer Discharge

Billing Information
[ ] Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
[ ] NJ [X] NY
[ ] Other:

These samples have been previously analyzed by Alpha [ ]

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS
TCL VOCs 8260

Sample Filtration
[ ] Done
[ ] Lab to do
Preservation
[ ] Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Sample Specific Comments	Total Bottle
58113-01-02	MS-MW01120319	12/3/19	11:18	GW	RB		3
-02-03	MS-MW02120319	12/3/19	12:02	GW	RB		3
-03-04	MS-MW03120319	12/3/19	12:42	GW	RB		3
-04-05	MS-MW04120319	12/3/19	1:31	GW	RB		3
-05-06	BCP-MW01120419	12/4/19	11:28	GW	RB		3
-06-07	BCP-MW07120419	12/4/19	11:56	GW	RB		3
-07-08	BCP-MW04120419	12/4/19	12:25	GW	RB		3
-08-09	BCP-MW03120419	12/4/19	12:55	GW	RB		3
-09-10	BCP-MW06120419	12/4/19	1:45	GW	RB		3
-10-11	BCP-MW05120419	12/4/19	2:15	GW	RB		3

Container Type: V
Preservative: B

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	12/5/19 1250		12/5/19 1250
	12/5/19 1330		12/6/19 0115O

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

APPENDIX B

GROUNDWATER MONITORING CONSTRUCTION & SAMPLING LOGS

C&S Engineers, Inc.
90 Broadway
Buffalo, New York 14203
Phone: 716-847-1630
Fax: 716-847-1454
www.cscos.com

BORING LOG

Boring No.	**MW-01**
Sheet 1 of:	1
Project No.:	K11.002.001
Surface Elev.:	
Datum:	6. Surface
Start Date:	8/15/13
Finish Date:	8/15/13
Inspector:	N. Wohlabaugh

Project Name:	Main St ROW Investigation							
Location:	MOB - Buffalo, NY							
Client:	Kaleida Health							
Drilling Firm:	SJB			**Driller:**	**Tony**			
Groundwater	**Depth**	**Date & Time**		**Drill Rig:**	CME 45C			
While Drilling:				**Casing:**		**Rock Core:**	**Undist:**	
Before Casing Removal:				**Sampler:**		**Other:**		
After Casing Removal:				**Hammer:**	Auto			

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION (c - coarse, m - medium, f - fine; a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10%; S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey)	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
			5		Start: 12:15 PM
1			4	***Crushed Stone (dry)***	12" rec
			9		0.2 ppm
2			10		
			6		
3			6	***Crushed Stone (dry)***	15" rec
			8	***Silt (red/brown - dry)***	0.2 ppm
4			8		
			11		
5			12	***Silt (red/brown - moist)***	13" rec
			15		2.5 ppm
6			18		
			16		
7			22	***Silt (red/brown - saturated)***	24" rec
			22	***Gravel (fine - medium grey - saturated)***	0 ppm
8			24		
			13		
9			19	***Gravel (medium fine - medium grey - saturated)***	18" rec
			19	***Silt (saturated)***	15.3 ppm
10			22		
			7		
11			18	***Gravel (medium fine - medium grey - saturated)***	17" rec
			18	***Silt (saturated)***	229 ppm
12			28		
13			50/4	***Gravel (medium fine - medium grey - saturated)***	5" rec
					16..3 ppm
14					
			16		
15			24	***Gravel (medium fine - medium grey - saturated)***	17" rec
			14		14..0 ppm
16			16		
17					
18					
19					
20					
21					
22					
23					
24					

C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
Fax: 315-455-9667
www.cscos.com

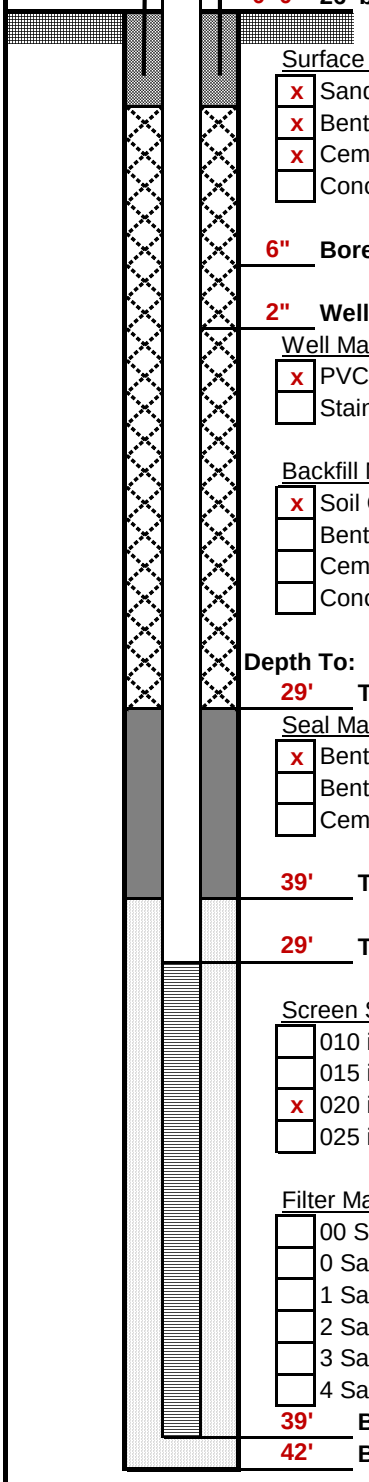
GROUNDWATER OBSERVATION WELL CONSTRUCTION LOG

Well No.	**MW-01**
Project No.:	K11.002.001
Surface Elev.:	
Datum:	26' bgs
Start Date:	8/15/13
Finish Date:	8/15/13
Inspector:	
Casing:	0

Project Name:	Main St ROW Investigation
Location:	MOB - Buffalo, NY
Client:	Kaleida Health
Drilling Firm:	SJB
Driller:	0
Drill Rig:	CME 45C

Notes: (provide description of observation well location, method of construction, development method and any other information)

The observation well was constructed in Bore Hole B-3 upon completing the soil boring to depth of 25 feet below ground surface (bgs). Hollow Stem Augers (HSA) were used as the casing and the well was constructed inside the augers. Filter pack material and seal material were poured separately down the inside of the augers while the augers were retracted. Measurements were taken to asure that neither the filter pack or seal materials were bridging between the well and HSA. The well was developed by pumping to remove fine materials.



2'-9" Top Protective Casing
2'-6" Top of Riser

0'-0" 26' bgs.

Surface Backfill Material
- [x] Sand
- [x] Bentonite Slurry
- [x] Cement/Bentonite Grout
- [ ] Concrete

6" Bore Hole Diameter

2" Well Diameter

Well Material
- [x] PVC
- [ ] Stainless Steel

Backfill Material
- [x] Soil Cuttings
- [ ] Bentonite Slurry
- [ ] Cement/Bentonite Grout
- [ ] Concrete

Depth To:

29' Top of Seal

Seal Material
- [x] Bentonite Chips/Pellets
- [ ] Bentonite Slurry
- [ ] Cement/Bentonite Grout

39' Top of Filter Pack

29' Top of Screen

Screen Slot Size
- [ ] 010 in
- [ ] 015 in
- [x] 020 in
- [ ] 025 in

Filter Material
- [ ] 00 Sand Pack
- [ ] 0 Sand Pack
- [ ] 1 Sand Pack
- [ ] 2 Sand Pack
- [ ] 3 Sand Pack
- [ ] 4 Sand Pack

39' Bottom of Screen

42' Bottom of Bore Hole

Groundwater Measurement Data

Date	Time	Depth to Water	Water Elevation	Tide Status

C&S Engineers, Inc.
90 Broadway
Buffalo, New York 14203
Phone: 716-847-1630
Fax: 716-847-1454
www.cscos.com

BORING LOG

Boring No.	**MW-02**
Sheet 1 of:	1
Project No.:	K11.002.001
Surface Elev.:	
Datum:	6. Surface
Start Date:	8/16/13
Finish Date:	8/16/13
Inspector:	N. Wohlabaugh

Project Name:	Main St ROW Investigation							
Location:	MOB - Buffalo, NY							
Client:	Kaleida Health							
Drilling Firm:	SJB			**Driller:**	**Tony**			
Groundwater	**Depth**	**Date & Time**		**Drill Rig:**	CME 45C			
While Drilling:				**Casing:**		**Rock Core:**		**Undist:**
Before Casing Removal:				**Sampler:**		**Other:**		
After Casing Removal:				**Hammer:**	Auto			

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

c - coarse
m - medium
f - fine

a - and - 35-50%
s - some - 20-35%
l - little - 10-20%
t - trace - 0-10%

S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
			7		Start: 9:20 AM
1			7	***Crushed Stone (grey - dry)***	6" rec
			15		0.2 ppm
2			17		
			10		
3			10	***Flowable Fill (black - dry/damp)***	6" rec
			23		0.2 ppm
4			26		
			3		
5			3	***Flowable Fill (black - dry/damp)***	24" rec
			12		3.1 ppm
6			10		
			13		
7			15	***Flowable Fill (black - dry/damp)***	24" rec
			22		5.6 ppm
8			23		
			4		
9			4	***Flowable Fill (black - damp/moist)***	24" rec
			5		4.3 ppm
10			8		
			5		
11			9	***Flowable Fill (black - damp/moist)***	20" rec
			14	***Medium Sand (Caorse - gray - moist)***	1.5 ppm
12			48		
13			3-May	***2" of Slough***	N/A
					N/A
14					
15				***Bottom of @ 13'+3' = 16' bg***	
16					
17					
18					
19					
20					
21					
22					
23					
24					

C&S Engineers, Inc.
90 Broadway
Buffalo, New York 14203
Phone: 716-847-1630
Fax: 716-847-1454
www.cscos.com

BORING LOG

Boring No.	**MW-03**
Sheet 1 of:	1
Project No.:	K11.002.001
Surface Elev.:	
Datum:	26' - Surface
Start Date:	9/12/13
Finish Date:	9/12/13
Inspector:	N. Wohlabaugh

Project Name:	Main St ROW Investigation							
Location:	MOB - Buffalo, NY							
Client:	Kaleida Health							
Drilling Firm:	SJB			**Driller:**	**Tony**			
Groundwater	**Depth**	**Date & Time**		**Drill Rig:**	CME 45C			
While Drilling:				**Casing:**		**Rock Core:**	**Undist:**	
Before Casing Removal:				**Sampler:**		**Other:**		
After Casing Removal:				**Hammer:**	Auto			

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

c - coarse
m - medium
f - fine

a - and - 35-50%
s - some - 20-35%
l - little - 10-20%
t - trace - 0-10%

S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
			4		Start: 8:30 AM
1			7	***Sand (med brown - fine sand - moist)***	12" rec
			10	***some Silt***	0.2 ppm
2			12		
			17		
3			17	***Silt (med brown - wet to saturated)***	15" rec
			18	***some Fine Sand and Clay***	0.4 ppm
4			17		
			6		
5			8	***Sand (black - med grained - sheen - saturated)***	14" rec
			7		415 ppm
6			7		
			9		
7			10	***Sand (black - med grained - sheen - saturated)***	16"
			10		0 ppm
8			11		
			2		
9			4	***Sand (med grey - saturated)***	20" rec
			5	***4" of Clay at the bottom (red/brown)***	175 ppm
10			15		
			16		
11			35	***Sand (upper 10" - black - wet to moist)***	20" rec
			50/3	***Sand (lower 10" - coarse - with agular gravel - west to moist)***	305 ppm
12					
			27		
13			50/4	***Sand (med grey - coarse - with angular gravel - moist)***	8" rec
					19.4 ppm
14					
			13		
15			19	***Sand (med grey - coarse - with angular gravel - moist)***	15" rec
			37		12 ppm
16			30		
17					
18					
19					
20					
21					
22					
23					
24					

C&S COMPANIES

C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
Fax: 315-455-9667
www.cscos.com

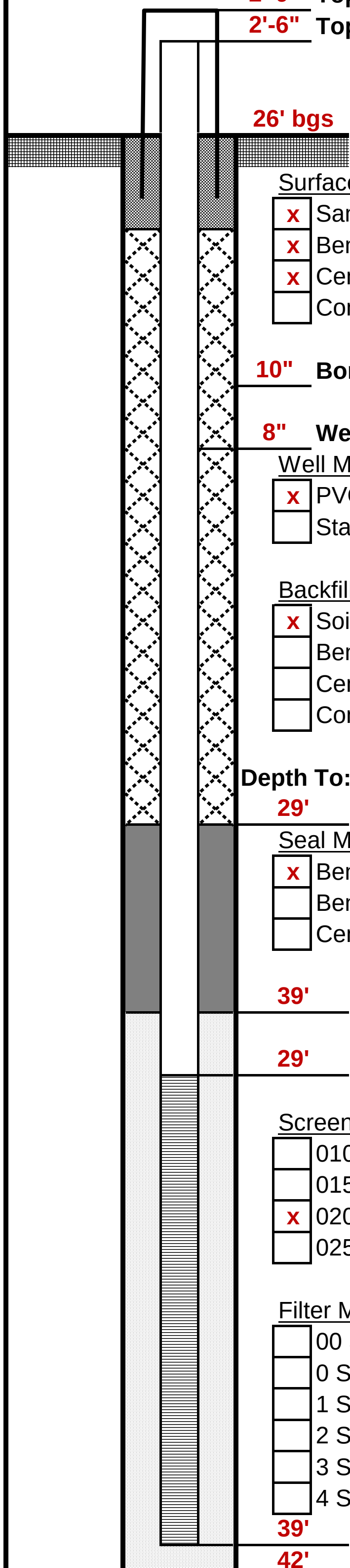
GROUNDWATER OBSERVATION WELL CONSTRUCTION LOG

Well No.	**MW-02**
Project No.:	K11.002.001
Surface Elev.:	
Datum:	26' bgs
Start Date:	8/16/13
Finish Date:	8/16/13
Inspector:	
Casing:	0

Project Name: Main St ROW Investigation
Location: MOB - Buffalo, NY
Client: Kaleida Health
Drilling Firm: SJB
Driller: 0
Drill Rig: CME 45C

Notes: (provide description of observation well location, method of construction, development method and any other information)

The observation well was constructed in Bore Hole B-3 upon completing the soil boring to depth of 25 feet below ground surface (bgs). Hollow Stem Augers (HSA) were used as the casing and the well was constructed inside the augers. Filter pack material and seal material were poured separately down the inside of the augers while the augers were retracted. Measurements were taken to asure that neither the filter pack or seal materials were bridging between the well and HSA. The well was developed by pumping to remove fine materials.



2'-9" **Top Protective Casing**
2'-6" **Top of Riser**
26' bgs

Surface Backfill Material
- [x] Sand
- [x] Bentonite Slurry
- [x] Cement/Bentonite Grout
- [ ] Concrete

10" **Bore Hole Diameter**

8" **Well Diameter**

Well Material
- [x] PVC
- [ ] Stainless Steel

Backfill Material
- [x] Soil Cuttings
- [ ] Bentonite Slurry
- [ ] Cement/Bentonite Grout
- [ ] Concrete

Depth To:
29' **Top of Seal**

Seal Material
- [x] Bentonite Chips/Pellets
- [ ] Bentonite Slurry
- [ ] Cement/Bentonite Grout

39' **Top of Filter Pack**

29' **Top of Screen**

Screen Slot Size
- [ ] 010 in
- [ ] 015 in
- [x] 020 in
- [ ] 025 in

Filter Material
- [ ] 00 Sand Pack
- [ ] 0 Sand Pack
- [ ] 1 Sand Pack
- [ ] 2 Sand Pack
- [ ] 3 Sand Pack
- [ ] 4 Sand Pack

39' **Bottom of Screen**
42' **Bottom of Bore Hole**

Groundwater Measurement Data

Date	Time	Depth to Water	Water Elevation	Tide Status

C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
Fax: 315-455-9667
www.cscos.com

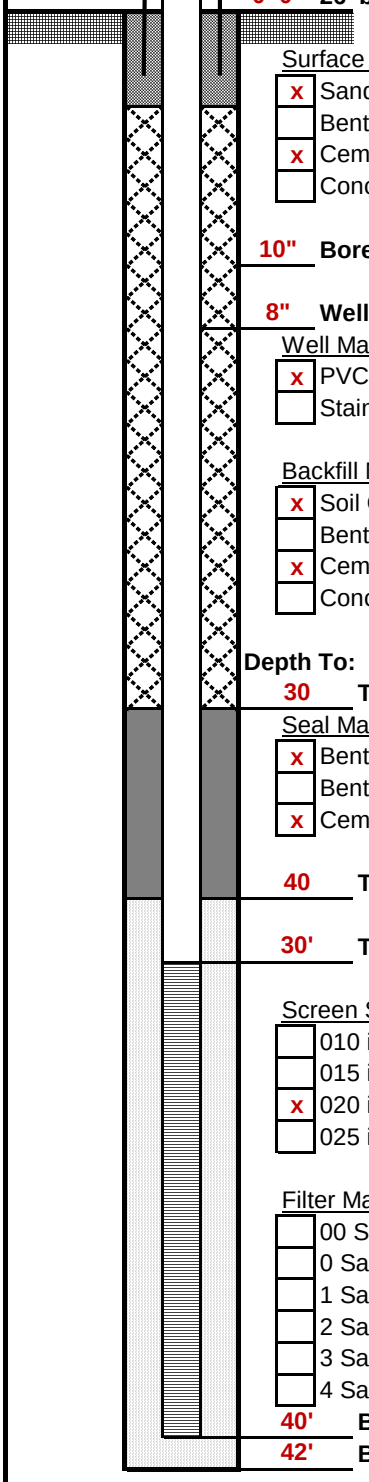
GROUNDWATER OBSERVATION WELL CONSTRUCTION LOG

Well No.	**MW-03**
Project No.:	K11.002.001
Surface Elev.:	
Datum:	26' bgs
Start Date:	9/12/13
Finish Date:	9/12/13
Inspector:	
Casing:	0

Project Name:	Main St ROW Investigation
Location:	MOB - Buffalo, NY
Client:	Kaleida Health
Drilling Firm:	SJB
Driller:	0
Drill Rig:	CME 45C

Notes: (provide description of observation well location, method of construction, development method and any other information)

The observation well was constructed in Bore Hole B-3 upon completing the soil boring to depth of 25 feet below ground surface (bgs). Hollow Stem Augers (HSA) were used as the casing and the well was constructed inside the augers. Filter pack material and seal material were poured separately down the inside of the augers while the augers were retracted. Measurements were taken to asure that neither the filter pack or seal materials were bridging between the well and HSA. The well was developed by pumping to remove fine materials.



2'-9" Top Protective Casing
2'-6" Top of Riser
0'-0" 26' bgs.

Surface Backfill Material
- [x] Sand
- [ ] Bentonite Slurry
- [x] Cement/Bentonite Grout
- [ ] Concrete

10" Bore Hole Diameter

8" Well Diameter

Well Material
- [x] PVC
- [ ] Stainless Steel

Backfill Material
- [x] Soil Cuttings
- [ ] Bentonite Slurry
- [x] Cement/Bentonite Grout
- [ ] Concrete

Depth To:
30 Top of Seal

Seal Material
- [x] Bentonite Chips/Pellets
- [ ] Bentonite Slurry
- [x] Cement/Bentonite Grout

40 Top of Filter Pack

30' Top of Screen

Screen Slot Size
- [ ] 010 in
- [ ] 015 in
- [x] 020 in
- [ ] 025 in

Filter Material
- [ ] 00 Sand Pack
- [ ] 0 Sand Pack
- [ ] 1 Sand Pack
- [ ] 2 Sand Pack
- [ ] 3 Sand Pack
- [ ] 4 Sand Pack

40' Bottom of Screen
42' Bottom of Bore Hole

Groundwater Measurement Data

Date	Time	Depth to Water	Water Elevation	Tide Status

C&S Engineers, Inc.	BORING LOG	Boring No.	MW-04
90 Broadway Buffalo, New York 14203 Phone: 716-847-1630 Fax: 716-847-1454 www.cscos.com		Sheet 1 of:	1
		Project No.:	K11.002.001

Project Name:	Main St ROW Investigation					**Surface Elev.:**	
Location:	MOB - Buffalo, NY					**Datum:**	6. Surface
Client:	Kaleida Health					**Start Date:**	8/15/13
Drilling Firm:	SJB		**Driller:**	**Tony**		**Finish Date:**	8/15/13
Groundwater	**Depth**	**Date & Time**	**Drill Rig:**	CME 45C		**Inspector:**	N. Wohlabaugh
While Drilling:			**Casing:**		**Rock Core:**	**Undist:**	
Before Casing Removal:			**Sampler:**		**Other:**		
After Casing Removal:			**Hammer:**	Auto			

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION c - coarse, m - medium, f - fine S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10%	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
			9		Start: 7:20 AM
1			12	***Crushed Stone (dry)***	12" rec
			13		0.2 ppm
2			10		
			15		
3			21	***Crushed Stone (dry)***	15" rec
			23		0.2 ppm
4			25		
			20		
5			19	***Crushed Stone (dry)***	16" rec
			19	***Bottom 2" Flowable Fill***	0.5 ppm
6			20		
			13		
7			16	***Flowable Fill (black - moist)***	24" rec
			19		0 ppm
8			40		
			12		
9			13	***Flowable Fill (black - moist)***	24" rec
			15		0 ppm
10			19		
			7		
11			8	***Flowable Fill (black - moist)***	24" rec
			9	***Sand (medium brown - saturated)***	517 ppm
12			9		
			5		
13			9	***Sand (medium brown - moist)***	16" rec
			6	***Clay (red/brown - moist)***	59 ppm
14			14		
			6		
15			4	***Clay (red/brown - moist)***	23" rec
			7		1.2 ppm
16			15		
17					
18					
19					
20					
21					
22					
23					
24					

C&S Engineers, Inc.
90 Broadway
Buffalo, New York 14203
Phone: 716-847-1630
Fax: 716-847-1454
www.cscos.com

BORING LOG

Boring No.	**MW-05**
Sheet 1 of:	1
Project No.:	K11.002.001
Surface Elev.:	
Datum:	26' - Surface
Start Date:	9/12/13
Finish Date:	9/12/12
Inspector:	N. Wohlabaugh

Project Name:	Main St ROW Investigation							
Location:	MOB - Buffalo, NY							
Client:	Kaleida Health							
Drilling Firm:	SJB			**Driller:**	**Tony**			
Groundwater	**Depth**	**Date & Time**		**Drill Rig:**	CME 45C			
While Drilling:				**Casing:**		**Rock Core:**	**Undist:**	
Before Casing Removal:				**Sampler:**		**Other:**		
After Casing Removal:				**Hammer:**	Auto			

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION (c - coarse, m - medium, f - fine; a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10%; S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey)	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
			2		Start: 12:35 PM
1			3	***Sand (med - red/brown - fine - moist)***	19" rec
			5		0.6 ppm
2			11		
			12		
3			16	***Sand (med - red/brown - fine - moist)***	16" rec
			16	***some clay***	0.9 ppm
4			20		
			6		
5			8	***Sand (top 8" - med - brown - coarse - saturated)***	16" rec
			10	***Sand (bottom 8" - grey/black - coarse/gravely - product sheet)***	382 ppm
6			9		
			6		
7			7	***Sand (med - black - product sheen - saturated)***	21" rec
			6		1628 ppm
8			8		
			5		
9			8	***Sand (upper 12" - grey/black - wet)***	20" rec
			12	***Sand (lower 8" - red/brown - clay - wet)***	17.2 ppm
10			50/4		
			10		
11			16	***Sand (grey - round and angular gravel - saturated)***	11" rec
			47		12 pmm
12			50/2		
13			50/3	***Sand (coarse - grey - angular gravel - saturated)***	3" rec
					4.2 ppm
14					
			15		
15			23	***Gravel (angular gravel - grey - moist to saturated)***	14" rec
			50/4	***some Sand***	10.5 ppm
16					
17					
18					
19					
20					
21					
22					
23					
24					

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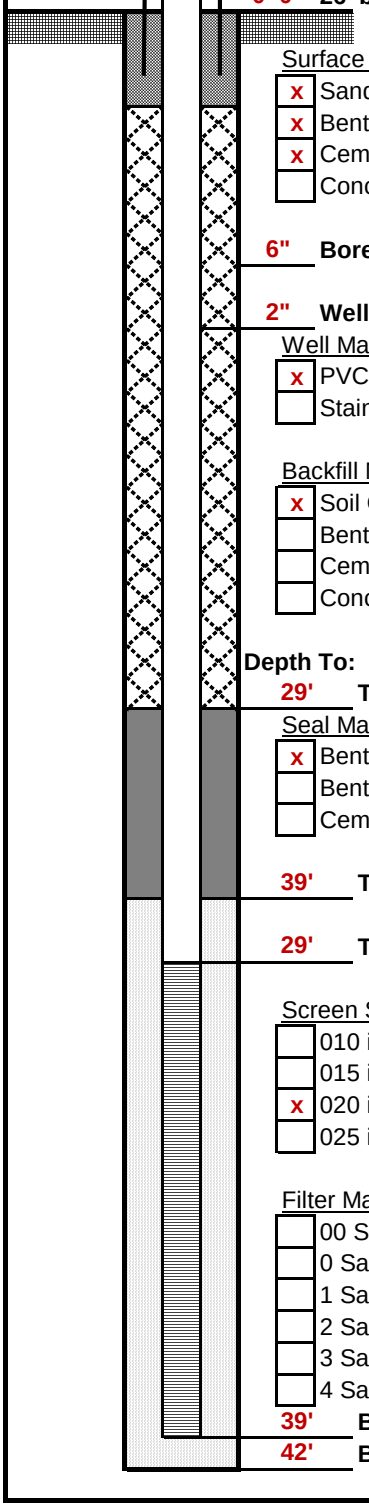
GROUNDWATER OBSERVATION WELL CONSTRUCTION LOG

Well No.	**MW-04**
Project No.:	K11.002.001
Surface Elev.:	
Datum:	26' bgs
Start Date:	8/15/13
Finish Date:	8/15/13
Inspector:	
Casing:	0

Project Name:	Main St ROW Investigation
Location:	MOB - Buffalo, NY
Client:	Kaleida Health
Drilling Firm:	SJB
Driller:	0
Drill Rig:	CME 45C

Notes: (provide description of observation well location, method of construction, development method and any other information)

The observation well was constructed in Bore Hole B-3 upon completing the soil boring to depth of 25 feet below ground surface (bgs). Hollow Stem Augers (HSA) were used as the casing and the well was constructed inside the augers. Filter pack material and seal material were poured separately down the inside of the augers while the augers were retracted. Measurements were taken to asure that neither the filter pack or seal materials were bridging between the well and HSA. The well was developed by pumping to remove fine materials.



2'-9" Top Protective Casing
2'-6" Top of Riser

0'-0" 26' bgs.

Surface Backfill Material
- [x] Sand
- [x] Bentonite Slurry
- [x] Cement/Bentonite Grout
- [ ] Concrete

6" Bore Hole Diameter

2" Well Diameter

Well Material
- [x] PVC
- [ ] Stainless Steel

Backfill Material
- [x] Soil Cuttings
- [ ] Bentonite Slurry
- [ ] Cement/Bentonite Grout
- [ ] Concrete

Depth To:

29' Top of Seal

Seal Material
- [x] Bentonite Chips/Pellets
- [ ] Bentonite Slurry
- [ ] Cement/Bentonite Grout

39' Top of Filter Pack

29' Top of Screen

Screen Slot Size
- [ ] 010 in
- [ ] 015 in
- [x] 020 in
- [ ] 025 in

Filter Material
- [ ] 00 Sand Pack
- [ ] 0 Sand Pack
- [ ] 1 Sand Pack
- [ ] 2 Sand Pack
- [ ] 3 Sand Pack
- [ ] 4 Sand Pack

39' Bottom of Screen

42' Bottom of Bore Hole

Groundwater Measurement Data

Date	Time	Depth to Water	Water Elevation	Tide Status

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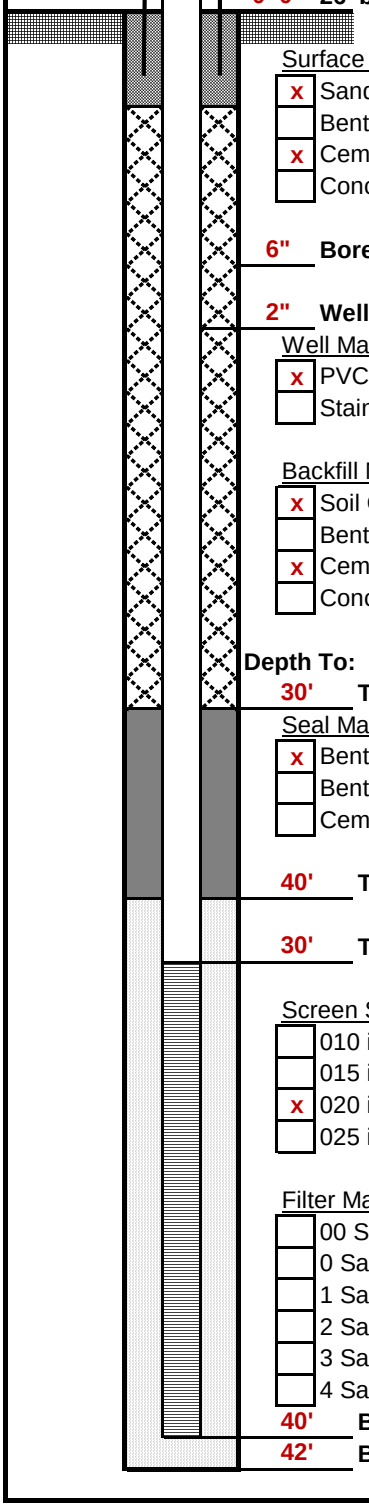
GROUNDWATER OBSERVATION WELL CONSTRUCTION LOG

Well No.	**MW-05**
Project No.:	K11.002.001
Surface Elev.:	
Datum:	26' bgs
Start Date:	9/12/13
Finish Date:	9/12/13
Inspector:	
Casing:	0

Project Name:	Main St ROW Investigation
Location:	MOB - Buffalo, NY
Client:	Kaleida Health
Drilling Firm:	SJB
Driller:	0
Drill Rig:	CME 45C

Notes: (provide description of observation well location, method of construction, development method and any other information)

The observation well was constructed in Bore Hole B-3 upon completing the soil boring to depth of 25 feet below ground surface (bgs). Hollow Stem Augers (HSA) were used as the casing and the well was constructed inside the augers. Filter pack material and seal material were poured separately down the inside of the augers while the augers were retracted. Measurements were taken to asure that neither the filter pack or seal materials were bridging between the well and HSA. The well was developed by pumping to remove fine materials.



2'-9" Top Protective Casing
2'-6" Top of Riser
0'-0" 26' bgs.

Surface Backfill Material
- [x] Sand
- [ ] Bentonite Slurry
- [x] Cement/Bentonite Grout
- [ ] Concrete

6" Bore Hole Diameter

2" Well Diameter

Well Material
- [x] PVC
- [ ] Stainless Steel

Backfill Material
- [x] Soil Cuttings
- [ ] Bentonite Slurry
- [x] Cement/Bentonite Grout
- [ ] Concrete

Depth To:
30' Top of Seal

Seal Material
- [x] Bentonite Chips/Pellets
- [ ] Bentonite Slurry
- [ ] Cement/Bentonite Grout

40' Top of Filter Pack

30' Top of Screen

Screen Slot Size
- [ ] 010 in
- [ ] 015 in
- [x] 020 in
- [ ] 025 in

Filter Material
- [ ] 00 Sand Pack
- [ ] 0 Sand Pack
- [ ] 1 Sand Pack
- [ ] 2 Sand Pack
- [ ] 3 Sand Pack
- [ ] 4 Sand Pack

40' Bottom of Screen
42' Bottom of Bore Hole

Groundwater Measurement Data

Date	Time	Depth to Water	Water Elevation	Tide Status

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BORING LOG

Boring No.	**MW-06**
Sheet 1 of:	1
Project No.:	K11.002.001
Surface Elev.:	
Datum:	6. Surface
Start Date:	8/14/13
Finish Date:	8/14/13
Inspector:	N. Wohlabaugh

Project Name:	Main St ROW Investigation							
Location:	MOB - Buffalo, NY							
Client:	Kaleida Health							
Drilling Firm:	SJB			**Driller:**	**Tony**			
Groundwater	**Depth**	**Date & Time**		**Drill Rig:**	CME 45C			
While Drilling:				**Casing:**		**Rock Core:**	**Undist:**	
Before Casing Removal:				**Sampler:**		**Other:**		
After Casing Removal:				**Hammer:**	Auto			

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

c - coarse
m - medium
f - fine

a - and - 35-50%
s - some - 20-35%
l - little - 10-20%
t - trace - 0-10%

S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
			8		Start: 8:15 AM
1			7	***Crushed Stone (dry)***	12" rec
			6		0.6 ppm
2			16		
			9		
3			10	***Crushed Stone (dry)***	15" rec
			10		0.0 ppm
4			17		
			5		
5			6	***Sand(medium/dark grey/brown - moist)***	10" rec
			6		33.4
6			8		
			11		
7			9	***Silty CLAY (red/brown - moist)***	18" rec
			11	***Sand(brown - fine - moist)***	43.0 ppm
8			14		
			4		10" rec
9			5	***Clayey SILT (red/brown - wet/saturated)***	53.0 ppm
			13	***Sand(brown - fine - wet/saturated)***	
10			38		
			1		
11			1	***Medium Sand (dark grey - saturated)***	11" rec
			3	***Some Silt/Gravel (saturated)***	1.8 ppm
12			7		
			5		
13			8	***Medium Sand (medium grey - saturated)***	24" rec
			10	***Sand (lower 6" black- saturated)***	2.9 ppm
14			11		
			1		
15			2	***Medium Sand (black - degraded oil smell - saturated)***	24" rec
			4	***Clay (red/brown - rotten - saturated)***	
16			5		
17					
18					
19					
20					
21					
22					
23					
24					

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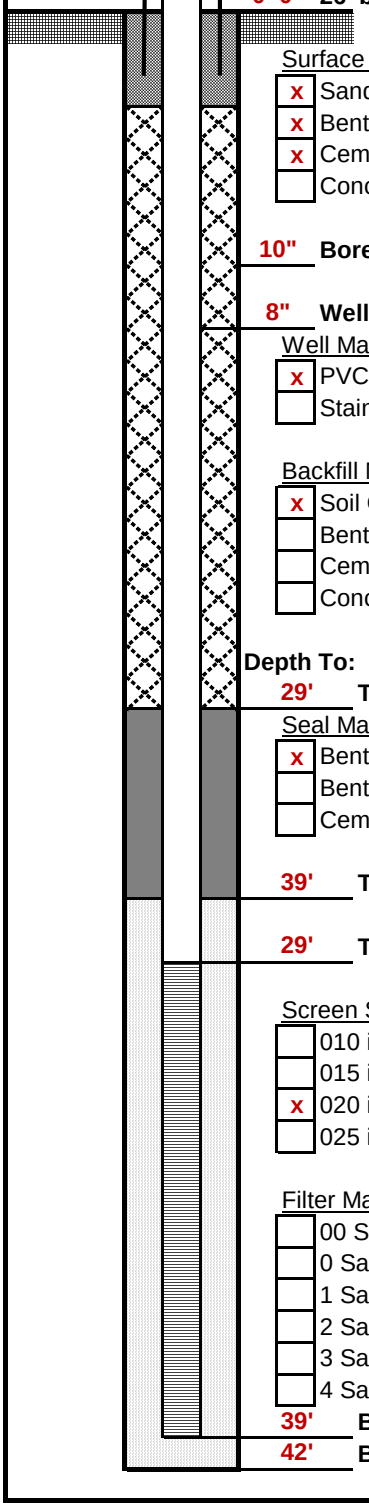
GROUNDWATER OBSERVATION WELL CONSTRUCTION LOG

Well No.	**MW-06**
Project No.:	K11.002.001
Surface Elev.:	
Datum:	26' bgs
Start Date:	8/14/13
Finish Date:	8/14/13
Inspector:	

Project Name:	Main St ROW Investigation		
Location:	MOB - Buffalo, NY		
Client:	Kaleida Health		
Drilling Firm:	SJB	**Driller:**	0
		Drill Rig:	CME 45C
		Casing:	0

Notes: (provide description of observation well location, method of construction, development method and any other information)

The observation well was constructed in Bore Hole B-3 upon completing the soil boring to depth of 25 feet below ground surface (bgs). Hollow Stem Augers (HSA) were used as the casing and the well was constructed inside the augers. Filter pack material and seal material were poured separately down the inside of the augers while the augers were retracted. Measurements were taken to asure that neither the filter pack or seal materials were bridging between the well and HSA. The well was developed by pumping to remove fine materials.



2'-9" Top Protective Casing
2'-6" Top of Riser
0'-0" 26' bgs.

Surface Backfill Material
- [x] Sand
- [x] Bentonite Slurry
- [x] Cement/Bentonite Grout
- [ ] Concrete

10" Bore Hole Diameter

8" Well Diameter

Well Material
- [x] PVC
- [ ] Stainless Steel

Backfill Material
- [x] Soil Cuttings
- [ ] Bentonite Slurry
- [ ] Cement/Bentonite Grout
- [ ] Concrete

Depth To:
29' Top of Seal

Seal Material
- [x] Bentonite Chips/Pellets
- [ ] Bentonite Slurry
- [ ] Cement/Bentonite Grout

39' Top of Filter Pack

29' Top of Screen

Screen Slot Size
- [ ] 010 in
- [ ] 015 in
- [x] 020 in
- [ ] 025 in

Filter Material
- [ ] 00 Sand Pack
- [ ] 0 Sand Pack
- [ ] 1 Sand Pack
- [ ] 2 Sand Pack
- [ ] 3 Sand Pack
- [ ] 4 Sand Pack

39' Bottom of Screen
42' Bottom of Bore Hole

Groundwater Measurement Data

Date	Time	Depth to Water	Water Elevation	Tide Status

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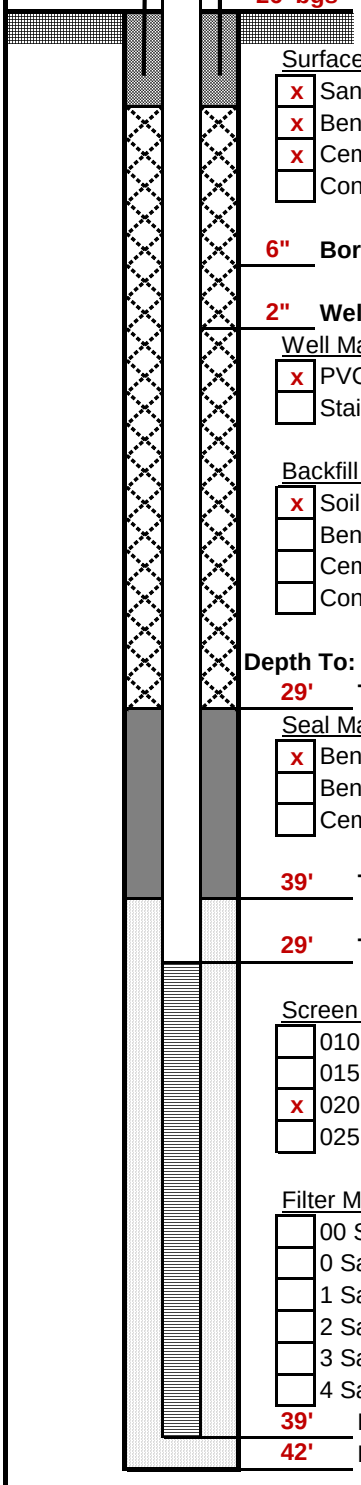
GROUNDWATER OBSERVATION WELL CONSTRUCTION LOG

Well No.	**MW-07**
Project No.:	K11.002.001
Surface Elev.:	
Datum:	26' bgs
Start Date:	8/16/13
Finish Date:	8/16/13
Inspector:	
Casing:	0

Project Name:	Main St ROW Investigation
Location:	MOB - Buffalo, NY
Client:	Kaleida Health
Drilling Firm:	SJB
Driller:	0
Drill Rig:	CME 45C

Notes: (provide description of observation well location, method of construction, development method and any other information)

The observation well was constructed in Bore Hole B-3 upon completing the soil boring to depth of 25 feet below ground surface (bgs). Hollow Stem Augers (HSA) were used as the casing and the well was constructed inside the augers. Filter pack material and seal material were poured separately down the inside of the augers while the augers were retracted. Measurements were taken to asure that neither the filter pack or seal materials were bridging between the well and HSA. The well was developed by pumping to remove fine materials.



2'-9" Top Protective Casing
2'-6" Top of Riser

26' bgs

Surface Backfill Material
- [x] Sand
- [x] Bentonite Slurry
- [x] Cement/Bentonite Grout
- [ ] Concrete

6" Bore Hole Diameter

2" Well Diameter

Well Material
- [x] PVC
- [ ] Stainless Steel

Backfill Material
- [x] Soil Cuttings
- [ ] Bentonite Slurry
- [ ] Cement/Bentonite Grout
- [ ] Concrete

Depth To:

29' Top of Seal

Seal Material
- [x] Bentonite Chips/Pellets
- [ ] Bentonite Slurry
- [ ] Cement/Bentonite Grout

39' Top of Filter Pack

29' Top of Screen

Screen Slot Size
- [ ] 010 in
- [ ] 015 in
- [x] 020 in
- [ ] 025 in

Filter Material
- [ ] 00 Sand Pack
- [ ] 0 Sand Pack
- [ ] 1 Sand Pack
- [ ] 2 Sand Pack
- [ ] 3 Sand Pack
- [ ] 4 Sand Pack

39' Bottom of Screen

42' Bottom of Bore Hole

Groundwater Measurement Data

Date	Time	Depth to Water	Water Elevation	Tide Status

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BORING LOG

Boring No.	**MW-07**
Sheet 1 of:	1
Project No.:	K11.002.001
Surface Elev.:	
Datum:	6. Surface
Start Date:	8/16/13
Finish Date:	8/16/13
Inspector:	N. Wohlabaugh

Project Name:	Main St ROW Investigation							
Location:	MOB - Buffalo, NY							
Client:	Kaleida Health							
Drilling Firm:	SJB			**Driller:**	**Tony**			
Groundwater	**Depth**	**Date & Time**		**Drill Rig:**	CME 45C			
While Drilling:				**Casing:**		**Rock Core:**	**Undist:**	
Before Casing Removal:				**Sampler:**		**Other:**		
After Casing Removal:				**Hammer:**	Auto			

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

c - coarse
m - medium
f - fine

a - and - 35-50%
s - some - 20-35%
l - little - 10-20%
t - trace - 0-10%

S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
			3		Start: 2:45 PM
1			5	***Crushed Stone (grey - dry)***	12" rec
			5		0.4 ppm
2			9		
			19		
3			16	***Sand (fine - red/brown - dry to moist)***	15" rec
			18	***Silt (red/brown - dry to moist)***	1.0 ppm
4			18		
			12		
5			17	***Sand (fine - red/brown - moist)***	16" rec
			18	***Silt (red/brown - moist)***	0.2 ppm
6			20		
			24		
7			24	***Sand (fine - red/brown - wet to saturated)***	23" rec
			28	***Silt (red/brown - wet to saturated)***	0.5 ppm
8			37		
			14		
9			16	***Sand (fine - red/brown - saturated)***	21" rec
			22	***Silt (red/brown - saturated)***	0.8 ppm
10			39		
			16		
11			28	***Silt (red/brown - wet)***	18" rec
			32	***Clay (red/brown - wet)***	0.1 ppm
12			31		
			25		
13			17	***Silt (red/brown - saturated)***	24" rec
			26	***Clay (red/brown - saturated)***	0.0 ppm
14			33		
			20		
15			19	***Silt (red/brown - moist to wet)***	19" rec
			19	***Gravel (red/brown - moist to wet)***	0.0 ppm
16			21		
17					
18					
19					
20					
21					
22					
23					
24					

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Well Sampling Field Data Sheet

Well Casing Unit Volume (gal/l.f.)		
1¼" = 0.08	2" = 0.17	3" = 0.38
4" = 0.66	6" = 1.5	8" = 2.6

Client Name: Kaleida Health
Site Name: CONVENTUS
Project No.: N96
Field Staff: RICH BACHERT

WELL DATA

Date		12/3/19	12/3/19	12/3/19	12/3/19	12/4/19	12/4/19	12/4/19	12/4/19
Well Number		MS-MW01	MS-MW2	MS-MW3	MS-MW4	BCP MW1	BCP MW7	BCP MW4	BCP MW3
Diameter (inches)		2"	2"	2"	2"	2"	2"	2"	8"
Total Sounded Depth (feet)		36'	36'	40'	40'	15 FT.	15 FT.	15 FT.	15 FT.
Static Water Level (feet)		21.9'	30.3'	29.9	29.9	7.0 FT	9.8 FT.	6.9 FT.	7.0 FT.
H_2O Column (feet)		15.9	5.7	10.1	10.6	8.0	5.2 FT.	8.1 FT.	8.0
Pump Intake (feet)									
Well Volume (gallons)									
Amount to Evacuate (gallons)		2gal	2gal	1gal	3gal	2gal	2gal	3gal	2gal
Amount Evacuated (gallons)		2gal	2gal	1gal	3gal	2gal	2gal	3gal	2gal

DEPTH TO WATER

FIELD READINGS

Date	Stabilization Criteria	12/3/19	12/3/19	12/3/19	12/3/19	12/4/19	12/4/19	12/4/19	12/4/19
Time		11:28	12:02	12:42	1:31	11:28	11:56	12:25	12:55
pH (Std. Units)	+/-0.1	7.19	7.58	8.27	8.80	5.65	7.15	5.68	6.80
Conductivity (mS/cm)	3%	6.71	38.4	37.7	6.38	7.99	4.33	5.38	10.5
Turbidity (NTU)	10%	42.4	0.00	0.00	[illegible]	-	-	-	-
D.O. (mg/L)	10%	8.42	14.48	17.75	4.92	2.95	1.67	1.24	13.17
Temperature (°C) (°F)	3%	14.4°C	15.04°C	13.39°C	13.78°C	13.56°C	14.39°C	14.77°C	14.97°C
ORP[3](mV)	+/-10 mv	188	211	203	1666	9	51	-13	124
Appearance		CLEAR	CLEAR	ST	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR
Free Product (Yes/No)		YES	YES	YES	YES	YES	YES	YES	YES
Odor		NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
Comments		* power supply error for lamp - error displayed on screen may effect ntu reading.							

C = Clear T = Turbid ST = Semi Turbid VT = Very Turbid

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Phone: 716-847-1630
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Well Sampling Field Data Sheet

Well Casing Unit Volume (gal/l.f.)		
1¼" = 0.08	2" = 0.17	3" = 0.38
4" = 0.66	6" = 1.5	8" = 2.6

Client Name: ICALEDIA HEALTH
Site Name: CONVENTUS
Project No.: N46
Field Staff: RICH BAUMERT

WELL DATA

Date		12/4/19	12/4/19						
Well Number		RCPMW6	BCPMW5						
Diameter (inches)		8"	2"						
Total Sounded Depth (feet)		15	18						
Static Water Level (feet)		7.1	7.9						
H_2O Column (feet)		7.9	7.2						
Pump Intake (feet)									
Well Volume (gallons)									
Amount to Evacuate (gallons)		2gal	2gal						
Amount Evacuated (gallons)		2gal	2gal						

FIELD READINGS

Date	Stabilization Criteria	12/4/19	12/4/19						
Time		1:48	2:15						
pH (Std. Units)	+/-0.1	10.40	7.60						
Conductivity (mS/cm)	3%	13.3	10.4						
Turbidity (NTU)	10%	-	-						
D.O. (mg/L)	10%	4.21	2.00						
Temperature (°C) (°F)	3%	14.12°C	14.96°C						
ORP[3](mV)	+/-10 mv	32	-29						
Appearance		CLEAR	CLEAR						
Free Product (Yes/No)		YES	YES						
Odor		NONE	MINOR						
Comments		* MW5 → MINOR PETRO ODOR							

C = Clear T = Turbid ST = Semi Turbid VT = Very Turbid

APPENDIX C

IN SITU PRODUCT INFORMATION

RegenOx™

CHEMICAL OXIDATION REDEFINED...

RegenOx™ is an advanced in situ chemical oxidation technology designed to treat organic contaminants including high concentration source areas in the saturated and vadose zones*

PRODUCT FEATURES:

- Rapid and sustained oxidation of target compounds
- Easily applied with readily available equipment
- Destroys a broad range of contaminants
- More efficient than other solid oxidants
- Enhances subsequent bioremediation
- Avoids detrimental impacts to groundwater aquifers

RegenOx product application

HOW IT WORKS:

RegenOx maximizes in situ performance using a solid alkaline oxidant that employs a sodium percarbonate complex with a multi-part catalytic formula. The product is delivered as two parts that are combined and injected into the subsurface using common drilling or direct-push equipment. Once in the subsurface, the combined product produces an effective oxidation reaction comparable to that of Fenton's Reagent without a violent exothermic reaction. RegenOx safely, effectively and rapidly destroys a wide range of contaminants in both soil and groundwater (Table 1).

ACHIEVES RAPID OXIDATION VIA A NUMBER OF MECHANISMS

RegenOx directly oxidizes contaminants while its unique catalytic complex generates a suite of highly charged, oxidative free radicals that are responsible for the rapid destruction of contaminants. The mechanisms by which RegenOx operates are:

- **Surface- Mediated Oxidation: (see Figure 1 and description below)**
- **Direct Oxidation:** $C_2Cl_4 + 2\ Na_2CO_3 \bullet 3\ H_2O_2 + 2\ H_2O \longleftrightarrow 2CO_2 + 4\ NaCl + 4\ H_2O + 2\ H_2CO_3$
- **Free Radical Oxidation:**
  - Perhydroxyl Radical ($HO_2\bullet$)
  - Hydroxyl Radical ($OH\bullet$)
  - Superoxide Radical ($O_2\bullet$)

Figure 1. RegenOx™ Surface-Mediated Oxidation

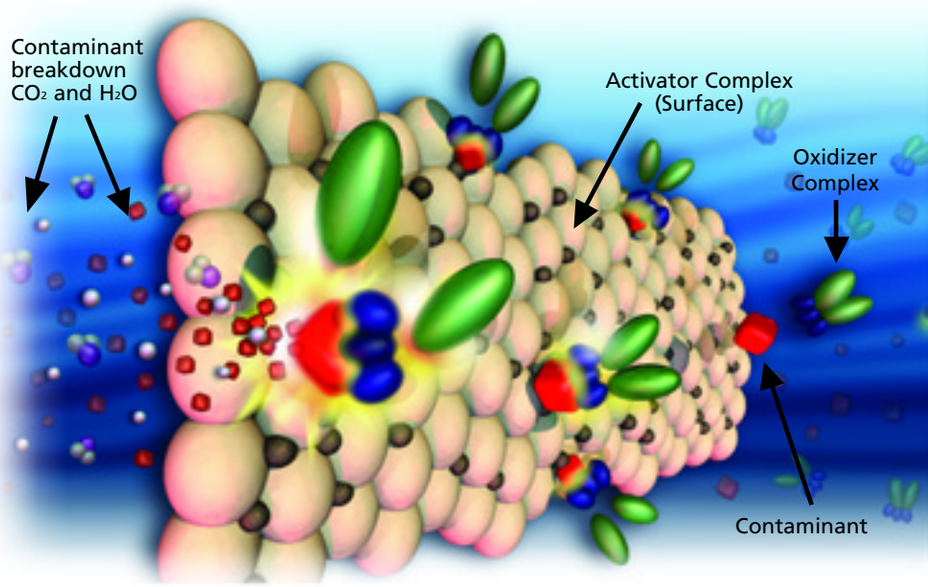

Figure 1. Surface-Mediated Oxidation is responsible for the majority of RegenOx contaminant destruction. This process takes place in two stages. First, the RegenOx activator complex coats the subsurface. Second, the oxidizer complex and contaminant react with the activator complex surface destroying the contaminant.

* Patent applied for

RegenOx™

From Mass Reduction to Bioremediation:

RegenOx™ is an effective and rapid contaminant mass reduction technology. A single injection will remove significant amounts of target contaminants from the subsurface. Strategies employing multiple Regenox injections coupled with follow-on accelerated bioremediation can be used to treat highly contaminated sites to regulatory closure. In fact, RegenOx was designed specifically to allow for a seamless transition to low-cost accelerated bioremediation using any of Regenesis controlled release compounds.

Significant Longevity:

RegenOx has been shown to destroy contaminants for periods of up to one month.

Product Application Made Safe and Easy:

RegenOx produces minimal heat and as with all oxidants proper health and safety procedures must be followed. The necessary safety guidance accompanies all shipments of RegenOx and additional resources are available on request. Through the use of readily available, highly mobile, direct-push equipment and an array of pumps, RegenOx has been designed to be as easy to install as other Regenesis products like ORC® and HRC®.

Effective on a Wide Range of Contaminants:

RegenOx has been rigorously tested in both the laboratory and the field on petroleum hydrocarbons (aliphatics and aromatics), gasoline oxygenates (e.g., MTBE and TAME), polyaromatic hydrocarbons (e.g., naphthalene and phenanthrene) and chlorinated hydrocarbons (e.g., PCE, TCE, TCA).

Oxidant Effectiveness vs. Contaminant Type:

Table 1

Contaminant	RegenOx™	Fenton's Reagent	Permanganate	Persulfate	Activated Persulfate	Ozone
Petroleum Hydrocarbons	**A**	**A**	B	B	B	**A**
Benzene	**A**	**A**	D	B	B	**A**
MTBE	**A**	B	B	C	B	B
Phenols	**A**	**A**	B	C	B	**A**
Chlorinated Ethenes (PCE, TCE, DCE, VC)	**A**	**A**	**A**	B	**A**	**A**
Chlorinated Ethanes (TCA, DCA)	**A**	B	C	D	C	B
Polycyclic Aromatic Hydrocarbons (PAHs)	**A**	**A**	B	B	**A**	**A**
Polychlorinated Biphenyls (PCBs)	B	C	D	D	D	B
Explosives (RDX, HMX)	**A**	**A**	**A**	**A**	**A**	**A**

Based on laboratory kinetic data, thermodynamic calculations, and literature reports.

Oxidant Effectiveness Key:

A = Short half life, low free energy (most energetically favored), most complete
B = Intermediate half life, low free energy, intermediate degree of completion
C = Intermediate half life, intermediate free energy, low degree of completion
D = Long half life, high free energy (least favored), very low degree of completion

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OXYGEN RELEASE COMPOUND

Controlled-Release Oxygen for Enhanced Aerobic Biodegradation

The original Oxygen Release Compound (ORC®) is a fine, powdery material comprised of a patented formulation of phosphate-intercalated magnesium peroxide. The intercalation or embedding of phosphates within the magnesium peroxide is Regenesis' patented, controlled-release mechanism. Upon hydration, ORC is designed to produce a controlled-release of oxygen (10% by weight) into the subsurface in accordance with the following reaction:

$$MgO_2 + H_2O \rightarrow 1/2\ O_2 + Mg(OH)_2$$

This process can proceed for periods of up to one year depending on site conditions. In the presence of this long-lasting oxygen source, aerobic microbes flourish - accelerating the naturally slow rates of aerobic biodegradation.

Product Benefits

By enhancing bioremediation using ORC, in-situ treatment of contaminants can result in an efficient, simple and costeffective alternative to traditional technologies. With low capital costs, no operations and maintenance, minimal site disturbance and proven effectiveness, ORC can restore water quality and property values at a reasonable cost.

Subsurface Emplacement

- Direct – Push Injection
- Hollow Stem Augers
- Replaceable Filter Socks (existing wells)
- Excavations
- Trenches
- *Ex Situ* biophiles

Treatable Contaminants

ORC can treat a wide range of contaminants and most any aerobically degradable compound including: gasoline and fuel additives (BTEX and MTBE), diesel, kerosene, jet fuel, gas condensates, fuel oils, lubricants, bunker oil, PAHs, certain pesticides/herbicides and certain industrial solvents (alcohols and ketones).

Material Application

Most contaminated sites are treated using ORC slurry which is a prescribed and easily injectable water and ORC mixture (Figure 2). The direct-push injection of ORC slurry maximizes ORC and oxygen distribution in the subsurface increasing the range of enhanced biodegradation. ORC is dosed in pounds per vertical foot of material treated. The amount of ORC recommended depends greatly on various factors such as contaminant concentrations, oxygen sinks, groundwater flow rates and subsurface geology. It is recommended that a Regenesis Technical Services Representative be contacted for detailed design information. ORC treatment approaches or designs may consist of one, or combinations of the following: Source Area Grids, Plume Area Grids or Barriers, Excavations and Biopiles.