

2016

PERIODIC REVIEW REPORT

FOR

FORMER MOBIL SERVICE STATION 99-MST
979 MAIN STREET (1001 MAIN STREET)
NYSDEC SITE #C915260
CITY OF BUFFALO, ERIE COUNTY, NEW YORK

Prepared by:



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Prepared on Behalf of:

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KALEIDA PROPERTIES, INC.
F.L.C 50 HIGH STREET CORPORATION

APRIL 2016

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ACRONYM LIST

C&S	C&S ENGINEERS, INC.
BGS	BELOW GROUND SURFACE
BCP	BROWNFIELD CLEANUP PROGRAM
BCA	BROWNFIELD CLEANUP AGREEMENT
BTEX	BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE
DUSR	DATA USABILITY AND SUMMARY REPORT
LNAPL	LIGHT NON-AQUEOUS PHASE LIQUID
IRM	INTERIM REMEDIAL MEASURES
NYSDEC	NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
PCOC	PRIMARY CONTAMINATE OF CONCERN
PID	PHOTO-IONIZATION DETECTOR
PPM	PARTS PER MILLION
RI	REMEDIAL INVESTIGATION
SCO	SOIL CLEANUP OBJECTIVES
SMP	SITE MANAGEMENT PLAN
SVOC	SEMI-VOLATILE ORGANIC COMPOUNDS
VOC	VOLATILE ORGANIC COMPOUNDS

EXECUTIVE SUMMARY

C&S Engineers, Inc. (C&S) has prepared this 2016 Periodic Review 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 conduct in-situ injections by gravity feeding chemical oxidants into the groundwater bearing zone. A total of 2,480 pounds of chemical oxidant was used over three treatment events. Treatments occurred from December 2013 to June 2015. Groundwater samples following the in-situ injections show minor reductions in petroleum compounds.

In 2016, C&S conducted a limited groundwater extraction on the wells with the highest contaminant levels. Contaminated groundwater was pumped from the wells and treated with 200 pounds of activated carbon before discharging into the sanitary sewer. A total of 4,762.2 gallons of contaminated groundwater was removed. Groundwater samples collected in December 2015, January 2016 and March 2016 showed a slight reduction in petroleum compound concentrations.

All institutional and engineering controls are in compliance with the SMP. To address the continued elevated concentrations of petroleum compounds in the groundwater, C&S recommends the completion of additional treatment methods, such as the installation and operation of a pump and treat system on one of the 8-inch diameter wells in addition to the implementation of a slow release chemical oxidation method.

The Institutional and Engineering Controls Certification form is provided in Appendix B.

1 SITE OVERVIEW

1.1 Site Description

The Site is located in the City of Buffalo County of Erie County, New York and is identified below on the Erie County Tax Map.

SBL: 100.79 – 1- 1.1

Street Number: 1001 Main Street, Buffalo

(formerly 979 Main Street)

Owner: Kaleida Properties, Inc.

SBL: 100.79-1-2.11

Street Number: 818 Ellicott Street, Buffalo

Owner: Kaleida Health

The Site is an approximately 1.72-acre area bounded by Goodrich Street to the north, High Street to the south, parking lot to the east, and Main Street to the west (see Figure 1 and 2).

1.2 Geology and Hydrogeology

The Conventus Medical Office Building currently occupies the Site. During remedial activities, steel shoring was installed to a depth of 40 to 50 feet below grade around the Site. Across the majority of the Site, soils were excavated to 26 feet below ground surface (bgs). Two floors of underground parking were constructed underneath the Conventus building.

The Site geology begins at 26 feet bgs. Subsurface soils consist of 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.

The principal groundwater bearing zone beneath the site is located within the coarse sand and gravel layer between 32 and 35 feet bgs. This layer is of variable thickness (generally 6 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 and is confined by the dense fine sands and silt above and below the groundwater bearing zone.

1.3 Nature and Extent of Contamination

During the Interim Remedial Measure (IRM), grossly contaminated soil and groundwater were removed from the Site. In total, 67,458 tons of soils were sent for disposal or treatment due to gasoline contamination. The remaining contamination left on-site consists of petroleum impacted groundwater. Groundwater sampling that occurred prior to the IRM confirmed that the Primary Contaminants of Concern (PCOCs) are limited to petroleum hydrocarbons.

Groundwater flows within the coarse sand/gravel groundwater bearing zone to the northeast. Groundwater recharge from the surface has been eliminated due to the concrete floor of the parking garage, which effectively covers 100% of the Site recharge area. Additionally, below grade migration has been effectively stopped by the presence of deep sheet piling that cuts off the groundwater bearing zone from the remaining off-site formation. The lack of a vertical recharge from the surface and the horizontal containment in the groundwater bearing zone effectively contains the remaining groundwater on-site and reduces the future contaminant loading into the surrounding off-site formation.

Although the off-site portion of the groundwater-bearing formation contains contamination, this remaining offsite contamination is prevented from flowing back on-site due to the steel sheeting system. Therefore, the contaminant plume is limited to the extent of the groundwater bearing zone within the Site boundaries.

1.4 Site History

Contamination is related to the historic use of the property as a gas station and originally was sourced from leaking underground storage tanks located above the “Deep Excavation Area” (see Figure 3).

For over 40 years, the light non-aqueous phase liquid (LNAPL) filtered downward from the base of the tank to a depth of approximately 40 feet bgs. LNAPL intercepted the groundwater at approximately 32 feet bgs. The water table is present within a 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. Because of low carbon in the fine sand silt and gravel formations, breakdown of benzene, toluene, ethylbenzene and xylene (BTEX) compounds was slow. This resulted in high volatile organic compounds (VOC) soil gas in the unsaturated zone below the release area and the continual loading of BTEX into the groundwater from the LNAPL. Soil Contamination (exceeding Residential Use SCOs), below the LNAPL layer was noted to extend to a depth of 35 to 40 feet bgs. This area has been identified as the Source Area for groundwater contamination.

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 coarse sand/gravel lens).

To redevelop the property into a medical office building, the Applicants (BCP F..L.C. 50 High Street, Corporation, Kaleida Health, Kaleida Properties, Inc. and Conventus Partners, LLC) acting as Brownfield Cleanup Program (BCP) Volunteers, submitted a BCP Application for the Site on November 28, 2011. The Applicants and the New York State Department of Environmental Conservation (NYSDEC) signed the Brownfield Cleanup Agreement (BCA) on June 15, 2012.

The NYSDEC approved IRM was implemented on January 2013. The following is a summary of the IRM performed at the Site:

1. Excavation of soil/fill exceeding restricted residential SCO's to 26 feet bgs;
2. Excavation of soil from the source area to 40 feet bgs;
3. Removal of LNAPL and contaminated groundwater;
4. Backfilling with clean fill and construction of concrete floor;
5. Backfilling the source area with flowable fill; and
6. Execution and recording of an Environmental Easement to restrict land use and prevent future exposure to any contamination remaining at the Site.

The removal of soils in the source area ("Area of Deep Excavation" in Figure 3) also included the removal of the groundwater bearing zone. During soil removal, 1997 tons of groundwater and LNAPL was removed from the excavation and properly disposed off-site. The groundwater bearing zone within the source area was replaced with flowable fill, sealing this area off from the adjacent groundwater bearing zone beneath the Site.

Remedial activities were completed at the Site in October 2013. Implementation of the IRM, including source removal, was effective in removing any remaining free product grossly contaminated soils and the groundwater containing the highest dissolved BTEX. However, residual groundwater contamination remains on-site.

Following mass excavation activities, seven new wells were installed on-site.

Table 1-1: Post-Remediation Wells

Well ID	Diameter
BCP-MW-1	2"
BCP-MW-2	8"
BCP-MW-3	8"

BCP-MW-4	2"
BCP-MW-5	2"
BCP-MW-6	8"
BCP-MW-7	2"

Note that one well (BCP-MW-2) was installed adjacent to the flowable fill within the Source Area. This well did not produce water. A second well, BCP-MW-6, was installed along the western side of the deep excavation, along the tiered excavation area and did intercept the portion of the groundwater bearing zone remaining along the shoring. This well did produce water for sampling. All other wells were installed through native materials and the gravel water bearing layer. All wells were installed to an approximate depth of 43 feet below surrounding grade (approximately 16 feet below basement floor elevation).

The monitoring well locations were located in areas of previously identified groundwater contamination and to the south of the plume to confirm that contamination had not moved off-site to the south.

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. This provides additional evidence that groundwater and petroleum contamination are limited to the coarse sand and gravel layer 32 to 35 feet bgs.

1.4.1 In-situ Injections

To address the residual contamination, oxidizing chemicals were applied to the area through direct injection into the following wells:

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

In-situ treatment consists of gravity-feeding a chemical oxidizer mixed with water directly into monitoring wells. The first application of treatment solution was RegenOX and Klozur persulfate. For the first application, BCP-MW-6 was treated only with RegenOX because of this well's close proximity to the earth retention sheeting and need to maintain the integrity of the steel sheeting.

After the first application C&S became aware that the Klozur persulfate and the associated iron activator treatment plugged MW-3 and MW-5. In March 2013, sediment was removed and flushed out of these monitoring wells. For the second injection, RegenOX was used on BCP-MW-3, BCP-MW-5 and BCP-MW-6. Table 1-2 shows an estimated breakdown of the amount of treatment products used in each monitoring well.

Table 1-2: Treatment Product

Date	Pounds of Treatment Product			
	BCP-MW-3	BCP-MW-4	BCP-MW-5	BCP-MW-6
12/12/2013				100
12/18/2013	880		880	
7/28/2014	100		100	100
6/24/2015	100	100	40	80
Total	1,080	100	1,020	280

Purple Text – RegenOX used to treat well

Orange Text – Klorur persulfate only (iron activator not included)

On March 11, 2015, C&S mobilized to the Site to conduct groundwater monitoring. During the round of water level measurements prior to the initiation of sampling, C&S encountered dry conditions in each of the monitoring wells. Dry conditions were observed in BCP-MW-1, BCP-MW-2 and BCP-MW-6 from March 2015 to June 2015. Since that time, groundwater has returned to normal levels.

Table 1-3 presents groundwater level measurements and Table 1-4 presents water column measurements since the construction of the sub-basement monitoring wells. Water column is calculated by subtracting depth to the bottom of the well from the groundwater level.

Table 1-3: Groundwater Levels (Feet)

DATE	BCP-MW-1	BCP-MW-2	BCP-MW-3	BCP-MW-4	BCP-MW-5	BCP-MW-6	BCP-MW-7
9/20/2013	33.8	40*	31	33.6	31.3	33.6	30.8
3/19/2014	34.9	40*	30.3	33.6	29.4	34.8	31.55
5/22/2014	28.6	40*	33.53	29.4	34.57	30.42	31.53
3/11/2015	38.9	40*	33.8	33.5	35.05	40*	37.8
4/13/2015	38.4	40*	33.4	33.25	34.5	40*	38.7
6/10/2015	34.9	40*	32.5	32.55	33.9	34.8	36.4
6/17/2015	37	40*	32.7	32.45	33.75	34.6	36.3
7/15/2015	34.1	40*	35.1	32.6	33.2	33.9	36
8/3/2015	33.7	40*	32.4	31.75	32.3	33.6	35.9

* Indicates no water in well.

1) Groundwater depth is measured from ground surface (feet)

Table 1-4: Water Column (Feet)

DATE	BCP-MW-1	BCP-MW-2	BCP-MW-3	BCP-MW-4	BCP-MW-5	BCP-MW-6	BCP-MW-7
9/20/2013	6.2	0	9	6.4	8.7	6.4	9.2
3/19/2014	5.1	0	9.7	6.4	10.6	5.2	8.45

5/22/2014	11.4	0	6.47	10.6	5.43	9.58	8.47
3/11/2015	1.1	0	6.2	6.5	4.95	0	2.2
4/13/2015	1.6	0	6.6	6.75	5.5	0	1.3
6/10/2015	5.1	0	7.5	7.45	6.1	5.2	3.6
6/17/2015	3	0	7.3	7.55	6.25	5.4	3.7
7/15/2015	5.9	0	4.9	7.4	6.8	6.1	4
8/3/2015	6.3	0	7.6	8.25	7.7	6.4	4.1

1) Depth from bottom of the well

Groundwater levels have returned to normal conditions. It is unclear why groundwater levels dropped and returned so quickly.

1.4.2 Groundwater Pump and Treat

Limited groundwater extraction was conducted on-site to determine if contaminant levels could be reduced using pump and treat techniques. Initially groundwater extraction occurred for four consecutive days (12/14/15 – 12/17/16). After the initial extraction, groundwater pumping occurred once a week for three months (13 groundwater extraction events).

Groundwater was removed using submersible electric pumps. Groundwater was transferred into a 55-gallon steel drum with 200 pounds of activated carbon. C&S obtained a temporary discharge permit from the Buffalo Sewer Authority to discharge treated groundwater into a sanitary sewer sump located in the sub-basement of the building. Discharge samples were collected and analyzed for VOCs. Sample results indicate that the activated carbon treatment removed 99% - 100% of VOCs in the groundwater.

The waste water discharge permit is provided in Appendix C.

Table 1-5: Gallons Removed from Monitoring Wells

DATE	BCP-MW-1	BCP-MW-2	BCP-MW-3	BCP-MW-4	BCP-MW-5	BCP-MW-6	BCP-MW-7
12/14/2015	12	--	39	--	--	155	--
12/15/2015	--	--	34	24	3	143	10
12/16/2015	70.5	--	30	56.8	1.7	97	1.7
12/17/2015	--	--	62	58.5	3.4	117	--
12/23/2015	--	--	58.5	86	--	149.6	--
12/29/2015	--	--	44.7	120.5	--	168.2	--
1/6/2016	--	--	56.5	215	--	--	--
1/12/2016	--	--	81.8	42.3	5.5	173.8	--
1/22/2016	--	--	80	56.6	--	137.2	--
1/27/2016	--	--	80	110	3	118	--
2/5/2016	--	--	76.8	115.3	--	160.7	--
2/15/2016	--	--	67.1	81.8	--	144.6	--

2/18/2016	--	--	67	110	10	295.5	--
2/26/2016	--	--	70	91	11	158.6	--
3/4/2016	--	--	75	139	10	176	--
3/11/2016	--	--	76	55	11	55	--
Totals	82.5	0	998.4	1,361.8	58.6	2,249.2	11.7

Total volume of contaminated groundwater removed is 4,762.2 gallons.

2 REMEDY PERFORMANCE, EFFECTIVENESS AND PROTECTIVENESS

2.1 In-situ Chemical Oxidation

Graph 1 shows total BTEX concentrations over time. Figure 3 shows the historic BTEX concentrations from each well. Concentrations of VOCs in the groundwater have shown a modest decrease after the initial December 2013 treatment but has slowly rebounded over the following 25 months.

Table 2-1: Total BTEX Concentrations (ug/L)

WELL ID	SEPTEMBER 2013	AUGUST 2015
BCP-MW-1	0	83
BCP-MW-3	11,610	9,830
BCP-MW-4	76.8	4,162
BCP-MW-5	17,670	16,990
BCP-MW-6	1,880	4,100
BCP-MW-7	0.51	0

Sample results from the first groundwater sampling event in September 2013 and the sampling event prior to the pump and treat activities in August 2015 show reductions in BTEX concentrations in BCP-MW-3. BCP-MW-7 had no detections above NYSDEC standards. BCP-MW-5 has remained relatively constant. BTEX concentrations have increased in BCP-MW-4 and in BCP-MW-6 since September 2013. Groundwater sampling events from September 2013 to May 2014 detected no BTEX compounds; however, in the last two groundwater monitoring events (March and June 2015) BCP-MW-1 has exceedances of benzene and toluene.

Overall, chemical oxidation has had minimal success in reducing BTEX concentrations. One possible reason for the inefficient oxidation is not using an activator for the sodium percarbonate. C&S worked with Regenesis to develop a chemical oxidant solution that would be safe for the metal shoring and would not clog the well screens with an iron activator. The past injections have only used the sodium percarbonate without the activator. An alternative product will need to be considered for future in-situ injections.

2.2 Groundwater Pump and Treat

The pre-pumping August 3, 2015 sampling results provide a comparison to the post-pumping results of December 2015 (see Table 1 – Groundwater Analytical Results at the end of this report). Compared to the sampling conducted prior to the groundwater extraction, wells BCP-MW-3, 5 and 6 show a 40% - 80% reduction in BTEX concentrations, although concentrations BCP-MW-4 have remained relatively static.

While these results have been observed in only three wells it does show that a pump and treat system may be effective for this Site.

3 IC/EC PLAN COMPLIANCE REPORT

3.1 IC/EC Requirements and Compliance

As stated in the 2014 Decision Document, the remedial action objectives (RAO) selected for this Site are:

RAOs for Public Health Protection

- Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of volatiles, from contaminated groundwater.

RAOs for Environmental Protection

- Restore ground water aquifer to pre-disposal/pre-release conditions, to the extent practicable.
- Prevent the discharge of contaminants to surface water.

3.1.1 Institutional Controls

The institutional controls for this Site are:

- The Site may only be used for restricted residential use provided that the long-term Engineering and Institutional Controls included in this SMP are employed;
- The Site may not be used for a higher level of use, unrestricted or residential use, without additional remediation and amendment of the Environmental Easement, as approved by the NYSDEC;
- All future activities on the Site that will disturb remaining contaminated material must be conducted in accordance with this SMP;
- The use of the groundwater underlying the Site is prohibited by the City of Buffalo; and
- Vegetable gardens and farming on the Site are prohibited.

The Site has not changed owners and the land use of the Site has not change. All intuitional controls for this Site are in accordance with requirements of the Environmental Easement.

3.1.2 Engineering Controls

The engineering controls for this Site are:

- Groundwater treatment and monitoring using the seven wells installed in the sub-basement of the building

All engineering controls for this Site are in accordance with requirements of the Environmental Easement.

3.2 IC/EC Certification

As required, the Site Management Periodic Review Report Notice – Institutional and Engineering Controls Certificate Form has been completed and a copy is provided in Appendix B.

4 MONITORING PLAN COMPLIANCE REPORT

The SMP identified the need for continued monitoring of groundwater conditions at the Site, including the periodic measuring of water levels and collecting groundwater samples for volatile organic compound (VOC) analysis.

The following monitoring wells are included in the groundwater monitoring plan:

- BCP-MW-1
- BCP-MW-2
- BCP-MW-3
- BCP-MW-4
- BCP-MW-5
- BCP-MW-6

All monitoring wells were sampled with the exception of BCP-MW-2, which has remained dry since its installation.

The groundwater monitoring activities included the collection of depth-to-water measurements at each monitoring well and the collection of groundwater samples for laboratory analysis. Groundwater sampling was conducted in accordance with the U.S. Environmental Protection Agency Low flow sample procedure. Groundwater sample occurred on the dates below:

September 20, 2013	October 7, 2015
March 19, 2014	December 14, 2015
May 22, 2014	January 27, 2016
March 11, 2015	March 22, 2016
June 17, 2015	
August 3, 2015	

Figure 3 shows the location of the groundwater wells in the sub-basement of the Conventus building.

Table 1, attached to this letter, presents detected compounds over all monitoring events.

5 OPERATION AND MAINTENANCE PLAN COMPLIANCE

The only maintenance items are those associated with the monitoring wells. Minor maintenance to the well caps, PVC risers and road boxes is recommended for some of the monitoring wells. These issues do not interfere with groundwater monitoring or the integrity of the samples.

6 CONCLUSIONS AND RECOMMENDATIONS

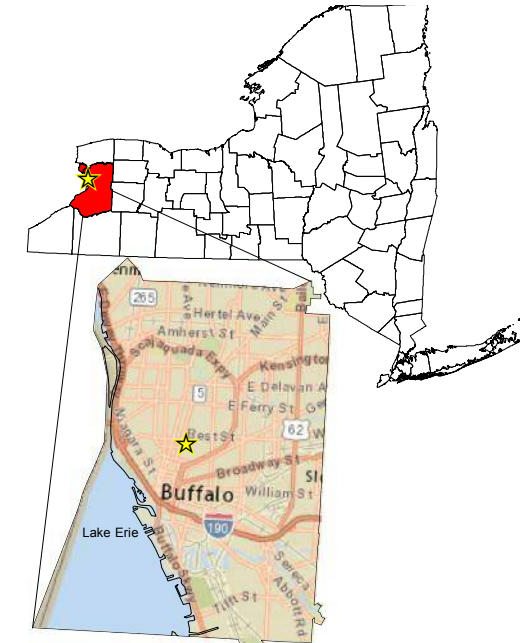
Based upon the remedial activities performed, the following conclusions have been formulated:

- All of the required work was completed and is reported herein.
- The remedial activities performed at the Site have prevented any adverse risk to human health and the environment.

In situ treatment and monitoring will continue until BTEX concentrations have decreased to levels below NYSDEC standard/guidance levels or have become asymptotic to a low level over an extended period of time as accepted by the NYSDEC. To address the continued elevated concentrations of petroleum compounds in the groundwater, C&S recommends the completion of additional treatment methods, such as an alternative treatment chemical oxidant product, the installation and operation of a pump and treat system on one of the 8-inch diameter wells in addition to the implementation of a slow release chemical oxidation method.

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FIGURES



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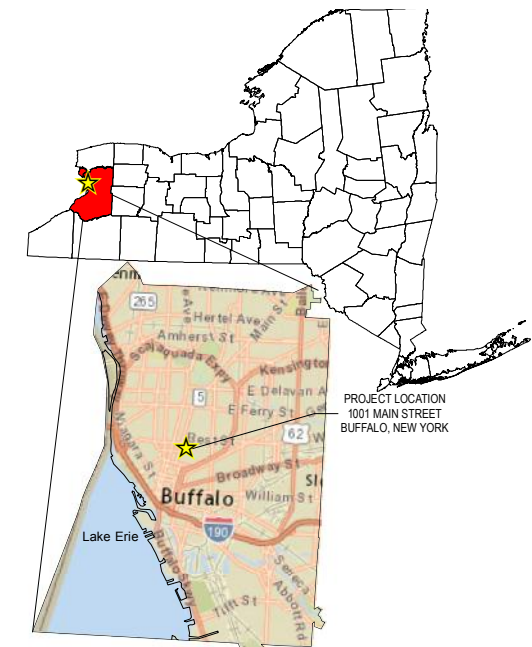


**FORMER MOBIL STATION 99-MST
979 MAIN ST (1001 MAIN ST)
PERIODIC REVIEW REPORT**

MAR	DATE	DESCRIPTION
REVISONS		
PROJECT NO: K11.002.001		
DATE: APRIL 20, 2016		
DRAWN BY: C. MARTIN		
DESIGNED BY: C. MARTIN		
CHECKED BY: D. RIKER		
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW		

SITE LOCATION

FIGURE 1



Parcel Boundary

Brownfield Cleanup Program Boundary

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.

- 1) Groundwater elevation benchmark.
- 2) Coordinate System: NAD 1983 StatePlane NY West FIPS 3103
Projection: Transverse Mercator
Datum: North American 1983
Units: Foot US



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**FORMER MOBIL STATION 99-MST
979 MAIN ST (1001 MAIN ST)
BROWNFIELD CLEANUP PROGRAM**

MARX	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: K11.002.001		
DATE: May 4, 2016		
DRAWN BY: C. MARTIN		
DESIGNED BY: C. MARTIN		
CHECKED BY:		
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW		

PROJECT BOUNDARIES

FIGURE 2

TABLES

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

NYSDEC Ambient Water Quality Standards & Guidance Values Volatile Organic Compound	Sample Name	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-5	MW-5	MW-5
	Date Collected	9/20/2013	3/19/2014	5/22/2014	3/11/2015	6/17/2015	8/3/2014	12/15/2015	3/22/2016	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	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	9/20/2013	3/19/2014	5/22/2014		
	Matrix	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	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	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
	Surface Water	Groundwater																														
2-HEXANONE	50	50	ND	ND	ND		ND	ND	3.5	ND	ND	ND	3	ND	ND	ND	ND	ND	ND	ND	ND	1.7	ND	ND	ND	ND	ND	11	ND	ND		
ACETONE	50	50	ND	ND	ND		ND	ND	ND	ND	98	ND	17	ND	ND	ND	ND	ND	10	250	170	67	ND	210.00	ND	ND	ND	ND	520	ND		
BENZENE	1	1	ND	ND	ND		35	39	5.7	1.4	6,600	4,500	4,700	3,700	4,300	4,100	2,100	2,200	1,900	42	29	15	26	24	242	ND	21	ND	5,600	4,800	4,900	
ETHYLBENZENE	5	5	ND	ND	ND		2	1.5	ND	ND	1,200	1,600	1,500	1,600	1,500	1,700	1,400	1,600	1,600	4.7	34	32	560	1,000	680	1,100	1300	1,400	1,900	1,600	1,600	
ISOPROPYLBENZENE (CUMENE)	5	5	ND	ND	ND		1.3	ND	ND	ND	ND	37	ND	32	ND	ND	ND	ND	ND	ND	ND	9.8	15.0	26	ND	ND	ND	28	29	ND		
METHYL ETHYL KETONE (2-BUTANONE)	50	50	ND	ND	ND		ND	45	ND	ND	ND	71	ND	6.7	ND	ND	ND	ND	ND	ND	ND	8.50	ND	ND	ND	ND	10	350	ND			
METHYLENE CHLORIDE	5	5	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1 J	ND	ND	ND	ND	52	ND	ND	ND	ND	ND	
TOLUENE	5	5	ND	ND	ND		19	38	0.55	ND	110	150	150	110	110	130	100	110	110	1.1	190	110	53	57	140	180	270	150	170	220	310	
1,1,2-TRICHLOROETHANE										0.33 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
XYLENES, TOTAL	5	5	ND	ND	ND		6.4	4.2	ND	ND	3,700	3,600	3,200	4200	4000	3900	2200	2600	2200	29	180	160	800	1,200	3100	1,800	2600	2,100	10,000	6,800	8,300	
No Standard																																
CARBON DISULFIDE			ND	ND	0.94		ND	ND	ND	ND	ND	ND	0.31	ND	ND	ND	ND	ND	ND	ND	1.9 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CYCLOHEXANE			ND	ND	ND		35	59	61	51	120	320	270	390	330	210	100	93	110	8.2	11	7	170	170	110	160	220	250	230	340	240	
METHYL ISOBUTYL KETONE			ND	ND	ND		ND	13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	23	ND	ND	
METHYLCYCLOHEXANE			ND	ND	0.47		3.2	17	15	11	ND	130	150	120	160	96	34	33	36 J	7.5	3.7	3.1	87	92	69	86	100	110	100	170	150	
Total VOCs			0	0	1.41	-	101.90	216.70	85.75	63.40	11,730	10,506	9,970	10,179	10,400	10,136	5,934	6,636	5,920	102.5	697.7	497.1	1,774.5	2,566.5	4,577.0	3,326.0	4,563.0	4,010.0	18,072	14,829	15,500	
Total BTEX			0	0	0	-	62	83	6	1.4	11,610	9,850	9,550	9,610	9,910	9,830	5,800	6,510	5,810	76.8	433	317	1,439	2,281	4,162	3,080	4,191	3,650	17,670	13,420	15,111	

Notes:

1) BCP MW-2 was dry and not sampled

2) 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.

3) WG = groundwater

			Sample Name	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7		
			Date Collected	3/11/2015	6/17/2015	8/3/2015	12/15/2015	1/27/2016	3/22/2016		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	9/20/2013	3/19/2014	5/22/2014	3/11/2015	6/17/2015	8/3/2015	12/15/2015	
			Matrix	WG	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																								
2-HEXANONE		50	50		ND	ND	ND	ND	ND		ND	ND	ND		190	ND	ND	ND	ND	ND	ND	4.8		ND	ND	ND	
ACETONE		50	50		ND	ND	ND	ND	ND		ND	ND	ND		480	340	ND	ND	ND	ND	ND	3	ND		ND	ND	ND
BENZENE		1	1		3,700	4,100	1,800	1,800	1,700		190	33	16		470	890	250	230	200	0.51	8.8	14		ND	ND	ND	
ETHYLBENZENE		5	5		2,800	2,600	1,600	1,900	2,200		130	20	31		36	210	22	44	67	ND	ND	3		ND	ND	ND	
ISOPROPYLBENZENE (CUMENE)		5	5		ND	ND	ND	ND	ND		4.4	ND	1.9 J			ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	
METHYL ETHYL KETONE (2-BUTANONE)		50	50		ND	ND	ND	ND	ND		ND	ND	ND		110	ND	ND	ND	ND	ND	ND			ND	ND	ND	
METHYLENE CHLORIDE		5	5		ND	ND	ND	ND	77 J		ND	ND	ND		ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	
TOLUENE		5	5		290	290	70	80	88		810	42	79		1,000	1,900	85	120	78	ND	0.56	4.7		ND	ND	ND	
1,1,2-TRICHLOROETHANE					ND	ND	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND								
XYLENES, TOTAL		5	5		9,100	10,000	2,600	3,100	3,300		750	85	150		740	1,100	140	190	130	0.96	4.8	94		ND	ND	ND	
No Standard																											
CARBON DISULFIDE					ND	ND	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.97		ND	ND	ND	
CYCLOHEXANE					430	260	230	250	280		68	ND	130		270	41	62	110	110	ND	4.3	9.6		ND	ND	0.71	
METHYL ISOBUTYL KETONE					ND	ND	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	
METHYLCYCLOHEXANE					190	130	92	100	100		46	16	18		170	27	24	21	10	ND	1.7	5.1		0.18	ND	ND	
Total VOCs		-			16,510	17,380	6,392	7,230	7,668		1,998.4	196	424	-	3,466	4,508	583	715	595	1.47	23.16	136.17	-	0.18	-	0.71	
Total BTEX		-			15,890	16,990	6,070	6,880	7,288		1,880	180	276	-	2,246	4,100	497	584	475	0.51	14.16	115.7	-	-	-	-	

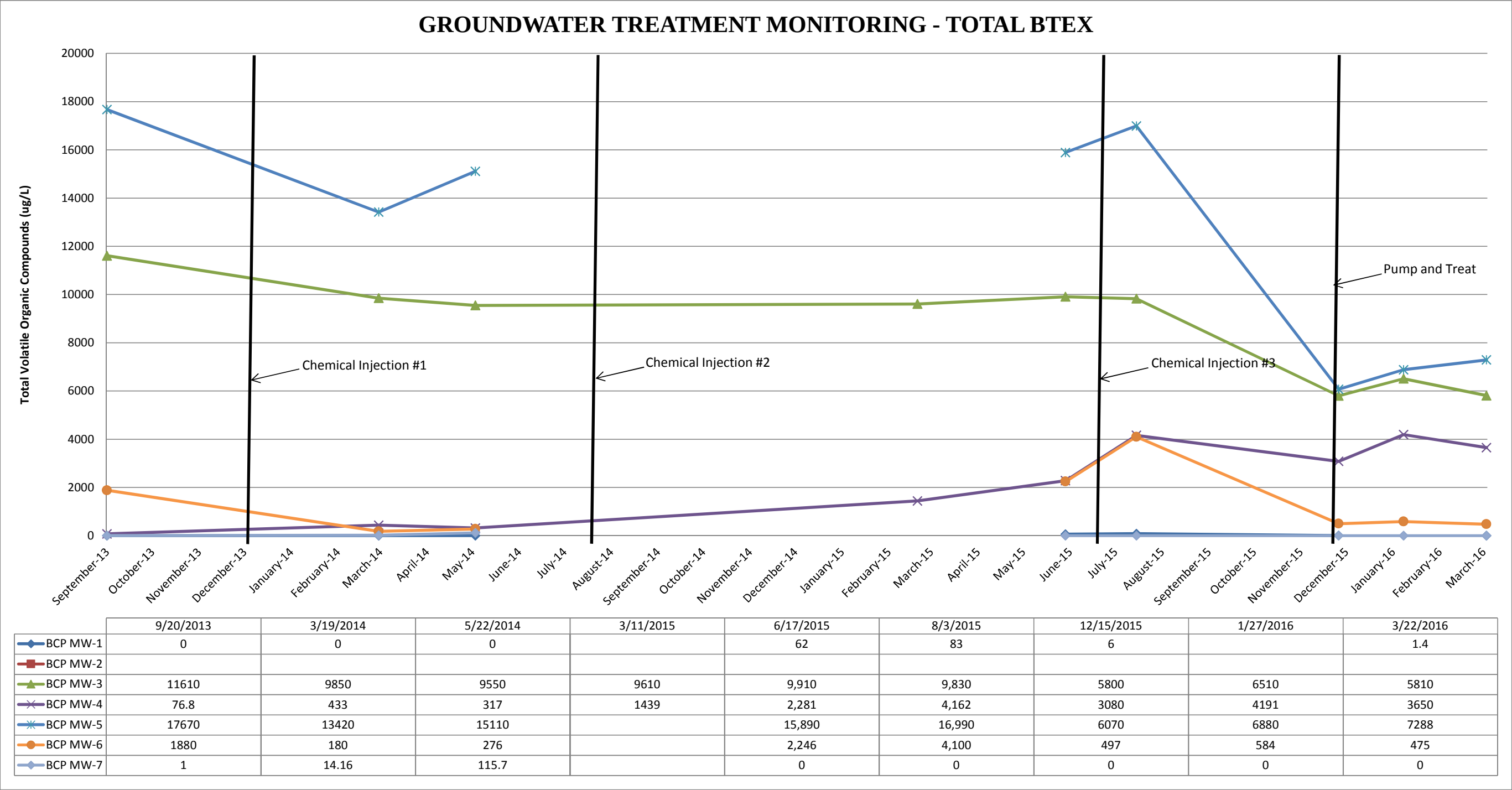
Notes:

1) BCP MW-2 was dry and not sampled

2) 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.

3) WG = groundwater

GRAPHS



APPENDICES

APPENDIX A
LABORATORY ANALYTICAL RESULTS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-56442-1

Client Project/Site: Well Sampling - MOB

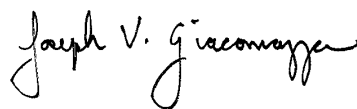
For:

C&S Engineers, Inc.

90 Broadway

Buffalo, New York 14203

Attn: Zubair Trabzada



Authorized for release by:

3/28/2014 4:07:41 PM

Joe Giacomazza, Project Management Assistant II

joe.giacomazza@testamericainc.com

Designee for

Judy Stone, Senior Project Manager

(484)685-0868

judy.stone@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.
F1	MS and/or MSD Recovery exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Job ID: 480-56442-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-56442-1

Receipt

The samples were received on 3/21/2014 12:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° C.

GC/MS VOA

Method(s) 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: MW-04 (480-56442-3), MW-06 (480-56442-4). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-03 (480-56442-5), MW-05 (480-56442-6). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following samples were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: MW-05 (480-56442-6), MW-07 (480-56442-1).

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: (480-56442-5 MS), (480-56442-5 MSD), MW-03 (480-56442-5), MW-05 (480-56442-6). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: MW-05 (480-56442-6).

No other analytical or quality issues were noted.

Detection Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Client Sample ID: MW-07

Lab Sample ID: 480-56442-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.0	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	8.8		1.0	0.41	ug/L	1		8260C	Total/NA
Cyclohexane	4.3		1.0	0.18	ug/L	1		8260C	Total/NA
Methylcyclohexane	1.7		1.0	0.16	ug/L	1		8260C	Total/NA
Toluene	0.56	J	1.0	0.51	ug/L	1		8260C	Total/NA
Xylenes, Total	4.8		2.0	0.66	ug/L	1		8260C	Total/NA

Client Sample ID: MW-01

Lab Sample ID: 480-56442-2

No Detections.

Client Sample ID: MW-04

Lab Sample ID: 480-56442-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	250		50	15	ug/L	5		8260C	Total/NA
Benzene	29		5.0	2.1	ug/L	5		8260C	Total/NA
Cyclohexane	11		5.0	0.90	ug/L	5		8260C	Total/NA
Ethylbenzene	34		5.0	3.7	ug/L	5		8260C	Total/NA
Methylcyclohexane	3.7	J	5.0	0.80	ug/L	5		8260C	Total/NA
Toluene	190		5.0	2.6	ug/L	5		8260C	Total/NA
Xylenes, Total	180		10	3.3	ug/L	5		8260C	Total/NA

Client Sample ID: MW-06

Lab Sample ID: 480-56442-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	33		5.0	2.1	ug/L	5		8260C	Total/NA
Ethylbenzene	20		5.0	3.7	ug/L	5		8260C	Total/NA
Methylcyclohexane	16		5.0	0.80	ug/L	5		8260C	Total/NA
Toluene	42		5.0	2.6	ug/L	5		8260C	Total/NA
Xylenes, Total	85		10	3.3	ug/L	5		8260C	Total/NA

Client Sample ID: MW-03

Lab Sample ID: 480-56442-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	71		50	6.6	ug/L	5		8260C	Total/NA
Acetone	98		50	15	ug/L	5		8260C	Total/NA
Cyclohexane	320		5.0	0.90	ug/L	5		8260C	Total/NA
Isopropylbenzene	37		5.0	4.0	ug/L	5		8260C	Total/NA
Methylcyclohexane	130		5.0	0.80	ug/L	5		8260C	Total/NA
Toluene	150		5.0	2.6	ug/L	5		8260C	Total/NA
Benzene - DL	4500		50	21	ug/L	50		8260C	Total/NA
Ethylbenzene - DL	1600		50	37	ug/L	50		8260C	Total/NA
Xylenes, Total - DL	3600		100	33	ug/L	50		8260C	Total/NA

Client Sample ID: MW-05

Lab Sample ID: 480-56442-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	350		50	6.6	ug/L	5		8260C	Total/NA
Acetone	520		50	15	ug/L	5		8260C	Total/NA
Cyclohexane	340		5.0	0.90	ug/L	5		8260C	Total/NA
Isopropylbenzene	29		5.0	4.0	ug/L	5		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Client Sample ID: MW-05 (Continued)

Lab Sample ID: 480-56442-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylcyclohexane	170		5.0	0.80	ug/L	5		8260C	Total/NA
Toluene	220		5.0	2.6	ug/L	5		8260C	Total/NA
Benzene - DL	4800		80	33	ug/L	80		8260C	Total/NA
Ethylbenzene - DL	1600		80	59	ug/L	80		8260C	Total/NA
Xylenes, Total - DL	6800		160	53	ug/L	80		8260C	Total/NA

Client Sample ID: TB

Lab Sample ID: 480-56442-7

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Client Sample ID: MW-07

Date Collected: 03/19/14 11:15

Date Received: 03/21/14 12:00

Lab Sample ID: 480-56442-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/27/14 00:27	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/27/14 00:27	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/27/14 00:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/27/14 00:27	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/27/14 00:27	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/27/14 00:27	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/27/14 00:27	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/27/14 00:27	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/27/14 00:27	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/27/14 00:27	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/27/14 00:27	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/27/14 00:27	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/27/14 00:27	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/27/14 00:27	1
2-Hexanone	ND		5.0	1.2	ug/L			03/27/14 00:27	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/27/14 00:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/27/14 00:27	1
Acetone	3.0	J	10	3.0	ug/L			03/27/14 00:27	1
Benzene	8.8		1.0	0.41	ug/L			03/27/14 00:27	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/27/14 00:27	1
Bromoform	ND		1.0	0.26	ug/L			03/27/14 00:27	1
Bromomethane	ND		1.0	0.69	ug/L			03/27/14 00:27	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/27/14 00:27	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/27/14 00:27	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/27/14 00:27	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/27/14 00:27	1
Chloroethane	ND		1.0	0.32	ug/L			03/27/14 00:27	1
Chloroform	ND		1.0	0.34	ug/L			03/27/14 00:27	1
Chloromethane	ND		1.0	0.35	ug/L			03/27/14 00:27	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/27/14 00:27	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/27/14 00:27	1
Cyclohexane	4.3		1.0	0.18	ug/L			03/27/14 00:27	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/27/14 00:27	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/27/14 00:27	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/27/14 00:27	1
Methyl acetate	ND		2.5	0.50	ug/L			03/27/14 00:27	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/27/14 00:27	1
Methylcyclohexane	1.7		1.0	0.16	ug/L			03/27/14 00:27	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/27/14 00:27	1
Styrene	ND		1.0	0.73	ug/L			03/27/14 00:27	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/27/14 00:27	1
Toluene	0.56	J	1.0	0.51	ug/L			03/27/14 00:27	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/27/14 00:27	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/27/14 00:27	1
Trichloroethene	ND		1.0	0.46	ug/L			03/27/14 00:27	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/27/14 00:27	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/27/14 00:27	1
Xylenes, Total	4.8		2.0	0.66	ug/L			03/27/14 00:27	1

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Client Sample ID: MW-07

Date Collected: 03/19/14 11:15

Date Received: 03/21/14 12:00

Lab Sample ID: 480-56442-1

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		66 - 137		03/27/14 00:27	1
Toluene-d8 (Surr)	96		71 - 126		03/27/14 00:27	1
4-Bromofluorobenzene (Surr)	95		73 - 120		03/27/14 00:27	1
Dibromofluoromethane (Surr)	97		60 - 140		03/27/14 00:27	1

Client Sample ID: MW-01

Date Collected: 03/19/14 12:09

Date Received: 03/21/14 12:00

Lab Sample ID: 480-56442-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/27/14 00:51	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/27/14 00:51	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/27/14 00:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/27/14 00:51	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/27/14 00:51	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/27/14 00:51	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/27/14 00:51	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/27/14 00:51	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/27/14 00:51	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/27/14 00:51	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/27/14 00:51	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/27/14 00:51	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/27/14 00:51	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/27/14 00:51	1
2-Hexanone	ND		5.0	1.2	ug/L			03/27/14 00:51	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/27/14 00:51	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/27/14 00:51	1
Acetone	ND		10	3.0	ug/L			03/27/14 00:51	1
Benzene	ND		1.0	0.41	ug/L			03/27/14 00:51	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/27/14 00:51	1
Bromoform	ND		1.0	0.26	ug/L			03/27/14 00:51	1
Bromomethane	ND		1.0	0.69	ug/L			03/27/14 00:51	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/27/14 00:51	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/27/14 00:51	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/27/14 00:51	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/27/14 00:51	1
Chloroethane	ND		1.0	0.32	ug/L			03/27/14 00:51	1
Chloroform	ND		1.0	0.34	ug/L			03/27/14 00:51	1
Chloromethane	ND		1.0	0.35	ug/L			03/27/14 00:51	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/27/14 00:51	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/27/14 00:51	1
Cyclohexane	ND		1.0	0.18	ug/L			03/27/14 00:51	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/27/14 00:51	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/27/14 00:51	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/27/14 00:51	1
Methyl acetate	ND		2.5	0.50	ug/L			03/27/14 00:51	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/27/14 00:51	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/27/14 00:51	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/27/14 00:51	1

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Client Sample ID: MW-01

Lab Sample ID: 480-56442-2

Date Collected: 03/19/14 12:09

Matrix: Water

Date Received: 03/21/14 12:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0	0.73	ug/L			03/27/14 00:51	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/27/14 00:51	1
Toluene	ND		1.0	0.51	ug/L			03/27/14 00:51	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/27/14 00:51	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/27/14 00:51	1
Trichloroethene	ND		1.0	0.46	ug/L			03/27/14 00:51	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/27/14 00:51	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/27/14 00:51	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/27/14 00:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		66 - 137		03/27/14 00:51	1
Toluene-d8 (Surr)	97		71 - 126		03/27/14 00:51	1
4-Bromofluorobenzene (Surr)	100		73 - 120		03/27/14 00:51	1
Dibromofluoromethane (Surr)	96		60 - 140		03/27/14 00:51	1

Client Sample ID: MW-04

Lab Sample ID: 480-56442-3

Date Collected: 03/19/14 14:09

Matrix: Water

Date Received: 03/21/14 12:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			03/27/14 01:15	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			03/27/14 01:15	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			03/27/14 01:15	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			03/27/14 01:15	5
1,1-Dichloroethane	ND		5.0	1.9	ug/L			03/27/14 01:15	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			03/27/14 01:15	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			03/27/14 01:15	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			03/27/14 01:15	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			03/27/14 01:15	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			03/27/14 01:15	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			03/27/14 01:15	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			03/27/14 01:15	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			03/27/14 01:15	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			03/27/14 01:15	5
2-Hexanone	ND		25	6.2	ug/L			03/27/14 01:15	5
2-Butanone (MEK)	ND		50	6.6	ug/L			03/27/14 01:15	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			03/27/14 01:15	5
Acetone	250		50	15	ug/L			03/27/14 01:15	5
Benzene	29		5.0	2.1	ug/L			03/27/14 01:15	5
Bromodichloromethane	ND		5.0	2.0	ug/L			03/27/14 01:15	5
Bromoform	ND		5.0	1.3	ug/L			03/27/14 01:15	5
Bromomethane	ND		5.0	3.5	ug/L			03/27/14 01:15	5
Carbon disulfide	ND		5.0	0.95	ug/L			03/27/14 01:15	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			03/27/14 01:15	5
Chlorobenzene	ND		5.0	3.8	ug/L			03/27/14 01:15	5
Dibromochloromethane	ND		5.0	1.6	ug/L			03/27/14 01:15	5
Chloroethane	ND		5.0	1.6	ug/L			03/27/14 01:15	5
Chloroform	ND		5.0	1.7	ug/L			03/27/14 01:15	5

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Client Sample ID: MW-04

Lab Sample ID: 480-56442-3

Date Collected: 03/19/14 14:09

Matrix: Water

Date Received: 03/21/14 12:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		5.0	1.8	ug/L			03/27/14 01:15	5
cis-1,2-Dichloroethene	ND		5.0	4.1	ug/L			03/27/14 01:15	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			03/27/14 01:15	5
Cyclohexane	11		5.0	0.90	ug/L			03/27/14 01:15	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			03/27/14 01:15	5
Ethylbenzene	34		5.0	3.7	ug/L			03/27/14 01:15	5
Isopropylbenzene	ND		5.0	4.0	ug/L			03/27/14 01:15	5
Methyl acetate	ND		13	2.5	ug/L			03/27/14 01:15	5
Methyl tert-butyl ether	ND		5.0	0.80	ug/L			03/27/14 01:15	5
Methylcyclohexane	3.7 J		5.0	0.80	ug/L			03/27/14 01:15	5
Methylene Chloride	ND		5.0	2.2	ug/L			03/27/14 01:15	5
Styrene	ND		5.0	3.7	ug/L			03/27/14 01:15	5
Tetrachloroethene	ND		5.0	1.8	ug/L			03/27/14 01:15	5
Toluene	190		5.0	2.6	ug/L			03/27/14 01:15	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			03/27/14 01:15	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			03/27/14 01:15	5
Trichloroethene	ND		5.0	2.3	ug/L			03/27/14 01:15	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			03/27/14 01:15	5
Vinyl chloride	ND		5.0	4.5	ug/L			03/27/14 01:15	5
Xylenes, Total	180		10	3.3	ug/L			03/27/14 01:15	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		66 - 137		03/27/14 01:15	5
Toluene-d8 (Surr)	100		71 - 126		03/27/14 01:15	5
4-Bromofluorobenzene (Surr)	99		73 - 120		03/27/14 01:15	5
Dibromofluoromethane (Surr)	97		60 - 140		03/27/14 01:15	5

Client Sample ID: MW-06

Lab Sample ID: 480-56442-4

Date Collected: 03/19/14 15:39

Matrix: Water

Date Received: 03/21/14 12:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			03/27/14 01:39	5
1,1,1,2-Tetrachloroethane	ND		5.0	1.1	ug/L			03/27/14 01:39	5
1,1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			03/27/14 01:39	5
1,1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			03/27/14 01:39	5
1,1-Dichloroethane	ND		5.0	1.9	ug/L			03/27/14 01:39	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			03/27/14 01:39	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			03/27/14 01:39	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			03/27/14 01:39	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			03/27/14 01:39	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			03/27/14 01:39	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			03/27/14 01:39	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			03/27/14 01:39	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			03/27/14 01:39	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			03/27/14 01:39	5
2-Hexanone	ND		25	6.2	ug/L			03/27/14 01:39	5
2-Butanone (MEK)	ND		50	6.6	ug/L			03/27/14 01:39	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			03/27/14 01:39	5

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Client Sample ID: MW-06

Date Collected: 03/19/14 15:39

Date Received: 03/21/14 12:00

Lab Sample ID: 480-56442-4

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50	15	ug/L			03/27/14 01:39	5
Benzene	33		5.0	2.1	ug/L			03/27/14 01:39	5
Bromodichloromethane	ND		5.0	2.0	ug/L			03/27/14 01:39	5
Bromoform	ND		5.0	1.3	ug/L			03/27/14 01:39	5
Bromomethane	ND		5.0	3.5	ug/L			03/27/14 01:39	5
Carbon disulfide	ND		5.0	0.95	ug/L			03/27/14 01:39	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			03/27/14 01:39	5
Chlorobenzene	ND		5.0	3.8	ug/L			03/27/14 01:39	5
Dibromochloromethane	ND		5.0	1.6	ug/L			03/27/14 01:39	5
Chloroethane	ND		5.0	1.6	ug/L			03/27/14 01:39	5
Chloroform	ND		5.0	1.7	ug/L			03/27/14 01:39	5
Chloromethane	ND		5.0	1.8	ug/L			03/27/14 01:39	5
cis-1,2-Dichloroethene	ND		5.0	4.1	ug/L			03/27/14 01:39	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			03/27/14 01:39	5
Cyclohexane	ND		5.0	0.90	ug/L			03/27/14 01:39	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			03/27/14 01:39	5
Ethylbenzene	20		5.0	3.7	ug/L			03/27/14 01:39	5
Isopropylbenzene	ND		5.0	4.0	ug/L			03/27/14 01:39	5
Methyl acetate	ND		13	2.5	ug/L			03/27/14 01:39	5
Methyl tert-butyl ether	ND		5.0	0.80	ug/L			03/27/14 01:39	5
Methylcyclohexane	16		5.0	0.80	ug/L			03/27/14 01:39	5
Methylene Chloride	ND		5.0	2.2	ug/L			03/27/14 01:39	5
Styrene	ND		5.0	3.7	ug/L			03/27/14 01:39	5
Tetrachloroethene	ND		5.0	1.8	ug/L			03/27/14 01:39	5
Toluene	42		5.0	2.6	ug/L			03/27/14 01:39	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			03/27/14 01:39	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			03/27/14 01:39	5
Trichloroethene	ND		5.0	2.3	ug/L			03/27/14 01:39	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			03/27/14 01:39	5
Vinyl chloride	ND		5.0	4.5	ug/L			03/27/14 01:39	5
Xylenes, Total	85		10	3.3	ug/L			03/27/14 01:39	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		66 - 137		03/27/14 01:39	5
Toluene-d8 (Surr)	98		71 - 126		03/27/14 01:39	5
4-Bromofluorobenzene (Surr)	98		73 - 120		03/27/14 01:39	5
Dibromofluoromethane (Surr)	99		60 - 140		03/27/14 01:39	5

Client Sample ID: MW-03

Date Collected: 03/20/14 10:55

Date Received: 03/21/14 12:00

Lab Sample ID: 480-56442-5

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			03/27/14 02:03	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			03/27/14 02:03	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			03/27/14 02:03	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			03/27/14 02:03	5
1,1-Dichloroethane	ND		5.0	1.9	ug/L			03/27/14 02:03	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			03/27/14 02:03	5

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Client Sample ID: MW-03

Lab Sample ID: 480-56442-5

Date Collected: 03/20/14 10:55

Matrix: Water

Date Received: 03/21/14 12:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			03/27/14 02:03	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			03/27/14 02:03	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			03/27/14 02:03	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			03/27/14 02:03	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			03/27/14 02:03	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			03/27/14 02:03	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			03/27/14 02:03	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			03/27/14 02:03	5
2-Hexanone	ND		25	6.2	ug/L			03/27/14 02:03	5
2-Butanone (MEK)	71		50	6.6	ug/L			03/27/14 02:03	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			03/27/14 02:03	5
Acetone	98		50	15	ug/L			03/27/14 02:03	5
Bromodichloromethane	ND		5.0	2.0	ug/L			03/27/14 02:03	5
Bromoform	ND		5.0	1.3	ug/L			03/27/14 02:03	5
Bromomethane	ND		5.0	3.5	ug/L			03/27/14 02:03	5
Carbon disulfide	ND		5.0	0.95	ug/L			03/27/14 02:03	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			03/27/14 02:03	5
Chlorobenzene	ND		5.0	3.8	ug/L			03/27/14 02:03	5
Dibromochloromethane	ND		5.0	1.6	ug/L			03/27/14 02:03	5
Chloroethane	ND		5.0	1.6	ug/L			03/27/14 02:03	5
Chloroform	ND		5.0	1.7	ug/L			03/27/14 02:03	5
Chloromethane	ND		5.0	1.8	ug/L			03/27/14 02:03	5
cis-1,2-Dichloroethene	ND		5.0	4.1	ug/L			03/27/14 02:03	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			03/27/14 02:03	5
Cyclohexane	320		5.0	0.90	ug/L			03/27/14 02:03	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			03/27/14 02:03	5
Isopropylbenzene	37		5.0	4.0	ug/L			03/27/14 02:03	5
Methyl acetate	ND		13	2.5	ug/L			03/27/14 02:03	5
Methyl tert-butyl ether	ND		5.0	0.80	ug/L			03/27/14 02:03	5
Methylcyclohexane	130		5.0	0.80	ug/L			03/27/14 02:03	5
Methylene Chloride	ND		5.0	2.2	ug/L			03/27/14 02:03	5
Styrene	ND		5.0	3.7	ug/L			03/27/14 02:03	5
Tetrachloroethene	ND		5.0	1.8	ug/L			03/27/14 02:03	5
Toluene	150		5.0	2.6	ug/L			03/27/14 02:03	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			03/27/14 02:03	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			03/27/14 02:03	5
Trichloroethene	ND		5.0	2.3	ug/L			03/27/14 02:03	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			03/27/14 02:03	5
Vinyl chloride	ND		5.0	4.5	ug/L			03/27/14 02:03	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		66 - 137		03/27/14 02:03	5
Toluene-d8 (Surr)	99		71 - 126		03/27/14 02:03	5
4-Bromofluorobenzene (Surr)	96		73 - 120		03/27/14 02:03	5
Dibromofluoromethane (Surr)	98		60 - 140		03/27/14 02:03	5

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4500		50	21	ug/L			03/27/14 11:32	50
Ethylbenzene	1600		50	37	ug/L			03/27/14 11:32	50

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Client Sample ID: MW-03

Date Collected: 03/20/14 10:55

Date Received: 03/21/14 12:00

Lab Sample ID: 480-56442-5

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	3600		100	33	ug/L			03/27/14 11:32	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		66 - 137					03/27/14 11:32	50
Toluene-d8 (Surr)	103		71 - 126					03/27/14 11:32	50
4-Bromofluorobenzene (Surr)	104		73 - 120					03/27/14 11:32	50
Dibromofluoromethane (Surr)	97		60 - 140					03/27/14 11:32	50

Client Sample ID: MW-05

Date Collected: 03/20/14 11:54

Date Received: 03/21/14 12:00

Lab Sample ID: 480-56442-6

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			03/27/14 02:27	5
1,1,1,2-Tetrachloroethane	ND		5.0	1.1	ug/L			03/27/14 02:27	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			03/27/14 02:27	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			03/27/14 02:27	5
1,1-Dichloroethane	ND		5.0	1.9	ug/L			03/27/14 02:27	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			03/27/14 02:27	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			03/27/14 02:27	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			03/27/14 02:27	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			03/27/14 02:27	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			03/27/14 02:27	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			03/27/14 02:27	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			03/27/14 02:27	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			03/27/14 02:27	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			03/27/14 02:27	5
2-Hexanone	ND		25	6.2	ug/L			03/27/14 02:27	5
2-Butanone (MEK)	350		50	6.6	ug/L			03/27/14 02:27	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			03/27/14 02:27	5
Acetone	520		50	15	ug/L			03/27/14 02:27	5
Bromodichloromethane	ND		5.0	2.0	ug/L			03/27/14 02:27	5
Bromoform	ND		5.0	1.3	ug/L			03/27/14 02:27	5
Bromomethane	ND		5.0	3.5	ug/L			03/27/14 02:27	5
Carbon disulfide	ND		5.0	0.95	ug/L			03/27/14 02:27	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			03/27/14 02:27	5
Chlorobenzene	ND		5.0	3.8	ug/L			03/27/14 02:27	5
Dibromochloromethane	ND		5.0	1.6	ug/L			03/27/14 02:27	5
Chloroethane	ND		5.0	1.6	ug/L			03/27/14 02:27	5
Chloroform	ND		5.0	1.7	ug/L			03/27/14 02:27	5
Chloromethane	ND		5.0	1.8	ug/L			03/27/14 02:27	5
cis-1,2-Dichloroethene	ND		5.0	4.1	ug/L			03/27/14 02:27	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			03/27/14 02:27	5
Cyclohexane	340		5.0	0.90	ug/L			03/27/14 02:27	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			03/27/14 02:27	5
Isopropylbenzene	29		5.0	4.0	ug/L			03/27/14 02:27	5
Methyl acetate	ND		13	2.5	ug/L			03/27/14 02:27	5
Methyl tert-butyl ether	ND		5.0	0.80	ug/L			03/27/14 02:27	5
Methylcyclohexane	170		5.0	0.80	ug/L			03/27/14 02:27	5

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Client Sample ID: MW-05

Date Collected: 03/20/14 11:54

Date Received: 03/21/14 12:00

Lab Sample ID: 480-56442-6

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.0	2.2	ug/L			03/27/14 02:27	5
Styrene	ND		5.0	3.7	ug/L			03/27/14 02:27	5
Tetrachloroethene	ND		5.0	1.8	ug/L			03/27/14 02:27	5
Toluene	220		5.0	2.6	ug/L			03/27/14 02:27	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			03/27/14 02:27	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			03/27/14 02:27	5
Trichloroethene	ND		5.0	2.3	ug/L			03/27/14 02:27	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			03/27/14 02:27	5
Vinyl chloride	ND		5.0	4.5	ug/L			03/27/14 02:27	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		66 - 137					03/27/14 02:27	5
Toluene-d8 (Surr)	99		71 - 126					03/27/14 02:27	5
4-Bromofluorobenzene (Surr)	94		73 - 120					03/27/14 02:27	5
Dibromofluoromethane (Surr)	95		60 - 140					03/27/14 02:27	5

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4800		80	33	ug/L			03/27/14 11:56	80
Ethylbenzene	1600		80	59	ug/L			03/27/14 11:56	80
Xylenes, Total	6800		160	53	ug/L			03/27/14 11:56	80
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		66 - 137					03/27/14 11:56	80
Toluene-d8 (Surr)	102		71 - 126					03/27/14 11:56	80
4-Bromofluorobenzene (Surr)	100		73 - 120					03/27/14 11:56	80
Dibromofluoromethane (Surr)	96		60 - 140					03/27/14 11:56	80

Client Sample ID: TB

Date Collected: 03/20/14 00:00

Date Received: 03/21/14 12:00

Lab Sample ID: 480-56442-7

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/27/14 02:50	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/27/14 02:50	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/27/14 02:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/27/14 02:50	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/27/14 02:50	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/27/14 02:50	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/27/14 02:50	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/27/14 02:50	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/27/14 02:50	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/27/14 02:50	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/27/14 02:50	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/27/14 02:50	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/27/14 02:50	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/27/14 02:50	1
2-Hexanone	ND		5.0	1.2	ug/L			03/27/14 02:50	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/27/14 02:50	1

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Client Sample ID: TB

Lab Sample ID: 480-56442-7

Date Collected: 03/20/14 00:00

Matrix: Water

Date Received: 03/21/14 12:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/27/14 02:50	1
Acetone	ND		10	3.0	ug/L			03/27/14 02:50	1
Benzene	ND		1.0	0.41	ug/L			03/27/14 02:50	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/27/14 02:50	1
Bromoform	ND		1.0	0.26	ug/L			03/27/14 02:50	1
Bromomethane	ND		1.0	0.69	ug/L			03/27/14 02:50	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/27/14 02:50	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/27/14 02:50	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/27/14 02:50	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/27/14 02:50	1
Chloroethane	ND		1.0	0.32	ug/L			03/27/14 02:50	1
Chloroform	ND		1.0	0.34	ug/L			03/27/14 02:50	1
Chloromethane	ND		1.0	0.35	ug/L			03/27/14 02:50	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/27/14 02:50	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/27/14 02:50	1
Cyclohexane	ND		1.0	0.18	ug/L			03/27/14 02:50	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/27/14 02:50	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/27/14 02:50	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/27/14 02:50	1
Methyl acetate	ND		2.5	0.50	ug/L			03/27/14 02:50	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/27/14 02:50	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/27/14 02:50	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/27/14 02:50	1
Styrene	ND		1.0	0.73	ug/L			03/27/14 02:50	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/27/14 02:50	1
Toluene	ND		1.0	0.51	ug/L			03/27/14 02:50	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/27/14 02:50	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/27/14 02:50	1
Trichloroethene	ND		1.0	0.46	ug/L			03/27/14 02:50	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/27/14 02:50	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/27/14 02:50	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/27/14 02:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		66 - 137					03/27/14 02:50	1
Toluene-d8 (Surr)	100		71 - 126					03/27/14 02:50	1
4-Bromofluorobenzene (Surr)	96		73 - 120					03/27/14 02:50	1
Dibromofluoromethane (Surr)	94		60 - 140					03/27/14 02:50	1

TestAmerica Buffalo

Surrogate Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (66-137)	TOL (71-126)	BFB (73-120)	DBFM (60-140)
480-56442-1	MW-07	102	96	95	97
480-56442-2	MW-01	103	97	100	96
480-56442-3	MW-04	105	100	99	97
480-56442-4	MW-06	104	98	98	99
480-56442-5	MW-03	92	99	96	98
480-56442-5 - DL	MW-03	104	103	104	97
480-56442-5 MS	MW-03	98	101	100	99
480-56442-5 MSD	MW-03	99	98	98	100
480-56442-6	MW-05	93	99	94	95
480-56442-6 - DL	MW-05	99	102	100	96
480-56442-7	TB	98	100	96	94
LCS 480-172132/4	Lab Control Sample	102	97	97	99
LCS 480-172199/4	Lab Control Sample	99	99	98	97
MB 480-172132/6	Method Blank	106	96	98	99
MB 480-172199/6	Method Blank	101	98	97	96

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-172132/6

Matrix: Water

Analysis Batch: 172132

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/26/14 23:20	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/26/14 23:20	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/26/14 23:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/26/14 23:20	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/26/14 23:20	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/26/14 23:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/26/14 23:20	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/26/14 23:20	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/26/14 23:20	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/26/14 23:20	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/26/14 23:20	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/26/14 23:20	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/26/14 23:20	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/26/14 23:20	1
2-Hexanone	ND		5.0	1.2	ug/L			03/26/14 23:20	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/26/14 23:20	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/26/14 23:20	1
Acetone	ND		10	3.0	ug/L			03/26/14 23:20	1
Benzene	ND		1.0	0.41	ug/L			03/26/14 23:20	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/26/14 23:20	1
Bromoform	ND		1.0	0.26	ug/L			03/26/14 23:20	1
Bromomethane	ND		1.0	0.69	ug/L			03/26/14 23:20	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/26/14 23:20	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/26/14 23:20	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/26/14 23:20	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/26/14 23:20	1
Chloroethane	ND		1.0	0.32	ug/L			03/26/14 23:20	1
Chloroform	ND		1.0	0.34	ug/L			03/26/14 23:20	1
Chloromethane	ND		1.0	0.35	ug/L			03/26/14 23:20	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/26/14 23:20	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/26/14 23:20	1
Cyclohexane	ND		1.0	0.18	ug/L			03/26/14 23:20	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/26/14 23:20	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/26/14 23:20	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/26/14 23:20	1
Methyl acetate	ND		2.5	0.50	ug/L			03/26/14 23:20	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/26/14 23:20	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/26/14 23:20	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/26/14 23:20	1
Styrene	ND		1.0	0.73	ug/L			03/26/14 23:20	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/26/14 23:20	1
Toluene	ND		1.0	0.51	ug/L			03/26/14 23:20	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/26/14 23:20	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/26/14 23:20	1
Trichloroethene	ND		1.0	0.46	ug/L			03/26/14 23:20	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/26/14 23:20	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/26/14 23:20	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/26/14 23:20	1

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-172132/6

Matrix: Water

Analysis Batch: 172132

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		66 - 137		03/26/14 23:20	1
Toluene-d8 (Surr)	96		71 - 126		03/26/14 23:20	1
4-Bromofluorobenzene (Surr)	98		73 - 120		03/26/14 23:20	1
Dibromofluoromethane (Surr)	99		60 - 140		03/26/14 23:20	1

Lab Sample ID: LCS 480-172132/4

Matrix: Water

Analysis Batch: 172132

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	25.0	23.2		ug/L		93	71 - 129
1,1-Dichloroethene	25.0	21.9		ug/L		88	58 - 121
1,2-Dichlorobenzene	25.0	24.1		ug/L		96	80 - 124
1,2-Dichloroethane	25.0	24.4		ug/L		98	75 - 127
Benzene	25.0	23.4		ug/L		94	71 - 124
Chlorobenzene	25.0	23.0		ug/L		92	72 - 120
cis-1,2-Dichloroethene	25.0	23.7		ug/L		95	74 - 124
Ethylbenzene	25.0	22.7		ug/L		91	77 - 123
Methyl tert-butyl ether	25.0	23.6		ug/L		94	64 - 127
Tetrachloroethene	25.0	23.3		ug/L		93	74 - 122
Toluene	25.0	22.0		ug/L		88	80 - 122
trans-1,2-Dichloroethene	25.0	22.2		ug/L		89	73 - 127
Trichloroethene	25.0	23.3		ug/L		93	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		66 - 137
Toluene-d8 (Surr)	97		71 - 126
4-Bromofluorobenzene (Surr)	97		73 - 120
Dibromofluoromethane (Surr)	99		60 - 140

Lab Sample ID: MB 480-172199/6

Matrix: Water

Analysis Batch: 172199

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/27/14 10:32	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/27/14 10:32	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/27/14 10:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/27/14 10:32	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/27/14 10:32	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/27/14 10:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/27/14 10:32	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/27/14 10:32	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/27/14 10:32	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/27/14 10:32	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/27/14 10:32	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/27/14 10:32	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/27/14 10:32	1

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-172199/6

Matrix: Water

Analysis Batch: 172199

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/27/14 10:32	1
2-Hexanone	ND		5.0	1.2	ug/L			03/27/14 10:32	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/27/14 10:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/27/14 10:32	1
Acetone	ND		10	3.0	ug/L			03/27/14 10:32	1
Benzene	ND		1.0	0.41	ug/L			03/27/14 10:32	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/27/14 10:32	1
Bromoform	ND		1.0	0.26	ug/L			03/27/14 10:32	1
Bromomethane	ND		1.0	0.69	ug/L			03/27/14 10:32	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/27/14 10:32	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/27/14 10:32	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/27/14 10:32	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/27/14 10:32	1
Chloroethane	ND		1.0	0.32	ug/L			03/27/14 10:32	1
Chloroform	ND		1.0	0.34	ug/L			03/27/14 10:32	1
Chloromethane	ND		1.0	0.35	ug/L			03/27/14 10:32	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/27/14 10:32	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/27/14 10:32	1
Cyclohexane	ND		1.0	0.18	ug/L			03/27/14 10:32	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/27/14 10:32	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/27/14 10:32	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/27/14 10:32	1
Methyl acetate	ND		2.5	0.50	ug/L			03/27/14 10:32	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/27/14 10:32	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/27/14 10:32	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/27/14 10:32	1
Styrene	ND		1.0	0.73	ug/L			03/27/14 10:32	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/27/14 10:32	1
Toluene	ND		1.0	0.51	ug/L			03/27/14 10:32	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/27/14 10:32	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/27/14 10:32	1
Trichloroethene	ND		1.0	0.46	ug/L			03/27/14 10:32	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/27/14 10:32	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/27/14 10:32	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/27/14 10:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		66 - 137		03/27/14 10:32	1
Toluene-d8 (Surr)	98		71 - 126		03/27/14 10:32	1
4-Bromofluorobenzene (Surr)	97		73 - 120		03/27/14 10:32	1
Dibromofluoromethane (Surr)	96		60 - 140		03/27/14 10:32	1

Lab Sample ID: LCS 480-172199/4

Matrix: Water

Analysis Batch: 172199

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	25.0	23.3		ug/L		93	71 - 129

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-172199/4

Matrix: Water

Analysis Batch: 172199

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	25.0	22.8		ug/L		91	58 - 121
1,2-Dichlorobenzene	25.0	24.2		ug/L		97	80 - 124
1,2-Dichloroethane	25.0	23.8		ug/L		95	75 - 127
Benzene	25.0	23.6		ug/L		95	71 - 124
Chlorobenzene	25.0	23.5		ug/L		94	72 - 120
cis-1,2-Dichloroethene	25.0	24.0		ug/L		96	74 - 124
Ethylbenzene	25.0	23.5		ug/L		94	77 - 123
Methyl tert-butyl ether	25.0	23.3		ug/L		93	64 - 127
Tetrachloroethene	25.0	24.0		ug/L		96	74 - 122
Toluene	25.0	23.1		ug/L		92	80 - 122
trans-1,2-Dichloroethene	25.0	22.9		ug/L		92	73 - 127
Trichloroethene	25.0	23.9		ug/L		96	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		66 - 137
Toluene-d8 (Surr)	99		71 - 126
4-Bromofluorobenzene (Surr)	98		73 - 120
Dibromofluoromethane (Surr)	97		60 - 140

Lab Sample ID: 480-56442-5 MS

Matrix: Water

Analysis Batch: 172199

Client Sample ID: MW-03

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	ND		1250	1160		ug/L		93	71 - 129
1,1-Dichloroethene	ND		1250	1120		ug/L		89	58 - 121
1,2-Dichlorobenzene	ND		1250	1190		ug/L		96	80 - 124
1,2-Dichloroethane	ND		1250	1240		ug/L		100	75 - 127
Benzene	4500		1250	5030	E F1	ug/L		42	71 - 124
Chlorobenzene	ND		1250	1210		ug/L		97	72 - 120
cis-1,2-Dichloroethene	ND		1250	1200		ug/L		96	74 - 124
Ethylbenzene	1600		1250	2600		ug/L		78	77 - 123
Methyl tert-butyl ether	ND		1250	1130		ug/L		91	64 - 127
Tetrachloroethene	ND		1250	1200		ug/L		96	74 - 122
Toluene	160		1250	1300		ug/L		91	80 - 122
trans-1,2-Dichloroethene	ND		1250	1170		ug/L		93	73 - 127
Trichloroethene	ND		1250	1210		ug/L		97	74 - 123

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		66 - 137
Toluene-d8 (Surr)	101		71 - 126
4-Bromofluorobenzene (Surr)	100		73 - 120
Dibromofluoromethane (Surr)	99		60 - 140

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-56442-5 MSD

Matrix: Water

Analysis Batch: 172199

Client Sample ID: MW-03

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	ND		1250	1170		ug/L		94	71 - 129	1	20
1,1-Dichloroethene	ND		1250	1110		ug/L		88	58 - 121	1	16
1,2-Dichlorobenzene	ND		1250	1180		ug/L		95	80 - 124	1	20
1,2-Dichloroethane	ND		1250	1240		ug/L		99	75 - 127	1	20
Benzene	4500		1250	4920	F1	ug/L		33	71 - 124	2	13
Chlorobenzene	ND		1250	1160		ug/L		92	72 - 120	4	25
cis-1,2-Dichloroethene	ND		1250	1190		ug/L		95	74 - 124	1	15
Ethylbenzene	1600		1250	2480	F1	ug/L		68	77 - 123	5	15
Methyl tert-butyl ether	ND		1250	1150		ug/L		92	64 - 127	1	37
Tetrachloroethene	ND		1250	1180		ug/L		94	74 - 122	1	20
Toluene	160		1250	1280		ug/L		89	80 - 122	1	15
trans-1,2-Dichloroethene	ND		1250	1200		ug/L		96	73 - 127	3	20
Trichloroethene	ND		1250	1170		ug/L		93	74 - 123	4	16
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	99		66 - 137								
Toluene-d8 (Surr)	98		71 - 126								
4-Bromofluorobenzene (Surr)	98		73 - 120								
Dibromofluoromethane (Surr)	100		60 - 140								

QC Association Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

GC/MS VOA

Analysis Batch: 172132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-56442-1	MW-07	Total/NA	Water	8260C	
480-56442-2	MW-01	Total/NA	Water	8260C	
480-56442-3	MW-04	Total/NA	Water	8260C	
480-56442-4	MW-06	Total/NA	Water	8260C	
480-56442-5	MW-03	Total/NA	Water	8260C	
480-56442-6	MW-05	Total/NA	Water	8260C	
480-56442-7	TB	Total/NA	Water	8260C	
LCS 480-172132/4	Lab Control Sample	Total/NA	Water	8260C	
MB 480-172132/6	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 172199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-56442-5 - DL	MW-03	Total/NA	Water	8260C	
480-56442-5 MS	MW-03	Total/NA	Water	8260C	
480-56442-5 MSD	MW-03	Total/NA	Water	8260C	
480-56442-6 - DL	MW-05	Total/NA	Water	8260C	
LCS 480-172199/4	Lab Control Sample	Total/NA	Water	8260C	
MB 480-172199/6	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Client Sample ID: MW-07

Date Collected: 03/19/14 11:15

Date Received: 03/21/14 12:00

Lab Sample ID: 480-56442-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	172132	03/27/14 00:27	RAL	TAL BUF

Client Sample ID: MW-01

Date Collected: 03/19/14 12:09

Date Received: 03/21/14 12:00

Lab Sample ID: 480-56442-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	172132	03/27/14 00:51	RAL	TAL BUF

Client Sample ID: MW-04

Date Collected: 03/19/14 14:09

Date Received: 03/21/14 12:00

Lab Sample ID: 480-56442-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	172132	03/27/14 01:15	RAL	TAL BUF

Client Sample ID: MW-06

Date Collected: 03/19/14 15:39

Date Received: 03/21/14 12:00

Lab Sample ID: 480-56442-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	172132	03/27/14 01:39	RAL	TAL BUF

Client Sample ID: MW-03

Date Collected: 03/20/14 10:55

Date Received: 03/21/14 12:00

Lab Sample ID: 480-56442-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	172132	03/27/14 02:03	RAL	TAL BUF
Total/NA	Analysis	8260C	DL	50	172199	03/27/14 11:32	NMD1	TAL BUF

Client Sample ID: MW-05

Date Collected: 03/20/14 11:54

Date Received: 03/21/14 12:00

Lab Sample ID: 480-56442-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	172132	03/27/14 02:27	RAL	TAL BUF
Total/NA	Analysis	8260C	DL	80	172199	03/27/14 11:56	NMD1	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Client Sample ID: TB
Date Collected: 03/20/14 00:00
Date Received: 03/21/14 12:00

Lab Sample ID: 480-56442-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	172132	03/27/14 02:50	RAL	TAL BUF

Laboratory References:
TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-14 *

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Buffalo

Method Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-56442-1	MW-07	Water	03/19/14 11:15	03/21/14 12:00
480-56442-2	MW-01	Water	03/19/14 12:09	03/21/14 12:00
480-56442-3	MW-04	Water	03/19/14 14:09	03/21/14 12:00
480-56442-4	MW-06	Water	03/19/14 15:39	03/21/14 12:00
480-56442-5	MW-03	Water	03/20/14 10:55	03/21/14 12:00
480-56442-6	MW-05	Water	03/20/14 11:54	03/21/14 12:00
480-56442-7	TB	Water	03/20/14 00:00	03/21/14 12:00

Login Sample Receipt Checklist

Client: C&S Engineers, Inc.

Job Number: 480-56442-1

Login Number: 56442

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	No tests are listed on the chain.
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	C+S
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-56442-1

Client Project/Site: Well Sampling - MOB

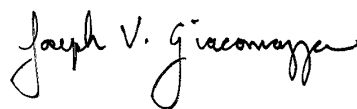
For:

C&S Engineers, Inc.

90 Broadway

Buffalo, New York 14203

Attn: Zubair Trabzada



Authorized for release by:

3/28/2014 4:07:41 PM

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Designee for

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.
F1	MS and/or MSD Recovery exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Job ID: 480-56442-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-56442-1

Receipt

The samples were received on 3/21/2014 12:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° C.

GC/MS VOA

Method(s) 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: MW-04 (480-56442-3), MW-06 (480-56442-4). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-03 (480-56442-5), MW-05 (480-56442-6). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following samples were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: MW-05 (480-56442-6), MW-07 (480-56442-1).

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: (480-56442-5 MS), (480-56442-5 MSD), MW-03 (480-56442-5), MW-05 (480-56442-6). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: MW-05 (480-56442-6).

No other analytical or quality issues were noted.

Detection Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Client Sample ID: MW-07

Lab Sample ID: 480-56442-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.0	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	8.8		1.0	0.41	ug/L	1		8260C	Total/NA
Cyclohexane	4.3		1.0	0.18	ug/L	1		8260C	Total/NA
Methylcyclohexane	1.7		1.0	0.16	ug/L	1		8260C	Total/NA
Toluene	0.56	J	1.0	0.51	ug/L	1		8260C	Total/NA
Xylenes, Total	4.8		2.0	0.66	ug/L	1		8260C	Total/NA

Client Sample ID: MW-01

Lab Sample ID: 480-56442-2

No Detections.

Client Sample ID: MW-04

Lab Sample ID: 480-56442-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	250		50	15	ug/L	5		8260C	Total/NA
Benzene	29		5.0	2.1	ug/L	5		8260C	Total/NA
Cyclohexane	11		5.0	0.90	ug/L	5		8260C	Total/NA
Ethylbenzene	34		5.0	3.7	ug/L	5		8260C	Total/NA
Methylcyclohexane	3.7	J	5.0	0.80	ug/L	5		8260C	Total/NA
Toluene	190		5.0	2.6	ug/L	5		8260C	Total/NA
Xylenes, Total	180		10	3.3	ug/L	5		8260C	Total/NA

Client Sample ID: MW-06

Lab Sample ID: 480-56442-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	33		5.0	2.1	ug/L	5		8260C	Total/NA
Ethylbenzene	20		5.0	3.7	ug/L	5		8260C	Total/NA
Methylcyclohexane	16		5.0	0.80	ug/L	5		8260C	Total/NA
Toluene	42		5.0	2.6	ug/L	5		8260C	Total/NA
Xylenes, Total	85		10	3.3	ug/L	5		8260C	Total/NA

Client Sample ID: MW-03

Lab Sample ID: 480-56442-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	71		50	6.6	ug/L	5		8260C	Total/NA
Acetone	98		50	15	ug/L	5		8260C	Total/NA
Cyclohexane	320		5.0	0.90	ug/L	5		8260C	Total/NA
Isopropylbenzene	37		5.0	4.0	ug/L	5		8260C	Total/NA
Methylcyclohexane	130		5.0	0.80	ug/L	5		8260C	Total/NA
Toluene	150		5.0	2.6	ug/L	5		8260C	Total/NA
Benzene - DL	4500		50	21	ug/L	50		8260C	Total/NA
Ethylbenzene - DL	1600		50	37	ug/L	50		8260C	Total/NA
Xylenes, Total - DL	3600		100	33	ug/L	50		8260C	Total/NA

Client Sample ID: MW-05

Lab Sample ID: 480-56442-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	350		50	6.6	ug/L	5		8260C	Total/NA
Acetone	520		50	15	ug/L	5		8260C	Total/NA
Cyclohexane	340		5.0	0.90	ug/L	5		8260C	Total/NA
Isopropylbenzene	29		5.0	4.0	ug/L	5		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Client Sample ID: MW-05 (Continued)

Lab Sample ID: 480-56442-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylcyclohexane	170		5.0	0.80	ug/L	5		8260C	Total/NA
Toluene	220		5.0	2.6	ug/L	5		8260C	Total/NA
Benzene - DL	4800		80	33	ug/L	80		8260C	Total/NA
Ethylbenzene - DL	1600		80	59	ug/L	80		8260C	Total/NA
Xylenes, Total - DL	6800		160	53	ug/L	80		8260C	Total/NA

Client Sample ID: TB

Lab Sample ID: 480-56442-7

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Client Sample ID: MW-07

Date Collected: 03/19/14 11:15

Date Received: 03/21/14 12:00

Lab Sample ID: 480-56442-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/27/14 00:27	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/27/14 00:27	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/27/14 00:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/27/14 00:27	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/27/14 00:27	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/27/14 00:27	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/27/14 00:27	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/27/14 00:27	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/27/14 00:27	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/27/14 00:27	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/27/14 00:27	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/27/14 00:27	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/27/14 00:27	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/27/14 00:27	1
2-Hexanone	ND		5.0	1.2	ug/L			03/27/14 00:27	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/27/14 00:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/27/14 00:27	1
Acetone	3.0	J	10	3.0	ug/L			03/27/14 00:27	1
Benzene	8.8		1.0	0.41	ug/L			03/27/14 00:27	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/27/14 00:27	1
Bromoform	ND		1.0	0.26	ug/L			03/27/14 00:27	1
Bromomethane	ND		1.0	0.69	ug/L			03/27/14 00:27	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/27/14 00:27	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/27/14 00:27	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/27/14 00:27	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/27/14 00:27	1
Chloroethane	ND		1.0	0.32	ug/L			03/27/14 00:27	1
Chloroform	ND		1.0	0.34	ug/L			03/27/14 00:27	1
Chloromethane	ND		1.0	0.35	ug/L			03/27/14 00:27	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/27/14 00:27	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/27/14 00:27	1
Cyclohexane	4.3		1.0	0.18	ug/L			03/27/14 00:27	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/27/14 00:27	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/27/14 00:27	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/27/14 00:27	1
Methyl acetate	ND		2.5	0.50	ug/L			03/27/14 00:27	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/27/14 00:27	1
Methylcyclohexane	1.7		1.0	0.16	ug/L			03/27/14 00:27	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/27/14 00:27	1
Styrene	ND		1.0	0.73	ug/L			03/27/14 00:27	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/27/14 00:27	1
Toluene	0.56	J	1.0	0.51	ug/L			03/27/14 00:27	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/27/14 00:27	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/27/14 00:27	1
Trichloroethene	ND		1.0	0.46	ug/L			03/27/14 00:27	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/27/14 00:27	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/27/14 00:27	1
Xylenes, Total	4.8		2.0	0.66	ug/L			03/27/14 00:27	1

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Client Sample ID: MW-07

Date Collected: 03/19/14 11:15

Date Received: 03/21/14 12:00

Lab Sample ID: 480-56442-1

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		66 - 137		03/27/14 00:27	1
Toluene-d8 (Surr)	96		71 - 126		03/27/14 00:27	1
4-Bromofluorobenzene (Surr)	95		73 - 120		03/27/14 00:27	1
Dibromofluoromethane (Surr)	97		60 - 140		03/27/14 00:27	1

Client Sample ID: MW-01

Date Collected: 03/19/14 12:09

Date Received: 03/21/14 12:00

Lab Sample ID: 480-56442-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/27/14 00:51	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/27/14 00:51	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/27/14 00:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/27/14 00:51	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/27/14 00:51	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/27/14 00:51	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/27/14 00:51	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/27/14 00:51	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/27/14 00:51	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/27/14 00:51	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/27/14 00:51	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/27/14 00:51	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/27/14 00:51	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/27/14 00:51	1
2-Hexanone	ND		5.0	1.2	ug/L			03/27/14 00:51	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/27/14 00:51	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/27/14 00:51	1
Acetone	ND		10	3.0	ug/L			03/27/14 00:51	1
Benzene	ND		1.0	0.41	ug/L			03/27/14 00:51	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/27/14 00:51	1
Bromoform	ND		1.0	0.26	ug/L			03/27/14 00:51	1
Bromomethane	ND		1.0	0.69	ug/L			03/27/14 00:51	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/27/14 00:51	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/27/14 00:51	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/27/14 00:51	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/27/14 00:51	1
Chloroethane	ND		1.0	0.32	ug/L			03/27/14 00:51	1
Chloroform	ND		1.0	0.34	ug/L			03/27/14 00:51	1
Chloromethane	ND		1.0	0.35	ug/L			03/27/14 00:51	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/27/14 00:51	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/27/14 00:51	1
Cyclohexane	ND		1.0	0.18	ug/L			03/27/14 00:51	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/27/14 00:51	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/27/14 00:51	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/27/14 00:51	1
Methyl acetate	ND		2.5	0.50	ug/L			03/27/14 00:51	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/27/14 00:51	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/27/14 00:51	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/27/14 00:51	1

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Client Sample ID: MW-01

Lab Sample ID: 480-56442-2

Date Collected: 03/19/14 12:09

Matrix: Water

Date Received: 03/21/14 12:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0	0.73	ug/L			03/27/14 00:51	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/27/14 00:51	1
Toluene	ND		1.0	0.51	ug/L			03/27/14 00:51	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/27/14 00:51	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/27/14 00:51	1
Trichloroethene	ND		1.0	0.46	ug/L			03/27/14 00:51	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/27/14 00:51	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/27/14 00:51	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/27/14 00:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		66 - 137		03/27/14 00:51	1
Toluene-d8 (Surr)	97		71 - 126		03/27/14 00:51	1
4-Bromofluorobenzene (Surr)	100		73 - 120		03/27/14 00:51	1
Dibromofluoromethane (Surr)	96		60 - 140		03/27/14 00:51	1

Client Sample ID: MW-04

Lab Sample ID: 480-56442-3

Date Collected: 03/19/14 14:09

Matrix: Water

Date Received: 03/21/14 12:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			03/27/14 01:15	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			03/27/14 01:15	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			03/27/14 01:15	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			03/27/14 01:15	5
1,1-Dichloroethane	ND		5.0	1.9	ug/L			03/27/14 01:15	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			03/27/14 01:15	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			03/27/14 01:15	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			03/27/14 01:15	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			03/27/14 01:15	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			03/27/14 01:15	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			03/27/14 01:15	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			03/27/14 01:15	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			03/27/14 01:15	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			03/27/14 01:15	5
2-Hexanone	ND		25	6.2	ug/L			03/27/14 01:15	5
2-Butanone (MEK)	ND		50	6.6	ug/L			03/27/14 01:15	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			03/27/14 01:15	5
Acetone	250		50	15	ug/L			03/27/14 01:15	5
Benzene	29		5.0	2.1	ug/L			03/27/14 01:15	5
Bromodichloromethane	ND		5.0	2.0	ug/L			03/27/14 01:15	5
Bromoform	ND		5.0	1.3	ug/L			03/27/14 01:15	5
Bromomethane	ND		5.0	3.5	ug/L			03/27/14 01:15	5
Carbon disulfide	ND		5.0	0.95	ug/L			03/27/14 01:15	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			03/27/14 01:15	5
Chlorobenzene	ND		5.0	3.8	ug/L			03/27/14 01:15	5
Dibromochloromethane	ND		5.0	1.6	ug/L			03/27/14 01:15	5
Chloroethane	ND		5.0	1.6	ug/L			03/27/14 01:15	5
Chloroform	ND		5.0	1.7	ug/L			03/27/14 01:15	5

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Client Sample ID: MW-04

Lab Sample ID: 480-56442-3

Date Collected: 03/19/14 14:09

Matrix: Water

Date Received: 03/21/14 12:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		5.0	1.8	ug/L			03/27/14 01:15	5
cis-1,2-Dichloroethene	ND		5.0	4.1	ug/L			03/27/14 01:15	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			03/27/14 01:15	5
Cyclohexane	11		5.0	0.90	ug/L			03/27/14 01:15	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			03/27/14 01:15	5
Ethylbenzene	34		5.0	3.7	ug/L			03/27/14 01:15	5
Isopropylbenzene	ND		5.0	4.0	ug/L			03/27/14 01:15	5
Methyl acetate	ND		13	2.5	ug/L			03/27/14 01:15	5
Methyl tert-butyl ether	ND		5.0	0.80	ug/L			03/27/14 01:15	5
Methylcyclohexane	3.7 J		5.0	0.80	ug/L			03/27/14 01:15	5
Methylene Chloride	ND		5.0	2.2	ug/L			03/27/14 01:15	5
Styrene	ND		5.0	3.7	ug/L			03/27/14 01:15	5
Tetrachloroethene	ND		5.0	1.8	ug/L			03/27/14 01:15	5
Toluene	190		5.0	2.6	ug/L			03/27/14 01:15	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			03/27/14 01:15	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			03/27/14 01:15	5
Trichloroethene	ND		5.0	2.3	ug/L			03/27/14 01:15	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			03/27/14 01:15	5
Vinyl chloride	ND		5.0	4.5	ug/L			03/27/14 01:15	5
Xylenes, Total	180		10	3.3	ug/L			03/27/14 01:15	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		66 - 137		03/27/14 01:15	5
Toluene-d8 (Surr)	100		71 - 126		03/27/14 01:15	5
4-Bromofluorobenzene (Surr)	99		73 - 120		03/27/14 01:15	5
Dibromofluoromethane (Surr)	97		60 - 140		03/27/14 01:15	5

Client Sample ID: MW-06

Lab Sample ID: 480-56442-4

Date Collected: 03/19/14 15:39

Matrix: Water

Date Received: 03/21/14 12:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			03/27/14 01:39	5
1,1,1,2-Tetrachloroethane	ND		5.0	1.1	ug/L			03/27/14 01:39	5
1,1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			03/27/14 01:39	5
1,1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			03/27/14 01:39	5
1,1-Dichloroethane	ND		5.0	1.9	ug/L			03/27/14 01:39	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			03/27/14 01:39	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			03/27/14 01:39	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			03/27/14 01:39	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			03/27/14 01:39	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			03/27/14 01:39	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			03/27/14 01:39	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			03/27/14 01:39	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			03/27/14 01:39	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			03/27/14 01:39	5
2-Hexanone	ND		25	6.2	ug/L			03/27/14 01:39	5
2-Butanone (MEK)	ND		50	6.6	ug/L			03/27/14 01:39	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			03/27/14 01:39	5

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Client Sample ID: MW-06

Date Collected: 03/19/14 15:39

Date Received: 03/21/14 12:00

Lab Sample ID: 480-56442-4

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50	15	ug/L			03/27/14 01:39	5
Benzene	33		5.0	2.1	ug/L			03/27/14 01:39	5
Bromodichloromethane	ND		5.0	2.0	ug/L			03/27/14 01:39	5
Bromoform	ND		5.0	1.3	ug/L			03/27/14 01:39	5
Bromomethane	ND		5.0	3.5	ug/L			03/27/14 01:39	5
Carbon disulfide	ND		5.0	0.95	ug/L			03/27/14 01:39	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			03/27/14 01:39	5
Chlorobenzene	ND		5.0	3.8	ug/L			03/27/14 01:39	5
Dibromochloromethane	ND		5.0	1.6	ug/L			03/27/14 01:39	5
Chloroethane	ND		5.0	1.6	ug/L			03/27/14 01:39	5
Chloroform	ND		5.0	1.7	ug/L			03/27/14 01:39	5
Chloromethane	ND		5.0	1.8	ug/L			03/27/14 01:39	5
cis-1,2-Dichloroethene	ND		5.0	4.1	ug/L			03/27/14 01:39	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			03/27/14 01:39	5
Cyclohexane	ND		5.0	0.90	ug/L			03/27/14 01:39	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			03/27/14 01:39	5
Ethylbenzene	20		5.0	3.7	ug/L			03/27/14 01:39	5
Isopropylbenzene	ND		5.0	4.0	ug/L			03/27/14 01:39	5
Methyl acetate	ND		13	2.5	ug/L			03/27/14 01:39	5
Methyl tert-butyl ether	ND		5.0	0.80	ug/L			03/27/14 01:39	5
Methylcyclohexane	16		5.0	0.80	ug/L			03/27/14 01:39	5
Methylene Chloride	ND		5.0	2.2	ug/L			03/27/14 01:39	5
Styrene	ND		5.0	3.7	ug/L			03/27/14 01:39	5
Tetrachloroethene	ND		5.0	1.8	ug/L			03/27/14 01:39	5
Toluene	42		5.0	2.6	ug/L			03/27/14 01:39	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			03/27/14 01:39	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			03/27/14 01:39	5
Trichloroethene	ND		5.0	2.3	ug/L			03/27/14 01:39	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			03/27/14 01:39	5
Vinyl chloride	ND		5.0	4.5	ug/L			03/27/14 01:39	5
Xylenes, Total	85		10	3.3	ug/L			03/27/14 01:39	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		66 - 137		03/27/14 01:39	5
Toluene-d8 (Surr)	98		71 - 126		03/27/14 01:39	5
4-Bromofluorobenzene (Surr)	98		73 - 120		03/27/14 01:39	5
Dibromofluoromethane (Surr)	99		60 - 140		03/27/14 01:39	5

Client Sample ID: MW-03

Date Collected: 03/20/14 10:55

Date Received: 03/21/14 12:00

Lab Sample ID: 480-56442-5

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			03/27/14 02:03	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			03/27/14 02:03	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			03/27/14 02:03	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			03/27/14 02:03	5
1,1-Dichloroethane	ND		5.0	1.9	ug/L			03/27/14 02:03	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			03/27/14 02:03	5

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Client Sample ID: MW-03

Lab Sample ID: 480-56442-5

Date Collected: 03/20/14 10:55

Matrix: Water

Date Received: 03/21/14 12:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			03/27/14 02:03	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			03/27/14 02:03	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			03/27/14 02:03	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			03/27/14 02:03	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			03/27/14 02:03	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			03/27/14 02:03	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			03/27/14 02:03	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			03/27/14 02:03	5
2-Hexanone	ND		25	6.2	ug/L			03/27/14 02:03	5
2-Butanone (MEK)	71		50	6.6	ug/L			03/27/14 02:03	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			03/27/14 02:03	5
Acetone	98		50	15	ug/L			03/27/14 02:03	5
Bromodichloromethane	ND		5.0	2.0	ug/L			03/27/14 02:03	5
Bromoform	ND		5.0	1.3	ug/L			03/27/14 02:03	5
Bromomethane	ND		5.0	3.5	ug/L			03/27/14 02:03	5
Carbon disulfide	ND		5.0	0.95	ug/L			03/27/14 02:03	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			03/27/14 02:03	5
Chlorobenzene	ND		5.0	3.8	ug/L			03/27/14 02:03	5
Dibromochloromethane	ND		5.0	1.6	ug/L			03/27/14 02:03	5
Chloroethane	ND		5.0	1.6	ug/L			03/27/14 02:03	5
Chloroform	ND		5.0	1.7	ug/L			03/27/14 02:03	5
Chloromethane	ND		5.0	1.8	ug/L			03/27/14 02:03	5
cis-1,2-Dichloroethene	ND		5.0	4.1	ug/L			03/27/14 02:03	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			03/27/14 02:03	5
Cyclohexane	320		5.0	0.90	ug/L			03/27/14 02:03	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			03/27/14 02:03	5
Isopropylbenzene	37		5.0	4.0	ug/L			03/27/14 02:03	5
Methyl acetate	ND		13	2.5	ug/L			03/27/14 02:03	5
Methyl tert-butyl ether	ND		5.0	0.80	ug/L			03/27/14 02:03	5
Methylcyclohexane	130		5.0	0.80	ug/L			03/27/14 02:03	5
Methylene Chloride	ND		5.0	2.2	ug/L			03/27/14 02:03	5
Styrene	ND		5.0	3.7	ug/L			03/27/14 02:03	5
Tetrachloroethene	ND		5.0	1.8	ug/L			03/27/14 02:03	5
Toluene	150		5.0	2.6	ug/L			03/27/14 02:03	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			03/27/14 02:03	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			03/27/14 02:03	5
Trichloroethene	ND		5.0	2.3	ug/L			03/27/14 02:03	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			03/27/14 02:03	5
Vinyl chloride	ND		5.0	4.5	ug/L			03/27/14 02:03	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		66 - 137		03/27/14 02:03	5
Toluene-d8 (Surr)	99		71 - 126		03/27/14 02:03	5
4-Bromofluorobenzene (Surr)	96		73 - 120		03/27/14 02:03	5
Dibromofluoromethane (Surr)	98		60 - 140		03/27/14 02:03	5

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4500		50	21	ug/L			03/27/14 11:32	50
Ethylbenzene	1600		50	37	ug/L			03/27/14 11:32	50

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Client Sample ID: MW-03

Date Collected: 03/20/14 10:55

Date Received: 03/21/14 12:00

Lab Sample ID: 480-56442-5

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	3600		100	33	ug/L			03/27/14 11:32	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		66 - 137					03/27/14 11:32	50
Toluene-d8 (Surr)	103		71 - 126					03/27/14 11:32	50
4-Bromofluorobenzene (Surr)	104		73 - 120					03/27/14 11:32	50
Dibromofluoromethane (Surr)	97		60 - 140					03/27/14 11:32	50

Client Sample ID: MW-05

Date Collected: 03/20/14 11:54

Date Received: 03/21/14 12:00

Lab Sample ID: 480-56442-6

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			03/27/14 02:27	5
1,1,1,2-Tetrachloroethane	ND		5.0	1.1	ug/L			03/27/14 02:27	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			03/27/14 02:27	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			03/27/14 02:27	5
1,1-Dichloroethane	ND		5.0	1.9	ug/L			03/27/14 02:27	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			03/27/14 02:27	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			03/27/14 02:27	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			03/27/14 02:27	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			03/27/14 02:27	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			03/27/14 02:27	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			03/27/14 02:27	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			03/27/14 02:27	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			03/27/14 02:27	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			03/27/14 02:27	5
2-Hexanone	ND		25	6.2	ug/L			03/27/14 02:27	5
2-Butanone (MEK)	350		50	6.6	ug/L			03/27/14 02:27	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			03/27/14 02:27	5
Acetone	520		50	15	ug/L			03/27/14 02:27	5
Bromodichloromethane	ND		5.0	2.0	ug/L			03/27/14 02:27	5
Bromoform	ND		5.0	1.3	ug/L			03/27/14 02:27	5
Bromomethane	ND		5.0	3.5	ug/L			03/27/14 02:27	5
Carbon disulfide	ND		5.0	0.95	ug/L			03/27/14 02:27	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			03/27/14 02:27	5
Chlorobenzene	ND		5.0	3.8	ug/L			03/27/14 02:27	5
Dibromochloromethane	ND		5.0	1.6	ug/L			03/27/14 02:27	5
Chloroethane	ND		5.0	1.6	ug/L			03/27/14 02:27	5
Chloroform	ND		5.0	1.7	ug/L			03/27/14 02:27	5
Chloromethane	ND		5.0	1.8	ug/L			03/27/14 02:27	5
cis-1,2-Dichloroethene	ND		5.0	4.1	ug/L			03/27/14 02:27	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			03/27/14 02:27	5
Cyclohexane	340		5.0	0.90	ug/L			03/27/14 02:27	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			03/27/14 02:27	5
Isopropylbenzene	29		5.0	4.0	ug/L			03/27/14 02:27	5
Methyl acetate	ND		13	2.5	ug/L			03/27/14 02:27	5
Methyl tert-butyl ether	ND		5.0	0.80	ug/L			03/27/14 02:27	5
Methylcyclohexane	170		5.0	0.80	ug/L			03/27/14 02:27	5

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Client Sample ID: MW-05

Lab Sample ID: 480-56442-6

Date Collected: 03/20/14 11:54

Matrix: Water

Date Received: 03/21/14 12:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.0	2.2	ug/L			03/27/14 02:27	5
Styrene	ND		5.0	3.7	ug/L			03/27/14 02:27	5
Tetrachloroethene	ND		5.0	1.8	ug/L			03/27/14 02:27	5
Toluene	220		5.0	2.6	ug/L			03/27/14 02:27	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			03/27/14 02:27	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			03/27/14 02:27	5
Trichloroethene	ND		5.0	2.3	ug/L			03/27/14 02:27	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			03/27/14 02:27	5
Vinyl chloride	ND		5.0	4.5	ug/L			03/27/14 02:27	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		66 - 137		03/27/14 02:27	5
Toluene-d8 (Surr)	99		71 - 126		03/27/14 02:27	5
4-Bromofluorobenzene (Surr)	94		73 - 120		03/27/14 02:27	5
Dibromofluoromethane (Surr)	95		60 - 140		03/27/14 02:27	5

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4800		80	33	ug/L			03/27/14 11:56	80
Ethylbenzene	1600		80	59	ug/L			03/27/14 11:56	80
Xylenes, Total	6800		160	53	ug/L			03/27/14 11:56	80

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		66 - 137		03/27/14 11:56	80
Toluene-d8 (Surr)	102		71 - 126		03/27/14 11:56	80
4-Bromofluorobenzene (Surr)	100		73 - 120		03/27/14 11:56	80
Dibromofluoromethane (Surr)	96		60 - 140		03/27/14 11:56	80

Client Sample ID: TB

Lab Sample ID: 480-56442-7

Date Collected: 03/20/14 00:00

Matrix: Water

Date Received: 03/21/14 12:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/27/14 02:50	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/27/14 02:50	1
1,1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/27/14 02:50	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/27/14 02:50	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/27/14 02:50	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/27/14 02:50	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/27/14 02:50	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/27/14 02:50	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/27/14 02:50	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/27/14 02:50	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/27/14 02:50	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/27/14 02:50	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/27/14 02:50	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/27/14 02:50	1
2-Hexanone	ND		5.0	1.2	ug/L			03/27/14 02:50	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/27/14 02:50	1

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Client Sample ID: TB

Lab Sample ID: 480-56442-7

Date Collected: 03/20/14 00:00

Matrix: Water

Date Received: 03/21/14 12:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/27/14 02:50	1
Acetone	ND		10	3.0	ug/L			03/27/14 02:50	1
Benzene	ND		1.0	0.41	ug/L			03/27/14 02:50	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/27/14 02:50	1
Bromoform	ND		1.0	0.26	ug/L			03/27/14 02:50	1
Bromomethane	ND		1.0	0.69	ug/L			03/27/14 02:50	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/27/14 02:50	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/27/14 02:50	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/27/14 02:50	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/27/14 02:50	1
Chloroethane	ND		1.0	0.32	ug/L			03/27/14 02:50	1
Chloroform	ND		1.0	0.34	ug/L			03/27/14 02:50	1
Chloromethane	ND		1.0	0.35	ug/L			03/27/14 02:50	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/27/14 02:50	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/27/14 02:50	1
Cyclohexane	ND		1.0	0.18	ug/L			03/27/14 02:50	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/27/14 02:50	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/27/14 02:50	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/27/14 02:50	1
Methyl acetate	ND		2.5	0.50	ug/L			03/27/14 02:50	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/27/14 02:50	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/27/14 02:50	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/27/14 02:50	1
Styrene	ND		1.0	0.73	ug/L			03/27/14 02:50	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/27/14 02:50	1
Toluene	ND		1.0	0.51	ug/L			03/27/14 02:50	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/27/14 02:50	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/27/14 02:50	1
Trichloroethene	ND		1.0	0.46	ug/L			03/27/14 02:50	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/27/14 02:50	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/27/14 02:50	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/27/14 02:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		66 - 137		03/27/14 02:50	1
Toluene-d8 (Surr)	100		71 - 126		03/27/14 02:50	1
4-Bromofluorobenzene (Surr)	96		73 - 120		03/27/14 02:50	1
Dibromofluoromethane (Surr)	94		60 - 140		03/27/14 02:50	1

TestAmerica Buffalo

Surrogate Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (66-137)	TOL (71-126)	BFB (73-120)	DBFM (60-140)
480-56442-1	MW-07	102	96	95	97
480-56442-2	MW-01	103	97	100	96
480-56442-3	MW-04	105	100	99	97
480-56442-4	MW-06	104	98	98	99
480-56442-5	MW-03	92	99	96	98
480-56442-5 - DL	MW-03	104	103	104	97
480-56442-5 MS	MW-03	98	101	100	99
480-56442-5 MSD	MW-03	99	98	98	100
480-56442-6	MW-05	93	99	94	95
480-56442-6 - DL	MW-05	99	102	100	96
480-56442-7	TB	98	100	96	94
LCS 480-172132/4	Lab Control Sample	102	97	97	99
LCS 480-172199/4	Lab Control Sample	99	99	98	97
MB 480-172132/6	Method Blank	106	96	98	99
MB 480-172199/6	Method Blank	101	98	97	96

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-172132/6

Matrix: Water

Analysis Batch: 172132

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/26/14 23:20	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/26/14 23:20	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/26/14 23:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/26/14 23:20	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/26/14 23:20	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/26/14 23:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/26/14 23:20	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/26/14 23:20	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/26/14 23:20	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/26/14 23:20	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/26/14 23:20	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/26/14 23:20	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/26/14 23:20	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/26/14 23:20	1
2-Hexanone	ND		5.0	1.2	ug/L			03/26/14 23:20	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/26/14 23:20	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/26/14 23:20	1
Acetone	ND		10	3.0	ug/L			03/26/14 23:20	1
Benzene	ND		1.0	0.41	ug/L			03/26/14 23:20	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/26/14 23:20	1
Bromoform	ND		1.0	0.26	ug/L			03/26/14 23:20	1
Bromomethane	ND		1.0	0.69	ug/L			03/26/14 23:20	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/26/14 23:20	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/26/14 23:20	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/26/14 23:20	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/26/14 23:20	1
Chloroethane	ND		1.0	0.32	ug/L			03/26/14 23:20	1
Chloroform	ND		1.0	0.34	ug/L			03/26/14 23:20	1
Chloromethane	ND		1.0	0.35	ug/L			03/26/14 23:20	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/26/14 23:20	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/26/14 23:20	1
Cyclohexane	ND		1.0	0.18	ug/L			03/26/14 23:20	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/26/14 23:20	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/26/14 23:20	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/26/14 23:20	1
Methyl acetate	ND		2.5	0.50	ug/L			03/26/14 23:20	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/26/14 23:20	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/26/14 23:20	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/26/14 23:20	1
Styrene	ND		1.0	0.73	ug/L			03/26/14 23:20	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/26/14 23:20	1
Toluene	ND		1.0	0.51	ug/L			03/26/14 23:20	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/26/14 23:20	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/26/14 23:20	1
Trichloroethene	ND		1.0	0.46	ug/L			03/26/14 23:20	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/26/14 23:20	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/26/14 23:20	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/26/14 23:20	1

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-172132/6

Matrix: Water

Analysis Batch: 172132

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		66 - 137		03/26/14 23:20	1
Toluene-d8 (Surr)	96		71 - 126		03/26/14 23:20	1
4-Bromofluorobenzene (Surr)	98		73 - 120		03/26/14 23:20	1
Dibromofluoromethane (Surr)	99		60 - 140		03/26/14 23:20	1

Lab Sample ID: LCS 480-172132/4

Matrix: Water

Analysis Batch: 172132

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	25.0	23.2		ug/L		93	71 - 129
1,1-Dichloroethene	25.0	21.9		ug/L		88	58 - 121
1,2-Dichlorobenzene	25.0	24.1		ug/L		96	80 - 124
1,2-Dichloroethane	25.0	24.4		ug/L		98	75 - 127
Benzene	25.0	23.4		ug/L		94	71 - 124
Chlorobenzene	25.0	23.0		ug/L		92	72 - 120
cis-1,2-Dichloroethene	25.0	23.7		ug/L		95	74 - 124
Ethylbenzene	25.0	22.7		ug/L		91	77 - 123
Methyl tert-butyl ether	25.0	23.6		ug/L		94	64 - 127
Tetrachloroethene	25.0	23.3		ug/L		93	74 - 122
Toluene	25.0	22.0		ug/L		88	80 - 122
trans-1,2-Dichloroethene	25.0	22.2		ug/L		89	73 - 127
Trichloroethene	25.0	23.3		ug/L		93	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		66 - 137
Toluene-d8 (Surr)	97		71 - 126
4-Bromofluorobenzene (Surr)	97		73 - 120
Dibromofluoromethane (Surr)	99		60 - 140

Lab Sample ID: MB 480-172199/6

Matrix: Water

Analysis Batch: 172199

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/27/14 10:32	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/27/14 10:32	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/27/14 10:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/27/14 10:32	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/27/14 10:32	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/27/14 10:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/27/14 10:32	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/27/14 10:32	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/27/14 10:32	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/27/14 10:32	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/27/14 10:32	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/27/14 10:32	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/27/14 10:32	1

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-172199/6

Matrix: Water

Analysis Batch: 172199

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/27/14 10:32	1
2-Hexanone	ND		5.0	1.2	ug/L			03/27/14 10:32	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/27/14 10:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/27/14 10:32	1
Acetone	ND		10	3.0	ug/L			03/27/14 10:32	1
Benzene	ND		1.0	0.41	ug/L			03/27/14 10:32	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/27/14 10:32	1
Bromoform	ND		1.0	0.26	ug/L			03/27/14 10:32	1
Bromomethane	ND		1.0	0.69	ug/L			03/27/14 10:32	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/27/14 10:32	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/27/14 10:32	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/27/14 10:32	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/27/14 10:32	1
Chloroethane	ND		1.0	0.32	ug/L			03/27/14 10:32	1
Chloroform	ND		1.0	0.34	ug/L			03/27/14 10:32	1
Chloromethane	ND		1.0	0.35	ug/L			03/27/14 10:32	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/27/14 10:32	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/27/14 10:32	1
Cyclohexane	ND		1.0	0.18	ug/L			03/27/14 10:32	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/27/14 10:32	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/27/14 10:32	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/27/14 10:32	1
Methyl acetate	ND		2.5	0.50	ug/L			03/27/14 10:32	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/27/14 10:32	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/27/14 10:32	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/27/14 10:32	1
Styrene	ND		1.0	0.73	ug/L			03/27/14 10:32	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/27/14 10:32	1
Toluene	ND		1.0	0.51	ug/L			03/27/14 10:32	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/27/14 10:32	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/27/14 10:32	1
Trichloroethene	ND		1.0	0.46	ug/L			03/27/14 10:32	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/27/14 10:32	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/27/14 10:32	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/27/14 10:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		66 - 137		03/27/14 10:32	1
Toluene-d8 (Surr)	98		71 - 126		03/27/14 10:32	1
4-Bromofluorobenzene (Surr)	97		73 - 120		03/27/14 10:32	1
Dibromofluoromethane (Surr)	96		60 - 140		03/27/14 10:32	1

Lab Sample ID: LCS 480-172199/4

Matrix: Water

Analysis Batch: 172199

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	25.0	23.3		ug/L		93	71 - 129

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-172199/4

Matrix: Water

Analysis Batch: 172199

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	25.0	22.8		ug/L		91	58 - 121
1,2-Dichlorobenzene	25.0	24.2		ug/L		97	80 - 124
1,2-Dichloroethane	25.0	23.8		ug/L		95	75 - 127
Benzene	25.0	23.6		ug/L		95	71 - 124
Chlorobenzene	25.0	23.5		ug/L		94	72 - 120
cis-1,2-Dichloroethene	25.0	24.0		ug/L		96	74 - 124
Ethylbenzene	25.0	23.5		ug/L		94	77 - 123
Methyl tert-butyl ether	25.0	23.3		ug/L		93	64 - 127
Tetrachloroethene	25.0	24.0		ug/L		96	74 - 122
Toluene	25.0	23.1		ug/L		92	80 - 122
trans-1,2-Dichloroethene	25.0	22.9		ug/L		92	73 - 127
Trichloroethene	25.0	23.9		ug/L		96	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		66 - 137
Toluene-d8 (Surr)	99		71 - 126
4-Bromofluorobenzene (Surr)	98		73 - 120
Dibromofluoromethane (Surr)	97		60 - 140

Lab Sample ID: 480-56442-5 MS

Matrix: Water

Analysis Batch: 172199

Client Sample ID: MW-03

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	ND		1250	1160		ug/L		93	71 - 129
1,1-Dichloroethene	ND		1250	1120		ug/L		89	58 - 121
1,2-Dichlorobenzene	ND		1250	1190		ug/L		96	80 - 124
1,2-Dichloroethane	ND		1250	1240		ug/L		100	75 - 127
Benzene	4500		1250	5030	E F1	ug/L		42	71 - 124
Chlorobenzene	ND		1250	1210		ug/L		97	72 - 120
cis-1,2-Dichloroethene	ND		1250	1200		ug/L		96	74 - 124
Ethylbenzene	1600		1250	2600		ug/L		78	77 - 123
Methyl tert-butyl ether	ND		1250	1130		ug/L		91	64 - 127
Tetrachloroethene	ND		1250	1200		ug/L		96	74 - 122
Toluene	160		1250	1300		ug/L		91	80 - 122
trans-1,2-Dichloroethene	ND		1250	1170		ug/L		93	73 - 127
Trichloroethene	ND		1250	1210		ug/L		97	74 - 123

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		66 - 137
Toluene-d8 (Surr)	101		71 - 126
4-Bromofluorobenzene (Surr)	100		73 - 120
Dibromofluoromethane (Surr)	99		60 - 140

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-56442-5 MSD

Matrix: Water

Analysis Batch: 172199

Client Sample ID: MW-03

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	ND		1250	1170		ug/L		94	71 - 129	1	20
1,1-Dichloroethene	ND		1250	1110		ug/L		88	58 - 121	1	16
1,2-Dichlorobenzene	ND		1250	1180		ug/L		95	80 - 124	1	20
1,2-Dichloroethane	ND		1250	1240		ug/L		99	75 - 127	1	20
Benzene	4500		1250	4920	F1	ug/L		33	71 - 124	2	13
Chlorobenzene	ND		1250	1160		ug/L		92	72 - 120	4	25
cis-1,2-Dichloroethene	ND		1250	1190		ug/L		95	74 - 124	1	15
Ethylbenzene	1600		1250	2480	F1	ug/L		68	77 - 123	5	15
Methyl tert-butyl ether	ND		1250	1150		ug/L		92	64 - 127	1	37
Tetrachloroethene	ND		1250	1180		ug/L		94	74 - 122	1	20
Toluene	160		1250	1280		ug/L		89	80 - 122	1	15
trans-1,2-Dichloroethene	ND		1250	1200		ug/L		96	73 - 127	3	20
Trichloroethene	ND		1250	1170		ug/L		93	74 - 123	4	16
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	99		66 - 137								
Toluene-d8 (Surr)	98		71 - 126								
4-Bromofluorobenzene (Surr)	98		73 - 120								
Dibromofluoromethane (Surr)	100		60 - 140								

QC Association Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

GC/MS VOA

Analysis Batch: 172132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-56442-1	MW-07	Total/NA	Water	8260C	
480-56442-2	MW-01	Total/NA	Water	8260C	
480-56442-3	MW-04	Total/NA	Water	8260C	
480-56442-4	MW-06	Total/NA	Water	8260C	
480-56442-5	MW-03	Total/NA	Water	8260C	
480-56442-6	MW-05	Total/NA	Water	8260C	
480-56442-7	TB	Total/NA	Water	8260C	
LCS 480-172132/4	Lab Control Sample	Total/NA	Water	8260C	
MB 480-172132/6	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 172199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-56442-5 - DL	MW-03	Total/NA	Water	8260C	
480-56442-5 MS	MW-03	Total/NA	Water	8260C	
480-56442-5 MSD	MW-03	Total/NA	Water	8260C	
480-56442-6 - DL	MW-05	Total/NA	Water	8260C	
LCS 480-172199/4	Lab Control Sample	Total/NA	Water	8260C	
MB 480-172199/6	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Client Sample ID: MW-07

Date Collected: 03/19/14 11:15

Date Received: 03/21/14 12:00

Lab Sample ID: 480-56442-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	172132	03/27/14 00:27	RAL	TAL BUF

Client Sample ID: MW-01

Date Collected: 03/19/14 12:09

Date Received: 03/21/14 12:00

Lab Sample ID: 480-56442-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	172132	03/27/14 00:51	RAL	TAL BUF

Client Sample ID: MW-04

Date Collected: 03/19/14 14:09

Date Received: 03/21/14 12:00

Lab Sample ID: 480-56442-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	172132	03/27/14 01:15	RAL	TAL BUF

Client Sample ID: MW-06

Date Collected: 03/19/14 15:39

Date Received: 03/21/14 12:00

Lab Sample ID: 480-56442-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	172132	03/27/14 01:39	RAL	TAL BUF

Client Sample ID: MW-03

Date Collected: 03/20/14 10:55

Date Received: 03/21/14 12:00

Lab Sample ID: 480-56442-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	172132	03/27/14 02:03	RAL	TAL BUF
Total/NA	Analysis	8260C	DL	50	172199	03/27/14 11:32	NMD1	TAL BUF

Client Sample ID: MW-05

Date Collected: 03/20/14 11:54

Date Received: 03/21/14 12:00

Lab Sample ID: 480-56442-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	172132	03/27/14 02:27	RAL	TAL BUF
Total/NA	Analysis	8260C	DL	80	172199	03/27/14 11:56	NMD1	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Client Sample ID: TB

Date Collected: 03/20/14 00:00

Date Received: 03/21/14 12:00

Lab Sample ID: 480-56442-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	172132	03/27/14 02:50	RAL	TAL BUF

Laboratory References:
TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-14 *

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Buffalo

Method Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-56442-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-56442-1	MW-07	Water	03/19/14 11:15	03/21/14 12:00
480-56442-2	MW-01	Water	03/19/14 12:09	03/21/14 12:00
480-56442-3	MW-04	Water	03/19/14 14:09	03/21/14 12:00
480-56442-4	MW-06	Water	03/19/14 15:39	03/21/14 12:00
480-56442-5	MW-03	Water	03/20/14 10:55	03/21/14 12:00
480-56442-6	MW-05	Water	03/20/14 11:54	03/21/14 12:00
480-56442-7	TB	Water	03/20/14 00:00	03/21/14 12:00

Login Sample Receipt Checklist

Client: C&S Engineers, Inc.

Job Number: 480-56442-1

Login Number: 56442

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	No tests are listed on the chain.
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	C+S
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-60411-1

Client Project/Site: Well Sampling - MOB

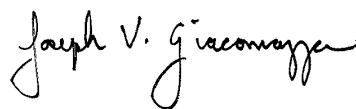
For:

C&S Engineers, Inc.

90 Broadway

Buffalo, New York 14203

Attn: Zubair Trabzada



Authorized for release by:

5/31/2014 11:23:52 AM

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-60411-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits
E	Result exceeded calibration range.
F1	MS and/or MSD Recovery exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-60411-1

Job ID: 480-60411-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-60411-1

Receipt

The samples were received on 5/22/2014 5:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 18.9° C.

Except:

The following sample(s) was received at the laboratory outside the required temperature criteria (2-6C): . The sample(s) is considered acceptable since it was collected and submitted to the laboratory on the same day.

GC/MS VOA

Method(s) 8260C: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for batch 184565 recovered outside control limits for the following analyte(s): Dichlorodifluoromethane. Dichlorodifluoromethane has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

Method(s) 8260C: The following sample(s) was diluted to bring the concentration of target analytes within the calibration range: (480-60411-2 MS), (480-60411-2 MSD), BCP MW-03 (480-60411-2), BCP MW-05 (480-60411-4). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following sample(s) was diluted to bring the concentration of target analytes within the calibration range: BCP MW-04 (480-60411-3), BCP MW-06 (480-60411-5). Elevated reporting limits (RLs) are provided.
No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-60411-1

Client Sample ID: BCP MW-01

Lab Sample ID: 480-60411-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.94	J	1.0	0.19	ug/L	1		8260C	Total/NA
Methylcyclohexane	0.47	J	1.0	0.16	ug/L	1		8260C	Total/NA

Client Sample ID: BCP MW-03

Lab Sample ID: 480-60411-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	4700		50	21	ug/L	50		8260C	Total/NA
Cyclohexane	270		50	9.0	ug/L	50		8260C	Total/NA
Ethylbenzene	1500		50	37	ug/L	50		8260C	Total/NA
Methylcyclohexane	150		50	8.0	ug/L	50		8260C	Total/NA
Toluene	150		50	26	ug/L	50		8260C	Total/NA
Xylenes, Total	3200		100	33	ug/L	50		8260C	Total/NA

Client Sample ID: BCP MW-04

Lab Sample ID: 480-60411-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	170		20	6.0	ug/L	2		8260C	Total/NA
Benzene	15		2.0	0.82	ug/L	2		8260C	Total/NA
Carbon disulfide	1.9	J	2.0	0.38	ug/L	2		8260C	Total/NA
Cyclohexane	7.0		2.0	0.36	ug/L	2		8260C	Total/NA
Ethylbenzene	32		2.0	1.5	ug/L	2		8260C	Total/NA
Methylcyclohexane	3.1		2.0	0.32	ug/L	2		8260C	Total/NA
Methylene Chloride	1.0	J	2.0	0.88	ug/L	2		8260C	Total/NA
Toluene	110		2.0	1.0	ug/L	2		8260C	Total/NA
Xylenes, Total	160		4.0	1.3	ug/L	2		8260C	Total/NA

Client Sample ID: BCP MW-05

Lab Sample ID: 480-60411-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	160	J	800	110	ug/L	80		8260C	Total/NA
Benzene	4900		80	33	ug/L	80		8260C	Total/NA
Cyclohexane	240		80	14	ug/L	80		8260C	Total/NA
Ethylbenzene	1600		80	59	ug/L	80		8260C	Total/NA
Methylcyclohexane	150		80	13	ug/L	80		8260C	Total/NA
Toluene	310		80	41	ug/L	80		8260C	Total/NA
Xylenes, Total	8300		160	53	ug/L	80		8260C	Total/NA

Client Sample ID: BCP MW-06

Lab Sample ID: 480-60411-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	16		2.0	0.82	ug/L	2		8260C	Total/NA
Cyclohexane	130		2.0	0.36	ug/L	2		8260C	Total/NA
Ethylbenzene	31		2.0	1.5	ug/L	2		8260C	Total/NA
Isopropylbenzene	1.9	J	2.0	1.6	ug/L	2		8260C	Total/NA
Methylcyclohexane	18		2.0	0.32	ug/L	2		8260C	Total/NA
Toluene	79		2.0	1.0	ug/L	2		8260C	Total/NA
Xylenes, Total	150		4.0	1.3	ug/L	2		8260C	Total/NA

Client Sample ID: BCP MW-07

Lab Sample ID: 480-60411-6

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-60411-1

Client Sample ID: BCP MW-07 (Continued)

Lab Sample ID: 480-60411-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Hexanone	4.8	J	5.0	1.2	ug/L	1		8260C	Total/NA
2-Butanone (MEK)	2.8	J	10	1.3	ug/L	1		8260C	Total/NA
4-Methyl-2-pentanone (MIBK)	3.4	J	5.0	2.1	ug/L	1		8260C	Total/NA
Benzene	14		1.0	0.41	ug/L	1		8260C	Total/NA
Carbon disulfide	0.97	J	1.0	0.19	ug/L	1		8260C	Total/NA
Cyclohexane	9.6		1.0	0.18	ug/L	1		8260C	Total/NA
Ethylbenzene	3.0		1.0	0.74	ug/L	1		8260C	Total/NA
Methylcyclohexane	5.1		1.0	0.16	ug/L	1		8260C	Total/NA
Toluene	4.7		1.0	0.51	ug/L	1		8260C	Total/NA
Xylenes, Total	94		2.0	0.66	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-60411-1

Client Sample ID: BCP MW-01

Lab Sample ID: 480-60411-1

Date Collected: 05/22/14 09:50

Matrix: Water

Date Received: 05/22/14 17:10

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/29/14 14:13	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			05/29/14 14:13	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			05/29/14 14:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			05/29/14 14:13	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			05/29/14 14:13	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			05/29/14 14:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			05/29/14 14:13	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			05/29/14 14:13	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			05/29/14 14:13	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			05/29/14 14:13	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			05/29/14 14:13	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			05/29/14 14:13	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			05/29/14 14:13	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			05/29/14 14:13	1
2-Hexanone	ND		5.0	1.2	ug/L			05/29/14 14:13	1
2-Butanone (MEK)	ND		10	1.3	ug/L			05/29/14 14:13	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			05/29/14 14:13	1
Acetone	ND		10	3.0	ug/L			05/29/14 14:13	1
Benzene	ND		1.0	0.41	ug/L			05/29/14 14:13	1
Bromodichloromethane	ND		1.0	0.39	ug/L			05/29/14 14:13	1
Bromoform	ND		1.0	0.26	ug/L			05/29/14 14:13	1
Bromomethane	ND		1.0	0.69	ug/L			05/29/14 14:13	1
Carbon disulfide	0.94	J	1.0	0.19	ug/L			05/29/14 14:13	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			05/29/14 14:13	1
Chlorobenzene	ND		1.0	0.75	ug/L			05/29/14 14:13	1
Dibromochloromethane	ND		1.0	0.32	ug/L			05/29/14 14:13	1
Chloroethane	ND		1.0	0.32	ug/L			05/29/14 14:13	1
Chloroform	ND		1.0	0.34	ug/L			05/29/14 14:13	1
Chloromethane	ND		1.0	0.35	ug/L			05/29/14 14:13	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/29/14 14:13	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			05/29/14 14:13	1
Cyclohexane	ND		1.0	0.18	ug/L			05/29/14 14:13	1
Dichlorodifluoromethane	ND	*	1.0	0.68	ug/L			05/29/14 14:13	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/29/14 14:13	1
Isopropylbenzene	ND		1.0	0.79	ug/L			05/29/14 14:13	1
Methyl acetate	ND		2.5	0.50	ug/L			05/29/14 14:13	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/29/14 14:13	1
Methylcyclohexane	0.47	J	1.0	0.16	ug/L			05/29/14 14:13	1
Methylene Chloride	ND		1.0	0.44	ug/L			05/29/14 14:13	1
Styrene	ND		1.0	0.73	ug/L			05/29/14 14:13	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/29/14 14:13	1
Toluene	ND		1.0	0.51	ug/L			05/29/14 14:13	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/29/14 14:13	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			05/29/14 14:13	1
Trichloroethene	ND		1.0	0.46	ug/L			05/29/14 14:13	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			05/29/14 14:13	1
Vinyl chloride	ND		1.0	0.90	ug/L			05/29/14 14:13	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/29/14 14:13	1

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-60411-1

Client Sample ID: BCP MW-01

Lab Sample ID: 480-60411-1

Date Collected: 05/22/14 09:50

Matrix: Water

Date Received: 05/22/14 17:10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		66 - 137		05/29/14 14:13	1
Toluene-d8 (Surr)	101		71 - 126		05/29/14 14:13	1
4-Bromofluorobenzene (Surr)	98		73 - 120		05/29/14 14:13	1
Dibromofluoromethane (Surr)	100		60 - 140		05/29/14 14:13	1

Client Sample ID: BCP MW-03

Lab Sample ID: 480-60411-2

Date Collected: 05/22/14 12:00

Matrix: Water

Date Received: 05/22/14 17:10

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		50	41	ug/L			05/29/14 14:35	50
1,1,1,2-Tetrachloroethane	ND		50	11	ug/L			05/29/14 14:35	50
1,1,2-Trichloroethane	ND		50	12	ug/L			05/29/14 14:35	50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	16	ug/L			05/29/14 14:35	50
1,1-Dichloroethane	ND		50	19	ug/L			05/29/14 14:35	50
1,1-Dichloroethene	ND		50	15	ug/L			05/29/14 14:35	50
1,2,4-Trichlorobenzene	ND		50	21	ug/L			05/29/14 14:35	50
1,2-Dibromo-3-Chloropropane	ND		50	20	ug/L			05/29/14 14:35	50
1,2-Dibromoethane	ND		50	37	ug/L			05/29/14 14:35	50
1,2-Dichlorobenzene	ND		50	40	ug/L			05/29/14 14:35	50
1,2-Dichloroethane	ND		50	11	ug/L			05/29/14 14:35	50
1,2-Dichloropropane	ND		50	36	ug/L			05/29/14 14:35	50
1,3-Dichlorobenzene	ND		50	39	ug/L			05/29/14 14:35	50
1,4-Dichlorobenzene	ND		50	42	ug/L			05/29/14 14:35	50
2-Hexanone	ND		250	62	ug/L			05/29/14 14:35	50
2-Butanone (MEK)	ND		500	66	ug/L			05/29/14 14:35	50
4-Methyl-2-pentanone (MIBK)	ND		250	110	ug/L			05/29/14 14:35	50
Acetone	ND		500	150	ug/L			05/29/14 14:35	50
Benzene	4700		50	21	ug/L			05/29/14 14:35	50
Bromodichloromethane	ND		50	20	ug/L			05/29/14 14:35	50
Bromoform	ND		50	13	ug/L			05/29/14 14:35	50
Bromomethane	ND		50	35	ug/L			05/29/14 14:35	50
Carbon disulfide	ND		50	9.5	ug/L			05/29/14 14:35	50
Carbon tetrachloride	ND		50	14	ug/L			05/29/14 14:35	50
Chlorobenzene	ND		50	38	ug/L			05/29/14 14:35	50
Dibromochloromethane	ND		50	16	ug/L			05/29/14 14:35	50
Chloroethane	ND		50	16	ug/L			05/29/14 14:35	50
Chloroform	ND		50	17	ug/L			05/29/14 14:35	50
Chloromethane	ND		50	18	ug/L			05/29/14 14:35	50
cis-1,2-Dichloroethene	ND		50	41	ug/L			05/29/14 14:35	50
cis-1,3-Dichloropropene	ND		50	18	ug/L			05/29/14 14:35	50
Cyclohexane	270		50	9.0	ug/L			05/29/14 14:35	50
Dichlorodifluoromethane	ND *		50	34	ug/L			05/29/14 14:35	50
Ethylbenzene	1500		50	37	ug/L			05/29/14 14:35	50
Isopropylbenzene	ND		50	40	ug/L			05/29/14 14:35	50
Methyl acetate	ND		130	25	ug/L			05/29/14 14:35	50
Methyl tert-butyl ether	ND		50	8.0	ug/L			05/29/14 14:35	50
Methylcyclohexane	150		50	8.0	ug/L			05/29/14 14:35	50
Methylene Chloride	ND		50	22	ug/L			05/29/14 14:35	50

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-60411-1

Client Sample ID: BCP MW-03

Lab Sample ID: 480-60411-2

Date Collected: 05/22/14 12:00

Matrix: Water

Date Received: 05/22/14 17:10

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		50	37	ug/L			05/29/14 14:35	50
Tetrachloroethene	ND		50	18	ug/L			05/29/14 14:35	50
Toluene	150		50	26	ug/L			05/29/14 14:35	50
trans-1,2-Dichloroethene	ND		50	45	ug/L			05/29/14 14:35	50
trans-1,3-Dichloropropene	ND		50	19	ug/L			05/29/14 14:35	50
Trichloroethene	ND		50	23	ug/L			05/29/14 14:35	50
Trichlorofluoromethane	ND		50	44	ug/L			05/29/14 14:35	50
Vinyl chloride	ND		50	45	ug/L			05/29/14 14:35	50
Xylenes, Total	3200		100	33	ug/L			05/29/14 14:35	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		66 - 137		05/29/14 14:35	50
Toluene-d8 (Surr)	104		71 - 126		05/29/14 14:35	50
4-Bromofluorobenzene (Surr)	100		73 - 120		05/29/14 14:35	50
Dibromofluoromethane (Surr)	102		60 - 140		05/29/14 14:35	50

Client Sample ID: BCP MW-04

Lab Sample ID: 480-60411-3

Date Collected: 05/22/14 10:55

Matrix: Water

Date Received: 05/22/14 17:10

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			05/30/14 01:03	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			05/30/14 01:03	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			05/30/14 01:03	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			05/30/14 01:03	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			05/30/14 01:03	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			05/30/14 01:03	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			05/30/14 01:03	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			05/30/14 01:03	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			05/30/14 01:03	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			05/30/14 01:03	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			05/30/14 01:03	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			05/30/14 01:03	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			05/30/14 01:03	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			05/30/14 01:03	2
2-Hexanone	ND		10	2.5	ug/L			05/30/14 01:03	2
2-Butanone (MEK)	ND		20	2.6	ug/L			05/30/14 01:03	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			05/30/14 01:03	2
Acetone	170		20	6.0	ug/L			05/30/14 01:03	2
Benzene	15		2.0	0.82	ug/L			05/30/14 01:03	2
Bromodichloromethane	ND		2.0	0.78	ug/L			05/30/14 01:03	2
Bromoform	ND		2.0	0.52	ug/L			05/30/14 01:03	2
Bromomethane	ND		2.0	1.4	ug/L			05/30/14 01:03	2
Carbon disulfide	1.9 J		2.0	0.38	ug/L			05/30/14 01:03	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			05/30/14 01:03	2
Chlorobenzene	ND		2.0	1.5	ug/L			05/30/14 01:03	2
Dibromochloromethane	ND		2.0	0.64	ug/L			05/30/14 01:03	2
Chloroethane	ND		2.0	0.64	ug/L			05/30/14 01:03	2
Chloroform	ND		2.0	0.68	ug/L			05/30/14 01:03	2

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-60411-1

Client Sample ID: BCP MW-04

Lab Sample ID: 480-60411-3

Date Collected: 05/22/14 10:55

Matrix: Water

Date Received: 05/22/14 17:10

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		2.0	0.70	ug/L			05/30/14 01:03	2
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			05/30/14 01:03	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			05/30/14 01:03	2
Cyclohexane	7.0		2.0	0.36	ug/L			05/30/14 01:03	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			05/30/14 01:03	2
Ethylbenzene	32		2.0	1.5	ug/L			05/30/14 01:03	2
Isopropylbenzene	ND		2.0	1.6	ug/L			05/30/14 01:03	2
Methyl acetate	ND		5.0	1.0	ug/L			05/30/14 01:03	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			05/30/14 01:03	2
Methylcyclohexane	3.1		2.0	0.32	ug/L			05/30/14 01:03	2
Methylene Chloride	1.0 J		2.0	0.88	ug/L			05/30/14 01:03	2
Styrene	ND		2.0	1.5	ug/L			05/30/14 01:03	2
Tetrachloroethene	ND		2.0	0.72	ug/L			05/30/14 01:03	2
Toluene	110		2.0	1.0	ug/L			05/30/14 01:03	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			05/30/14 01:03	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			05/30/14 01:03	2
Trichloroethene	ND		2.0	0.92	ug/L			05/30/14 01:03	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			05/30/14 01:03	2
Vinyl chloride	ND		2.0	1.8	ug/L			05/30/14 01:03	2
Xylenes, Total	160		4.0	1.3	ug/L			05/30/14 01:03	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		66 - 137		05/30/14 01:03	2
Toluene-d8 (Surr)	106		71 - 126		05/30/14 01:03	2
4-Bromofluorobenzene (Surr)	105		73 - 120		05/30/14 01:03	2
Dibromofluoromethane (Surr)	107		60 - 140		05/30/14 01:03	2

Client Sample ID: BCP MW-05

Lab Sample ID: 480-60411-4

Date Collected: 05/22/14 11:30

Matrix: Water

Date Received: 05/22/14 17:10

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		80	66	ug/L			05/29/14 15:19	80
1,1,1,2-Tetrachloroethane	ND		80	17	ug/L			05/29/14 15:19	80
1,1,1,2-Trichloroethane	ND		80	18	ug/L			05/29/14 15:19	80
1,1,1,2-Trichloro-1,2,2-trifluoroethane	ND		80	25	ug/L			05/29/14 15:19	80
1,1-Dichloroethane	ND		80	30	ug/L			05/29/14 15:19	80
1,1-Dichloroethene	ND		80	23	ug/L			05/29/14 15:19	80
1,2,4-Trichlorobenzene	ND		80	33	ug/L			05/29/14 15:19	80
1,2-Dibromo-3-Chloropropane	ND		80	31	ug/L			05/29/14 15:19	80
1,2-Dibromoethane	ND		80	58	ug/L			05/29/14 15:19	80
1,2-Dichlorobenzene	ND		80	63	ug/L			05/29/14 15:19	80
1,2-Dichloroethane	ND		80	17	ug/L			05/29/14 15:19	80
1,2-Dichloropropane	ND		80	58	ug/L			05/29/14 15:19	80
1,3-Dichlorobenzene	ND		80	62	ug/L			05/29/14 15:19	80
1,4-Dichlorobenzene	ND		80	67	ug/L			05/29/14 15:19	80
2-Hexanone	ND		400	99	ug/L			05/29/14 15:19	80
2-Butanone (MEK)	160 J		800	110	ug/L			05/29/14 15:19	80
4-Methyl-2-pentanone (MIBK)	ND		400	170	ug/L			05/29/14 15:19	80

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-60411-1

Client Sample ID: BCP MW-05

Lab Sample ID: 480-60411-4

Date Collected: 05/22/14 11:30

Matrix: Water

Date Received: 05/22/14 17:10

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		800	240	ug/L			05/29/14 15:19	80
Benzene	4900		80	33	ug/L			05/29/14 15:19	80
Bromodichloromethane	ND		80	31	ug/L			05/29/14 15:19	80
Bromoform	ND		80	21	ug/L			05/29/14 15:19	80
Bromomethane	ND		80	55	ug/L			05/29/14 15:19	80
Carbon disulfide	ND		80	15	ug/L			05/29/14 15:19	80
Carbon tetrachloride	ND		80	22	ug/L			05/29/14 15:19	80
Chlorobenzene	ND		80	60	ug/L			05/29/14 15:19	80
Dibromochloromethane	ND		80	26	ug/L			05/29/14 15:19	80
Chloroethane	ND		80	26	ug/L			05/29/14 15:19	80
Chloroform	ND		80	27	ug/L			05/29/14 15:19	80
Chloromethane	ND		80	28	ug/L			05/29/14 15:19	80
cis-1,2-Dichloroethene	ND		80	65	ug/L			05/29/14 15:19	80
cis-1,3-Dichloropropene	ND		80	29	ug/L			05/29/14 15:19	80
Cyclohexane	240		80	14	ug/L			05/29/14 15:19	80
Dichlorodifluoromethane	ND *		80	54	ug/L			05/29/14 15:19	80
Ethylbenzene	1600		80	59	ug/L			05/29/14 15:19	80
Isopropylbenzene	ND		80	63	ug/L			05/29/14 15:19	80
Methyl acetate	ND		200	40	ug/L			05/29/14 15:19	80
Methyl tert-butyl ether	ND		80	13	ug/L			05/29/14 15:19	80
Methylcyclohexane	150		80	13	ug/L			05/29/14 15:19	80
Methylene Chloride	ND		80	35	ug/L			05/29/14 15:19	80
Styrene	ND		80	58	ug/L			05/29/14 15:19	80
Tetrachloroethene	ND		80	29	ug/L			05/29/14 15:19	80
Toluene	310		80	41	ug/L			05/29/14 15:19	80
trans-1,2-Dichloroethene	ND		80	72	ug/L			05/29/14 15:19	80
trans-1,3-Dichloropropene	ND		80	30	ug/L			05/29/14 15:19	80
Trichloroethene	ND		80	37	ug/L			05/29/14 15:19	80
Trichlorofluoromethane	ND		80	70	ug/L			05/29/14 15:19	80
Vinyl chloride	ND		80	72	ug/L			05/29/14 15:19	80
Xylenes, Total	8300		160	53	ug/L			05/29/14 15:19	80

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		66 - 137		05/29/14 15:19	80
Toluene-d8 (Surr)	105		71 - 126		05/29/14 15:19	80
4-Bromofluorobenzene (Surr)	102		73 - 120		05/29/14 15:19	80
Dibromofluoromethane (Surr)	102		60 - 140		05/29/14 15:19	80

Client Sample ID: BCP MW-06

Lab Sample ID: 480-60411-5

Date Collected: 05/22/14 10:23

Matrix: Water

Date Received: 05/22/14 17:10

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			05/30/14 01:25	2
1,1,1,2-Tetrachloroethane	ND		2.0	0.42	ug/L			05/30/14 01:25	2
1,1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			05/30/14 01:25	2
1,1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			05/30/14 01:25	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			05/30/14 01:25	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			05/30/14 01:25	2

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-60411-1

Client Sample ID: BCP MW-06

Lab Sample ID: 480-60411-5

Date Collected: 05/22/14 10:23

Matrix: Water

Date Received: 05/22/14 17:10

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			05/30/14 01:25	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			05/30/14 01:25	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			05/30/14 01:25	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			05/30/14 01:25	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			05/30/14 01:25	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			05/30/14 01:25	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			05/30/14 01:25	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			05/30/14 01:25	2
2-Hexanone	ND		10	2.5	ug/L			05/30/14 01:25	2
2-Butanone (MEK)	ND		20	2.6	ug/L			05/30/14 01:25	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			05/30/14 01:25	2
Acetone	ND		20	6.0	ug/L			05/30/14 01:25	2
Benzene	16		2.0	0.82	ug/L			05/30/14 01:25	2
Bromodichloromethane	ND		2.0	0.78	ug/L			05/30/14 01:25	2
Bromoform	ND		2.0	0.52	ug/L			05/30/14 01:25	2
Bromomethane	ND		2.0	1.4	ug/L			05/30/14 01:25	2
Carbon disulfide	ND		2.0	0.38	ug/L			05/30/14 01:25	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			05/30/14 01:25	2
Chlorobenzene	ND		2.0	1.5	ug/L			05/30/14 01:25	2
Dibromochloromethane	ND		2.0	0.64	ug/L			05/30/14 01:25	2
Chloroethane	ND		2.0	0.64	ug/L			05/30/14 01:25	2
Chloroform	ND		2.0	0.68	ug/L			05/30/14 01:25	2
Chloromethane	ND		2.0	0.70	ug/L			05/30/14 01:25	2
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			05/30/14 01:25	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			05/30/14 01:25	2
Cyclohexane	130		2.0	0.36	ug/L			05/30/14 01:25	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			05/30/14 01:25	2
Ethylbenzene	31		2.0	1.5	ug/L			05/30/14 01:25	2
Isopropylbenzene	1.9 J		2.0	1.6	ug/L			05/30/14 01:25	2
Methyl acetate	ND		5.0	1.0	ug/L			05/30/14 01:25	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			05/30/14 01:25	2
Methylcyclohexane	18		2.0	0.32	ug/L			05/30/14 01:25	2
Methylene Chloride	ND		2.0	0.88	ug/L			05/30/14 01:25	2
Styrene	ND		2.0	1.5	ug/L			05/30/14 01:25	2
Tetrachloroethene	ND		2.0	0.72	ug/L			05/30/14 01:25	2
Toluene	79		2.0	1.0	ug/L			05/30/14 01:25	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			05/30/14 01:25	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			05/30/14 01:25	2
Trichloroethene	ND		2.0	0.92	ug/L			05/30/14 01:25	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			05/30/14 01:25	2
Vinyl chloride	ND		2.0	1.8	ug/L			05/30/14 01:25	2
Xylenes, Total	150		4.0	1.3	ug/L			05/30/14 01:25	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	122		66 - 137		05/30/14 01:25	2
Toluene-d8 (Surr)	97		71 - 126		05/30/14 01:25	2
4-Bromofluorobenzene (Surr)	96		73 - 120		05/30/14 01:25	2
Dibromofluoromethane (Surr)	101		60 - 140		05/30/14 01:25	2

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-60411-1

Client Sample ID: BCP MW-07

Lab Sample ID: 480-60411-6

Date Collected: 05/21/14 10:40

Matrix: Water

Date Received: 05/22/14 17:10

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/29/14 16:03	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			05/29/14 16:03	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			05/29/14 16:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			05/29/14 16:03	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			05/29/14 16:03	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			05/29/14 16:03	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			05/29/14 16:03	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			05/29/14 16:03	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			05/29/14 16:03	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			05/29/14 16:03	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			05/29/14 16:03	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			05/29/14 16:03	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			05/29/14 16:03	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			05/29/14 16:03	1
2-Hexanone	4.8	J	5.0	1.2	ug/L			05/29/14 16:03	1
2-Butanone (MEK)	2.8	J	10	1.3	ug/L			05/29/14 16:03	1
4-Methyl-2-pentanone (MIBK)	3.4	J	5.0	2.1	ug/L			05/29/14 16:03	1
Acetone	ND		10	3.0	ug/L			05/29/14 16:03	1
Benzene	14		1.0	0.41	ug/L			05/29/14 16:03	1
Bromodichloromethane	ND		1.0	0.39	ug/L			05/29/14 16:03	1
Bromoform	ND		1.0	0.26	ug/L			05/29/14 16:03	1
Bromomethane	ND		1.0	0.69	ug/L			05/29/14 16:03	1
Carbon disulfide	0.97	J	1.0	0.19	ug/L			05/29/14 16:03	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			05/29/14 16:03	1
Chlorobenzene	ND		1.0	0.75	ug/L			05/29/14 16:03	1
Dibromochloromethane	ND		1.0	0.32	ug/L			05/29/14 16:03	1
Chloroethane	ND		1.0	0.32	ug/L			05/29/14 16:03	1
Chloroform	ND		1.0	0.34	ug/L			05/29/14 16:03	1
Chloromethane	ND		1.0	0.35	ug/L			05/29/14 16:03	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/29/14 16:03	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			05/29/14 16:03	1
Cyclohexane	9.6		1.0	0.18	ug/L			05/29/14 16:03	1
Dichlorodifluoromethane	ND *		1.0	0.68	ug/L			05/29/14 16:03	1
Ethylbenzene	3.0		1.0	0.74	ug/L			05/29/14 16:03	1
Isopropylbenzene	ND		1.0	0.79	ug/L			05/29/14 16:03	1
Methyl acetate	ND		2.5	0.50	ug/L			05/29/14 16:03	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/29/14 16:03	1
Methylcyclohexane	5.1		1.0	0.16	ug/L			05/29/14 16:03	1
Methylene Chloride	ND		1.0	0.44	ug/L			05/29/14 16:03	1
Styrene	ND		1.0	0.73	ug/L			05/29/14 16:03	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/29/14 16:03	1
Toluene	4.7		1.0	0.51	ug/L			05/29/14 16:03	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/29/14 16:03	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			05/29/14 16:03	1
Trichloroethene	ND		1.0	0.46	ug/L			05/29/14 16:03	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			05/29/14 16:03	1
Vinyl chloride	ND		1.0	0.90	ug/L			05/29/14 16:03	1
Xylenes, Total	94		2.0	0.66	ug/L			05/29/14 16:03	1

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-60411-1

Client Sample ID: BCP MW-07

Lab Sample ID: 480-60411-6

Date Collected: 05/21/14 10:40

Matrix: Water

Date Received: 05/22/14 17:10

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	123		66 - 137		05/29/14 16:03	1
Toluene-d8 (Surr)	105		71 - 126		05/29/14 16:03	1
4-Bromofluorobenzene (Surr)	105		73 - 120		05/29/14 16:03	1
Dibromofluoromethane (Surr)	102		60 - 140		05/29/14 16:03	1

Surrogate Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-60411-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (66-137)	TOL (71-126)	BFB (73-120)	DBFM (60-140)
480-60411-1	BCP MW-01	106	101	98	100
480-60411-2	BCP MW-03	116	104	100	102
480-60411-2 MS	BCP MW-03	112	104	104	107
480-60411-2 MSD	BCP MW-03	110	102	105	104
480-60411-3	BCP MW-04	113	106	105	107
480-60411-4	BCP MW-05	116	105	102	102
480-60411-5	BCP MW-06	122	97	96	101
480-60411-6	BCP MW-07	123	105	105	102
LCS 480-184565/5	Lab Control Sample	106	104	104	106
LCS 480-184727/6	Lab Control Sample	111	108	108	112
MB 480-184565/7	Method Blank	108	104	96	104
MB 480-184727/8	Method Blank	111	106	98	104

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-60411-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-184565/7

Matrix: Water

Analysis Batch: 184565

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/29/14 11:26	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			05/29/14 11:26	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			05/29/14 11:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			05/29/14 11:26	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			05/29/14 11:26	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			05/29/14 11:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			05/29/14 11:26	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			05/29/14 11:26	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			05/29/14 11:26	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			05/29/14 11:26	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			05/29/14 11:26	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			05/29/14 11:26	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			05/29/14 11:26	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			05/29/14 11:26	1
2-Hexanone	ND		5.0	1.2	ug/L			05/29/14 11:26	1
2-Butanone (MEK)	ND		10	1.3	ug/L			05/29/14 11:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			05/29/14 11:26	1
Acetone	ND		10	3.0	ug/L			05/29/14 11:26	1
Benzene	ND		1.0	0.41	ug/L			05/29/14 11:26	1
Bromodichloromethane	ND		1.0	0.39	ug/L			05/29/14 11:26	1
Bromoform	ND		1.0	0.26	ug/L			05/29/14 11:26	1
Bromomethane	ND		1.0	0.69	ug/L			05/29/14 11:26	1
Carbon disulfide	ND		1.0	0.19	ug/L			05/29/14 11:26	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			05/29/14 11:26	1
Chlorobenzene	ND		1.0	0.75	ug/L			05/29/14 11:26	1
Dibromochloromethane	ND		1.0	0.32	ug/L			05/29/14 11:26	1
Chloroethane	ND		1.0	0.32	ug/L			05/29/14 11:26	1
Chloroform	ND		1.0	0.34	ug/L			05/29/14 11:26	1
Chloromethane	ND		1.0	0.35	ug/L			05/29/14 11:26	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/29/14 11:26	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			05/29/14 11:26	1
Cyclohexane	ND		1.0	0.18	ug/L			05/29/14 11:26	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			05/29/14 11:26	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/29/14 11:26	1
Isopropylbenzene	ND		1.0	0.79	ug/L			05/29/14 11:26	1
Methyl acetate	ND		2.5	0.50	ug/L			05/29/14 11:26	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/29/14 11:26	1
Methylcyclohexane	ND		1.0	0.16	ug/L			05/29/14 11:26	1
Methylene Chloride	ND		1.0	0.44	ug/L			05/29/14 11:26	1
Styrene	ND		1.0	0.73	ug/L			05/29/14 11:26	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/29/14 11:26	1
Toluene	ND		1.0	0.51	ug/L			05/29/14 11:26	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/29/14 11:26	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			05/29/14 11:26	1
Trichloroethene	ND		1.0	0.46	ug/L			05/29/14 11:26	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			05/29/14 11:26	1
Vinyl chloride	ND		1.0	0.90	ug/L			05/29/14 11:26	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/29/14 11:26	1

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-60411-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-184565/7

Matrix: Water

Analysis Batch: 184565

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		66 - 137		05/29/14 11:26	1
Toluene-d8 (Surr)	104		71 - 126		05/29/14 11:26	1
4-Bromofluorobenzene (Surr)	96		73 - 120		05/29/14 11:26	1
Dibromofluoromethane (Surr)	104		60 - 140		05/29/14 11:26	1

Lab Sample ID: LCS 480-184565/5

Matrix: Water

Analysis Batch: 184565

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	25.0	24.7		ug/L		99	71 - 129
1,1-Dichloroethene	25.0	25.0		ug/L		100	58 - 121
1,2-Dichlorobenzene	25.0	25.5		ug/L		102	80 - 124
1,2-Dichloroethane	25.0	24.7		ug/L		99	75 - 127
Benzene	25.0	24.5		ug/L		98	71 - 124
Chlorobenzene	25.0	25.0		ug/L		100	72 - 120
cis-1,2-Dichloroethene	25.0	25.3		ug/L		101	74 - 124
Ethylbenzene	25.0	25.6		ug/L		102	77 - 123
Methyl tert-butyl ether	25.0	26.0		ug/L		104	64 - 127
Tetrachloroethene	25.0	22.5		ug/L		90	74 - 122
Toluene	25.0	25.0		ug/L		100	80 - 122
trans-1,2-Dichloroethene	25.0	24.8		ug/L		99	73 - 127
Trichloroethene	25.0	24.5		ug/L		98	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		66 - 137
Toluene-d8 (Surr)	104		71 - 126
4-Bromofluorobenzene (Surr)	104		73 - 120
Dibromofluoromethane (Surr)	106		60 - 140

Lab Sample ID: 480-60411-2 MS

Matrix: Water

Analysis Batch: 184565

Client Sample ID: BCP MW-03

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	ND		1250	1250		ug/L		100	71 - 129
1,1-Dichloroethene	ND		1250	1240		ug/L		99	58 - 121
1,2-Dichlorobenzene	ND		1250	1310		ug/L		105	80 - 124
1,2-Dichloroethane	ND		1250	1390		ug/L		111	75 - 127
Benzene	4700		1250	5630	E	ug/L		78	71 - 124
Chlorobenzene	ND		1250	1280		ug/L		103	72 - 120
cis-1,2-Dichloroethene	ND		1250	1300		ug/L		104	74 - 124
Ethylbenzene	1500		1250	2690		ug/L		96	77 - 123
Methyl tert-butyl ether	ND		1250	1240		ug/L		99	64 - 127
Tetrachloroethene	ND		1250	1190		ug/L		95	74 - 122
Toluene	150		1250	1400		ug/L		100	80 - 122
trans-1,2-Dichloroethene	ND		1250	1260		ug/L		101	73 - 127
Trichloroethene	ND		1250	1250		ug/L		100	74 - 123

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-60411-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-60411-2 MS

Matrix: Water

Analysis Batch: 184565

Client Sample ID: BCP MW-03

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	112		66 - 137
Toluene-d8 (Surr)	104		71 - 126
4-Bromofluorobenzene (Surr)	104		73 - 120
Dibromofluoromethane (Surr)	107		60 - 140

Lab Sample ID: 480-60411-2 MSD

Matrix: Water

Analysis Batch: 184565

Client Sample ID: BCP MW-03

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	ND		1250	1200		ug/L		96	71 - 129	4	20
1,1-Dichloroethene	ND		1250	1130		ug/L		91	58 - 121	9	16
1,2-Dichlorobenzene	ND		1250	1270		ug/L		101	80 - 124	3	20
1,2-Dichloroethane	ND		1250	1340		ug/L		107	75 - 127	4	20
Benzene	4700		1250	5370	E F1	ug/L		57	71 - 124	5	13
Chlorobenzene	ND		1250	1230		ug/L		99	72 - 120	4	25
cis-1,2-Dichloroethene	ND		1250	1230		ug/L		99	74 - 124	5	15
Ethylbenzene	1500		1250	2570		ug/L		86	77 - 123	5	15
Methyl tert-butyl ether	ND		1250	1230		ug/L		98	64 - 127	1	37
Tetrachloroethene	ND		1250	1110		ug/L		89	74 - 122	7	20
Toluene	150		1250	1350		ug/L		96	80 - 122	4	15
trans-1,2-Dichloroethene	ND		1250	1190		ug/L		95	73 - 127	6	20
Trichloroethene	ND		1250	1200		ug/L		96	74 - 123	4	16

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	110		66 - 137
Toluene-d8 (Surr)	102		71 - 126
4-Bromofluorobenzene (Surr)	105		73 - 120
Dibromofluoromethane (Surr)	104		60 - 140

Lab Sample ID: MB 480-184727/8

Matrix: Water

Analysis Batch: 184727

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/30/14 00:03	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			05/30/14 00:03	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			05/30/14 00:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			05/30/14 00:03	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			05/30/14 00:03	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			05/30/14 00:03	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			05/30/14 00:03	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			05/30/14 00:03	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			05/30/14 00:03	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			05/30/14 00:03	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			05/30/14 00:03	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			05/30/14 00:03	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			05/30/14 00:03	1

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-60411-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-184727/8

Matrix: Water

Analysis Batch: 184727

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			05/30/14 00:03	1
2-Hexanone	ND		5.0	1.2	ug/L			05/30/14 00:03	1
2-Butanone (MEK)	ND		10	1.3	ug/L			05/30/14 00:03	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			05/30/14 00:03	1
Acetone	ND		10	3.0	ug/L			05/30/14 00:03	1
Benzene	ND		1.0	0.41	ug/L			05/30/14 00:03	1
Bromodichloromethane	ND		1.0	0.39	ug/L			05/30/14 00:03	1
Bromoform	ND		1.0	0.26	ug/L			05/30/14 00:03	1
Bromomethane	ND		1.0	0.69	ug/L			05/30/14 00:03	1
Carbon disulfide	ND		1.0	0.19	ug/L			05/30/14 00:03	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			05/30/14 00:03	1
Chlorobenzene	ND		1.0	0.75	ug/L			05/30/14 00:03	1
Dibromochloromethane	ND		1.0	0.32	ug/L			05/30/14 00:03	1
Chloroethane	ND		1.0	0.32	ug/L			05/30/14 00:03	1
Chloroform	ND		1.0	0.34	ug/L			05/30/14 00:03	1
Chloromethane	ND		1.0	0.35	ug/L			05/30/14 00:03	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/30/14 00:03	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			05/30/14 00:03	1
Cyclohexane	ND		1.0	0.18	ug/L			05/30/14 00:03	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			05/30/14 00:03	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/30/14 00:03	1
Isopropylbenzene	ND		1.0	0.79	ug/L			05/30/14 00:03	1
Methyl acetate	ND		2.5	0.50	ug/L			05/30/14 00:03	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/30/14 00:03	1
Methylcyclohexane	ND		1.0	0.16	ug/L			05/30/14 00:03	1
Methylene Chloride	ND		1.0	0.44	ug/L			05/30/14 00:03	1
Styrene	ND		1.0	0.73	ug/L			05/30/14 00:03	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/30/14 00:03	1
Toluene	ND		1.0	0.51	ug/L			05/30/14 00:03	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/30/14 00:03	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			05/30/14 00:03	1
Trichloroethene	ND		1.0	0.46	ug/L			05/30/14 00:03	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			05/30/14 00:03	1
Vinyl chloride	ND		1.0	0.90	ug/L			05/30/14 00:03	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/30/14 00:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		66 - 137		05/30/14 00:03	1
Toluene-d8 (Surr)	106		71 - 126		05/30/14 00:03	1
4-Bromofluorobenzene (Surr)	98		73 - 120		05/30/14 00:03	1
Dibromofluoromethane (Surr)	104		60 - 140		05/30/14 00:03	1

Lab Sample ID: LCS 480-184727/6

Matrix: Water

Analysis Batch: 184727

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	25.0	27.3		ug/L		109	71 - 129

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-60411-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-184727/6

Matrix: Water

Analysis Batch: 184727

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	25.0	27.4		ug/L		110	58 - 121
1,2-Dichlorobenzene	25.0	26.8		ug/L		107	80 - 124
1,2-Dichloroethane	25.0	26.9		ug/L		108	75 - 127
Benzene	25.0	26.2		ug/L		105	71 - 124
Chlorobenzene	25.0	25.8		ug/L		103	72 - 120
cis-1,2-Dichloroethene	25.0	27.0		ug/L		108	74 - 124
Ethylbenzene	25.0	26.4		ug/L		105	77 - 123
Methyl tert-butyl ether	25.0	28.0		ug/L		112	64 - 127
Tetrachloroethene	25.0	23.4		ug/L		94	74 - 122
Toluene	25.0	25.8		ug/L		103	80 - 122
trans-1,2-Dichloroethene	25.0	27.2		ug/L		109	73 - 127
Trichloroethene	25.0	26.3		ug/L		105	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	111		66 - 137
Toluene-d8 (Surr)	108		71 - 126
4-Bromofluorobenzene (Surr)	108		73 - 120
Dibromofluoromethane (Surr)	112		60 - 140

QC Association Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-60411-1

GC/MS VOA

Analysis Batch: 184565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60411-1	BCP MW-01	Total/NA	Water	8260C	
480-60411-2	BCP MW-03	Total/NA	Water	8260C	
480-60411-2 MS	BCP MW-03	Total/NA	Water	8260C	
480-60411-2 MSD	BCP MW-03	Total/NA	Water	8260C	
480-60411-4	BCP MW-05	Total/NA	Water	8260C	
480-60411-6	BCP MW-07	Total/NA	Water	8260C	
LCS 480-184565/5	Lab Control Sample	Total/NA	Water	8260C	
MB 480-184565/7	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 184727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60411-3	BCP MW-04	Total/NA	Water	8260C	
480-60411-5	BCP MW-06	Total/NA	Water	8260C	
LCS 480-184727/6	Lab Control Sample	Total/NA	Water	8260C	
MB 480-184727/8	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-60411-1

Client Sample ID: BCP MW-01

Date Collected: 05/22/14 09:50

Date Received: 05/22/14 17:10

Lab Sample ID: 480-60411-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	184565	05/29/14 14:13	GTG	TAL BUF

Client Sample ID: BCP MW-03

Date Collected: 05/22/14 12:00

Date Received: 05/22/14 17:10

Lab Sample ID: 480-60411-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		50	184565	05/29/14 14:35	GTG	TAL BUF

Client Sample ID: BCP MW-04

Date Collected: 05/22/14 10:55

Date Received: 05/22/14 17:10

Lab Sample ID: 480-60411-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	184727	05/30/14 01:03	GTG	TAL BUF

Client Sample ID: BCP MW-05

Date Collected: 05/22/14 11:30

Date Received: 05/22/14 17:10

Lab Sample ID: 480-60411-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		80	184565	05/29/14 15:19	GTG	TAL BUF

Client Sample ID: BCP MW-06

Date Collected: 05/22/14 10:23

Date Received: 05/22/14 17:10

Lab Sample ID: 480-60411-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	184727	05/30/14 01:25	GTG	TAL BUF

Client Sample ID: BCP MW-07

Date Collected: 05/21/14 10:40

Date Received: 05/22/14 17:10

Lab Sample ID: 480-60411-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	184565	05/29/14 16:03	GTG	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TestAmerica Buffalo

Certification Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-60411-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-15

Method Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-60411-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-60411-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-60411-1	BCP MW-01	Water	05/22/14 09:50	05/22/14 17:10
480-60411-2	BCP MW-03	Water	05/22/14 12:00	05/22/14 17:10
480-60411-3	BCP MW-04	Water	05/22/14 10:55	05/22/14 17:10
480-60411-4	BCP MW-05	Water	05/22/14 11:30	05/22/14 17:10
480-60411-5	BCP MW-06	Water	05/22/14 10:23	05/22/14 17:10
480-60411-6	BCP MW-07	Water	05/21/14 10:40	05/22/14 17:10

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

Chain of Custody Record

TAL-4124 (1007)

Client C&S Engineers, Inc	Project Manager Cody Martin	Date 5/22/14	Chain of Custody Number 276648
Address 90 Brooklyn	Telephone Number (Area Code)/Fax Number 716-847-1630	Lab Number	Page 1 of 1
City Buffalo	State NV	Zip Code 14203	
Project Name and Location (State) MOB- BCP Groundwater Sample 2			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH			
BCP MW-01	5/22/14	9:50	X												
BCP MW-03		12:00	X												
BCP MW-04		10:55	X												
BCP MW-05		11:30	X												
BCP MW-06		10:23	X												
BCP MW-07	5/21/14	10:40	X												



Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown	Sample Disposal ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months	(A fee may be assessed if samples are retained longer than 1 month)
Turn Around Time Required ☐ 24 Hours ☐ 48 Hours ☒ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____		
1. Relinquished By Dee Tol	Date 05/22/14	Time 5:10
2. Relinquished By	Date	Time
3. Relinquished By	Date	Time
1. Received By John Kow		
Date 5/22/14		
Time 17:10		
2. Received By		
Date		
Time		
3. Received By		
Date		
Time		
Comments Temp 18.9 NOICE#1		

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: C&S Engineers, Inc.

Job Number: 480-60411-1

Login Number: 60411

List Source: TestAmerica Buffalo

List Number: 1

Creator: Kolb, Chris M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	
Cooler Temperature is acceptable.	True	Yes: Received same day of collection
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	C&S ENG.
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-76551-1

Client Project/Site: 1001 Main St., Buffalo Brownfields

For:

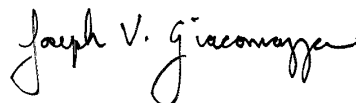
C&S Engineers, Inc.

141 Elm Street

Suite 100

Buffalo, New York 14203

Attn: Mr. Mark Colmerauer



Authorized for release by:

3/19/2015 9:23:51 AM

Joe Giacomazza, Project Management Assistant II

joe.giacomazza@testamericainc.com

Designee for

Judy Stone, Senior Project Manager

(484)685-0868

judy.stone@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: C&S Engineers, Inc.
Project/Site: 1001 Main St., Buffalo Brownfields

TestAmerica Job ID: 480-76551-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
F1	MS and/or MSD Recovery exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: C&S Engineers, Inc.
Project/Site: 1001 Main St., Buffalo Brownfields

TestAmerica Job ID: 480-76551-1

Job ID: 480-76551-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-76551-1

Receipt

The samples were received on 3/12/2015 1:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.3° C.

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 230256 recovered above the upper control limit for multiple analytes. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCVIS 480-230256/3).

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 230316 recovered above the upper control limit for Trichlorofluoromethane and 1,2,4 Trichlorobenzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCVIS 480-230316/3).

Method(s) 8260C: The following sample(s) was diluted to bring the concentration of target analytes within the calibration range: (480-76551-2 MS), (480-76551-2 MSD), BCP-MW-3 (480-76551-1), BCP-MW-4 (480-76551-2). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 230256 was outside the method criteria for the following analyte(s): Cyclohexane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated. BCP-MW-3 (480-76551-1), BCP-MW-4 (480-76551-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: C&S Engineers, Inc.
Project/Site: 1001 Main St., Buffalo Brownfields

TestAmerica Job ID: 480-76551-1

Client Sample ID: BCP-MW-3

Lab Sample ID: 480-76551-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Hexanone	3.0	J	5.0	1.2	ug/L	1		8260C	Total/NA
2-Butanone (MEK)	6.7	J	10	1.3	ug/L	1		8260C	Total/NA
Acetone	17		10	3.0	ug/L	1		8260C	Total/NA
Benzene	740	E	1.0	0.41	ug/L	1		8260C	Total/NA
Carbon disulfide	0.31	J	1.0	0.19	ug/L	1		8260C	Total/NA
Cyclohexane	370	E ^	1.0	0.18	ug/L	1		8260C	Total/NA
Ethylbenzene	500	E	1.0	0.74	ug/L	1		8260C	Total/NA
Isopropylbenzene	32		1.0	0.79	ug/L	1		8260C	Total/NA
Methylcyclohexane	120	E	1.0	0.16	ug/L	1		8260C	Total/NA
Toluene	120	E	1.0	0.51	ug/L	1		8260C	Total/NA
Xylenes, Total	1600	E	2.0	0.66	ug/L	1		8260C	Total/NA
Benzene - DL	3700		100	41	ug/L	100		8260C	Total/NA
Cyclohexane - DL	390		100	18	ug/L	100		8260C	Total/NA
Ethylbenzene - DL	1600		100	74	ug/L	100		8260C	Total/NA
Methylcyclohexane - DL	120		100	16	ug/L	100		8260C	Total/NA
Toluene - DL	110		100	51	ug/L	100		8260C	Total/NA
Xylenes, Total - DL	4200		200	66	ug/L	100		8260C	Total/NA

Client Sample ID: BCP-MW-4

Lab Sample ID: 480-76551-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Hexanone	1.7	J	5.0	1.2	ug/L	1		8260C	Total/NA
2-Butanone (MEK)	9.9	J	10	1.3	ug/L	1		8260C	Total/NA
4-Methyl-2-pentanone (MIBK)	2.6	J	5.0	2.1	ug/L	1		8260C	Total/NA
Acetone	67		10	3.0	ug/L	1		8260C	Total/NA
Benzene	26		1.0	0.41	ug/L	1		8260C	Total/NA
Cyclohexane	180	E ^	1.0	0.18	ug/L	1		8260C	Total/NA
Ethylbenzene	380	E	1.0	0.74	ug/L	1		8260C	Total/NA
Isopropylbenzene	9.8		1.0	0.79	ug/L	1		8260C	Total/NA
Methylcyclohexane	87		1.0	0.16	ug/L	1		8260C	Total/NA
Toluene	53		1.0	0.51	ug/L	1		8260C	Total/NA
Xylenes, Total	800	E	2.0	0.66	ug/L	1		8260C	Total/NA
Acetone - DL	110	J	200	60	ug/L	20		8260C	Total/NA
Benzene - DL	25		20	8.2	ug/L	20		8260C	Total/NA
Cyclohexane - DL	170		20	3.6	ug/L	20		8260C	Total/NA
Ethylbenzene - DL	560		20	15	ug/L	20		8260C	Total/NA
Methylcyclohexane - DL	77		20	3.2	ug/L	20		8260C	Total/NA
Methylene Chloride - DL	16	J	20	8.8	ug/L	20		8260C	Total/NA
Toluene - DL	50		20	10	ug/L	20		8260C	Total/NA
Xylenes, Total - DL	800		40	13	ug/L	20		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: 1001 Main St., Buffalo Brownfields

TestAmerica Job ID: 480-76551-1

Client Sample ID: BCP-MW-3

Lab Sample ID: 480-76551-1

Date Collected: 03/11/15 13:50

Matrix: Water

Date Received: 03/12/15 13:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/13/15 06:22	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/13/15 06:22	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/13/15 06:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/13/15 06:22	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/13/15 06:22	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/13/15 06:22	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/13/15 06:22	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/13/15 06:22	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/13/15 06:22	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/13/15 06:22	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/13/15 06:22	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/13/15 06:22	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/13/15 06:22	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/13/15 06:22	1
2-Hexanone	3.0	J	5.0	1.2	ug/L			03/13/15 06:22	1
2-Butanone (MEK)	6.7	J	10	1.3	ug/L			03/13/15 06:22	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/13/15 06:22	1
Acetone	17		10	3.0	ug/L			03/13/15 06:22	1
Benzene	740	E	1.0	0.41	ug/L			03/13/15 06:22	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/13/15 06:22	1
Bromoform	ND		1.0	0.26	ug/L			03/13/15 06:22	1
Bromomethane	ND		1.0	0.69	ug/L			03/13/15 06:22	1
Carbon disulfide	0.31	J	1.0	0.19	ug/L			03/13/15 06:22	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/13/15 06:22	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/13/15 06:22	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/13/15 06:22	1
Chloroethane	ND		1.0	0.32	ug/L			03/13/15 06:22	1
Chloroform	ND		1.0	0.34	ug/L			03/13/15 06:22	1
Chloromethane	ND		1.0	0.35	ug/L			03/13/15 06:22	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/13/15 06:22	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/13/15 06:22	1
Cyclohexane	370	E ^	1.0	0.18	ug/L			03/13/15 06:22	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/13/15 06:22	1
Ethylbenzene	500	E	1.0	0.74	ug/L			03/13/15 06:22	1
Isopropylbenzene	32		1.0	0.79	ug/L			03/13/15 06:22	1
Methyl acetate	ND		2.5	0.50	ug/L			03/13/15 06:22	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/13/15 06:22	1
Methylcyclohexane	120	E	1.0	0.16	ug/L			03/13/15 06:22	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/13/15 06:22	1
Styrene	ND		1.0	0.73	ug/L			03/13/15 06:22	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/13/15 06:22	1
Toluene	120	E	1.0	0.51	ug/L			03/13/15 06:22	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/13/15 06:22	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/13/15 06:22	1
Trichloroethene	ND		1.0	0.46	ug/L			03/13/15 06:22	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/13/15 06:22	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/13/15 06:22	1
Xylenes, Total	1600	E	2.0	0.66	ug/L			03/13/15 06:22	1

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: 1001 Main St., Buffalo Brownfields

TestAmerica Job ID: 480-76551-1

Client Sample ID: BCP-MW-3

Lab Sample ID: 480-76551-1

Date Collected: 03/11/15 13:50

Matrix: Water

Date Received: 03/12/15 13:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		66 - 137		03/13/15 06:22	1
Toluene-d8 (Surr)	100		71 - 126		03/13/15 06:22	1
4-Bromofluorobenzene (Surr)	108		73 - 120		03/13/15 06:22	1
Dibromofluoromethane (Surr)	76		60 - 140		03/13/15 06:22	1

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		100	82	ug/L			03/13/15 17:33	100
1,1,2,2-Tetrachloroethane	ND		100	21	ug/L			03/13/15 17:33	100
1,1,2-Trichloroethane	ND		100	23	ug/L			03/13/15 17:33	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	31	ug/L			03/13/15 17:33	100
1,1-Dichloroethane	ND		100	38	ug/L			03/13/15 17:33	100
1,1-Dichloroethene	ND		100	29	ug/L			03/13/15 17:33	100
1,2,4-Trichlorobenzene	ND		100	41	ug/L			03/13/15 17:33	100
1,2-Dibromo-3-Chloropropane	ND		100	39	ug/L			03/13/15 17:33	100
1,2-Dibromoethane	ND		100	73	ug/L			03/13/15 17:33	100
1,2-Dichlorobenzene	ND		100	79	ug/L			03/13/15 17:33	100
1,2-Dichloroethane	ND		100	21	ug/L			03/13/15 17:33	100
1,2-Dichloropropane	ND		100	72	ug/L			03/13/15 17:33	100
1,3-Dichlorobenzene	ND		100	78	ug/L			03/13/15 17:33	100
1,4-Dichlorobenzene	ND		100	84	ug/L			03/13/15 17:33	100
2-Hexanone	ND		500	120	ug/L			03/13/15 17:33	100
2-Butanone (MEK)	ND		1000	130	ug/L			03/13/15 17:33	100
4-Methyl-2-pentanone (MIBK)	ND		500	210	ug/L			03/13/15 17:33	100
Acetone	ND		1000	300	ug/L			03/13/15 17:33	100
Benzene	3700		100	41	ug/L			03/13/15 17:33	100
Bromodichloromethane	ND		100	39	ug/L			03/13/15 17:33	100
Bromoform	ND		100	26	ug/L			03/13/15 17:33	100
Bromomethane	ND		100	69	ug/L			03/13/15 17:33	100
Carbon disulfide	ND		100	19	ug/L			03/13/15 17:33	100
Carbon tetrachloride	ND		100	27	ug/L			03/13/15 17:33	100
Chlorobenzene	ND		100	75	ug/L			03/13/15 17:33	100
Dibromochloromethane	ND		100	32	ug/L			03/13/15 17:33	100
Chloroethane	ND		100	32	ug/L			03/13/15 17:33	100
Chloroform	ND		100	34	ug/L			03/13/15 17:33	100
Chloromethane	ND		100	35	ug/L			03/13/15 17:33	100
cis-1,2-Dichloroethene	ND		100	81	ug/L			03/13/15 17:33	100
cis-1,3-Dichloropropene	ND		100	36	ug/L			03/13/15 17:33	100
Cyclohexane	390		100	18	ug/L			03/13/15 17:33	100
Dichlorodifluoromethane	ND		100	68	ug/L			03/13/15 17:33	100
Ethylbenzene	1600		100	74	ug/L			03/13/15 17:33	100
Isopropylbenzene	ND		100	79	ug/L			03/13/15 17:33	100
Methyl acetate	ND		250	50	ug/L			03/13/15 17:33	100
Methyl tert-butyl ether	ND		100	16	ug/L			03/13/15 17:33	100
Methylcyclohexane	120		100	16	ug/L			03/13/15 17:33	100
Methylene Chloride	ND		100	44	ug/L			03/13/15 17:33	100
Styrene	ND		100	73	ug/L			03/13/15 17:33	100
Tetrachloroethene	ND		100	36	ug/L			03/13/15 17:33	100
Toluene	110		100	51	ug/L			03/13/15 17:33	100
trans-1,2-Dichloroethene	ND		100	90	ug/L			03/13/15 17:33	100

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: 1001 Main St., Buffalo Brownfields

TestAmerica Job ID: 480-76551-1

Client Sample ID: BCP-MW-3

Lab Sample ID: 480-76551-1

Date Collected: 03/11/15 13:50

Matrix: Water

Date Received: 03/12/15 13:45

Method: 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		100	37	ug/L			03/13/15 17:33	100
Trichloroethene	ND		100	46	ug/L			03/13/15 17:33	100
Trichlorofluoromethane	ND		100	88	ug/L			03/13/15 17:33	100
Vinyl chloride	ND		100	90	ug/L			03/13/15 17:33	100
Xylenes, Total	4200		200	66	ug/L			03/13/15 17:33	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		66 - 137		03/13/15 17:33	100
Toluene-d8 (Surr)	98		71 - 126		03/13/15 17:33	100
4-Bromofluorobenzene (Surr)	102		73 - 120		03/13/15 17:33	100
Dibromofluoromethane (Surr)	92		60 - 140		03/13/15 17:33	100

Client Sample ID: BCP-MW-4

Lab Sample ID: 480-76551-2

Date Collected: 03/11/15 12:18

Matrix: Water

Date Received: 03/12/15 13:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/13/15 06:46	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/13/15 06:46	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/13/15 06:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/13/15 06:46	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/13/15 06:46	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/13/15 06:46	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/13/15 06:46	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/13/15 06:46	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/13/15 06:46	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/13/15 06:46	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/13/15 06:46	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/13/15 06:46	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/13/15 06:46	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/13/15 06:46	1
2-Hexanone	1.7	J	5.0	1.2	ug/L			03/13/15 06:46	1
2-Butanone (MEK)	9.9	J	10	1.3	ug/L			03/13/15 06:46	1
4-Methyl-2-pentanone (MIBK)	2.6	J	5.0	2.1	ug/L			03/13/15 06:46	1
Acetone	67		10	3.0	ug/L			03/13/15 06:46	1
Benzene	26		1.0	0.41	ug/L			03/13/15 06:46	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/13/15 06:46	1
Bromoform	ND		1.0	0.26	ug/L			03/13/15 06:46	1
Bromomethane	ND		1.0	0.69	ug/L			03/13/15 06:46	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/13/15 06:46	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/13/15 06:46	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/13/15 06:46	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/13/15 06:46	1
Chloroethane	ND		1.0	0.32	ug/L			03/13/15 06:46	1
Chloroform	ND		1.0	0.34	ug/L			03/13/15 06:46	1
Chloromethane	ND		1.0	0.35	ug/L			03/13/15 06:46	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/13/15 06:46	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/13/15 06:46	1
Cyclohexane	180	E ^	1.0	0.18	ug/L			03/13/15 06:46	1

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: 1001 Main St., Buffalo Brownfields

TestAmerica Job ID: 480-76551-1

Client Sample ID: BCP-MW-4

Lab Sample ID: 480-76551-2

Date Collected: 03/11/15 12:18

Matrix: Water

Date Received: 03/12/15 13:45

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/13/15 06:46	1
Ethylbenzene	380	E	1.0	0.74	ug/L			03/13/15 06:46	1
Isopropylbenzene	9.8		1.0	0.79	ug/L			03/13/15 06:46	1
Methyl acetate	ND		2.5	0.50	ug/L			03/13/15 06:46	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/13/15 06:46	1
Methylcyclohexane	87		1.0	0.16	ug/L			03/13/15 06:46	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/13/15 06:46	1
Styrene	ND		1.0	0.73	ug/L			03/13/15 06:46	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/13/15 06:46	1
Toluene	53		1.0	0.51	ug/L			03/13/15 06:46	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/13/15 06:46	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/13/15 06:46	1
Trichloroethene	ND		1.0	0.46	ug/L			03/13/15 06:46	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/13/15 06:46	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/13/15 06:46	1
Xylenes, Total	800	E	2.0	0.66	ug/L			03/13/15 06:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		66 - 137		03/13/15 06:46	1
Toluene-d8 (Surr)	100		71 - 126		03/13/15 06:46	1
4-Bromofluorobenzene (Surr)	103		73 - 120		03/13/15 06:46	1
Dibromofluoromethane (Surr)	91		60 - 140		03/13/15 06:46	1

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		20	16	ug/L			03/13/15 17:57	20
1,1,2,2-Tetrachloroethane	ND		20	4.2	ug/L			03/13/15 17:57	20
1,1,2-Trichloroethane	ND		20	4.6	ug/L			03/13/15 17:57	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20	6.2	ug/L			03/13/15 17:57	20
1,1-Dichloroethane	ND		20	7.6	ug/L			03/13/15 17:57	20
1,1-Dichloroethene	ND		20	5.8	ug/L			03/13/15 17:57	20
1,2,4-Trichlorobenzene	ND		20	8.2	ug/L			03/13/15 17:57	20
1,2-Dibromo-3-Chloropropane	ND		20	7.8	ug/L			03/13/15 17:57	20
1,2-Dibromoethane	ND		20	15	ug/L			03/13/15 17:57	20
1,2-Dichlorobenzene	ND		20	16	ug/L			03/13/15 17:57	20
1,2-Dichloroethane	ND		20	4.2	ug/L			03/13/15 17:57	20
1,2-Dichloropropane	ND		20	14	ug/L			03/13/15 17:57	20
1,3-Dichlorobenzene	ND		20	16	ug/L			03/13/15 17:57	20
1,4-Dichlorobenzene	ND		20	17	ug/L			03/13/15 17:57	20
2-Hexanone	ND		100	25	ug/L			03/13/15 17:57	20
2-Butanone (MEK)	ND		200	26	ug/L			03/13/15 17:57	20
4-Methyl-2-pentanone (MIBK)	ND		100	42	ug/L			03/13/15 17:57	20
Acetone	110	J	200	60	ug/L			03/13/15 17:57	20
Benzene	25		20	8.2	ug/L			03/13/15 17:57	20
Bromodichloromethane	ND		20	7.8	ug/L			03/13/15 17:57	20
Bromoform	ND		20	5.2	ug/L			03/13/15 17:57	20
Bromomethane	ND		20	14	ug/L			03/13/15 17:57	20
Carbon disulfide	ND		20	3.8	ug/L			03/13/15 17:57	20
Carbon tetrachloride	ND		20	5.4	ug/L			03/13/15 17:57	20
Chlorobenzene	ND		20	15	ug/L			03/13/15 17:57	20

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: 1001 Main St., Buffalo Brownfields

TestAmerica Job ID: 480-76551-1

Client Sample ID: BCP-MW-4

Lab Sample ID: 480-76551-2

Date Collected: 03/11/15 12:18

Matrix: Water

Date Received: 03/12/15 13:45

Method: 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	ND		20	6.4	ug/L			03/13/15 17:57	20
Chloroethane	ND		20	6.4	ug/L			03/13/15 17:57	20
Chloroform	ND		20	6.8	ug/L			03/13/15 17:57	20
Chloromethane	ND		20	7.0	ug/L			03/13/15 17:57	20
cis-1,2-Dichloroethene	ND		20	16	ug/L			03/13/15 17:57	20
cis-1,3-Dichloropropene	ND		20	7.2	ug/L			03/13/15 17:57	20
Cyclohexane	170		20	3.6	ug/L			03/13/15 17:57	20
Dichlorodifluoromethane	ND		20	14	ug/L			03/13/15 17:57	20
Ethylbenzene	560		20	15	ug/L			03/13/15 17:57	20
Isopropylbenzene	ND		20	16	ug/L			03/13/15 17:57	20
Methyl acetate	ND	F1	50	10	ug/L			03/13/15 17:57	20
Methyl tert-butyl ether	ND		20	3.2	ug/L			03/13/15 17:57	20
Methylcyclohexane	77		20	3.2	ug/L			03/13/15 17:57	20
Methylene Chloride	16 J		20	8.8	ug/L			03/13/15 17:57	20
Styrene	ND		20	15	ug/L			03/13/15 17:57	20
Tetrachloroethene	ND		20	7.2	ug/L			03/13/15 17:57	20
Toluene	50		20	10	ug/L			03/13/15 17:57	20
trans-1,2-Dichloroethene	ND		20	18	ug/L			03/13/15 17:57	20
trans-1,3-Dichloropropene	ND		20	7.4	ug/L			03/13/15 17:57	20
Trichloroethene	ND		20	9.2	ug/L			03/13/15 17:57	20
Trichlorofluoromethane	ND		20	18	ug/L			03/13/15 17:57	20
Vinyl chloride	ND		20	18	ug/L			03/13/15 17:57	20
Xylenes, Total	800		40	13	ug/L			03/13/15 17:57	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		66 - 137		03/13/15 17:57	20
Toluene-d8 (Surr)	96		71 - 126		03/13/15 17:57	20
4-Bromofluorobenzene (Surr)	102		73 - 120		03/13/15 17:57	20
Dibromofluoromethane (Surr)	91		60 - 140		03/13/15 17:57	20

TestAmerica Buffalo

Surrogate Summary

Client: C&S Engineers, Inc.
Project/Site: 1001 Main St., Buffalo Brownfields

TestAmerica Job ID: 480-76551-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (66-137)	TOL (71-126)	BFB (73-120)	DBFM (60-140)
480-76551-1	BCP-MW-3	111	100	108	76
480-76551-1 - DL	BCP-MW-3	91	98	102	92
480-76551-2	BCP-MW-4	110	100	103	91
480-76551-2 - DL	BCP-MW-4	93	96	102	91
480-76551-2 MS	BCP-MW-4	87	98	101	88
480-76551-2 MSD	BCP-MW-4	90	97	103	91
LCS 480-230256/5	Lab Control Sample	89	98	104	92
LCS 480-230316/4	Lab Control Sample	93	98	104	94
MB 480-230256/7	Method Blank	91	98	102	89
MB 480-230316/6	Method Blank	90	98	101	91

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: 1001 Main St., Buffalo Brownfields

TestAmerica Job ID: 480-76551-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-230256/7

Matrix: Water

Analysis Batch: 230256

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/13/15 00:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/13/15 00:09	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/13/15 00:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/13/15 00:09	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/13/15 00:09	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/13/15 00:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/13/15 00:09	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/13/15 00:09	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/13/15 00:09	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/13/15 00:09	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/13/15 00:09	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/13/15 00:09	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/13/15 00:09	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/13/15 00:09	1
2-Hexanone	ND		5.0	1.2	ug/L			03/13/15 00:09	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/13/15 00:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/13/15 00:09	1
Acetone	ND		10	3.0	ug/L			03/13/15 00:09	1
Benzene	ND		1.0	0.41	ug/L			03/13/15 00:09	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/13/15 00:09	1
Bromoform	ND		1.0	0.26	ug/L			03/13/15 00:09	1
Bromomethane	ND		1.0	0.69	ug/L			03/13/15 00:09	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/13/15 00:09	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/13/15 00:09	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/13/15 00:09	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/13/15 00:09	1
Chloroethane	ND		1.0	0.32	ug/L			03/13/15 00:09	1
Chloroform	ND		1.0	0.34	ug/L			03/13/15 00:09	1
Chloromethane	ND		1.0	0.35	ug/L			03/13/15 00:09	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/13/15 00:09	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/13/15 00:09	1
Cyclohexane	ND		1.0	0.18	ug/L			03/13/15 00:09	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/13/15 00:09	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/13/15 00:09	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/13/15 00:09	1
Methyl acetate	ND		2.5	0.50	ug/L			03/13/15 00:09	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/13/15 00:09	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/13/15 00:09	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/13/15 00:09	1
Styrene	ND		1.0	0.73	ug/L			03/13/15 00:09	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/13/15 00:09	1
Toluene	ND		1.0	0.51	ug/L			03/13/15 00:09	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/13/15 00:09	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/13/15 00:09	1
Trichloroethene	ND		1.0	0.46	ug/L			03/13/15 00:09	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/13/15 00:09	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/13/15 00:09	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/13/15 00:09	1

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: 1001 Main St., Buffalo Brownfields

TestAmerica Job ID: 480-76551-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-230256/7

Matrix: Water

Analysis Batch: 230256

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		66 - 137		03/13/15 00:09	1
Toluene-d8 (Surr)	98		71 - 126		03/13/15 00:09	1
4-Bromofluorobenzene (Surr)	102		73 - 120		03/13/15 00:09	1
Dibromofluoromethane (Surr)	89		60 - 140		03/13/15 00:09	1

Lab Sample ID: LCS 480-230256/5

Matrix: Water

Analysis Batch: 230256

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	25.0	25.6		ug/L		103	71 - 129
1,1-Dichloroethene	25.0	24.0		ug/L		96	58 - 121
1,2-Dichlorobenzene	25.0	25.0		ug/L		100	80 - 124
1,2-Dichloroethane	25.0	22.8		ug/L		91	75 - 127
Benzene	25.0	24.5		ug/L		98	71 - 124
Chlorobenzene	25.0	24.4		ug/L		98	72 - 120
cis-1,2-Dichloroethene	25.0	23.7		ug/L		95	74 - 124
Ethylbenzene	25.0	24.6		ug/L		98	77 - 123
Methyl tert-butyl ether	25.0	23.2		ug/L		93	64 - 127
Tetrachloroethene	25.0	24.6		ug/L		98	74 - 122
Toluene	25.0	24.5		ug/L		98	80 - 122
trans-1,2-Dichloroethene	25.0	24.2		ug/L		97	73 - 127
Trichloroethene	25.0	23.3		ug/L		93	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		66 - 137
Toluene-d8 (Surr)	98		71 - 126
4-Bromofluorobenzene (Surr)	104		73 - 120
Dibromofluoromethane (Surr)	92		60 - 140

Lab Sample ID: MB 480-230316/6

Matrix: Water

Analysis Batch: 230316

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/13/15 11:38	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/13/15 11:38	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/13/15 11:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/13/15 11:38	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/13/15 11:38	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/13/15 11:38	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/13/15 11:38	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/13/15 11:38	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/13/15 11:38	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/13/15 11:38	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/13/15 11:38	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/13/15 11:38	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/13/15 11:38	1

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: 1001 Main St., Buffalo Brownfields

TestAmerica Job ID: 480-76551-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-230316/6

Matrix: Water

Analysis Batch: 230316

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/13/15 11:38	1
2-Hexanone	ND		5.0	1.2	ug/L			03/13/15 11:38	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/13/15 11:38	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/13/15 11:38	1
Acetone	ND		10	3.0	ug/L			03/13/15 11:38	1
Benzene	ND		1.0	0.41	ug/L			03/13/15 11:38	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/13/15 11:38	1
Bromoform	ND		1.0	0.26	ug/L			03/13/15 11:38	1
Bromomethane	ND		1.0	0.69	ug/L			03/13/15 11:38	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/13/15 11:38	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/13/15 11:38	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/13/15 11:38	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/13/15 11:38	1
Chloroethane	ND		1.0	0.32	ug/L			03/13/15 11:38	1
Chloroform	ND		1.0	0.34	ug/L			03/13/15 11:38	1
Chloromethane	ND		1.0	0.35	ug/L			03/13/15 11:38	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/13/15 11:38	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/13/15 11:38	1
Cyclohexane	ND		1.0	0.18	ug/L			03/13/15 11:38	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/13/15 11:38	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/13/15 11:38	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/13/15 11:38	1
Methyl acetate	ND		2.5	0.50	ug/L			03/13/15 11:38	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/13/15 11:38	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/13/15 11:38	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/13/15 11:38	1
Styrene	ND		1.0	0.73	ug/L			03/13/15 11:38	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/13/15 11:38	1
Toluene	ND		1.0	0.51	ug/L			03/13/15 11:38	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/13/15 11:38	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/13/15 11:38	1
Trichloroethene	ND		1.0	0.46	ug/L			03/13/15 11:38	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/13/15 11:38	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/13/15 11:38	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/13/15 11:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		66 - 137		03/13/15 11:38	1
Toluene-d8 (Surr)	98		71 - 126		03/13/15 11:38	1
4-Bromofluorobenzene (Surr)	101		73 - 120		03/13/15 11:38	1
Dibromofluoromethane (Surr)	91		60 - 140		03/13/15 11:38	1

Lab Sample ID: LCS 480-230316/4

Matrix: Water

Analysis Batch: 230316

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	25.0	28.4		ug/L		113	71 - 129

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: 1001 Main St., Buffalo Brownfields

TestAmerica Job ID: 480-76551-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-230316/4

Matrix: Water

Analysis Batch: 230316

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	25.0	27.9		ug/L		112	58 - 121
1,2-Dichlorobenzene	25.0	26.2		ug/L		105	80 - 124
1,2-Dichloroethane	25.0	25.0		ug/L		100	75 - 127
Benzene	25.0	27.4		ug/L		109	71 - 124
Chlorobenzene	25.0	25.9		ug/L		104	72 - 120
cis-1,2-Dichloroethene	25.0	27.4		ug/L		109	74 - 124
Ethylbenzene	25.0	26.7		ug/L		107	77 - 123
Methyl tert-butyl ether	25.0	25.3		ug/L		101	64 - 127
Tetrachloroethene	25.0	27.0		ug/L		108	74 - 122
Toluene	25.0	26.2		ug/L		105	80 - 122
trans-1,2-Dichloroethene	25.0	27.3		ug/L		109	73 - 127
Trichloroethene	25.0	26.2		ug/L		105	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		66 - 137
Toluene-d8 (Surr)	98		71 - 126
4-Bromofluorobenzene (Surr)	104		73 - 120
Dibromofluoromethane (Surr)	94		60 - 140

Lab Sample ID: 480-76551-2 MS

Matrix: Water

Analysis Batch: 230316

Client Sample ID: BCP-MW-4

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	ND		500	519		ug/L		104	71 - 129
1,1-Dichloroethene	ND		500	494		ug/L		99	58 - 121
1,2-Dichlorobenzene	ND		500	529		ug/L		106	80 - 124
1,2-Dichloroethane	ND		500	461		ug/L		92	75 - 127
Benzene	25		500	530		ug/L		101	71 - 124
Chlorobenzene	ND		500	516		ug/L		103	72 - 120
cis-1,2-Dichloroethene	ND		500	485		ug/L		97	74 - 124
Ethylbenzene	560		500	1060		ug/L		99	77 - 123
Methyl tert-butyl ether	ND		500	466		ug/L		93	64 - 127
Tetrachloroethene	ND		500	523		ug/L		105	74 - 122
Toluene	50		500	572		ug/L		104	80 - 122
trans-1,2-Dichloroethene	ND		500	495		ug/L		99	73 - 127
Trichloroethene	ND		500	483		ug/L		97	74 - 123

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	87		66 - 137
Toluene-d8 (Surr)	98		71 - 126
4-Bromofluorobenzene (Surr)	101		73 - 120
Dibromofluoromethane (Surr)	88		60 - 140

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: 1001 Main St., Buffalo Brownfields

TestAmerica Job ID: 480-76551-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-76551-2 MSD

Matrix: Water

Analysis Batch: 230316

Client Sample ID: BCP-MW-4

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	ND		500	511		ug/L		102	71 - 129	2	20
1,1-Dichloroethene	ND		500	487		ug/L		97	58 - 121	1	16
1,2-Dichlorobenzene	ND		500	501		ug/L		100	80 - 124	5	20
1,2-Dichloroethane	ND		500	469		ug/L		94	75 - 127	2	20
Benzene	25		500	524		ug/L		100	71 - 124	1	13
Chlorobenzene	ND		500	494		ug/L		99	72 - 120	4	25
cis-1,2-Dichloroethene	ND		500	498		ug/L		100	74 - 124	3	15
Ethylbenzene	560		500	997		ug/L		86	77 - 123	6	15
Methyl tert-butyl ether	ND		500	475		ug/L		95	64 - 127	2	37
Tetrachloroethene	ND		500	496		ug/L		99	74 - 122	5	20
Toluene	50		500	535		ug/L		97	80 - 122	7	15
trans-1,2-Dichloroethene	ND		500	498		ug/L		100	73 - 127	1	20
Trichloroethene	ND		500	471		ug/L		94	74 - 123	3	16
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	90		66 - 137								
Toluene-d8 (Surr)	97		71 - 126								
4-Bromofluorobenzene (Surr)	103		73 - 120								
Dibromofluoromethane (Surr)	91		60 - 140								

QC Association Summary

Client: C&S Engineers, Inc.
Project/Site: 1001 Main St., Buffalo Brownfields

TestAmerica Job ID: 480-76551-1

GC/MS VOA

Analysis Batch: 230256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-76551-1	BCP-MW-3	Total/NA	Water	8260C	
480-76551-2	BCP-MW-4	Total/NA	Water	8260C	
LCS 480-230256/5	Lab Control Sample	Total/NA	Water	8260C	
MB 480-230256/7	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 230316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-76551-1 - DL	BCP-MW-3	Total/NA	Water	8260C	
480-76551-2 - DL	BCP-MW-4	Total/NA	Water	8260C	
480-76551-2 MS	BCP-MW-4	Total/NA	Water	8260C	
480-76551-2 MSD	BCP-MW-4	Total/NA	Water	8260C	
LCS 480-230316/4	Lab Control Sample	Total/NA	Water	8260C	
MB 480-230316/6	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

Client: C&S Engineers, Inc.
Project/Site: 1001 Main St., Buffalo Brownfields

TestAmerica Job ID: 480-76551-1

Client Sample ID: BCP-MW-3

Date Collected: 03/11/15 13:50

Date Received: 03/12/15 13:45

Lab Sample ID: 480-76551-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	230256	03/13/15 06:22	SWO	TAL BUF
Total/NA	Analysis	8260C	DL	100	230316	03/13/15 17:33	LCH	TAL BUF

Client Sample ID: BCP-MW-4

Date Collected: 03/11/15 12:18

Date Received: 03/12/15 13:45

Lab Sample ID: 480-76551-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	230256	03/13/15 06:46	SWO	TAL BUF
Total/NA	Analysis	8260C	DL	20	230316	03/13/15 17:57	LCH	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: C&S Engineers, Inc.
Project/Site: 1001 Main St., Buffalo Brownfields

TestAmerica Job ID: 480-76551-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-15 *

* Certification renewal pending - certification considered valid.

TestAmerica Buffalo

Method Summary

Client: C&S Engineers, Inc.
Project/Site: 1001 Main St., Buffalo Brownfields

TestAmerica Job ID: 480-76551-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: C&S Engineers, Inc.
Project/Site: 1001 Main St., Buffalo Brownfields

TestAmerica Job ID: 480-76551-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-76551-1	BCP-MW-3	Water	03/11/15 13:50	03/12/15 13:45
480-76551-2	BCP-MW-4	Water	03/11/15 12:18	03/12/15 13:45

Chain of Custody Record

Temperature on Receipt _____

THE LEADER IN ENVIRONMENTAL TESTING

Drinking Water? Yes ☐ No ☐

ITAL-4124 (1007)

[illegible]

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: C&S Engineers, Inc.

Job Number: 480-76551-1

Login Number: 76551

List Source: TestAmerica Buffalo

List Number: 1

Creator: Robison, Zachary J

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	C&S ENGINEERS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-82489-1

Client Project/Site: Well Sampling - MOB

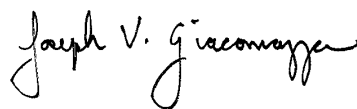
For:

C&S Engineers, Inc.

499 Col. Eileen Collins Blvd

Syracuse, New York 13212

Attn: Mr. Mark Colmerauer



Authorized for release by:

6/23/2015 10:40:51 AM

Joe Giacomazza, Project Management Assistant II

joe.giacomazza@testamericainc.com

Designee for

Judy Stone, Senior Project Manager

(484)685-0868

judy.stone@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-82489-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-82489-1

Job ID: 480-82489-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-82489-1

Receipt

The samples were received on 6/18/2015 1:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.6° C.

Receipt Exceptions

A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC).

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-249012 recovered above the upper control limit for Chlorodibromomethane, Carbon Tetrachloride, Tetrachloroethene, and 1,1,2-Trichloro-1,2,2-trifluoroethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: MW-1-61715 (480-82489-1), MW-3-61715 (480-82489-2), MW-4-61715 (480-82489-3), MW-5-61715 (480-82489-4), MW-6-61715 (480-82489-5), MW-7-61715 (480-82489-6) and TRIP BLANK (480-82489-7).

Method(s) 8260C: The laboratory control sample (LCS) for batch 480-249012 recovered outside control limits for the following analyte: Bromoform. This was not a requested spike compound; therefore, the data have been qualified and reported. The following samples are impacted: MW-1-61715 (480-82489-1), MW-3-61715 (480-82489-2), MW-4-61715 (480-82489-3), MW-5-61715 (480-82489-4), MW-6-61715 (480-82489-5), MW-7-61715 (480-82489-6) and TRIP BLANK (480-82489-7).

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-3-61715 (480-82489-2), MW-4-61715 (480-82489-3), MW-5-61715 (480-82489-4) and MW-6-61715 (480-82489-5). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-4-61715 (480-82489-3), MW-5-61715 (480-82489-4), MW-6-61715 (480-82489-5), (480-82489-B-5 MS) and (480-82489-B-5 MSD). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: MW-6-61715 (480-82489-5).

Method(s) 8260C: The following sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: MW-6-61715 (480-82489-5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-82489-1

Client Sample ID: MW-1-61715

Lab Sample ID: 480-82489-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	0.38	J	1.0	0.21	ug/L	1		8260C	Total/NA
4-Methyl-2-pentanone (MIBK)	2.4	J	5.0	2.1	ug/L	1		8260C	Total/NA
Benzene	35		1.0	0.41	ug/L	1		8260C	Total/NA
Cyclohexane	35		1.0	0.18	ug/L	1		8260C	Total/NA
Ethylbenzene	2.0		1.0	0.74	ug/L	1		8260C	Total/NA
Isopropylbenzene	1.3		1.0	0.79	ug/L	1		8260C	Total/NA
Methylcyclohexane	3.2		1.0	0.16	ug/L	1		8260C	Total/NA
Toluene	19		1.0	0.51	ug/L	1		8260C	Total/NA
Xylenes, Total	6.4		2.0	0.66	ug/L	1		8260C	Total/NA

Client Sample ID: MW-3-61715

Lab Sample ID: 480-82489-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	4300		50	21	ug/L	50		8260C	Total/NA
Cyclohexane	330		50	9.0	ug/L	50		8260C	Total/NA
Ethylbenzene	1500		50	37	ug/L	50		8260C	Total/NA
Methylcyclohexane	160		50	8.0	ug/L	50		8260C	Total/NA
Toluene	110		50	26	ug/L	50		8260C	Total/NA
Xylenes, Total	4000		100	33	ug/L	50		8260C	Total/NA

Client Sample ID: MW-4-61715

Lab Sample ID: 480-82489-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	8.5	J	50	6.6	ug/L	5		8260C	Total/NA
Benzene	24		5.0	2.1	ug/L	5		8260C	Total/NA
Cyclohexane	170		5.0	0.90	ug/L	5		8260C	Total/NA
Isopropylbenzene	15		5.0	4.0	ug/L	5		8260C	Total/NA
Methylcyclohexane	92		5.0	0.80	ug/L	5		8260C	Total/NA
Toluene	57		5.0	2.6	ug/L	5		8260C	Total/NA
Ethylbenzene - DL	1000		20	15	ug/L	20		8260C	Total/NA
Xylenes, Total - DL	1200		40	13	ug/L	20		8260C	Total/NA

Client Sample ID: MW-5-61715

Lab Sample ID: 480-82489-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3700		80	33	ug/L	80		8260C	Total/NA
Cyclohexane	430		80	14	ug/L	80		8260C	Total/NA
Ethylbenzene	2800		80	59	ug/L	80		8260C	Total/NA
Methylcyclohexane	190		80	13	ug/L	80		8260C	Total/NA
Toluene	290		80	41	ug/L	80		8260C	Total/NA
Xylenes, Total - DL	9100		400	130	ug/L	200		8260C	Total/NA

Client Sample ID: MW-6-61715

Lab Sample ID: 480-82489-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Hexanone	190		25	6.2	ug/L	5		8260C	Total/NA
2-Butanone (MEK)	110		50	6.6	ug/L	5		8260C	Total/NA
4-Methyl-2-pentanone (MIBK)	130		25	11	ug/L	5		8260C	Total/NA
Acetone	480		50	15	ug/L	5		8260C	Total/NA
Benzene	470		5.0	2.1	ug/L	5		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-82489-1

Client Sample ID: MW-6-61715 (Continued)

Lab Sample ID: 480-82489-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyclohexane	270		5.0	0.90	ug/L	5		8260C	Total/NA
Ethylbenzene	36		5.0	3.7	ug/L	5		8260C	Total/NA
Methylcyclohexane	170		5.0	0.80	ug/L	5		8260C	Total/NA
Xylenes, Total	740		10	3.3	ug/L	5		8260C	Total/NA
Toluene - DL	1000	F1	20	10	ug/L	20		8260C	Total/NA

Client Sample ID: MW-7-61715

Lab Sample ID: 480-82489-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylcyclohexane	0.18	J	1.0	0.16	ug/L	1		8260C	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-82489-7

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-82489-1

Client Sample ID: MW-1-61715

Date Collected: 06/17/15 15:00

Date Received: 06/18/15 13:25

Lab Sample ID: 480-82489-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/19/15 11:33	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/19/15 11:33	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/19/15 11:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/19/15 11:33	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/19/15 11:33	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/19/15 11:33	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/19/15 11:33	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/19/15 11:33	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/19/15 11:33	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/19/15 11:33	1
1,2-Dichloroethane	0.38	J	1.0	0.21	ug/L			06/19/15 11:33	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/19/15 11:33	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/19/15 11:33	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/19/15 11:33	1
2-Hexanone	ND		5.0	1.2	ug/L			06/19/15 11:33	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/19/15 11:33	1
4-Methyl-2-pentanone (MIBK)	2.4	J	5.0	2.1	ug/L			06/19/15 11:33	1
Acetone	ND		10	3.0	ug/L			06/19/15 11:33	1
Benzene	35		1.0	0.41	ug/L			06/19/15 11:33	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/19/15 11:33	1
Bromoform	ND	*	1.0	0.26	ug/L			06/19/15 11:33	1
Bromomethane	ND		1.0	0.69	ug/L			06/19/15 11:33	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/19/15 11:33	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/19/15 11:33	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/19/15 11:33	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/19/15 11:33	1
Chloroethane	ND		1.0	0.32	ug/L			06/19/15 11:33	1
Chloroform	ND		1.0	0.34	ug/L			06/19/15 11:33	1
Chloromethane	ND		1.0	0.35	ug/L			06/19/15 11:33	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/19/15 11:33	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/19/15 11:33	1
Cyclohexane	35		1.0	0.18	ug/L			06/19/15 11:33	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/19/15 11:33	1
Ethylbenzene	2.0		1.0	0.74	ug/L			06/19/15 11:33	1
Isopropylbenzene	1.3		1.0	0.79	ug/L			06/19/15 11:33	1
Methyl acetate	ND		2.5	0.50	ug/L			06/19/15 11:33	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/19/15 11:33	1
Methylcyclohexane	3.2		1.0	0.16	ug/L			06/19/15 11:33	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/19/15 11:33	1
Styrene	ND		1.0	0.73	ug/L			06/19/15 11:33	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/19/15 11:33	1
Toluene	19		1.0	0.51	ug/L			06/19/15 11:33	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/19/15 11:33	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/19/15 11:33	1
Trichloroethene	ND		1.0	0.46	ug/L			06/19/15 11:33	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/19/15 11:33	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/19/15 11:33	1
Xylenes, Total	6.4		2.0	0.66	ug/L			06/19/15 11:33	1

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-82489-1

Client Sample ID: MW-1-61715

Date Collected: 06/17/15 15:00

Date Received: 06/18/15 13:25

Lab Sample ID: 480-82489-1

Matrix: Water

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	105		66 - 137		06/19/15 11:33	1
Toluene-d8 (Surr)	101		71 - 126		06/19/15 11:33	1
4-Bromofluorobenzene (Surr)	110		73 - 120		06/19/15 11:33	1
Dibromofluoromethane (Surr)	106		60 - 140		06/19/15 11:33	1

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-82489-1

Client Sample ID: MW-3-61715

Date Collected: 06/17/15 13:40

Date Received: 06/18/15 13:25

Lab Sample ID: 480-82489-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		50	41	ug/L			06/19/15 12:01	50
1,1,2,2-Tetrachloroethane	ND		50	11	ug/L			06/19/15 12:01	50
1,1,2-Trichloroethane	ND		50	12	ug/L			06/19/15 12:01	50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	16	ug/L			06/19/15 12:01	50
1,1-Dichloroethane	ND		50	19	ug/L			06/19/15 12:01	50
1,1-Dichloroethene	ND		50	15	ug/L			06/19/15 12:01	50
1,2,4-Trichlorobenzene	ND		50	21	ug/L			06/19/15 12:01	50
1,2-Dibromo-3-Chloropropane	ND		50	20	ug/L			06/19/15 12:01	50
1,2-Dibromoethane	ND		50	37	ug/L			06/19/15 12:01	50
1,2-Dichlorobenzene	ND		50	40	ug/L			06/19/15 12:01	50
1,2-Dichloroethane	ND		50	11	ug/L			06/19/15 12:01	50
1,2-Dichloropropane	ND		50	36	ug/L			06/19/15 12:01	50
1,3-Dichlorobenzene	ND		50	39	ug/L			06/19/15 12:01	50
1,4-Dichlorobenzene	ND		50	42	ug/L			06/19/15 12:01	50
2-Hexanone	ND		250	62	ug/L			06/19/15 12:01	50
2-Butanone (MEK)	ND		500	66	ug/L			06/19/15 12:01	50
4-Methyl-2-pentanone (MIBK)	ND		250	110	ug/L			06/19/15 12:01	50
Acetone	ND		500	150	ug/L			06/19/15 12:01	50
Benzene	4300		50	21	ug/L			06/19/15 12:01	50
Bromodichloromethane	ND		50	20	ug/L			06/19/15 12:01	50
Bromoform	ND	*	50	13	ug/L			06/19/15 12:01	50
Bromomethane	ND		50	35	ug/L			06/19/15 12:01	50
Carbon disulfide	ND		50	9.5	ug/L			06/19/15 12:01	50
Carbon tetrachloride	ND		50	14	ug/L			06/19/15 12:01	50
Chlorobenzene	ND		50	38	ug/L			06/19/15 12:01	50
Dibromochloromethane	ND		50	16	ug/L			06/19/15 12:01	50
Chloroethane	ND		50	16	ug/L			06/19/15 12:01	50
Chloroform	ND		50	17	ug/L			06/19/15 12:01	50
Chloromethane	ND		50	18	ug/L			06/19/15 12:01	50
cis-1,2-Dichloroethene	ND		50	41	ug/L			06/19/15 12:01	50
cis-1,3-Dichloropropene	ND		50	18	ug/L			06/19/15 12:01	50
Cyclohexane	330		50	9.0	ug/L			06/19/15 12:01	50
Dichlorodifluoromethane	ND		50	34	ug/L			06/19/15 12:01	50
Ethylbenzene	1500		50	37	ug/L			06/19/15 12:01	50
Isopropylbenzene	ND		50	40	ug/L			06/19/15 12:01	50
Methyl acetate	ND		130	25	ug/L			06/19/15 12:01	50
Methyl tert-butyl ether	ND		50	8.0	ug/L			06/19/15 12:01	50
Methylcyclohexane	160		50	8.0	ug/L			06/19/15 12:01	50
Methylene Chloride	ND		50	22	ug/L			06/19/15 12:01	50
Styrene	ND		50	37	ug/L			06/19/15 12:01	50
Tetrachloroethene	ND		50	18	ug/L			06/19/15 12:01	50
Toluene	110		50	26	ug/L			06/19/15 12:01	50
trans-1,2-Dichloroethene	ND		50	45	ug/L			06/19/15 12:01	50
trans-1,3-Dichloropropene	ND		50	19	ug/L			06/19/15 12:01	50
Trichloroethene	ND		50	23	ug/L			06/19/15 12:01	50
Trichlorofluoromethane	ND		50	44	ug/L			06/19/15 12:01	50
Vinyl chloride	ND		50	45	ug/L			06/19/15 12:01	50
Xylenes, Total	4000		100	33	ug/L			06/19/15 12:01	50

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-82489-1

Client Sample ID: MW-3-61715

Date Collected: 06/17/15 13:40

Date Received: 06/18/15 13:25

Lab Sample ID: 480-82489-2

Matrix: Water

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	101		66 - 137		06/19/15 12:01	50
Toluene-d8 (Surr)	103		71 - 126		06/19/15 12:01	50
4-Bromofluorobenzene (Surr)	109		73 - 120		06/19/15 12:01	50
Dibromofluoromethane (Surr)	108		60 - 140		06/19/15 12:01	50

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-82489-1

Client Sample ID: MW-4-61715

Date Collected: 06/17/15 13:00

Date Received: 06/18/15 13:25

Lab Sample ID: 480-82489-3

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			06/19/15 12:28	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			06/19/15 12:28	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			06/19/15 12:28	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			06/19/15 12:28	5
1,1-Dichloroethane	ND		5.0	1.9	ug/L			06/19/15 12:28	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			06/19/15 12:28	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			06/19/15 12:28	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			06/19/15 12:28	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			06/19/15 12:28	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			06/19/15 12:28	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			06/19/15 12:28	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			06/19/15 12:28	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			06/19/15 12:28	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			06/19/15 12:28	5
2-Hexanone	ND		25	6.2	ug/L			06/19/15 12:28	5
2-Butanone (MEK)	8.5	J	50	6.6	ug/L			06/19/15 12:28	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			06/19/15 12:28	5
Acetone	ND		50	15	ug/L			06/19/15 12:28	5
Benzene	24		5.0	2.1	ug/L			06/19/15 12:28	5
Bromodichloromethane	ND		5.0	2.0	ug/L			06/19/15 12:28	5
Bromoform	ND	*	5.0	1.3	ug/L			06/19/15 12:28	5
Bromomethane	ND		5.0	3.5	ug/L			06/19/15 12:28	5
Carbon disulfide	ND		5.0	0.95	ug/L			06/19/15 12:28	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			06/19/15 12:28	5
Chlorobenzene	ND		5.0	3.8	ug/L			06/19/15 12:28	5
Dibromochloromethane	ND		5.0	1.6	ug/L			06/19/15 12:28	5
Chloroethane	ND		5.0	1.6	ug/L			06/19/15 12:28	5
Chloroform	ND		5.0	1.7	ug/L			06/19/15 12:28	5
Chloromethane	ND		5.0	1.8	ug/L			06/19/15 12:28	5
cis-1,2-Dichloroethene	ND		5.0	4.1	ug/L			06/19/15 12:28	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			06/19/15 12:28	5
Cyclohexane	170		5.0	0.90	ug/L			06/19/15 12:28	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			06/19/15 12:28	5
Isopropylbenzene	15		5.0	4.0	ug/L			06/19/15 12:28	5
Methyl acetate	ND		13	2.5	ug/L			06/19/15 12:28	5
Methyl tert-butyl ether	ND		5.0	0.80	ug/L			06/19/15 12:28	5
Methylcyclohexane	92		5.0	0.80	ug/L			06/19/15 12:28	5
Methylene Chloride	ND		5.0	2.2	ug/L			06/19/15 12:28	5
Styrene	ND		5.0	3.7	ug/L			06/19/15 12:28	5
Tetrachloroethene	ND		5.0	1.8	ug/L			06/19/15 12:28	5
Toluene	57		5.0	2.6	ug/L			06/19/15 12:28	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			06/19/15 12:28	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			06/19/15 12:28	5
Trichloroethene	ND		5.0	2.3	ug/L			06/19/15 12:28	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			06/19/15 12:28	5
Vinyl chloride	ND		5.0	4.5	ug/L			06/19/15 12:28	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		66 - 137		06/19/15 12:28	5

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-82489-1

Client Sample ID: MW-4-61715

Lab Sample ID: 480-82489-3

Date Collected: 06/17/15 13:00

Matrix: Water

Date Received: 06/18/15 13:25

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		71 - 126		06/19/15 12:28	5
4-Bromofluorobenzene (Surr)	111		73 - 120		06/19/15 12:28	5
Dibromofluoromethane (Surr)	101		60 - 140		06/19/15 12:28	5

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1000		20	15	ug/L			06/20/15 17:37	20
Xylenes, Total	1200		40	13	ug/L			06/20/15 17:37	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		66 - 137		06/20/15 17:37	20
Toluene-d8 (Surr)	103		71 - 126		06/20/15 17:37	20
4-Bromofluorobenzene (Surr)	107		73 - 120		06/20/15 17:37	20
Dibromofluoromethane (Surr)	107		60 - 140		06/20/15 17:37	20

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-82489-1

Client Sample ID: MW-5-61715

Date Collected: 06/17/15 14:20

Date Received: 06/18/15 13:25

Lab Sample ID: 480-82489-4

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		80	66	ug/L			06/19/15 12:55	80
1,1,2,2-Tetrachloroethane	ND		80	17	ug/L			06/19/15 12:55	80
1,1,2-Trichloroethane	ND		80	18	ug/L			06/19/15 12:55	80
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		80	25	ug/L			06/19/15 12:55	80
1,1-Dichloroethane	ND		80	30	ug/L			06/19/15 12:55	80
1,1-Dichloroethene	ND		80	23	ug/L			06/19/15 12:55	80
1,2,4-Trichlorobenzene	ND		80	33	ug/L			06/19/15 12:55	80
1,2-Dibromo-3-Chloropropane	ND		80	31	ug/L			06/19/15 12:55	80
1,2-Dibromoethane	ND		80	58	ug/L			06/19/15 12:55	80
1,2-Dichlorobenzene	ND		80	63	ug/L			06/19/15 12:55	80
1,2-Dichloroethane	ND		80	17	ug/L			06/19/15 12:55	80
1,2-Dichloropropane	ND		80	58	ug/L			06/19/15 12:55	80
1,3-Dichlorobenzene	ND		80	62	ug/L			06/19/15 12:55	80
1,4-Dichlorobenzene	ND		80	67	ug/L			06/19/15 12:55	80
2-Hexanone	ND		400	99	ug/L			06/19/15 12:55	80
2-Butanone (MEK)	ND		800	110	ug/L			06/19/15 12:55	80
4-Methyl-2-pentanone (MIBK)	ND		400	170	ug/L			06/19/15 12:55	80
Acetone	ND		800	240	ug/L			06/19/15 12:55	80
Benzene	3700		80	33	ug/L			06/19/15 12:55	80
Bromodichloromethane	ND		80	31	ug/L			06/19/15 12:55	80
Bromoform	ND	*	80	21	ug/L			06/19/15 12:55	80
Bromomethane	ND		80	55	ug/L			06/19/15 12:55	80
Carbon disulfide	ND		80	15	ug/L			06/19/15 12:55	80
Carbon tetrachloride	ND		80	22	ug/L			06/19/15 12:55	80
Chlorobenzene	ND		80	60	ug/L			06/19/15 12:55	80
Dibromochloromethane	ND		80	26	ug/L			06/19/15 12:55	80
Chloroethane	ND		80	26	ug/L			06/19/15 12:55	80
Chloroform	ND		80	27	ug/L			06/19/15 12:55	80
Chloromethane	ND		80	28	ug/L			06/19/15 12:55	80
cis-1,2-Dichloroethene	ND		80	65	ug/L			06/19/15 12:55	80
cis-1,3-Dichloropropene	ND		80	29	ug/L			06/19/15 12:55	80
Cyclohexane	430		80	14	ug/L			06/19/15 12:55	80
Dichlorodifluoromethane	ND		80	54	ug/L			06/19/15 12:55	80
Ethylbenzene	2800		80	59	ug/L			06/19/15 12:55	80
Isopropylbenzene	ND		80	63	ug/L			06/19/15 12:55	80
Methyl acetate	ND		200	40	ug/L			06/19/15 12:55	80
Methyl tert-butyl ether	ND		80	13	ug/L			06/19/15 12:55	80
Methylcyclohexane	190		80	13	ug/L			06/19/15 12:55	80
Methylene Chloride	ND		80	35	ug/L			06/19/15 12:55	80
Styrene	ND		80	58	ug/L			06/19/15 12:55	80
Tetrachloroethene	ND		80	29	ug/L			06/19/15 12:55	80
Toluene	290		80	41	ug/L			06/19/15 12:55	80
trans-1,2-Dichloroethene	ND		80	72	ug/L			06/19/15 12:55	80
trans-1,3-Dichloropropene	ND		80	30	ug/L			06/19/15 12:55	80
Trichloroethene	ND		80	37	ug/L			06/19/15 12:55	80
Trichlorofluoromethane	ND		80	70	ug/L			06/19/15 12:55	80
Vinyl chloride	ND		80	72	ug/L			06/19/15 12:55	80

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-82489-1

Client Sample ID: MW-5-61715

Lab Sample ID: 480-82489-4

Date Collected: 06/17/15 14:20

Matrix: Water

Date Received: 06/18/15 13:25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		66 - 137		06/19/15 12:55	80
Toluene-d8 (Surr)	102		71 - 126		06/19/15 12:55	80
4-Bromofluorobenzene (Surr)	110		73 - 120		06/19/15 12:55	80
Dibromofluoromethane (Surr)	101		60 - 140		06/19/15 12:55	80

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	9100		400	130	ug/L	-		06/20/15 18:04	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		66 - 137		06/20/15 18:04	200
Toluene-d8 (Surr)	104		71 - 126		06/20/15 18:04	200
4-Bromofluorobenzene (Surr)	109		73 - 120		06/20/15 18:04	200
Dibromofluoromethane (Surr)	106		60 - 140		06/20/15 18:04	200

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-82489-1

Client Sample ID: MW-6-61715

Date Collected: 06/17/15 12:15

Date Received: 06/18/15 13:25

Lab Sample ID: 480-82489-5

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			06/19/15 13:23	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			06/19/15 13:23	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			06/19/15 13:23	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			06/19/15 13:23	5
1,1-Dichloroethane	ND		5.0	1.9	ug/L			06/19/15 13:23	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			06/19/15 13:23	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			06/19/15 13:23	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			06/19/15 13:23	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			06/19/15 13:23	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			06/19/15 13:23	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			06/19/15 13:23	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			06/19/15 13:23	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			06/19/15 13:23	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			06/19/15 13:23	5
2-Hexanone	190		25	6.2	ug/L			06/19/15 13:23	5
2-Butanone (MEK)	110		50	6.6	ug/L			06/19/15 13:23	5
4-Methyl-2-pentanone (MIBK)	130		25	11	ug/L			06/19/15 13:23	5
Acetone	480		50	15	ug/L			06/19/15 13:23	5
Benzene	470		5.0	2.1	ug/L			06/19/15 13:23	5
Bromodichloromethane	ND		5.0	2.0	ug/L			06/19/15 13:23	5
Bromoform	ND	*	5.0	1.3	ug/L			06/19/15 13:23	5
Bromomethane	ND		5.0	3.5	ug/L			06/19/15 13:23	5
Carbon disulfide	ND		5.0	0.95	ug/L			06/19/15 13:23	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			06/19/15 13:23	5
Chlorobenzene	ND		5.0	3.8	ug/L			06/19/15 13:23	5
Dibromochloromethane	ND		5.0	1.6	ug/L			06/19/15 13:23	5
Chloroethane	ND		5.0	1.6	ug/L			06/19/15 13:23	5
Chloroform	ND		5.0	1.7	ug/L			06/19/15 13:23	5
Chloromethane	ND		5.0	1.8	ug/L			06/19/15 13:23	5
cis-1,2-Dichloroethene	ND		5.0	4.1	ug/L			06/19/15 13:23	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			06/19/15 13:23	5
Cyclohexane	270		5.0	0.90	ug/L			06/19/15 13:23	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			06/19/15 13:23	5
Ethylbenzene	36		5.0	3.7	ug/L			06/19/15 13:23	5
Isopropylbenzene	ND		5.0	4.0	ug/L			06/19/15 13:23	5
Methyl acetate	ND		13	2.5	ug/L			06/19/15 13:23	5
Methyl tert-butyl ether	ND		5.0	0.80	ug/L			06/19/15 13:23	5
Methylcyclohexane	170		5.0	0.80	ug/L			06/19/15 13:23	5
Methylene Chloride	ND		5.0	2.2	ug/L			06/19/15 13:23	5
Styrene	ND		5.0	3.7	ug/L			06/19/15 13:23	5
Tetrachloroethene	ND		5.0	1.8	ug/L			06/19/15 13:23	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			06/19/15 13:23	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			06/19/15 13:23	5
Trichloroethene	ND		5.0	2.3	ug/L			06/19/15 13:23	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			06/19/15 13:23	5
Vinyl chloride	ND		5.0	4.5	ug/L			06/19/15 13:23	5
Xylenes, Total	740		10	3.3	ug/L			06/19/15 13:23	5

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-82489-1

Client Sample ID: MW-6-61715

Lab Sample ID: 480-82489-5

Date Collected: 06/17/15 12:15

Matrix: Water

Date Received: 06/18/15 13:25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		66 - 137		06/19/15 13:23	5
Toluene-d8 (Surr)	100		71 - 126		06/19/15 13:23	5
4-Bromofluorobenzene (Surr)	108		73 - 120		06/19/15 13:23	5
Dibromofluoromethane (Surr)	110		60 - 140		06/19/15 13:23	5

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1000	F1	20	10	ug/L			06/20/15 18:32	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		66 - 137		06/20/15 18:32	20
Toluene-d8 (Surr)	103		71 - 126		06/20/15 18:32	20
4-Bromofluorobenzene (Surr)	110		73 - 120		06/20/15 18:32	20
Dibromofluoromethane (Surr)	100		60 - 140		06/20/15 18:32	20

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-82489-1

Client Sample ID: MW-7-61715

Date Collected: 06/17/15 11:20

Date Received: 06/18/15 13:25

Lab Sample ID: 480-82489-6

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/19/15 13:50	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/19/15 13:50	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/19/15 13:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/19/15 13:50	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/19/15 13:50	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/19/15 13:50	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/19/15 13:50	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/19/15 13:50	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/19/15 13:50	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/19/15 13:50	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/19/15 13:50	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/19/15 13:50	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/19/15 13:50	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/19/15 13:50	1
2-Hexanone	ND		5.0	1.2	ug/L			06/19/15 13:50	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/19/15 13:50	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/19/15 13:50	1
Acetone	ND		10	3.0	ug/L			06/19/15 13:50	1
Benzene	ND		1.0	0.41	ug/L			06/19/15 13:50	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/19/15 13:50	1
Bromoform	ND	*	1.0	0.26	ug/L			06/19/15 13:50	1
Bromomethane	ND		1.0	0.69	ug/L			06/19/15 13:50	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/19/15 13:50	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/19/15 13:50	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/19/15 13:50	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/19/15 13:50	1
Chloroethane	ND		1.0	0.32	ug/L			06/19/15 13:50	1
Chloroform	ND		1.0	0.34	ug/L			06/19/15 13:50	1
Chloromethane	ND		1.0	0.35	ug/L			06/19/15 13:50	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/19/15 13:50	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/19/15 13:50	1
Cyclohexane	ND		1.0	0.18	ug/L			06/19/15 13:50	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/19/15 13:50	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/19/15 13:50	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/19/15 13:50	1
Methyl acetate	ND		2.5	0.50	ug/L			06/19/15 13:50	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/19/15 13:50	1
Methylcyclohexane	0.18	J	1.0	0.16	ug/L			06/19/15 13:50	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/19/15 13:50	1
Styrene	ND		1.0	0.73	ug/L			06/19/15 13:50	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/19/15 13:50	1
Toluene	ND		1.0	0.51	ug/L			06/19/15 13:50	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/19/15 13:50	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/19/15 13:50	1
Trichloroethene	ND		1.0	0.46	ug/L			06/19/15 13:50	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/19/15 13:50	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/19/15 13:50	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/19/15 13:50	1

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-82489-1

Client Sample ID: MW-7-61715

Date Collected: 06/17/15 11:20

Date Received: 06/18/15 13:25

Lab Sample ID: 480-82489-6

Matrix: Water

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	101		66 - 137		06/19/15 13:50	1
Toluene-d8 (Surr)	104		71 - 126		06/19/15 13:50	1
4-Bromofluorobenzene (Surr)	109		73 - 120		06/19/15 13:50	1
Dibromofluoromethane (Surr)	107		60 - 140		06/19/15 13:50	1

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-82489-1

Client Sample ID: TRIP BLANK

Date Collected: 06/17/15 00:00

Date Received: 06/18/15 13:25

Lab Sample ID: 480-82489-7

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/19/15 14:18	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/19/15 14:18	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/19/15 14:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/19/15 14:18	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/19/15 14:18	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/19/15 14:18	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/19/15 14:18	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/19/15 14:18	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/19/15 14:18	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/19/15 14:18	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/19/15 14:18	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/19/15 14:18	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/19/15 14:18	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/19/15 14:18	1
2-Hexanone	ND		5.0	1.2	ug/L			06/19/15 14:18	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/19/15 14:18	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/19/15 14:18	1
Acetone	ND		10	3.0	ug/L			06/19/15 14:18	1
Benzene	ND		1.0	0.41	ug/L			06/19/15 14:18	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/19/15 14:18	1
Bromoform	ND *		1.0	0.26	ug/L			06/19/15 14:18	1
Bromomethane	ND		1.0	0.69	ug/L			06/19/15 14:18	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/19/15 14:18	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/19/15 14:18	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/19/15 14:18	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/19/15 14:18	1
Chloroethane	ND		1.0	0.32	ug/L			06/19/15 14:18	1
Chloroform	ND		1.0	0.34	ug/L			06/19/15 14:18	1
Chloromethane	ND		1.0	0.35	ug/L			06/19/15 14:18	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/19/15 14:18	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/19/15 14:18	1
Cyclohexane	ND		1.0	0.18	ug/L			06/19/15 14:18	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/19/15 14:18	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/19/15 14:18	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/19/15 14:18	1
Methyl acetate	ND		2.5	0.50	ug/L			06/19/15 14:18	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/19/15 14:18	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/19/15 14:18	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/19/15 14:18	1
Styrene	ND		1.0	0.73	ug/L			06/19/15 14:18	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/19/15 14:18	1
Toluene	ND		1.0	0.51	ug/L			06/19/15 14:18	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/19/15 14:18	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/19/15 14:18	1
Trichloroethene	ND		1.0	0.46	ug/L			06/19/15 14:18	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/19/15 14:18	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/19/15 14:18	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/19/15 14:18	1

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-82489-1

Client Sample ID: TRIP BLANK

Date Collected: 06/17/15 00:00

Date Received: 06/18/15 13:25

Lab Sample ID: 480-82489-7

Matrix: Water

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	101		66 - 137		06/19/15 14:18	1
Toluene-d8 (Surr)	104		71 - 126		06/19/15 14:18	1
4-Bromofluorobenzene (Surr)	109		73 - 120		06/19/15 14:18	1
Dibromofluoromethane (Surr)	105		60 - 140		06/19/15 14:18	1

Surrogate Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-82489-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (66-137)	TOL (71-126)	BFB (73-120)	DBFM (60-140)
480-82489-1	MW-1-61715	105	101	110	106
480-82489-2	MW-3-61715	101	103	109	108
480-82489-3	MW-4-61715	103	104	111	101
480-82489-3 - DL	MW-4-61715	104	103	107	107
480-82489-4	MW-5-61715	95	102	110	101
480-82489-4 - DL	MW-5-61715	99	104	109	106
480-82489-5	MW-6-61715	106	100	108	110
480-82489-5 - DL	MW-6-61715	96	103	110	100
480-82489-5 MS	MW-6-61715	104	102	107	112
480-82489-5 MSD	MW-6-61715	101	102	109	109
480-82489-6	MW-7-61715	101	104	109	107
480-82489-7	TRIP BLANK	101	104	109	105
LCS 480-249012/4	Lab Control Sample	97	103	109	104
LCS 480-249205/5	Lab Control Sample	100	104	108	106
MB 480-249012/6	Method Blank	102	102	106	107
MB 480-249205/7	Method Blank	102	102	108	105

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-82489-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-249012/6

Matrix: Water

Analysis Batch: 249012

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/19/15 11:06	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/19/15 11:06	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/19/15 11:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/19/15 11:06	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/19/15 11:06	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/19/15 11:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/19/15 11:06	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/19/15 11:06	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/19/15 11:06	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/19/15 11:06	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/19/15 11:06	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/19/15 11:06	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/19/15 11:06	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/19/15 11:06	1
2-Hexanone	ND		5.0	1.2	ug/L			06/19/15 11:06	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/19/15 11:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/19/15 11:06	1
Acetone	ND		10	3.0	ug/L			06/19/15 11:06	1
Benzene	ND		1.0	0.41	ug/L			06/19/15 11:06	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/19/15 11:06	1
Bromoform	ND		1.0	0.26	ug/L			06/19/15 11:06	1
Bromomethane	ND		1.0	0.69	ug/L			06/19/15 11:06	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/19/15 11:06	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/19/15 11:06	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/19/15 11:06	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/19/15 11:06	1
Chloroethane	ND		1.0	0.32	ug/L			06/19/15 11:06	1
Chloroform	ND		1.0	0.34	ug/L			06/19/15 11:06	1
Chloromethane	ND		1.0	0.35	ug/L			06/19/15 11:06	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/19/15 11:06	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/19/15 11:06	1
Cyclohexane	ND		1.0	0.18	ug/L			06/19/15 11:06	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/19/15 11:06	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/19/15 11:06	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/19/15 11:06	1
Methyl acetate	ND		2.5	0.50	ug/L			06/19/15 11:06	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/19/15 11:06	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/19/15 11:06	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/19/15 11:06	1
Styrene	ND		1.0	0.73	ug/L			06/19/15 11:06	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/19/15 11:06	1
Toluene	ND		1.0	0.51	ug/L			06/19/15 11:06	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/19/15 11:06	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/19/15 11:06	1
Trichloroethene	ND		1.0	0.46	ug/L			06/19/15 11:06	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/19/15 11:06	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/19/15 11:06	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/19/15 11:06	1

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-82489-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-249012/6

Matrix: Water

Analysis Batch: 249012

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		66 - 137		06/19/15 11:06	1
Toluene-d8 (Surr)	102		71 - 126		06/19/15 11:06	1
4-Bromofluorobenzene (Surr)	106		73 - 120		06/19/15 11:06	1
Dibromofluoromethane (Surr)	107		60 - 140		06/19/15 11:06	1

Lab Sample ID: LCS 480-249012/4

Matrix: Water

Analysis Batch: 249012

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	25.0	24.1		ug/L		97	71 - 129
1,1-Dichloroethene	25.0	26.7		ug/L		107	58 - 121
1,2-Dichlorobenzene	25.0	26.6		ug/L		107	80 - 124
1,2-Dichloroethane	25.0	24.5		ug/L		98	75 - 127
Benzene	25.0	26.4		ug/L		106	71 - 124
Chlorobenzene	25.0	27.2		ug/L		109	72 - 120
cis-1,2-Dichloroethene	25.0	26.9		ug/L		108	74 - 124
Ethylbenzene	25.0	27.0		ug/L		108	77 - 123
Methyl tert-butyl ether	25.0	26.2		ug/L		105	64 - 127
Tetrachloroethene	25.0	28.5		ug/L		114	74 - 122
Toluene	25.0	26.6		ug/L		106	80 - 122
trans-1,2-Dichloroethene	25.0	27.1		ug/L		109	73 - 127
Trichloroethene	25.0	27.0		ug/L		108	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		66 - 137
Toluene-d8 (Surr)	103		71 - 126
4-Bromofluorobenzene (Surr)	109		73 - 120
Dibromofluoromethane (Surr)	104		60 - 140

Lab Sample ID: MB 480-249205/7

Matrix: Water

Analysis Batch: 249205

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/20/15 10:13	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/20/15 10:13	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/20/15 10:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/20/15 10:13	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/20/15 10:13	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/20/15 10:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/20/15 10:13	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/20/15 10:13	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/20/15 10:13	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/20/15 10:13	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/20/15 10:13	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/20/15 10:13	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/20/15 10:13	1

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-82489-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-249205/7

Matrix: Water

Analysis Batch: 249205

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/20/15 10:13	1
2-Hexanone	ND		5.0	1.2	ug/L			06/20/15 10:13	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/20/15 10:13	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/20/15 10:13	1
Acetone	ND		10	3.0	ug/L			06/20/15 10:13	1
Benzene	ND		1.0	0.41	ug/L			06/20/15 10:13	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/20/15 10:13	1
Bromoform	ND		1.0	0.26	ug/L			06/20/15 10:13	1
Bromomethane	ND		1.0	0.69	ug/L			06/20/15 10:13	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/20/15 10:13	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/20/15 10:13	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/20/15 10:13	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/20/15 10:13	1
Chloroethane	ND		1.0	0.32	ug/L			06/20/15 10:13	1
Chloroform	ND		1.0	0.34	ug/L			06/20/15 10:13	1
Chloromethane	ND		1.0	0.35	ug/L			06/20/15 10:13	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/20/15 10:13	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/20/15 10:13	1
Cyclohexane	ND		1.0	0.18	ug/L			06/20/15 10:13	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/20/15 10:13	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/20/15 10:13	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/20/15 10:13	1
Methyl acetate	ND		2.5	0.50	ug/L			06/20/15 10:13	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/20/15 10:13	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/20/15 10:13	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/20/15 10:13	1
Styrene	ND		1.0	0.73	ug/L			06/20/15 10:13	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/20/15 10:13	1
Toluene	ND		1.0	0.51	ug/L			06/20/15 10:13	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/20/15 10:13	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/20/15 10:13	1
Trichloroethene	ND		1.0	0.46	ug/L			06/20/15 10:13	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/20/15 10:13	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/20/15 10:13	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/20/15 10:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		66 - 137		06/20/15 10:13	1
Toluene-d8 (Surr)	102		71 - 126		06/20/15 10:13	1
4-Bromofluorobenzene (Surr)	108		73 - 120		06/20/15 10:13	1
Dibromofluoromethane (Surr)	105		60 - 140		06/20/15 10:13	1

Lab Sample ID: LCS 480-249205/5

Matrix: Water

Analysis Batch: 249205

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	25.0	25.8		ug/L		103	71 - 129

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-82489-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-249205/5

Matrix: Water

Analysis Batch: 249205

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	25.0	29.8		ug/L		119	58 - 121
1,2-Dichlorobenzene	25.0	26.6		ug/L		106	80 - 124
1,2-Dichloroethane	25.0	25.4		ug/L		102	75 - 127
Benzene	25.0	28.0		ug/L		112	71 - 124
Chlorobenzene	25.0	27.5		ug/L		110	72 - 120
cis-1,2-Dichloroethene	25.0	28.7		ug/L		115	74 - 124
Ethylbenzene	25.0	27.8		ug/L		111	77 - 123
Methyl tert-butyl ether	25.0	27.6		ug/L		110	64 - 127
Tetrachloroethene	25.0	29.6		ug/L		118	74 - 122
Toluene	25.0	27.2		ug/L		109	80 - 122
trans-1,2-Dichloroethene	25.0	29.1		ug/L		116	73 - 127
Trichloroethene	25.0	28.8		ug/L		115	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		66 - 137
Toluene-d8 (Surr)	104		71 - 126
4-Bromofluorobenzene (Surr)	108		73 - 120
Dibromofluoromethane (Surr)	106		60 - 140

Lab Sample ID: 480-82489-5 MS

Matrix: Water

Analysis Batch: 249205

Client Sample ID: MW-6-61715

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	ND		500	534		ug/L		107	71 - 129
1,1-Dichloroethene	ND	F1	500	623	F1	ug/L		125	58 - 121
1,2-Dichlorobenzene	ND		500	523		ug/L		105	80 - 124
1,2-Dichloroethane	ND		500	532		ug/L		106	75 - 127
Benzene	480		500	1020		ug/L		109	71 - 124
Chlorobenzene	ND		500	540		ug/L		108	72 - 120
cis-1,2-Dichloroethene	ND		500	586		ug/L		117	74 - 124
Ethylbenzene	18	J	500	555		ug/L		107	77 - 123
Methyl tert-butyl ether	ND		500	559		ug/L		112	64 - 127
Tetrachloroethene	ND		500	581		ug/L		116	74 - 122
Toluene	1000	F1	500	1400		ug/L		80	80 - 122
trans-1,2-Dichloroethene	ND		500	613		ug/L		123	73 - 127
Trichloroethene	ND		500	608		ug/L		122	74 - 123

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		66 - 137
Toluene-d8 (Surr)	102		71 - 126
4-Bromofluorobenzene (Surr)	107		73 - 120
Dibromofluoromethane (Surr)	112		60 - 140

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-82489-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-82489-5 MSD

Matrix: Water

Analysis Batch: 249205

Client Sample ID: MW-6-61715

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	ND		500	500		ug/L		100	71 - 129	7	20
1,1-Dichloroethene	ND	F1	500	571		ug/L		114	58 - 121	9	16
1,2-Dichlorobenzene	ND		500	509		ug/L		102	80 - 124	3	20
1,2-Dichloroethane	ND		500	504		ug/L		101	75 - 127	5	20
Benzene	480		500	969		ug/L		98	71 - 124	5	13
Chlorobenzene	ND		500	525		ug/L		105	72 - 120	3	25
cis-1,2-Dichloroethene	ND		500	557		ug/L		111	74 - 124	5	15
Ethylbenzene	18	J	500	534		ug/L		103	77 - 123	4	15
Methyl tert-butyl ether	ND		500	539		ug/L		108	64 - 127	4	37
Tetrachloroethene	ND		500	557		ug/L		111	74 - 122	4	20
Toluene	1000	F1	500	1360	F1	ug/L		72	80 - 122	3	15
trans-1,2-Dichloroethene	ND		500	575		ug/L		115	73 - 127	6	20
Trichloroethene	ND		500	569		ug/L		114	74 - 123	7	16
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	101		66 - 137								
Toluene-d8 (Surr)	102		71 - 126								
4-Bromofluorobenzene (Surr)	109		73 - 120								
Dibromofluoromethane (Surr)	109		60 - 140								

QC Association Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-82489-1

GC/MS VOA

Analysis Batch: 249012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-82489-1	MW-1-61715	Total/NA	Water	8260C	
480-82489-2	MW-3-61715	Total/NA	Water	8260C	
480-82489-3	MW-4-61715	Total/NA	Water	8260C	
480-82489-4	MW-5-61715	Total/NA	Water	8260C	
480-82489-5	MW-6-61715	Total/NA	Water	8260C	
480-82489-6	MW-7-61715	Total/NA	Water	8260C	
480-82489-7	TRIP BLANK	Total/NA	Water	8260C	
LCS 480-249012/4	Lab Control Sample	Total/NA	Water	8260C	
MB 480-249012/6	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 249205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-82489-3 - DL	MW-4-61715	Total/NA	Water	8260C	
480-82489-4 - DL	MW-5-61715	Total/NA	Water	8260C	
480-82489-5 - DL	MW-6-61715	Total/NA	Water	8260C	
480-82489-5 MS	MW-6-61715	Total/NA	Water	8260C	
480-82489-5 MSD	MW-6-61715	Total/NA	Water	8260C	
LCS 480-249205/5	Lab Control Sample	Total/NA	Water	8260C	
MB 480-249205/7	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-82489-1

Client Sample ID: MW-1-61715

Date Collected: 06/17/15 15:00

Date Received: 06/18/15 13:25

Lab Sample ID: 480-82489-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	249012	06/19/15 11:33	EDB	TAL BUF

Client Sample ID: MW-3-61715

Date Collected: 06/17/15 13:40

Date Received: 06/18/15 13:25

Lab Sample ID: 480-82489-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		50	249012	06/19/15 12:01	EDB	TAL BUF

Client Sample ID: MW-4-61715

Date Collected: 06/17/15 13:00

Date Received: 06/18/15 13:25

Lab Sample ID: 480-82489-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	249012	06/19/15 12:28	EDB	TAL BUF
Total/NA	Analysis	8260C	DL	20	249205	06/20/15 17:37	LJF	TAL BUF

Client Sample ID: MW-5-61715

Date Collected: 06/17/15 14:20

Date Received: 06/18/15 13:25

Lab Sample ID: 480-82489-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		80	249012	06/19/15 12:55	EDB	TAL BUF
Total/NA	Analysis	8260C	DL	200	249205	06/20/15 18:04	LJF	TAL BUF

Client Sample ID: MW-6-61715

Date Collected: 06/17/15 12:15

Date Received: 06/18/15 13:25

Lab Sample ID: 480-82489-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	249012	06/19/15 13:23	EDB	TAL BUF
Total/NA	Analysis	8260C	DL	20	249205	06/20/15 18:32	LJF	TAL BUF

Client Sample ID: MW-7-61715

Date Collected: 06/17/15 11:20

Date Received: 06/18/15 13:25

Lab Sample ID: 480-82489-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	249012	06/19/15 13:50	EDB	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-82489-1

Client Sample ID: TRIP BLANK

Date Collected: 06/17/15 00:00

Date Received: 06/18/15 13:25

Lab Sample ID: 480-82489-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	249012	06/19/15 14:18	EDB	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-82489-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-16

1

2

3

4

5

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14

15

Method Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-82489-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-82489-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-82489-1	MW-1-61715	Water	06/17/15 15:00	06/18/15 13:25
480-82489-2	MW-3-61715	Water	06/17/15 13:40	06/18/15 13:25
480-82489-3	MW-4-61715	Water	06/17/15 13:00	06/18/15 13:25
480-82489-4	MW-5-61715	Water	06/17/15 14:20	06/18/15 13:25
480-82489-5	MW-6-61715	Water	06/17/15 12:15	06/18/15 13:25
480-82489-6	MW-7-61715	Water	06/17/15 11:20	06/18/15 13:25
480-82489-7	TRIP BLANK	Water	06/17/15 00:00	06/18/15 13:25

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

Chain of Custody Record

TAL-4124 (1007)

Client C&S Engineers, Inc	Project Manager Mark Colmerauer	Date 6/18/15	Chain of Custody Number 250580
Address 141 Elm Street	Telephone Number (Area Code)/Fax Number 716-847-1630	Lab Number	Page 1 of 1
City Buffalo	State NY	Zip Code 14203	
Project Name and Location (State) MOB	Site Contact	Lab Contact	Analysis (Attach list if more space is needed)
Carrier/Waybill Number			

Special Instructions/
Conditions of Receipt

Contract/Purchase Order/Quote No.

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives				
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH
MW-1-61715	6/17/15	15:00	X							X		
MW-3-61715		13:40	X							X		
MW-4-61715		13:00	X							X		
MW-5-61715		14:20	X							X		
MW-6-61715		12:15	X							X		
MW-7-61715		11:20	X							X		



480-82489 Chain of Custody

Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown	Sample Disposal ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months	(A fee may be assessed if samples are retained longer than 1 month)
Turn Around Time Required ☐ 24 Hours ☐ 48 Hours ☒ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____	QC Requirements (Specify)	

1. Relinquished By Cody A. [Signature]	Date 6/18/15	Time 12:45
2. Relinquished By Jay [Signature]	Date 6/18/15	Time 13:25
3. Relinquished By	Date	Time

Temp 46.6#1

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: C&S Engineers, Inc.

Job Number: 480-82489-1

Login Number: 82489

List Number: 1

Creator: Kolb, Chris M

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	No: Received Trip Blank(s) not listed on COC.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	C&S ENG.
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-84998-1

Client Project/Site: Well Sampling - MOB

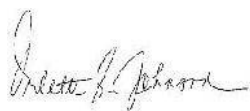
For:

C&S Engineers, Inc.

499 Col. Eileen Collins Blvd

Syracuse, New York 13212

Attn: Mr. Mark Colmerauer



Authorized for release by:

8/6/2015 4:54:03 PM

Orlette Johnson, Senior Project Manager

(484)685-0864

orlette.johnson@testamericainc.com

Designee for

Judy Stone, Senior Project Manager

(484)685-0868

judy.stone@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-84998-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-84998-1

Job ID: 480-84998-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-84998-1

Receipt

The samples were received on 8/4/2015 12:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8° C.

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-256997 recovered above the upper control limit for Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The following samples are impacted: BCP-MW1-080315 (480-84998-1), BCP-MW3-080315 (480-84998-2), BCP-MW4-080315 (480-84998-3), BCP-MW5-080315 (480-84998-4), BCP-MW6-080315 (480-84998-5) and BCP-MW7-080315 (480-84998-6).

Method(s) 8260C: The following sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: BCP-MW6-080315 (480-84998-5).

Method(s) 8260C: The following samples was diluted to bring the concentration of target analytes within the calibration range: BCP-MW3-080315 (480-84998-2), BCP-MW5-080315 (480-84998-4), BCP-MW6-080315 (480-84998-5), BCP-MW4-080315 (480-84998-3), (480-84998-A-2 MS) and (480-84998-A-2 MSD). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-84998-1

Client Sample ID: BCP-MW1-080315

Lab Sample ID: 480-84998-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	45		10	1.3	ug/L	1		8260C	Total/NA
4-Methyl-2-pentanone (MIBK)	13		5.0	2.1	ug/L	1		8260C	Total/NA
Benzene	39		1.0	0.41	ug/L	1		8260C	Total/NA
Cyclohexane	59		1.0	0.18	ug/L	1		8260C	Total/NA
Ethylbenzene	1.5		1.0	0.74	ug/L	1		8260C	Total/NA
Methylcyclohexane	17		1.0	0.16	ug/L	1		8260C	Total/NA
Toluene	38		1.0	0.51	ug/L	1		8260C	Total/NA
Xylenes, Total	4.2		2.0	0.66	ug/L	1		8260C	Total/NA

Client Sample ID: BCP-MW3-080315

Lab Sample ID: 480-84998-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	4100		50	21	ug/L	50		8260C	Total/NA
Cyclohexane	210		50	9.0	ug/L	50		8260C	Total/NA
Ethylbenzene	1700		50	37	ug/L	50		8260C	Total/NA
Methylcyclohexane	96		50	8.0	ug/L	50		8260C	Total/NA
Toluene	130		50	26	ug/L	50		8260C	Total/NA
Xylenes, Total	3900		100	33	ug/L	50		8260C	Total/NA

Client Sample ID: BCP-MW4-080315

Lab Sample ID: 480-84998-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	210		200	60	ug/L	20		8260C	Total/NA
Benzene	24		20	8.2	ug/L	20		8260C	Total/NA
Cyclohexane	110		20	3.6	ug/L	20		8260C	Total/NA
Ethylbenzene	680		20	15	ug/L	20		8260C	Total/NA
Isopropylbenzene	26		20	16	ug/L	20		8260C	Total/NA
Methylcyclohexane	69		20	3.2	ug/L	20		8260C	Total/NA
Toluene	140		20	10	ug/L	20		8260C	Total/NA
Xylenes, Total - DL	3100		100	33	ug/L	50		8260C	Total/NA

Client Sample ID: BCP-MW5-080315

Lab Sample ID: 480-84998-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	4100		200	82	ug/L	200		8260C	Total/NA
Cyclohexane	260		200	36	ug/L	200		8260C	Total/NA
Ethylbenzene	2600		200	150	ug/L	200		8260C	Total/NA
Methylcyclohexane	130	J	200	32	ug/L	200		8260C	Total/NA
Toluene	290		200	100	ug/L	200		8260C	Total/NA
Xylenes, Total	10000		400	130	ug/L	200		8260C	Total/NA

Client Sample ID: BCP-MW6-080315

Lab Sample ID: 480-84998-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	340		200	60	ug/L	20		8260C	Total/NA
Benzene	890		20	8.2	ug/L	20		8260C	Total/NA
Cyclohexane	41		20	3.6	ug/L	20		8260C	Total/NA
Ethylbenzene	210		20	15	ug/L	20		8260C	Total/NA
Methylcyclohexane	27		20	3.2	ug/L	20		8260C	Total/NA
Toluene	1900		20	10	ug/L	20		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-84998-1

Client Sample ID: BCP-MW6-080315 (Continued)

Lab Sample ID: 480-84998-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	1100		40	13	ug/L	20		8260C	Total/NA

Client Sample ID: BCP-MW7-080315

Lab Sample ID: 480-84998-6

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-84998-1

Client Sample ID: BCP-MW1-080315

Lab Sample ID: 480-84998-1

Date Collected: 08/03/15 10:15

Matrix: Water

Date Received: 08/04/15 12:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			08/05/15 01:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/05/15 01:53	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/05/15 01:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/05/15 01:53	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/05/15 01:53	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/05/15 01:53	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			08/05/15 01:53	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			08/05/15 01:53	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/05/15 01:53	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/05/15 01:53	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/05/15 01:53	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/05/15 01:53	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			08/05/15 01:53	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/05/15 01:53	1
2-Hexanone	ND		5.0	1.2	ug/L			08/05/15 01:53	1
2-Butanone (MEK)	45		10	1.3	ug/L			08/05/15 01:53	1
4-Methyl-2-pentanone (MIBK)	13		5.0	2.1	ug/L			08/05/15 01:53	1
Acetone	ND		10	3.0	ug/L			08/05/15 01:53	1
Benzene	39		1.0	0.41	ug/L			08/05/15 01:53	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/05/15 01:53	1
Bromoform	ND		1.0	0.26	ug/L			08/05/15 01:53	1
Bromomethane	ND		1.0	0.69	ug/L			08/05/15 01:53	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/05/15 01:53	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/05/15 01:53	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/05/15 01:53	1
Dibromochloromethane	ND		1.0	0.32	ug/L			08/05/15 01:53	1
Chloroethane	ND		1.0	0.32	ug/L			08/05/15 01:53	1
Chloroform	ND		1.0	0.34	ug/L			08/05/15 01:53	1
Chloromethane	ND		1.0	0.35	ug/L			08/05/15 01:53	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/05/15 01:53	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/05/15 01:53	1
Cyclohexane	59		1.0	0.18	ug/L			08/05/15 01:53	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			08/05/15 01:53	1
Ethylbenzene	1.5		1.0	0.74	ug/L			08/05/15 01:53	1
Isopropylbenzene	ND		1.0	0.79	ug/L			08/05/15 01:53	1
Methyl acetate	ND		2.5	1.3	ug/L			08/05/15 01:53	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/05/15 01:53	1
Methylcyclohexane	17		1.0	0.16	ug/L			08/05/15 01:53	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/05/15 01:53	1
Styrene	ND		1.0	0.73	ug/L			08/05/15 01:53	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/05/15 01:53	1
Toluene	38		1.0	0.51	ug/L			08/05/15 01:53	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/05/15 01:53	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/05/15 01:53	1
Trichloroethene	ND		1.0	0.46	ug/L			08/05/15 01:53	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/05/15 01:53	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/05/15 01:53	1
Xylenes, Total	4.2		2.0	0.66	ug/L			08/05/15 01:53	1

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-84998-1

Client Sample ID: BCP-MW1-080315

Lab Sample ID: 480-84998-1

Date Collected: 08/03/15 10:15

Matrix: Water

Date Received: 08/04/15 12:15

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	115		66 - 137		08/05/15 01:53	1
Toluene-d8 (Surr)	98		71 - 126		08/05/15 01:53	1
4-Bromofluorobenzene (Surr)	96		73 - 120		08/05/15 01:53	1
Dibromofluoromethane (Surr)	111		60 - 140		08/05/15 01:53	1

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-84998-1

Client Sample ID: BCP-MW3-080315

Lab Sample ID: 480-84998-2

Date Collected: 08/03/15 13:00

Matrix: Water

Date Received: 08/04/15 12:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		50	41	ug/L			08/05/15 02:15	50
1,1,2,2-Tetrachloroethane	ND		50	11	ug/L			08/05/15 02:15	50
1,1,2-Trichloroethane	ND		50	12	ug/L			08/05/15 02:15	50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	16	ug/L			08/05/15 02:15	50
1,1-Dichloroethane	ND		50	19	ug/L			08/05/15 02:15	50
1,1-Dichloroethene	ND		50	15	ug/L			08/05/15 02:15	50
1,2,4-Trichlorobenzene	ND		50	21	ug/L			08/05/15 02:15	50
1,2-Dibromo-3-Chloropropane	ND		50	20	ug/L			08/05/15 02:15	50
1,2-Dibromoethane	ND		50	37	ug/L			08/05/15 02:15	50
1,2-Dichlorobenzene	ND		50	40	ug/L			08/05/15 02:15	50
1,2-Dichloroethane	ND		50	11	ug/L			08/05/15 02:15	50
1,2-Dichloropropane	ND		50	36	ug/L			08/05/15 02:15	50
1,3-Dichlorobenzene	ND		50	39	ug/L			08/05/15 02:15	50
1,4-Dichlorobenzene	ND		50	42	ug/L			08/05/15 02:15	50
2-Hexanone	ND		250	62	ug/L			08/05/15 02:15	50
2-Butanone (MEK)	ND		500	66	ug/L			08/05/15 02:15	50
4-Methyl-2-pentanone (MIBK)	ND		250	110	ug/L			08/05/15 02:15	50
Acetone	ND		500	150	ug/L			08/05/15 02:15	50
Benzene	4100		50	21	ug/L			08/05/15 02:15	50
Bromodichloromethane	ND		50	20	ug/L			08/05/15 02:15	50
Bromoform	ND		50	13	ug/L			08/05/15 02:15	50
Bromomethane	ND		50	35	ug/L			08/05/15 02:15	50
Carbon disulfide	ND		50	9.5	ug/L			08/05/15 02:15	50
Carbon tetrachloride	ND		50	14	ug/L			08/05/15 02:15	50
Chlorobenzene	ND		50	38	ug/L			08/05/15 02:15	50
Dibromochloromethane	ND		50	16	ug/L			08/05/15 02:15	50
Chloroethane	ND		50	16	ug/L			08/05/15 02:15	50
Chloroform	ND		50	17	ug/L			08/05/15 02:15	50
Chloromethane	ND		50	18	ug/L			08/05/15 02:15	50
cis-1,2-Dichloroethene	ND		50	41	ug/L			08/05/15 02:15	50
cis-1,3-Dichloropropene	ND		50	18	ug/L			08/05/15 02:15	50
Cyclohexane	210		50	9.0	ug/L			08/05/15 02:15	50
Dichlorodifluoromethane	ND		50	34	ug/L			08/05/15 02:15	50
Ethylbenzene	1700		50	37	ug/L			08/05/15 02:15	50
Isopropylbenzene	ND		50	40	ug/L			08/05/15 02:15	50
Methyl acetate	ND		130	65	ug/L			08/05/15 02:15	50
Methyl tert-butyl ether	ND		50	8.0	ug/L			08/05/15 02:15	50
Methylcyclohexane	96		50	8.0	ug/L			08/05/15 02:15	50
Methylene Chloride	ND		50	22	ug/L			08/05/15 02:15	50
Styrene	ND		50	37	ug/L			08/05/15 02:15	50
Tetrachloroethene	ND		50	18	ug/L			08/05/15 02:15	50
Toluene	130		50	26	ug/L			08/05/15 02:15	50
trans-1,2-Dichloroethene	ND		50	45	ug/L			08/05/15 02:15	50
trans-1,3-Dichloropropene	ND		50	19	ug/L			08/05/15 02:15	50
Trichloroethene	ND		50	23	ug/L			08/05/15 02:15	50
Trichlorofluoromethane	ND		50	44	ug/L			08/05/15 02:15	50
Vinyl chloride	ND		50	45	ug/L			08/05/15 02:15	50
Xylenes, Total	3900		100	33	ug/L			08/05/15 02:15	50

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-84998-1

Client Sample ID: BCP-MW3-080315

Lab Sample ID: 480-84998-2

Date Collected: 08/03/15 13:00

Matrix: Water

Date Received: 08/04/15 12:15

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	96		66 - 137		08/05/15 02:15	50
Toluene-d8 (Surr)	103		71 - 126		08/05/15 02:15	50
4-Bromofluorobenzene (Surr)	100		73 - 120		08/05/15 02:15	50
Dibromofluoromethane (Surr)	99		60 - 140		08/05/15 02:15	50

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-84998-1

Client Sample ID: BCP-MW4-080315

Lab Sample ID: 480-84998-3

Date Collected: 08/03/15 12:30

Matrix: Water

Date Received: 08/04/15 12:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		20	16	ug/L			08/05/15 02:37	20
1,1,2,2-Tetrachloroethane	ND		20	4.2	ug/L			08/05/15 02:37	20
1,1,2-Trichloroethane	ND		20	4.6	ug/L			08/05/15 02:37	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20	6.2	ug/L			08/05/15 02:37	20
1,1-Dichloroethane	ND		20	7.6	ug/L			08/05/15 02:37	20
1,1-Dichloroethene	ND		20	5.8	ug/L			08/05/15 02:37	20
1,2,4-Trichlorobenzene	ND		20	8.2	ug/L			08/05/15 02:37	20
1,2-Dibromo-3-Chloropropane	ND		20	7.8	ug/L			08/05/15 02:37	20
1,2-Dibromoethane	ND		20	15	ug/L			08/05/15 02:37	20
1,2-Dichlorobenzene	ND		20	16	ug/L			08/05/15 02:37	20
1,2-Dichloroethane	ND		20	4.2	ug/L			08/05/15 02:37	20
1,2-Dichloropropane	ND		20	14	ug/L			08/05/15 02:37	20
1,3-Dichlorobenzene	ND		20	16	ug/L			08/05/15 02:37	20
1,4-Dichlorobenzene	ND		20	17	ug/L			08/05/15 02:37	20
2-Hexanone	ND		100	25	ug/L			08/05/15 02:37	20
2-Butanone (MEK)	ND		200	26	ug/L			08/05/15 02:37	20
4-Methyl-2-pentanone (MIBK)	ND		100	42	ug/L			08/05/15 02:37	20
Acetone	210		200	60	ug/L			08/05/15 02:37	20
Benzene	24		20	8.2	ug/L			08/05/15 02:37	20
Bromodichloromethane	ND		20	7.8	ug/L			08/05/15 02:37	20
Bromoform	ND		20	5.2	ug/L			08/05/15 02:37	20
Bromomethane	ND		20	14	ug/L			08/05/15 02:37	20
Carbon disulfide	ND		20	3.8	ug/L			08/05/15 02:37	20
Carbon tetrachloride	ND		20	5.4	ug/L			08/05/15 02:37	20
Chlorobenzene	ND		20	15	ug/L			08/05/15 02:37	20
Dibromochloromethane	ND		20	6.4	ug/L			08/05/15 02:37	20
Chloroethane	ND		20	6.4	ug/L			08/05/15 02:37	20
Chloroform	ND		20	6.8	ug/L			08/05/15 02:37	20
Chloromethane	ND		20	7.0	ug/L			08/05/15 02:37	20
cis-1,2-Dichloroethene	ND		20	16	ug/L			08/05/15 02:37	20
cis-1,3-Dichloropropene	ND		20	7.2	ug/L			08/05/15 02:37	20
Cyclohexane	110		20	3.6	ug/L			08/05/15 02:37	20
Dichlorodifluoromethane	ND		20	14	ug/L			08/05/15 02:37	20
Ethylbenzene	680		20	15	ug/L			08/05/15 02:37	20
Isopropylbenzene	26		20	16	ug/L			08/05/15 02:37	20
Methyl acetate	ND		50	26	ug/L			08/05/15 02:37	20
Methyl tert-butyl ether	ND		20	3.2	ug/L			08/05/15 02:37	20
Methylcyclohexane	69		20	3.2	ug/L			08/05/15 02:37	20
Methylene Chloride	ND		20	8.8	ug/L			08/05/15 02:37	20
Styrene	ND		20	15	ug/L			08/05/15 02:37	20
Tetrachloroethene	ND		20	7.2	ug/L			08/05/15 02:37	20
Toluene	140		20	10	ug/L			08/05/15 02:37	20
trans-1,2-Dichloroethene	ND		20	18	ug/L			08/05/15 02:37	20
trans-1,3-Dichloropropene	ND		20	7.4	ug/L			08/05/15 02:37	20
Trichloroethene	ND		20	9.2	ug/L			08/05/15 02:37	20
Trichlorofluoromethane	ND		20	18	ug/L			08/05/15 02:37	20
Vinyl chloride	ND		20	18	ug/L			08/05/15 02:37	20

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-84998-1

Client Sample ID: BCP-MW4-080315

Lab Sample ID: 480-84998-3

Date Collected: 08/03/15 12:30

Matrix: Water

Date Received: 08/04/15 12:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		66 - 137		08/05/15 02:37	20
Toluene-d8 (Surr)	102		71 - 126		08/05/15 02:37	20
4-Bromofluorobenzene (Surr)	101		73 - 120		08/05/15 02:37	20
Dibromofluoromethane (Surr)	110		60 - 140		08/05/15 02:37	20

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	3100		100	33	ug/L	-		08/05/15 11:08	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		66 - 137		08/05/15 11:08	50
Toluene-d8 (Surr)	104		71 - 126		08/05/15 11:08	50
4-Bromofluorobenzene (Surr)	102		73 - 120		08/05/15 11:08	50
Dibromofluoromethane (Surr)	106		60 - 140		08/05/15 11:08	50

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-84998-1

Client Sample ID: BCP-MW5-080315

Lab Sample ID: 480-84998-4

Date Collected: 08/03/15 14:00

Matrix: Water

Date Received: 08/04/15 12:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		200	160	ug/L			08/05/15 02:59	200
1,1,2,2-Tetrachloroethane	ND		200	42	ug/L			08/05/15 02:59	200
1,1,2-Trichloroethane	ND		200	46	ug/L			08/05/15 02:59	200
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		200	62	ug/L			08/05/15 02:59	200
1,1-Dichloroethane	ND		200	76	ug/L			08/05/15 02:59	200
1,1-Dichloroethene	ND		200	58	ug/L			08/05/15 02:59	200
1,2,4-Trichlorobenzene	ND		200	82	ug/L			08/05/15 02:59	200
1,2-Dibromo-3-Chloropropane	ND		200	78	ug/L			08/05/15 02:59	200
1,2-Dibromoethane	ND		200	150	ug/L			08/05/15 02:59	200
1,2-Dichlorobenzene	ND		200	160	ug/L			08/05/15 02:59	200
1,2-Dichloroethane	ND		200	42	ug/L			08/05/15 02:59	200
1,2-Dichloropropane	ND		200	140	ug/L			08/05/15 02:59	200
1,3-Dichlorobenzene	ND		200	160	ug/L			08/05/15 02:59	200
1,4-Dichlorobenzene	ND		200	170	ug/L			08/05/15 02:59	200
2-Hexanone	ND		1000	250	ug/L			08/05/15 02:59	200
2-Butanone (MEK)	ND		2000	260	ug/L			08/05/15 02:59	200
4-Methyl-2-pentanone (MIBK)	ND		1000	420	ug/L			08/05/15 02:59	200
Acetone	ND		2000	600	ug/L			08/05/15 02:59	200
Benzene	4100		200	82	ug/L			08/05/15 02:59	200
Bromodichloromethane	ND		200	78	ug/L			08/05/15 02:59	200
Bromoform	ND		200	52	ug/L			08/05/15 02:59	200
Bromomethane	ND		200	140	ug/L			08/05/15 02:59	200
Carbon disulfide	ND		200	38	ug/L			08/05/15 02:59	200
Carbon tetrachloride	ND		200	54	ug/L			08/05/15 02:59	200
Chlorobenzene	ND		200	150	ug/L			08/05/15 02:59	200
Dibromochloromethane	ND		200	64	ug/L			08/05/15 02:59	200
Chloroethane	ND		200	64	ug/L			08/05/15 02:59	200
Chloroform	ND		200	68	ug/L			08/05/15 02:59	200
Chloromethane	ND		200	70	ug/L			08/05/15 02:59	200
cis-1,2-Dichloroethene	ND		200	160	ug/L			08/05/15 02:59	200
cis-1,3-Dichloropropene	ND		200	72	ug/L			08/05/15 02:59	200
Cyclohexane	260		200	36	ug/L			08/05/15 02:59	200
Dichlorodifluoromethane	ND		200	140	ug/L			08/05/15 02:59	200
Ethylbenzene	2600		200	150	ug/L			08/05/15 02:59	200
Isopropylbenzene	ND		200	160	ug/L			08/05/15 02:59	200
Methyl acetate	ND		500	260	ug/L			08/05/15 02:59	200
Methyl tert-butyl ether	ND		200	32	ug/L			08/05/15 02:59	200
Methylcyclohexane	130 J		200	32	ug/L			08/05/15 02:59	200
Methylene Chloride	ND		200	88	ug/L			08/05/15 02:59	200
Styrene	ND		200	150	ug/L			08/05/15 02:59	200
Tetrachloroethene	ND		200	72	ug/L			08/05/15 02:59	200
Toluene	290		200	100	ug/L			08/05/15 02:59	200
trans-1,2-Dichloroethene	ND		200	180	ug/L			08/05/15 02:59	200
trans-1,3-Dichloropropene	ND		200	74	ug/L			08/05/15 02:59	200
Trichloroethene	ND		200	92	ug/L			08/05/15 02:59	200
Trichlorofluoromethane	ND		200	180	ug/L			08/05/15 02:59	200
Vinyl chloride	ND		200	180	ug/L			08/05/15 02:59	200
Xylenes, Total	10000		400	130	ug/L			08/05/15 02:59	200

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-84998-1

Client Sample ID: BCP-MW5-080315

Lab Sample ID: 480-84998-4

Date Collected: 08/03/15 14:00

Matrix: Water

Date Received: 08/04/15 12:15

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	98		66 - 137		08/05/15 02:59	200
Toluene-d8 (Surr)	104		71 - 126		08/05/15 02:59	200
4-Bromofluorobenzene (Surr)	105		73 - 120		08/05/15 02:59	200
Dibromofluoromethane (Surr)	105		60 - 140		08/05/15 02:59	200

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-84998-1

Client Sample ID: BCP-MW6-080315

Lab Sample ID: 480-84998-5

Date Collected: 08/03/15 11:30

Matrix: Water

Date Received: 08/04/15 12:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		20	16	ug/L			08/05/15 03:22	20
1,1,2,2-Tetrachloroethane	ND		20	4.2	ug/L			08/05/15 03:22	20
1,1,2-Trichloroethane	ND		20	4.6	ug/L			08/05/15 03:22	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20	6.2	ug/L			08/05/15 03:22	20
1,1-Dichloroethane	ND		20	7.6	ug/L			08/05/15 03:22	20
1,1-Dichloroethene	ND		20	5.8	ug/L			08/05/15 03:22	20
1,2,4-Trichlorobenzene	ND		20	8.2	ug/L			08/05/15 03:22	20
1,2-Dibromo-3-Chloropropane	ND		20	7.8	ug/L			08/05/15 03:22	20
1,2-Dibromoethane	ND		20	15	ug/L			08/05/15 03:22	20
1,2-Dichlorobenzene	ND		20	16	ug/L			08/05/15 03:22	20
1,2-Dichloroethane	ND		20	4.2	ug/L			08/05/15 03:22	20
1,2-Dichloropropane	ND		20	14	ug/L			08/05/15 03:22	20
1,3-Dichlorobenzene	ND		20	16	ug/L			08/05/15 03:22	20
1,4-Dichlorobenzene	ND		20	17	ug/L			08/05/15 03:22	20
2-Hexanone	ND		100	25	ug/L			08/05/15 03:22	20
2-Butanone (MEK)	ND		200	26	ug/L			08/05/15 03:22	20
4-Methyl-2-pentanone (MIBK)	ND		100	42	ug/L			08/05/15 03:22	20
Acetone	340		200	60	ug/L			08/05/15 03:22	20
Benzene	890		20	8.2	ug/L			08/05/15 03:22	20
Bromodichloromethane	ND		20	7.8	ug/L			08/05/15 03:22	20
Bromoform	ND		20	5.2	ug/L			08/05/15 03:22	20
Bromomethane	ND		20	14	ug/L			08/05/15 03:22	20
Carbon disulfide	ND		20	3.8	ug/L			08/05/15 03:22	20
Carbon tetrachloride	ND		20	5.4	ug/L			08/05/15 03:22	20
Chlorobenzene	ND		20	15	ug/L			08/05/15 03:22	20
Dibromochloromethane	ND		20	6.4	ug/L			08/05/15 03:22	20
Chloroethane	ND		20	6.4	ug/L			08/05/15 03:22	20
Chloroform	ND		20	6.8	ug/L			08/05/15 03:22	20
Chloromethane	ND		20	7.0	ug/L			08/05/15 03:22	20
cis-1,2-Dichloroethene	ND		20	16	ug/L			08/05/15 03:22	20
cis-1,3-Dichloropropene	ND		20	7.2	ug/L			08/05/15 03:22	20
Cyclohexane	41		20	3.6	ug/L			08/05/15 03:22	20
Dichlorodifluoromethane	ND		20	14	ug/L			08/05/15 03:22	20
Ethylbenzene	210		20	15	ug/L			08/05/15 03:22	20
Isopropylbenzene	ND		20	16	ug/L			08/05/15 03:22	20
Methyl acetate	ND		50	26	ug/L			08/05/15 03:22	20
Methyl tert-butyl ether	ND		20	3.2	ug/L			08/05/15 03:22	20
Methylcyclohexane	27		20	3.2	ug/L			08/05/15 03:22	20
Methylene Chloride	ND		20	8.8	ug/L			08/05/15 03:22	20
Styrene	ND		20	15	ug/L			08/05/15 03:22	20
Tetrachloroethene	ND		20	7.2	ug/L			08/05/15 03:22	20
Toluene	1900		20	10	ug/L			08/05/15 03:22	20
trans-1,2-Dichloroethene	ND		20	18	ug/L			08/05/15 03:22	20
trans-1,3-Dichloropropene	ND		20	7.4	ug/L			08/05/15 03:22	20
Trichloroethene	ND		20	9.2	ug/L			08/05/15 03:22	20
Trichlorofluoromethane	ND		20	18	ug/L			08/05/15 03:22	20
Vinyl chloride	ND		20	18	ug/L			08/05/15 03:22	20
Xylenes, Total	1100		40	13	ug/L			08/05/15 03:22	20

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-84998-1

Client Sample ID: BCP-MW6-080315

Date Collected: 08/03/15 11:30

Date Received: 08/04/15 12:15

Lab Sample ID: 480-84998-5

Matrix: Water

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	101		66 - 137		08/05/15 03:22	20
Toluene-d8 (Surr)	104		71 - 126		08/05/15 03:22	20
4-Bromofluorobenzene (Surr)	102		73 - 120		08/05/15 03:22	20
Dibromofluoromethane (Surr)	104		60 - 140		08/05/15 03:22	20

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-84998-1

Client Sample ID: BCP-MW7-080315

Lab Sample ID: 480-84998-6

Date Collected: 08/03/15 10:30

Matrix: Water

Date Received: 08/04/15 12:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			08/05/15 03:44	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/05/15 03:44	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/05/15 03:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/05/15 03:44	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/05/15 03:44	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/05/15 03:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			08/05/15 03:44	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			08/05/15 03:44	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/05/15 03:44	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/05/15 03:44	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/05/15 03:44	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/05/15 03:44	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			08/05/15 03:44	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/05/15 03:44	1
2-Hexanone	ND		5.0	1.2	ug/L			08/05/15 03:44	1
2-Butanone (MEK)	ND		10	1.3	ug/L			08/05/15 03:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/05/15 03:44	1
Acetone	ND		10	3.0	ug/L			08/05/15 03:44	1
Benzene	ND		1.0	0.41	ug/L			08/05/15 03:44	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/05/15 03:44	1
Bromoform	ND		1.0	0.26	ug/L			08/05/15 03:44	1
Bromomethane	ND		1.0	0.69	ug/L			08/05/15 03:44	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/05/15 03:44	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/05/15 03:44	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/05/15 03:44	1
Dibromochloromethane	ND		1.0	0.32	ug/L			08/05/15 03:44	1
Chloroethane	ND		1.0	0.32	ug/L			08/05/15 03:44	1
Chloroform	ND		1.0	0.34	ug/L			08/05/15 03:44	1
Chloromethane	ND		1.0	0.35	ug/L			08/05/15 03:44	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/05/15 03:44	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/05/15 03:44	1
Cyclohexane	ND		1.0	0.18	ug/L			08/05/15 03:44	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			08/05/15 03:44	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/05/15 03:44	1
Isopropylbenzene	ND		1.0	0.79	ug/L			08/05/15 03:44	1
Methyl acetate	ND		2.5	1.3	ug/L			08/05/15 03:44	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/05/15 03:44	1
Methylcyclohexane	ND		1.0	0.16	ug/L			08/05/15 03:44	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/05/15 03:44	1
Styrene	ND		1.0	0.73	ug/L			08/05/15 03:44	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/05/15 03:44	1
Toluene	ND		1.0	0.51	ug/L			08/05/15 03:44	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/05/15 03:44	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/05/15 03:44	1
Trichloroethene	ND		1.0	0.46	ug/L			08/05/15 03:44	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/05/15 03:44	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/05/15 03:44	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/05/15 03:44	1

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-84998-1

Client Sample ID: BCP-MW7-080315

Date Collected: 08/03/15 10:30

Date Received: 08/04/15 12:15

Lab Sample ID: 480-84998-6

Matrix: Water

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	99		66 - 137		08/05/15 03:44	1
Toluene-d8 (Surr)	104		71 - 126		08/05/15 03:44	1
4-Bromofluorobenzene (Surr)	103		73 - 120		08/05/15 03:44	1
Dibromofluoromethane (Surr)	103		60 - 140		08/05/15 03:44	1

Surrogate Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-84998-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	12DCE (66-137)	TOL (71-126)	BFB (73-120)	DBFM (60-140)
480-84998-1	BCP-MW1-080315	115	98	96	111
480-84998-2	BCP-MW3-080315	96	103	100	99
480-84998-2 MS	BCP-MW3-080315	103	104	103	110
480-84998-2 MSD	BCP-MW3-080315	103	106	105	108
480-84998-3	BCP-MW4-080315	106	102	101	110
480-84998-3 - DL	BCP-MW4-080315	105	104	102	106
480-84998-4	BCP-MW5-080315	98	104	105	105
480-84998-5	BCP-MW6-080315	101	104	102	104
480-84998-6	BCP-MW7-080315	99	104	103	103
LCS 480-256997/4	Lab Control Sample	98	103	100	105
LCS 480-257044/5	Lab Control Sample	103	106	103	108
MB 480-256997/6	Method Blank	100	103	100	104
MB 480-257044/7	Method Blank	101	105	102	108

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-84998-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-256997/6

Matrix: Water

Analysis Batch: 256997

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			08/04/15 20:42	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/04/15 20:42	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/04/15 20:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/04/15 20:42	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/04/15 20:42	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/04/15 20:42	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			08/04/15 20:42	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			08/04/15 20:42	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/04/15 20:42	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/04/15 20:42	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/04/15 20:42	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/04/15 20:42	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			08/04/15 20:42	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/04/15 20:42	1
2-Hexanone	ND		5.0	1.2	ug/L			08/04/15 20:42	1
2-Butanone (MEK)	ND		10	1.3	ug/L			08/04/15 20:42	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/04/15 20:42	1
Acetone	ND		10	3.0	ug/L			08/04/15 20:42	1
Benzene	ND		1.0	0.41	ug/L			08/04/15 20:42	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/04/15 20:42	1
Bromoform	ND		1.0	0.26	ug/L			08/04/15 20:42	1
Bromomethane	ND		1.0	0.69	ug/L			08/04/15 20:42	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/04/15 20:42	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/04/15 20:42	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/04/15 20:42	1
Dibromochloromethane	ND		1.0	0.32	ug/L			08/04/15 20:42	1
Chloroethane	ND		1.0	0.32	ug/L			08/04/15 20:42	1
Chloroform	ND		1.0	0.34	ug/L			08/04/15 20:42	1
Chloromethane	ND		1.0	0.35	ug/L			08/04/15 20:42	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/04/15 20:42	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/04/15 20:42	1
Cyclohexane	ND		1.0	0.18	ug/L			08/04/15 20:42	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			08/04/15 20:42	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/04/15 20:42	1
Isopropylbenzene	ND		1.0	0.79	ug/L			08/04/15 20:42	1
Methyl acetate	ND		2.5	1.3	ug/L			08/04/15 20:42	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/04/15 20:42	1
Methylcyclohexane	ND		1.0	0.16	ug/L			08/04/15 20:42	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/04/15 20:42	1
Styrene	ND		1.0	0.73	ug/L			08/04/15 20:42	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/04/15 20:42	1
Toluene	ND		1.0	0.51	ug/L			08/04/15 20:42	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/04/15 20:42	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/04/15 20:42	1
Trichloroethene	ND		1.0	0.46	ug/L			08/04/15 20:42	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/04/15 20:42	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/04/15 20:42	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/04/15 20:42	1

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-84998-1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		66 - 137		08/04/15 20:42	1
Toluene-d8 (Surr)	103		71 - 126		08/04/15 20:42	1
4-Bromofluorobenzene (Surr)	100		73 - 120		08/04/15 20:42	1
Dibromofluoromethane (Surr)	104		60 - 140		08/04/15 20:42	1

Lab Sample ID: LCS 480-256997/4

Matrix: Water

Analysis Batch: 256997

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	25.0	25.0		ug/L		100	71 - 129
1,1-Dichloroethene	25.0	24.0		ug/L		96	58 - 121
1,2-Dichlorobenzene	25.0	25.4		ug/L		101	80 - 124
1,2-Dichloroethane	25.0	23.8		ug/L		95	75 - 127
Benzene	25.0	25.5		ug/L		102	71 - 124
Chlorobenzene	25.0	25.5		ug/L		102	72 - 120
cis-1,2-Dichloroethene	25.0	26.2		ug/L		105	74 - 124
Ethylbenzene	25.0	25.1		ug/L		101	77 - 123
Methyl tert-butyl ether	25.0	25.1		ug/L		100	64 - 127
Tetrachloroethene	25.0	25.6		ug/L		103	74 - 122
Toluene	25.0	25.2		ug/L		101	80 - 122
trans-1,2-Dichloroethene	25.0	25.0		ug/L		100	73 - 127
Trichloroethene	25.0	26.0		ug/L		104	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		66 - 137
Toluene-d8 (Surr)	103		71 - 126
4-Bromofluorobenzene (Surr)	100		73 - 120
Dibromofluoromethane (Surr)	105		60 - 140

Lab Sample ID: 480-84998-2 MS

Matrix: Water

Analysis Batch: 256997

Client Sample ID: BCP-MW3-080315

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	ND		1250	1350		ug/L		108	71 - 129
1,1-Dichloroethene	ND		1250	1360		ug/L		109	58 - 121
1,2-Dichlorobenzene	ND		1250	1320		ug/L		105	80 - 124
1,2-Dichloroethane	ND		1250	1400		ug/L		112	75 - 127
Benzene	4100		1250	5520	E	ug/L		113	71 - 124
Chlorobenzene	ND		1250	1380		ug/L		111	72 - 120
cis-1,2-Dichloroethene	ND		1250	1390		ug/L		111	74 - 124
Ethylbenzene	1700		1250	3010		ug/L		105	77 - 123
Methyl tert-butyl ether	ND		1250	1290		ug/L		103	64 - 127
Tetrachloroethene	ND		1250	1410		ug/L		113	74 - 122
Toluene	130		1250	1500		ug/L		110	80 - 122
trans-1,2-Dichloroethene	ND		1250	1420		ug/L		113	73 - 127
Trichloroethene	ND		1250	1390		ug/L		111	74 - 123

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		66 - 137
Toluene-d8 (Surr)	104		71 - 126
4-Bromofluorobenzene (Surr)	103		73 - 120

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-84998-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-84998-2 MS

Matrix: Water

Analysis Batch: 256997

Client Sample ID: BCP-MW3-080315

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	110		60 - 140

Lab Sample ID: 480-84998-2 MSD

Matrix: Water

Analysis Batch: 256997

Client Sample ID: BCP-MW3-080315

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
1,1-Dichloroethane	ND		1250	1330		ug/L		106	71 - 129	2	20
1,1-Dichloroethene	ND		1250	1280		ug/L		103	58 - 121	5	16
1,2-Dichlorobenzene	ND		1250	1310		ug/L		105	80 - 124	0	20
1,2-Dichloroethane	ND		1250	1390		ug/L		111	75 - 127	1	20
Benzene	4100		1250	5340	E	ug/L		98	71 - 124	3	13
Chlorobenzene	ND		1250	1360		ug/L		109	72 - 120	1	25
cis-1,2-Dichloroethene	ND		1250	1370		ug/L		110	74 - 124	2	15
Ethylbenzene	1700		1250	2970		ug/L		101	77 - 123	1	15
Methyl tert-butyl ether	ND		1250	1290		ug/L		103	64 - 127	0	37
Tetrachloroethene	ND		1250	1380		ug/L		110	74 - 122	2	20
Toluene	130		1250	1460		ug/L		106	80 - 122	3	15
trans-1,2-Dichloroethene	ND		1250	1350		ug/L		108	73 - 127	5	20
Trichloroethene	ND		1250	1350		ug/L		108	74 - 123	3	16
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	103		66 - 137								
Toluene-d8 (Surr)	106		71 - 126								
4-Bromofluorobenzene (Surr)	105		73 - 120								
Dibromofluoromethane (Surr)	108		60 - 140								

Lab Sample ID: MB 480-257044/7

Matrix: Water

Analysis Batch: 257044

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			08/05/15 10:24	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/05/15 10:24	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/05/15 10:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/05/15 10:24	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/05/15 10:24	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/05/15 10:24	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			08/05/15 10:24	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			08/05/15 10:24	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/05/15 10:24	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/05/15 10:24	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/05/15 10:24	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/05/15 10:24	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			08/05/15 10:24	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/05/15 10:24	1
2-Hexanone	ND		5.0	1.2	ug/L			08/05/15 10:24	1
2-Butanone (MEK)	ND		10	1.3	ug/L			08/05/15 10:24	1

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-84998-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-257044/7

Matrix: Water

Analysis Batch: 257044

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/05/15 10:24	1
Acetone	ND		10	3.0	ug/L			08/05/15 10:24	1
Benzene	ND		1.0	0.41	ug/L			08/05/15 10:24	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/05/15 10:24	1
Bromoform	ND		1.0	0.26	ug/L			08/05/15 10:24	1
Bromomethane	ND		1.0	0.69	ug/L			08/05/15 10:24	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/05/15 10:24	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/05/15 10:24	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/05/15 10:24	1
Dibromochloromethane	ND		1.0	0.32	ug/L			08/05/15 10:24	1
Chloroethane	ND		1.0	0.32	ug/L			08/05/15 10:24	1
Chloroform	ND		1.0	0.34	ug/L			08/05/15 10:24	1
Chloromethane	ND		1.0	0.35	ug/L			08/05/15 10:24	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/05/15 10:24	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/05/15 10:24	1
Cyclohexane	ND		1.0	0.18	ug/L			08/05/15 10:24	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			08/05/15 10:24	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/05/15 10:24	1
Isopropylbenzene	ND		1.0	0.79	ug/L			08/05/15 10:24	1
Methyl acetate	ND		2.5	1.3	ug/L			08/05/15 10:24	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/05/15 10:24	1
Methylcyclohexane	ND		1.0	0.16	ug/L			08/05/15 10:24	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/05/15 10:24	1
Styrene	ND		1.0	0.73	ug/L			08/05/15 10:24	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/05/15 10:24	1
Toluene	ND		1.0	0.51	ug/L			08/05/15 10:24	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/05/15 10:24	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/05/15 10:24	1
Trichloroethene	ND		1.0	0.46	ug/L			08/05/15 10:24	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/05/15 10:24	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/05/15 10:24	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/05/15 10:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		66 - 137		08/05/15 10:24	1
Toluene-d8 (Surr)	105		71 - 126		08/05/15 10:24	1
4-Bromofluorobenzene (Surr)	102		73 - 120		08/05/15 10:24	1
Dibromofluoromethane (Surr)	108		60 - 140		08/05/15 10:24	1

Lab Sample ID: LCS 480-257044/5

Matrix: Water

Analysis Batch: 257044

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	25.0	25.9		ug/L		104	71 - 129
1,1-Dichloroethene	25.0	25.6		ug/L		102	58 - 121
1,2-Dichlorobenzene	25.0	26.3		ug/L		105	80 - 124
1,2-Dichloroethane	25.0	25.1		ug/L		100	75 - 127

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-84998-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-257044/5

Matrix: Water

Analysis Batch: 257044

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	26.5		ug/L		106	71 - 124
Chlorobenzene	25.0	27.3		ug/L		109	72 - 120
cis-1,2-Dichloroethene	25.0	27.6		ug/L		110	74 - 124
Ethylbenzene	25.0	26.8		ug/L		107	77 - 123
Methyl tert-butyl ether	25.0	25.4		ug/L		101	64 - 127
Tetrachloroethene	25.0	27.4		ug/L		110	74 - 122
Toluene	25.0	27.1		ug/L		108	80 - 122
trans-1,2-Dichloroethene	25.0	26.8		ug/L		107	73 - 127
Trichloroethene	25.0	27.6		ug/L		110	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		66 - 137
Toluene-d8 (Surr)	106		71 - 126
4-Bromofluorobenzene (Surr)	103		73 - 120
Dibromofluoromethane (Surr)	108		60 - 140

QC Association Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-84998-1

GC/MS VOA

Analysis Batch: 256997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-84998-1	BCP-MW1-080315	Total/NA	Water	8260C	
480-84998-2	BCP-MW3-080315	Total/NA	Water	8260C	
480-84998-2 MS	BCP-MW3-080315	Total/NA	Water	8260C	
480-84998-2 MSD	BCP-MW3-080315	Total/NA	Water	8260C	
480-84998-3	BCP-MW4-080315	Total/NA	Water	8260C	
480-84998-4	BCP-MW5-080315	Total/NA	Water	8260C	
480-84998-5	BCP-MW6-080315	Total/NA	Water	8260C	
480-84998-6	BCP-MW7-080315	Total/NA	Water	8260C	
LCS 480-256997/4	Lab Control Sample	Total/NA	Water	8260C	
MB 480-256997/6	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 257044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-84998-3 - DL	BCP-MW4-080315	Total/NA	Water	8260C	
LCS 480-257044/5	Lab Control Sample	Total/NA	Water	8260C	
MB 480-257044/7	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-84998-1

Client Sample ID: BCP-MW1-080315

Date Collected: 08/03/15 10:15

Date Received: 08/04/15 12:15

Lab Sample ID: 480-84998-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	256997	08/05/15 01:53	EDB	TAL BUF

Client Sample ID: BCP-MW3-080315

Date Collected: 08/03/15 13:00

Date Received: 08/04/15 12:15

Lab Sample ID: 480-84998-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		50	256997	08/05/15 02:15	EDB	TAL BUF

Client Sample ID: BCP-MW4-080315

Date Collected: 08/03/15 12:30

Date Received: 08/04/15 12:15

Lab Sample ID: 480-84998-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	256997	08/05/15 02:37	EDB	TAL BUF
Total/NA	Analysis	8260C	DL	50	257044	08/05/15 11:08	EDB	TAL BUF

Client Sample ID: BCP-MW5-080315

Date Collected: 08/03/15 14:00

Date Received: 08/04/15 12:15

Lab Sample ID: 480-84998-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		200	256997	08/05/15 02:59	EDB	TAL BUF

Client Sample ID: BCP-MW6-080315

Date Collected: 08/03/15 11:30

Date Received: 08/04/15 12:15

Lab Sample ID: 480-84998-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	256997	08/05/15 03:22	EDB	TAL BUF

Client Sample ID: BCP-MW7-080315

Date Collected: 08/03/15 10:30

Date Received: 08/04/15 12:15

Lab Sample ID: 480-84998-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	256997	08/05/15 03:44	EDB	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TestAmerica Buffalo

Certification Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-84998-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-16

1

2

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Method Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-84998-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-84998-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-84998-1	BCP-MW1-080315	Water	08/03/15 10:15	08/04/15 12:15
480-84998-2	BCP-MW3-080315	Water	08/03/15 13:00	08/04/15 12:15
480-84998-3	BCP-MW4-080315	Water	08/03/15 12:30	08/04/15 12:15
480-84998-4	BCP-MW5-080315	Water	08/03/15 14:00	08/04/15 12:15
480-84998-5	BCP-MW6-080315	Water	08/03/15 11:30	08/04/15 12:15
480-84998-6	BCP-MW7-080315	Water	08/03/15 10:30	08/04/15 12:15

100

480-84998 Chain of Custody

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

Chain of Custody Record

TAL-4124 (1007)

Client	C & S ENGINEERS INC	Project Manager	MARK COLUMERAVER	Date	8/3/15	Chain of Custody Number	297213
Address		Telephone Number (Area Code)/Fax Number	716-847-1630	Lab Number		Page	1 of 1

City BUFFALO	State NY	Zip Code 14203	Site Contact	Lab Contact	Analysis (Attach list if more space is needed)										
Project Name and Location (State)			Carrier/Waybill Number												

MOB	326				
Contract/Purchase Order/Quote No.					

Contract/Purchase Order/Quote No.

[illegible]

Possible Hazard Identification	☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown	Sample Disposal ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)
--------------------------------	---	---

QC Requirements (Specify)

1. Relinquished By	Date	Time	1. Received By	Date	Time
Alana DeMach	8/4/15	11:40	Jay Jole	8/4/15	11:40
2. Relinquished By	Date	Time	2. Received By	Date	Time
Jay Jole	8/4/15	12:15	Carolee Wallace	8/4/15	12:15
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: C&S Engineers, Inc.

Job Number: 480-84998-1

Login Number: 84998

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wallace, Cameron

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-92971-1

Client Project/Site: Well Sampling - MOB

For:

C&S Engineers, Inc.

499 Col. Eileen Collins Blvd

Syracuse, New York 13212

Attn: Mr. Mark Colmerauer



Authorized for release by:

1/4/2016 3:17:17 PM

Judy Stone, Senior Project Manager

(484)685-0868

judy.stone@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Job ID: 480-92971-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-92971-1

Receipt

The samples were received on 12/18/2015 1:48 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.0° C.

GC/MS VOA

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: BCP-MW-3-121515 (480-92971-2), BCP-MW-4-121515 (480-92971-3), BCP-MW-5-121515 (480-92971-4), BCP-MW-6-121415 (480-92971-5), MSMW-2-121715 (480-92971-10) and MSMW-4-121615 (480-92971-11). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Client Sample ID: BCP-MW-1-121415

Lab Sample ID: 480-92971-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Hexanone	3.5	J	5.0	1.2	ug/L	1		8260C	Total/NA
Benzene	5.7		1.0	0.41	ug/L	1		8260C	Total/NA
Cyclohexane	61		1.0	0.18	ug/L	1		8260C	Total/NA
Methylcyclohexane	15		1.0	0.16	ug/L	1		8260C	Total/NA
Toluene	0.55	J	1.0	0.51	ug/L	1		8260C	Total/NA

Client Sample ID: BCP-MW-3-121515

Lab Sample ID: 480-92971-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2100		50	21	ug/L	50		8260C	Total/NA
Cyclohexane	100		50	9.0	ug/L	50		8260C	Total/NA
Ethylbenzene	1400		50	37	ug/L	50		8260C	Total/NA
Methylcyclohexane	34	J	50	8.0	ug/L	50		8260C	Total/NA
Toluene	100		50	26	ug/L	50		8260C	Total/NA
Xylenes, Total	2200		100	33	ug/L	50		8260C	Total/NA

Client Sample ID: BCP-MW-4-121515

Lab Sample ID: 480-92971-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyclohexane	160		50	9.0	ug/L	50		8260C	Total/NA
Ethylbenzene	1100		50	37	ug/L	50		8260C	Total/NA
Methylcyclohexane	86		50	8.0	ug/L	50		8260C	Total/NA
Methylene Chloride	52		50	22	ug/L	50		8260C	Total/NA
Toluene	180		50	26	ug/L	50		8260C	Total/NA
Xylenes, Total	1800		100	33	ug/L	50		8260C	Total/NA

Client Sample ID: BCP-MW-5-121515

Lab Sample ID: 480-92971-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1800		50	21	ug/L	50		8260C	Total/NA
Cyclohexane	230		50	9.0	ug/L	50		8260C	Total/NA
Ethylbenzene	1600		50	37	ug/L	50		8260C	Total/NA
Methylcyclohexane	92		50	8.0	ug/L	50		8260C	Total/NA
Toluene	70		50	26	ug/L	50		8260C	Total/NA
Xylenes, Total	2600		100	33	ug/L	50		8260C	Total/NA

Client Sample ID: BCP-MW-6-121415

Lab Sample ID: 480-92971-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	250		8.0	3.3	ug/L	8		8260C	Total/NA
Cyclohexane	62		8.0	1.4	ug/L	8		8260C	Total/NA
Ethylbenzene	22		8.0	5.9	ug/L	8		8260C	Total/NA
Methylcyclohexane	24		8.0	1.3	ug/L	8		8260C	Total/NA
Toluene	85		8.0	4.1	ug/L	8		8260C	Total/NA
Xylenes, Total	140		16	5.3	ug/L	8		8260C	Total/NA

Client Sample ID: BCP-MW-7-121515

Lab Sample ID: 480-92971-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyclohexane	0.71	J	1.0	0.18	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Client Sample ID: DS-121515

Lab Sample ID: 480-92971-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.1	J	10	3.0	ug/L	1		8260C	Total/NA

Client Sample ID: DS-121715

Lab Sample ID: 480-92971-8

No Detections.

Client Sample ID: MSMW-1-121615

Lab Sample ID: 480-92971-9

No Detections.

Client Sample ID: MSMW-2-121715

Lab Sample ID: 480-92971-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	310		200	82	ug/L	200		8260C	Total/NA
Ethylbenzene	1500		200	150	ug/L	200		8260C	Total/NA
Methylcyclohexane	150	J	200	32	ug/L	200		8260C	Total/NA
Methylene Chloride	210		200	88	ug/L	200		8260C	Total/NA
Toluene	1900		200	100	ug/L	200		8260C	Total/NA
Xylenes, Total	10000		400	130	ug/L	200		8260C	Total/NA

Client Sample ID: MSMW-4-121615

Lab Sample ID: 480-92971-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	180		5.0	2.1	ug/L	5		8260C	Total/NA
Cyclohexane	170		5.0	0.90	ug/L	5		8260C	Total/NA
Ethylbenzene	420		5.0	3.7	ug/L	5		8260C	Total/NA
Isopropylbenzene	14		5.0	4.0	ug/L	5		8260C	Total/NA
Methylcyclohexane	70		5.0	0.80	ug/L	5		8260C	Total/NA
Toluene	48		5.0	2.6	ug/L	5		8260C	Total/NA
Xylenes, Total	190		10	3.3	ug/L	5		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Client Sample ID: BCP-MW-1-121415

Lab Sample ID: 480-92971-1

Date Collected: 12/14/15 14:30

Matrix: Water

Date Received: 12/18/15 13:48

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/26/15 00:49	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/26/15 00:49	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/26/15 00:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/26/15 00:49	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/26/15 00:49	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/26/15 00:49	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/26/15 00:49	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/26/15 00:49	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/26/15 00:49	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/26/15 00:49	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/26/15 00:49	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/26/15 00:49	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/26/15 00:49	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/26/15 00:49	1
2-Hexanone	3.5	J	5.0	1.2	ug/L			12/26/15 00:49	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/26/15 00:49	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/26/15 00:49	1
Acetone	ND		10	3.0	ug/L			12/26/15 00:49	1
Benzene	5.7		1.0	0.41	ug/L			12/26/15 00:49	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/26/15 00:49	1
Bromoform	ND		1.0	0.26	ug/L			12/26/15 00:49	1
Bromomethane	ND		1.0	0.69	ug/L			12/26/15 00:49	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/26/15 00:49	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/26/15 00:49	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/26/15 00:49	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/26/15 00:49	1
Chloroethane	ND		1.0	0.32	ug/L			12/26/15 00:49	1
Chloroform	ND		1.0	0.34	ug/L			12/26/15 00:49	1
Chloromethane	ND		1.0	0.35	ug/L			12/26/15 00:49	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/26/15 00:49	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/26/15 00:49	1
Cyclohexane	61		1.0	0.18	ug/L			12/26/15 00:49	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/26/15 00:49	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/26/15 00:49	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/26/15 00:49	1
Methyl acetate	ND		2.5	1.3	ug/L			12/26/15 00:49	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/26/15 00:49	1
Methylcyclohexane	15		1.0	0.16	ug/L			12/26/15 00:49	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/26/15 00:49	1
Styrene	ND		1.0	0.73	ug/L			12/26/15 00:49	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/26/15 00:49	1
Toluene	0.55	J	1.0	0.51	ug/L			12/26/15 00:49	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/26/15 00:49	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/26/15 00:49	1
Trichloroethene	ND		1.0	0.46	ug/L			12/26/15 00:49	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/26/15 00:49	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/26/15 00:49	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/26/15 00:49	1

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Client Sample ID: BCP-MW-1-121415

Lab Sample ID: 480-92971-1

Date Collected: 12/14/15 14:30

Matrix: Water

Date Received: 12/18/15 13:48

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	100		66 - 137		12/26/15 00:49	1
Toluene-d8 (Surr)	97		71 - 126		12/26/15 00:49	1
4-Bromofluorobenzene (Surr)	100		73 - 120		12/26/15 00:49	1
Dibromofluoromethane (Surr)	98		60 - 140		12/26/15 00:49	1

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Client Sample ID: BCP-MW-3-121515

Lab Sample ID: 480-92971-2

Date Collected: 12/15/15 10:30

Matrix: Water

Date Received: 12/18/15 13:48

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		50	41	ug/L			12/26/15 20:08	50
1,1,2,2-Tetrachloroethane	ND		50	11	ug/L			12/26/15 20:08	50
1,1,2-Trichloroethane	ND		50	12	ug/L			12/26/15 20:08	50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	16	ug/L			12/26/15 20:08	50
1,1-Dichloroethane	ND		50	19	ug/L			12/26/15 20:08	50
1,1-Dichloroethene	ND		50	15	ug/L			12/26/15 20:08	50
1,2,4-Trichlorobenzene	ND		50	21	ug/L			12/26/15 20:08	50
1,2-Dibromo-3-Chloropropane	ND		50	20	ug/L			12/26/15 20:08	50
1,2-Dibromoethane	ND		50	37	ug/L			12/26/15 20:08	50
1,2-Dichlorobenzene	ND		50	40	ug/L			12/26/15 20:08	50
1,2-Dichloroethane	ND		50	11	ug/L			12/26/15 20:08	50
1,2-Dichloropropane	ND		50	36	ug/L			12/26/15 20:08	50
1,3-Dichlorobenzene	ND		50	39	ug/L			12/26/15 20:08	50
1,4-Dichlorobenzene	ND		50	42	ug/L			12/26/15 20:08	50
2-Hexanone	ND		250	62	ug/L			12/26/15 20:08	50
2-Butanone (MEK)	ND		500	66	ug/L			12/26/15 20:08	50
4-Methyl-2-pentanone (MIBK)	ND		250	110	ug/L			12/26/15 20:08	50
Acetone	ND		500	150	ug/L			12/26/15 20:08	50
Benzene	2100		50	21	ug/L			12/26/15 20:08	50
Bromodichloromethane	ND		50	20	ug/L			12/26/15 20:08	50
Bromoform	ND		50	13	ug/L			12/26/15 20:08	50
Bromomethane	ND		50	35	ug/L			12/26/15 20:08	50
Carbon disulfide	ND		50	9.5	ug/L			12/26/15 20:08	50
Carbon tetrachloride	ND		50	14	ug/L			12/26/15 20:08	50
Chlorobenzene	ND		50	38	ug/L			12/26/15 20:08	50
Dibromochloromethane	ND		50	16	ug/L			12/26/15 20:08	50
Chloroethane	ND		50	16	ug/L			12/26/15 20:08	50
Chloroform	ND		50	17	ug/L			12/26/15 20:08	50
Chloromethane	ND		50	18	ug/L			12/26/15 20:08	50
cis-1,2-Dichloroethene	ND		50	41	ug/L			12/26/15 20:08	50
cis-1,3-Dichloropropene	ND		50	18	ug/L			12/26/15 20:08	50
Cyclohexane	100		50	9.0	ug/L			12/26/15 20:08	50
Dichlorodifluoromethane	ND		50	34	ug/L			12/26/15 20:08	50
Ethylbenzene	1400		50	37	ug/L			12/26/15 20:08	50
Isopropylbenzene	ND		50	40	ug/L			12/26/15 20:08	50
Methyl acetate	ND		130	65	ug/L			12/26/15 20:08	50
Methyl tert-butyl ether	ND		50	8.0	ug/L			12/26/15 20:08	50
Methylcyclohexane	34 J		50	8.0	ug/L			12/26/15 20:08	50
Methylene Chloride	ND		50	22	ug/L			12/26/15 20:08	50
Styrene	ND		50	37	ug/L			12/26/15 20:08	50
Tetrachloroethene	ND		50	18	ug/L			12/26/15 20:08	50
Toluene	100		50	26	ug/L			12/26/15 20:08	50
trans-1,2-Dichloroethene	ND		50	45	ug/L			12/26/15 20:08	50
trans-1,3-Dichloropropene	ND		50	19	ug/L			12/26/15 20:08	50
Trichloroethene	ND		50	23	ug/L			12/26/15 20:08	50
Trichlorofluoromethane	ND		50	44	ug/L			12/26/15 20:08	50
Vinyl chloride	ND		50	45	ug/L			12/26/15 20:08	50
Xylenes, Total	2200		100	33	ug/L			12/26/15 20:08	50

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Client Sample ID: BCP-MW-3-121515

Lab Sample ID: 480-92971-2

Date Collected: 12/15/15 10:30

Matrix: Water

Date Received: 12/18/15 13:48

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	94		66 - 137		12/26/15 20:08	50
Toluene-d8 (Surr)	96		71 - 126		12/26/15 20:08	50
4-Bromofluorobenzene (Surr)	107		73 - 120		12/26/15 20:08	50
Dibromofluoromethane (Surr)	98		60 - 140		12/26/15 20:08	50

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Client Sample ID: BCP-MW-4-121515

Lab Sample ID: 480-92971-3

Date Collected: 12/15/15 11:00

Matrix: Water

Date Received: 12/18/15 13:48

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		50	41	ug/L			12/26/15 20:35	50
1,1,2,2-Tetrachloroethane	ND		50	11	ug/L			12/26/15 20:35	50
1,1,2-Trichloroethane	ND		50	12	ug/L			12/26/15 20:35	50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	16	ug/L			12/26/15 20:35	50
1,1-Dichloroethane	ND		50	19	ug/L			12/26/15 20:35	50
1,1-Dichloroethene	ND		50	15	ug/L			12/26/15 20:35	50
1,2,4-Trichlorobenzene	ND		50	21	ug/L			12/26/15 20:35	50
1,2-Dibromo-3-Chloropropane	ND		50	20	ug/L			12/26/15 20:35	50
1,2-Dibromoethane	ND		50	37	ug/L			12/26/15 20:35	50
1,2-Dichlorobenzene	ND		50	40	ug/L			12/26/15 20:35	50
1,2-Dichloroethane	ND		50	11	ug/L			12/26/15 20:35	50
1,2-Dichloropropane	ND		50	36	ug/L			12/26/15 20:35	50
1,3-Dichlorobenzene	ND		50	39	ug/L			12/26/15 20:35	50
1,4-Dichlorobenzene	ND		50	42	ug/L			12/26/15 20:35	50
2-Hexanone	ND		250	62	ug/L			12/26/15 20:35	50
2-Butanone (MEK)	ND		500	66	ug/L			12/26/15 20:35	50
4-Methyl-2-pentanone (MIBK)	ND		250	110	ug/L			12/26/15 20:35	50
Acetone	ND		500	150	ug/L			12/26/15 20:35	50
Benzene	ND		50	21	ug/L			12/26/15 20:35	50
Bromodichloromethane	ND		50	20	ug/L			12/26/15 20:35	50
Bromoform	ND		50	13	ug/L			12/26/15 20:35	50
Bromomethane	ND		50	35	ug/L			12/26/15 20:35	50
Carbon disulfide	ND		50	9.5	ug/L			12/26/15 20:35	50
Carbon tetrachloride	ND		50	14	ug/L			12/26/15 20:35	50
Chlorobenzene	ND		50	38	ug/L			12/26/15 20:35	50
Dibromochloromethane	ND		50	16	ug/L			12/26/15 20:35	50
Chloroethane	ND		50	16	ug/L			12/26/15 20:35	50
Chloroform	ND		50	17	ug/L			12/26/15 20:35	50
Chloromethane	ND		50	18	ug/L			12/26/15 20:35	50
cis-1,2-Dichloroethene	ND		50	41	ug/L			12/26/15 20:35	50
cis-1,3-Dichloropropene	ND		50	18	ug/L			12/26/15 20:35	50
Cyclohexane	160		50	9.0	ug/L			12/26/15 20:35	50
Dichlorodifluoromethane	ND		50	34	ug/L			12/26/15 20:35	50
Ethylbenzene	1100		50	37	ug/L			12/26/15 20:35	50
Isopropylbenzene	ND		50	40	ug/L			12/26/15 20:35	50
Methyl acetate	ND		130	65	ug/L			12/26/15 20:35	50
Methyl tert-butyl ether	ND		50	8.0	ug/L			12/26/15 20:35	50
Methylcyclohexane	86		50	8.0	ug/L			12/26/15 20:35	50
Methylene Chloride	52		50	22	ug/L			12/26/15 20:35	50
Styrene	ND		50	37	ug/L			12/26/15 20:35	50
Tetrachloroethene	ND		50	18	ug/L			12/26/15 20:35	50
Toluene	180		50	26	ug/L			12/26/15 20:35	50
trans-1,2-Dichloroethene	ND		50	45	ug/L			12/26/15 20:35	50
trans-1,3-Dichloropropene	ND		50	19	ug/L			12/26/15 20:35	50
Trichloroethene	ND		50	23	ug/L			12/26/15 20:35	50
Trichlorofluoromethane	ND		50	44	ug/L			12/26/15 20:35	50
Vinyl chloride	ND		50	45	ug/L			12/26/15 20:35	50
Xylenes, Total	1800		100	33	ug/L			12/26/15 20:35	50

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Client Sample ID: BCP-MW-4-121515

Lab Sample ID: 480-92971-3

Date Collected: 12/15/15 11:00

Matrix: Water

Date Received: 12/18/15 13:48

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	93		66 - 137		12/26/15 20:35	50
Toluene-d8 (Surr)	93		71 - 126		12/26/15 20:35	50
4-Bromofluorobenzene (Surr)	105		73 - 120		12/26/15 20:35	50
Dibromofluoromethane (Surr)	94		60 - 140		12/26/15 20:35	50

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Client Sample ID: BCP-MW-5-121515

Lab Sample ID: 480-92971-4

Date Collected: 12/15/15 12:30

Matrix: Water

Date Received: 12/18/15 13:48

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		50	41	ug/L			12/28/15 02:34	50
1,1,2,2-Tetrachloroethane	ND		50	11	ug/L			12/28/15 02:34	50
1,1,2-Trichloroethane	ND		50	12	ug/L			12/28/15 02:34	50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	16	ug/L			12/28/15 02:34	50
1,1-Dichloroethane	ND		50	19	ug/L			12/28/15 02:34	50
1,1-Dichloroethene	ND		50	15	ug/L			12/28/15 02:34	50
1,2,4-Trichlorobenzene	ND		50	21	ug/L			12/28/15 02:34	50
1,2-Dibromo-3-Chloropropane	ND		50	20	ug/L			12/28/15 02:34	50
1,2-Dibromoethane	ND		50	37	ug/L			12/28/15 02:34	50
1,2-Dichlorobenzene	ND		50	40	ug/L			12/28/15 02:34	50
1,2-Dichloroethane	ND		50	11	ug/L			12/28/15 02:34	50
1,2-Dichloropropane	ND		50	36	ug/L			12/28/15 02:34	50
1,3-Dichlorobenzene	ND		50	39	ug/L			12/28/15 02:34	50
1,4-Dichlorobenzene	ND		50	42	ug/L			12/28/15 02:34	50
2-Hexanone	ND		250	62	ug/L			12/28/15 02:34	50
2-Butanone (MEK)	ND		500	66	ug/L			12/28/15 02:34	50
4-Methyl-2-pentanone (MIBK)	ND		250	110	ug/L			12/28/15 02:34	50
Acetone	ND		500	150	ug/L			12/28/15 02:34	50
Benzene	1800		50	21	ug/L			12/28/15 02:34	50
Bromodichloromethane	ND		50	20	ug/L			12/28/15 02:34	50
Bromoform	ND		50	13	ug/L			12/28/15 02:34	50
Bromomethane	ND		50	35	ug/L			12/28/15 02:34	50
Carbon disulfide	ND		50	9.5	ug/L			12/28/15 02:34	50
Carbon tetrachloride	ND		50	14	ug/L			12/28/15 02:34	50
Chlorobenzene	ND		50	38	ug/L			12/28/15 02:34	50
Dibromochloromethane	ND		50	16	ug/L			12/28/15 02:34	50
Chloroethane	ND		50	16	ug/L			12/28/15 02:34	50
Chloroform	ND		50	17	ug/L			12/28/15 02:34	50
Chloromethane	ND		50	18	ug/L			12/28/15 02:34	50
cis-1,2-Dichloroethene	ND		50	41	ug/L			12/28/15 02:34	50
cis-1,3-Dichloropropene	ND		50	18	ug/L			12/28/15 02:34	50
Cyclohexane	230		50	9.0	ug/L			12/28/15 02:34	50
Dichlorodifluoromethane	ND		50	34	ug/L			12/28/15 02:34	50
Ethylbenzene	1600		50	37	ug/L			12/28/15 02:34	50
Isopropylbenzene	ND		50	40	ug/L			12/28/15 02:34	50
Methyl acetate	ND		130	65	ug/L			12/28/15 02:34	50
Methyl tert-butyl ether	ND		50	8.0	ug/L			12/28/15 02:34	50
Methylcyclohexane	92		50	8.0	ug/L			12/28/15 02:34	50
Methylene Chloride	ND		50	22	ug/L			12/28/15 02:34	50
Styrene	ND		50	37	ug/L			12/28/15 02:34	50
Tetrachloroethene	ND		50	18	ug/L			12/28/15 02:34	50
Toluene	70		50	26	ug/L			12/28/15 02:34	50
trans-1,2-Dichloroethene	ND		50	45	ug/L			12/28/15 02:34	50
trans-1,3-Dichloropropene	ND		50	19	ug/L			12/28/15 02:34	50
Trichloroethene	ND		50	23	ug/L			12/28/15 02:34	50
Trichlorofluoromethane	ND		50	44	ug/L			12/28/15 02:34	50
Vinyl chloride	ND		50	45	ug/L			12/28/15 02:34	50
Xylenes, Total	2600		100	33	ug/L			12/28/15 02:34	50

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Client Sample ID: BCP-MW-5-121515

Lab Sample ID: 480-92971-4

Date Collected: 12/15/15 12:30

Matrix: Water

Date Received: 12/18/15 13:48

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	81		66 - 137		12/28/15 02:34	50
Toluene-d8 (Surr)	90		71 - 126		12/28/15 02:34	50
4-Bromofluorobenzene (Surr)	118		73 - 120		12/28/15 02:34	50
Dibromofluoromethane (Surr)	83		60 - 140		12/28/15 02:34	50

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Client Sample ID: BCP-MW-6-121415

Lab Sample ID: 480-92971-5

Date Collected: 12/14/15 09:30

Matrix: Water

Date Received: 12/18/15 13:48

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		8.0	6.6	ug/L			12/26/15 21:29	8
1,1,2,2-Tetrachloroethane	ND		8.0	1.7	ug/L			12/26/15 21:29	8
1,1,2-Trichloroethane	ND		8.0	1.8	ug/L			12/26/15 21:29	8
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.0	2.5	ug/L			12/26/15 21:29	8
1,1-Dichloroethane	ND		8.0	3.0	ug/L			12/26/15 21:29	8
1,1-Dichloroethene	ND		8.0	2.3	ug/L			12/26/15 21:29	8
1,2,4-Trichlorobenzene	ND		8.0	3.3	ug/L			12/26/15 21:29	8
1,2-Dibromo-3-Chloropropane	ND		8.0	3.1	ug/L			12/26/15 21:29	8
1,2-Dibromoethane	ND		8.0	5.8	ug/L			12/26/15 21:29	8
1,2-Dichlorobenzene	ND		8.0	6.3	ug/L			12/26/15 21:29	8
1,2-Dichloroethane	ND		8.0	1.7	ug/L			12/26/15 21:29	8
1,2-Dichloropropane	ND		8.0	5.8	ug/L			12/26/15 21:29	8
1,3-Dichlorobenzene	ND		8.0	6.2	ug/L			12/26/15 21:29	8
1,4-Dichlorobenzene	ND		8.0	6.7	ug/L			12/26/15 21:29	8
2-Hexanone	ND		40	9.9	ug/L			12/26/15 21:29	8
2-Butanone (MEK)	ND		80	11	ug/L			12/26/15 21:29	8
4-Methyl-2-pentanone (MIBK)	ND		40	17	ug/L			12/26/15 21:29	8
Acetone	ND		80	24	ug/L			12/26/15 21:29	8
Benzene	250		8.0	3.3	ug/L			12/26/15 21:29	8
Bromodichloromethane	ND		8.0	3.1	ug/L			12/26/15 21:29	8
Bromoform	ND		8.0	2.1	ug/L			12/26/15 21:29	8
Bromomethane	ND		8.0	5.5	ug/L			12/26/15 21:29	8
Carbon disulfide	ND		8.0	1.5	ug/L			12/26/15 21:29	8
Carbon tetrachloride	ND		8.0	2.2	ug/L			12/26/15 21:29	8
Chlorobenzene	ND		8.0	6.0	ug/L			12/26/15 21:29	8
Dibromochloromethane	ND		8.0	2.6	ug/L			12/26/15 21:29	8
Chloroethane	ND		8.0	2.6	ug/L			12/26/15 21:29	8
Chloroform	ND		8.0	2.7	ug/L			12/26/15 21:29	8
Chloromethane	ND		8.0	2.8	ug/L			12/26/15 21:29	8
cis-1,2-Dichloroethene	ND		8.0	6.5	ug/L			12/26/15 21:29	8
cis-1,3-Dichloropropene	ND		8.0	2.9	ug/L			12/26/15 21:29	8
Cyclohexane	62		8.0	1.4	ug/L			12/26/15 21:29	8
Dichlorodifluoromethane	ND		8.0	5.4	ug/L			12/26/15 21:29	8
Ethylbenzene	22		8.0	5.9	ug/L			12/26/15 21:29	8
Isopropylbenzene	ND		8.0	6.3	ug/L			12/26/15 21:29	8
Methyl acetate	ND		20	10	ug/L			12/26/15 21:29	8
Methyl tert-butyl ether	ND		8.0	1.3	ug/L			12/26/15 21:29	8
Methylcyclohexane	24		8.0	1.3	ug/L			12/26/15 21:29	8
Methylene Chloride	ND		8.0	3.5	ug/L			12/26/15 21:29	8
Styrene	ND		8.0	5.8	ug/L			12/26/15 21:29	8
Tetrachloroethene	ND		8.0	2.9	ug/L			12/26/15 21:29	8
Toluene	85		8.0	4.1	ug/L			12/26/15 21:29	8
trans-1,2-Dichloroethene	ND		8.0	7.2	ug/L			12/26/15 21:29	8
trans-1,3-Dichloropropene	ND		8.0	3.0	ug/L			12/26/15 21:29	8
Trichloroethene	ND		8.0	3.7	ug/L			12/26/15 21:29	8
Trichlorofluoromethane	ND		8.0	7.0	ug/L			12/26/15 21:29	8
Vinyl chloride	ND		8.0	7.2	ug/L			12/26/15 21:29	8
Xylenes, Total	140		16	5.3	ug/L			12/26/15 21:29	8

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Client Sample ID: BCP-MW-6-121415

Lab Sample ID: 480-92971-5

Date Collected: 12/14/15 09:30

Matrix: Water

Date Received: 12/18/15 13:48

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	90		66 - 137		12/26/15 21:29	8
Toluene-d8 (Surr)	94		71 - 126		12/26/15 21:29	8
4-Bromofluorobenzene (Surr)	105		73 - 120		12/26/15 21:29	8
Dibromofluoromethane (Surr)	90		60 - 140		12/26/15 21:29	8

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Client Sample ID: BCP-MW-7-121515

Lab Sample ID: 480-92971-6

Date Collected: 12/15/15 09:45

Matrix: Water

Date Received: 12/18/15 13:48

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/26/15 21:55	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/26/15 21:55	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/26/15 21:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/26/15 21:55	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/26/15 21:55	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/26/15 21:55	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/26/15 21:55	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/26/15 21:55	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/26/15 21:55	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/26/15 21:55	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/26/15 21:55	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/26/15 21:55	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/26/15 21:55	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/26/15 21:55	1
2-Hexanone	ND		5.0	1.2	ug/L			12/26/15 21:55	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/26/15 21:55	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/26/15 21:55	1
Acetone	ND		10	3.0	ug/L			12/26/15 21:55	1
Benzene	ND		1.0	0.41	ug/L			12/26/15 21:55	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/26/15 21:55	1
Bromoform	ND		1.0	0.26	ug/L			12/26/15 21:55	1
Bromomethane	ND		1.0	0.69	ug/L			12/26/15 21:55	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/26/15 21:55	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/26/15 21:55	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/26/15 21:55	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/26/15 21:55	1
Chloroethane	ND		1.0	0.32	ug/L			12/26/15 21:55	1
Chloroform	ND		1.0	0.34	ug/L			12/26/15 21:55	1
Chloromethane	ND		1.0	0.35	ug/L			12/26/15 21:55	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/26/15 21:55	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/26/15 21:55	1
Cyclohexane	0.71	J	1.0	0.18	ug/L			12/26/15 21:55	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/26/15 21:55	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/26/15 21:55	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/26/15 21:55	1
Methyl acetate	ND		2.5	1.3	ug/L			12/26/15 21:55	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/26/15 21:55	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/26/15 21:55	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/26/15 21:55	1
Styrene	ND		1.0	0.73	ug/L			12/26/15 21:55	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/26/15 21:55	1
Toluene	ND		1.0	0.51	ug/L			12/26/15 21:55	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/26/15 21:55	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/26/15 21:55	1
Trichloroethene	ND		1.0	0.46	ug/L			12/26/15 21:55	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/26/15 21:55	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/26/15 21:55	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/26/15 21:55	1

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Client Sample ID: BCP-MW-7-121515

Lab Sample ID: 480-92971-6

Date Collected: 12/15/15 09:45

Matrix: Water

Date Received: 12/18/15 13:48

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	93		66 - 137		12/26/15 21:55	1
Toluene-d8 (Surr)	93		71 - 126		12/26/15 21:55	1
4-Bromofluorobenzene (Surr)	105		73 - 120		12/26/15 21:55	1
Dibromofluoromethane (Surr)	93		60 - 140		12/26/15 21:55	1

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Client Sample ID: DS-121515

Date Collected: 12/15/15 10:00

Date Received: 12/18/15 13:48

Lab Sample ID: 480-92971-7

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/26/15 22:22	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/26/15 22:22	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/26/15 22:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/26/15 22:22	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/26/15 22:22	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/26/15 22:22	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/26/15 22:22	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/26/15 22:22	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/26/15 22:22	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/26/15 22:22	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/26/15 22:22	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/26/15 22:22	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/26/15 22:22	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/26/15 22:22	1
2-Hexanone	ND		5.0	1.2	ug/L			12/26/15 22:22	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/26/15 22:22	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/26/15 22:22	1
Acetone	3.1	J	10	3.0	ug/L			12/26/15 22:22	1
Benzene	ND		1.0	0.41	ug/L			12/26/15 22:22	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/26/15 22:22	1
Bromoform	ND		1.0	0.26	ug/L			12/26/15 22:22	1
Bromomethane	ND		1.0	0.69	ug/L			12/26/15 22:22	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/26/15 22:22	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/26/15 22:22	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/26/15 22:22	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/26/15 22:22	1
Chloroethane	ND		1.0	0.32	ug/L			12/26/15 22:22	1
Chloroform	ND		1.0	0.34	ug/L			12/26/15 22:22	1
Chloromethane	ND		1.0	0.35	ug/L			12/26/15 22:22	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/26/15 22:22	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/26/15 22:22	1
Cyclohexane	ND		1.0	0.18	ug/L			12/26/15 22:22	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/26/15 22:22	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/26/15 22:22	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/26/15 22:22	1
Methyl acetate	ND		2.5	1.3	ug/L			12/26/15 22:22	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/26/15 22:22	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/26/15 22:22	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/26/15 22:22	1
Styrene	ND		1.0	0.73	ug/L			12/26/15 22:22	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/26/15 22:22	1
Toluene	ND		1.0	0.51	ug/L			12/26/15 22:22	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/26/15 22:22	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/26/15 22:22	1
Trichloroethene	ND		1.0	0.46	ug/L			12/26/15 22:22	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/26/15 22:22	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/26/15 22:22	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/26/15 22:22	1

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Client Sample ID: DS-121515

Date Collected: 12/15/15 10:00

Date Received: 12/18/15 13:48

Lab Sample ID: 480-92971-7

Matrix: Water

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	90		66 - 137		12/26/15 22:22	1
Toluene-d8 (Surr)	96		71 - 126		12/26/15 22:22	1
4-Bromofluorobenzene (Surr)	104		73 - 120		12/26/15 22:22	1
Dibromofluoromethane (Surr)	93		60 - 140		12/26/15 22:22	1

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Client Sample ID: DS-121715

Date Collected: 12/17/15 14:30

Date Received: 12/18/15 13:48

Lab Sample ID: 480-92971-8

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/30/15 21:00	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/30/15 21:00	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/30/15 21:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/30/15 21:00	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/30/15 21:00	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/30/15 21:00	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/30/15 21:00	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/30/15 21:00	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/30/15 21:00	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/30/15 21:00	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/30/15 21:00	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/30/15 21:00	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/30/15 21:00	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/30/15 21:00	1
2-Hexanone	ND		5.0	1.2	ug/L			12/30/15 21:00	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/30/15 21:00	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/30/15 21:00	1
Acetone	ND		10	3.0	ug/L			12/30/15 21:00	1
Benzene	ND		1.0	0.41	ug/L			12/30/15 21:00	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/30/15 21:00	1
Bromoform	ND		1.0	0.26	ug/L			12/30/15 21:00	1
Bromomethane	ND		1.0	0.69	ug/L			12/30/15 21:00	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/30/15 21:00	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/30/15 21:00	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/30/15 21:00	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/30/15 21:00	1
Chloroethane	ND		1.0	0.32	ug/L			12/30/15 21:00	1
Chloroform	ND		1.0	0.34	ug/L			12/30/15 21:00	1
Chloromethane	ND		1.0	0.35	ug/L			12/30/15 21:00	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/30/15 21:00	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/30/15 21:00	1
Cyclohexane	ND		1.0	0.18	ug/L			12/30/15 21:00	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/30/15 21:00	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/30/15 21:00	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/30/15 21:00	1
Methyl acetate	ND		2.5	1.3	ug/L			12/30/15 21:00	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/30/15 21:00	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/30/15 21:00	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/30/15 21:00	1
Styrene	ND		1.0	0.73	ug/L			12/30/15 21:00	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/30/15 21:00	1
Toluene	ND		1.0	0.51	ug/L			12/30/15 21:00	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/30/15 21:00	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/30/15 21:00	1
Trichloroethene	ND		1.0	0.46	ug/L			12/30/15 21:00	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/30/15 21:00	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/30/15 21:00	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/30/15 21:00	1

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Client Sample ID: DS-121715

Date Collected: 12/17/15 14:30

Date Received: 12/18/15 13:48

Lab Sample ID: 480-92971-8

Matrix: Water

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	112		66 - 137		12/30/15 21:00	1
Toluene-d8 (Surr)	101		71 - 126		12/30/15 21:00	1
4-Bromofluorobenzene (Surr)	92		73 - 120		12/30/15 21:00	1
Dibromofluoromethane (Surr)	110		60 - 140		12/30/15 21:00	1

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Client Sample ID: MSMW-1-121615

Lab Sample ID: 480-92971-9

Date Collected: 12/16/15 12:40

Matrix: Water

Date Received: 12/18/15 13:48

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/30/15 06:34	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/30/15 06:34	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/30/15 06:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/30/15 06:34	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/30/15 06:34	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/30/15 06:34	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/30/15 06:34	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/30/15 06:34	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/30/15 06:34	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/30/15 06:34	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/30/15 06:34	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/30/15 06:34	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/30/15 06:34	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/30/15 06:34	1
2-Hexanone	ND		5.0	1.2	ug/L			12/30/15 06:34	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/30/15 06:34	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/30/15 06:34	1
Acetone	ND		10	3.0	ug/L			12/30/15 06:34	1
Benzene	ND		1.0	0.41	ug/L			12/30/15 06:34	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/30/15 06:34	1
Bromoform	ND		1.0	0.26	ug/L			12/30/15 06:34	1
Bromomethane	ND		1.0	0.69	ug/L			12/30/15 06:34	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/30/15 06:34	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/30/15 06:34	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/30/15 06:34	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/30/15 06:34	1
Chloroethane	ND		1.0	0.32	ug/L			12/30/15 06:34	1
Chloroform	ND		1.0	0.34	ug/L			12/30/15 06:34	1
Chloromethane	ND		1.0	0.35	ug/L			12/30/15 06:34	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/30/15 06:34	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/30/15 06:34	1
Cyclohexane	ND		1.0	0.18	ug/L			12/30/15 06:34	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/30/15 06:34	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/30/15 06:34	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/30/15 06:34	1
Methyl acetate	ND		2.5	1.3	ug/L			12/30/15 06:34	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/30/15 06:34	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/30/15 06:34	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/30/15 06:34	1
Styrene	ND		1.0	0.73	ug/L			12/30/15 06:34	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/30/15 06:34	1
Toluene	ND		1.0	0.51	ug/L			12/30/15 06:34	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/30/15 06:34	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/30/15 06:34	1
Trichloroethene	ND		1.0	0.46	ug/L			12/30/15 06:34	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/30/15 06:34	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/30/15 06:34	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/30/15 06:34	1

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Client Sample ID: MSMW-1-121615

Date Collected: 12/16/15 12:40

Date Received: 12/18/15 13:48

Lab Sample ID: 480-92971-9

Matrix: Water

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	102		66 - 137		12/30/15 06:34	1
Toluene-d8 (Surr)	102		71 - 126		12/30/15 06:34	1
4-Bromofluorobenzene (Surr)	107		73 - 120		12/30/15 06:34	1
Dibromofluoromethane (Surr)	107		60 - 140		12/30/15 06:34	1

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Client Sample ID: MSMW-2-121715

Lab Sample ID: 480-92971-10

Date Collected: 12/17/15 13:00

Matrix: Water

Date Received: 12/18/15 13:48

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		200	160	ug/L			12/30/15 20:33	200
1,1,2,2-Tetrachloroethane	ND		200	42	ug/L			12/30/15 20:33	200
1,1,2-Trichloroethane	ND		200	46	ug/L			12/30/15 20:33	200
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		200	62	ug/L			12/30/15 20:33	200
1,1-Dichloroethane	ND		200	76	ug/L			12/30/15 20:33	200
1,1-Dichloroethene	ND		200	58	ug/L			12/30/15 20:33	200
1,2,4-Trichlorobenzene	ND		200	82	ug/L			12/30/15 20:33	200
1,2-Dibromo-3-Chloropropane	ND		200	78	ug/L			12/30/15 20:33	200
1,2-Dibromoethane	ND		200	150	ug/L			12/30/15 20:33	200
1,2-Dichlorobenzene	ND		200	160	ug/L			12/30/15 20:33	200
1,2-Dichloroethane	ND		200	42	ug/L			12/30/15 20:33	200
1,2-Dichloropropane	ND		200	140	ug/L			12/30/15 20:33	200
1,3-Dichlorobenzene	ND		200	160	ug/L			12/30/15 20:33	200
1,4-Dichlorobenzene	ND		200	170	ug/L			12/30/15 20:33	200
2-Hexanone	ND		1000	250	ug/L			12/30/15 20:33	200
2-Butanone (MEK)	ND		2000	260	ug/L			12/30/15 20:33	200
4-Methyl-2-pentanone (MIBK)	ND		1000	420	ug/L			12/30/15 20:33	200
Acetone	ND		2000	600	ug/L			12/30/15 20:33	200
Benzene	310		200	82	ug/L			12/30/15 20:33	200
Bromodichloromethane	ND		200	78	ug/L			12/30/15 20:33	200
Bromoform	ND		200	52	ug/L			12/30/15 20:33	200
Bromomethane	ND		200	140	ug/L			12/30/15 20:33	200
Carbon disulfide	ND		200	38	ug/L			12/30/15 20:33	200
Carbon tetrachloride	ND		200	54	ug/L			12/30/15 20:33	200
Chlorobenzene	ND		200	150	ug/L			12/30/15 20:33	200
Dibromochloromethane	ND		200	64	ug/L			12/30/15 20:33	200
Chloroethane	ND		200	64	ug/L			12/30/15 20:33	200
Chloroform	ND		200	68	ug/L			12/30/15 20:33	200
Chloromethane	ND		200	70	ug/L			12/30/15 20:33	200
cis-1,2-Dichloroethene	ND		200	160	ug/L			12/30/15 20:33	200
cis-1,3-Dichloropropene	ND		200	72	ug/L			12/30/15 20:33	200
Cyclohexane	ND		200	36	ug/L			12/30/15 20:33	200
Dichlorodifluoromethane	ND		200	140	ug/L			12/30/15 20:33	200
Ethylbenzene	1500		200	150	ug/L			12/30/15 20:33	200
Isopropylbenzene	ND		200	160	ug/L			12/30/15 20:33	200
Methyl acetate	ND		500	260	ug/L			12/30/15 20:33	200
Methyl tert-butyl ether	ND		200	32	ug/L			12/30/15 20:33	200
Methylcyclohexane	150 J		200	32	ug/L			12/30/15 20:33	200
Methylene Chloride	210		200	88	ug/L			12/30/15 20:33	200
Styrene	ND		200	150	ug/L			12/30/15 20:33	200
Tetrachloroethene	ND		200	72	ug/L			12/30/15 20:33	200
Toluene	1900		200	100	ug/L			12/30/15 20:33	200
trans-1,2-Dichloroethene	ND		200	180	ug/L			12/30/15 20:33	200
trans-1,3-Dichloropropene	ND		200	74	ug/L			12/30/15 20:33	200
Trichloroethene	ND		200	92	ug/L			12/30/15 20:33	200
Trichlorofluoromethane	ND		200	180	ug/L			12/30/15 20:33	200
Vinyl chloride	ND		200	180	ug/L			12/30/15 20:33	200
Xylenes, Total	10000		400	130	ug/L			12/30/15 20:33	200

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Client Sample ID: MSMW-2-121715

Lab Sample ID: 480-92971-10

Date Collected: 12/17/15 13:00

Matrix: Water

Date Received: 12/18/15 13:48

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	113		66 - 137		12/30/15 20:33	200
Toluene-d8 (Surr)	101		71 - 126		12/30/15 20:33	200
4-Bromofluorobenzene (Surr)	93		73 - 120		12/30/15 20:33	200
Dibromofluoromethane (Surr)	109		60 - 140		12/30/15 20:33	200

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Client Sample ID: MSMW-4-121615

Lab Sample ID: 480-92971-11

Date Collected: 12/16/15 13:00

Matrix: Water

Date Received: 12/18/15 13:48

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			12/30/15 20:06	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			12/30/15 20:06	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			12/30/15 20:06	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			12/30/15 20:06	5
1,1-Dichloroethane	ND		5.0	1.9	ug/L			12/30/15 20:06	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			12/30/15 20:06	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			12/30/15 20:06	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			12/30/15 20:06	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			12/30/15 20:06	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			12/30/15 20:06	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			12/30/15 20:06	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			12/30/15 20:06	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			12/30/15 20:06	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			12/30/15 20:06	5
2-Hexanone	ND		25	6.2	ug/L			12/30/15 20:06	5
2-Butanone (MEK)	ND		50	6.6	ug/L			12/30/15 20:06	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			12/30/15 20:06	5
Acetone	ND		50	15	ug/L			12/30/15 20:06	5
Benzene	180		5.0	2.1	ug/L			12/30/15 20:06	5
Bromodichloromethane	ND		5.0	2.0	ug/L			12/30/15 20:06	5
Bromoform	ND		5.0	1.3	ug/L			12/30/15 20:06	5
Bromomethane	ND		5.0	3.5	ug/L			12/30/15 20:06	5
Carbon disulfide	ND		5.0	0.95	ug/L			12/30/15 20:06	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			12/30/15 20:06	5
Chlorobenzene	ND		5.0	3.8	ug/L			12/30/15 20:06	5
Dibromochloromethane	ND		5.0	1.6	ug/L			12/30/15 20:06	5
Chloroethane	ND		5.0	1.6	ug/L			12/30/15 20:06	5
Chloroform	ND		5.0	1.7	ug/L			12/30/15 20:06	5
Chloromethane	ND		5.0	1.8	ug/L			12/30/15 20:06	5
cis-1,2-Dichloroethene	ND		5.0	4.1	ug/L			12/30/15 20:06	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			12/30/15 20:06	5
Cyclohexane	170		5.0	0.90	ug/L			12/30/15 20:06	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			12/30/15 20:06	5
Ethylbenzene	420		5.0	3.7	ug/L			12/30/15 20:06	5
Isopropylbenzene	14		5.0	4.0	ug/L			12/30/15 20:06	5
Methyl acetate	ND		13	6.5	ug/L			12/30/15 20:06	5
Methyl tert-butyl ether	ND		5.0	0.80	ug/L			12/30/15 20:06	5
Methylcyclohexane	70		5.0	0.80	ug/L			12/30/15 20:06	5
Methylene Chloride	ND		5.0	2.2	ug/L			12/30/15 20:06	5
Styrene	ND		5.0	3.7	ug/L			12/30/15 20:06	5
Tetrachloroethene	ND		5.0	1.8	ug/L			12/30/15 20:06	5
Toluene	48		5.0	2.6	ug/L			12/30/15 20:06	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			12/30/15 20:06	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			12/30/15 20:06	5
Trichloroethene	ND		5.0	2.3	ug/L			12/30/15 20:06	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			12/30/15 20:06	5
Vinyl chloride	ND		5.0	4.5	ug/L			12/30/15 20:06	5
Xylenes, Total	190		10	3.3	ug/L			12/30/15 20:06	5

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Client Sample ID: MSMW-4-121615

Lab Sample ID: 480-92971-11

Date Collected: 12/16/15 13:00

Matrix: Water

Date Received: 12/18/15 13:48

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	109		66 - 137		12/30/15 20:06	5
Toluene-d8 (Surr)	100		71 - 126		12/30/15 20:06	5
4-Bromofluorobenzene (Surr)	93		73 - 120		12/30/15 20:06	5
Dibromofluoromethane (Surr)	107		60 - 140		12/30/15 20:06	5

Surrogate Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (66-137)	TOL (71-126)	BFB (73-120)	DBFM (60-140)
480-92971-1	BCP-MW-1-121415	100	97	100	98
480-92971-2	BCP-MW-3-121515	94	96	107	98
480-92971-3	BCP-MW-4-121515	93	93	105	94
480-92971-4	BCP-MW-5-121515	81	90	118	83
480-92971-5	BCP-MW-6-121415	90	94	105	90
480-92971-6	BCP-MW-7-121515	93	93	105	93
480-92971-7	DS-121515	90	96	104	93
480-92971-8	DS-121715	112	101	92	110
480-92971-9	MSMW-1-121615	102	102	107	107
480-92971-10	MSMW-2-121715	113	101	93	109
480-92971-11	MSMW-4-121615	109	100	93	107
LCS 480-281543/4	Lab Control Sample	97	98	100	98
LCS 480-281555/4	Lab Control Sample	87	94	103	91
LCS 480-281575/4	Lab Control Sample	78	92	116	83
LCS 480-281749/4	Lab Control Sample	98	106	113	106
LCS 480-281821/4	Lab Control Sample	107	101	94	108
MB 480-281543/6	Method Blank	101	101	100	101
MB 480-281555/6	Method Blank	93	94	103	98
MB 480-281575/6	Method Blank	78	89	114	82
MB 480-281749/6	Method Blank	94	103	108	104
MB 480-281821/6	Method Blank	113	104	91	112

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-281543/6

Matrix: Water

Analysis Batch: 281543

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/25/15 18:32	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/25/15 18:32	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/25/15 18:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/25/15 18:32	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/25/15 18:32	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/25/15 18:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/25/15 18:32	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/25/15 18:32	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/25/15 18:32	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/25/15 18:32	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/25/15 18:32	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/25/15 18:32	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/25/15 18:32	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/25/15 18:32	1
2-Hexanone	ND		5.0	1.2	ug/L			12/25/15 18:32	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/25/15 18:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/25/15 18:32	1
Acetone	ND		10	3.0	ug/L			12/25/15 18:32	1
Benzene	ND		1.0	0.41	ug/L			12/25/15 18:32	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/25/15 18:32	1
Bromoform	ND		1.0	0.26	ug/L			12/25/15 18:32	1
Bromomethane	ND		1.0	0.69	ug/L			12/25/15 18:32	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/25/15 18:32	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/25/15 18:32	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/25/15 18:32	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/25/15 18:32	1
Chloroethane	ND		1.0	0.32	ug/L			12/25/15 18:32	1
Chloroform	ND		1.0	0.34	ug/L			12/25/15 18:32	1
Chloromethane	ND		1.0	0.35	ug/L			12/25/15 18:32	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/25/15 18:32	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/25/15 18:32	1
Cyclohexane	ND		1.0	0.18	ug/L			12/25/15 18:32	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/25/15 18:32	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/25/15 18:32	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/25/15 18:32	1
Methyl acetate	ND		2.5	1.3	ug/L			12/25/15 18:32	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/25/15 18:32	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/25/15 18:32	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/25/15 18:32	1
Styrene	ND		1.0	0.73	ug/L			12/25/15 18:32	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/25/15 18:32	1
Toluene	ND		1.0	0.51	ug/L			12/25/15 18:32	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/25/15 18:32	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/25/15 18:32	1
Trichloroethene	ND		1.0	0.46	ug/L			12/25/15 18:32	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/25/15 18:32	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/25/15 18:32	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/25/15 18:32	1

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		66 - 137		12/25/15 18:32	1
Toluene-d8 (Surr)	101		71 - 126		12/25/15 18:32	1
4-Bromofluorobenzene (Surr)	100		73 - 120		12/25/15 18:32	1
Dibromofluoromethane (Surr)	101		60 - 140		12/25/15 18:32	1

Lab Sample ID: LCS 480-281543/4

Matrix: Water

Analysis Batch: 281543

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	23.3		ug/L		93	73 - 126
1,1,2,2-Tetrachloroethane	25.0	26.8		ug/L		107	70 - 126
1,1,2-Trichloroethane	25.0	25.9		ug/L		104	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.1		ug/L		100	52 - 148
1,1-Dichloroethane	25.0	24.8		ug/L		99	71 - 129
1,1-Dichloroethene	25.0	24.9		ug/L		100	58 - 121
1,2,4-Trichlorobenzene	25.0	25.2		ug/L		101	70 - 122
1,2-Dibromo-3-Chloropropane	25.0	30.0		ug/L		120	56 - 134
1,2-Dibromoethane	25.0	27.3		ug/L		109	77 - 120
1,2-Dichlorobenzene	25.0	25.0		ug/L		100	80 - 124
1,2-Dichloroethane	25.0	25.2		ug/L		101	75 - 127
1,2-Dichloropropane	25.0	26.5		ug/L		106	76 - 120
1,3-Dichlorobenzene	25.0	25.2		ug/L		101	77 - 120
1,4-Dichlorobenzene	25.0	23.8		ug/L		95	75 - 120
2-Hexanone	125	135		ug/L		108	65 - 127
2-Butanone (MEK)	125	128		ug/L		102	57 - 140
4-Methyl-2-pentanone (MIBK)	125	129		ug/L		103	71 - 125
Acetone	125	120		ug/L		96	56 - 142
Benzene	25.0	24.1		ug/L		96	71 - 124
Bromodichloromethane	25.0	26.9		ug/L		108	80 - 122
Bromoform	25.0	26.2		ug/L		105	52 - 132
Bromomethane	25.0	22.1		ug/L		89	55 - 144
Carbon disulfide	25.0	23.3		ug/L		93	59 - 134
Carbon tetrachloride	25.0	24.8		ug/L		99	72 - 134
Chlorobenzene	25.0	25.1		ug/L		100	72 - 120
Dibromochloromethane	25.0	27.8		ug/L		111	75 - 125
Chloroethane	25.0	19.3		ug/L		77	69 - 136
Chloroform	25.0	24.5		ug/L		98	73 - 127
Chloromethane	25.0	21.3		ug/L		85	68 - 124
cis-1,2-Dichloroethene	25.0	24.6		ug/L		98	74 - 124
cis-1,3-Dichloropropene	25.0	28.0		ug/L		112	74 - 124
Cyclohexane	25.0	24.1		ug/L		97	59 - 135
Dichlorodifluoromethane	25.0	21.5		ug/L		86	59 - 135
Ethylbenzene	25.0	23.9		ug/L		96	77 - 123
Isopropylbenzene	25.0	25.9		ug/L		104	77 - 122
Methyl acetate	125	122		ug/L		98	74 - 133
Methyl tert-butyl ether	25.0	23.9		ug/L		96	64 - 127
Methylcyclohexane	25.0	24.4		ug/L		98	61 - 138
Methylene Chloride	25.0	22.7		ug/L		91	57 - 132
Styrene	25.0	25.7		ug/L		103	70 - 130
Tetrachloroethene	25.0	22.9		ug/L		92	74 - 122
Toluene	25.0	24.2		ug/L		97	80 - 122
trans-1,2-Dichloroethene	25.0	24.4		ug/L		97	73 - 127

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-281543/4

Matrix: Water

Analysis Batch: 281543

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	25.0	25.7		ug/L		103	74 - 123
Trichlorofluoromethane	25.0	25.1		ug/L		101	62 - 152
Vinyl chloride	25.0	20.7		ug/L		83	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		66 - 137
Toluene-d8 (Surr)	98		71 - 126
4-Bromofluorobenzene (Surr)	100		73 - 120
Dibromofluoromethane (Surr)	98		60 - 140

Lab Sample ID: MB 480-281555/6

Matrix: Water

Analysis Batch: 281555

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/26/15 17:10	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/26/15 17:10	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/26/15 17:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/26/15 17:10	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/26/15 17:10	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/26/15 17:10	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/26/15 17:10	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/26/15 17:10	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/26/15 17:10	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/26/15 17:10	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/26/15 17:10	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/26/15 17:10	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/26/15 17:10	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/26/15 17:10	1
2-Hexanone	ND		5.0	1.2	ug/L			12/26/15 17:10	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/26/15 17:10	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/26/15 17:10	1
Acetone	ND		10	3.0	ug/L			12/26/15 17:10	1
Benzene	ND		1.0	0.41	ug/L			12/26/15 17:10	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/26/15 17:10	1
Bromoform	ND		1.0	0.26	ug/L			12/26/15 17:10	1
Bromomethane	ND		1.0	0.69	ug/L			12/26/15 17:10	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/26/15 17:10	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/26/15 17:10	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/26/15 17:10	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/26/15 17:10	1
Chloroethane	ND		1.0	0.32	ug/L			12/26/15 17:10	1
Chloroform	ND		1.0	0.34	ug/L			12/26/15 17:10	1
Chloromethane	ND		1.0	0.35	ug/L			12/26/15 17:10	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/26/15 17:10	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/26/15 17:10	1
Cyclohexane	ND		1.0	0.18	ug/L			12/26/15 17:10	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/26/15 17:10	1

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-281555/6

Matrix: Water

Analysis Batch: 281555

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.0	0.74	ug/L			12/26/15 17:10	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/26/15 17:10	1
Methyl acetate	ND		2.5	1.3	ug/L			12/26/15 17:10	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/26/15 17:10	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/26/15 17:10	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/26/15 17:10	1
Styrene	ND		1.0	0.73	ug/L			12/26/15 17:10	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/26/15 17:10	1
Toluene	ND		1.0	0.51	ug/L			12/26/15 17:10	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/26/15 17:10	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/26/15 17:10	1
Trichloroethene	ND		1.0	0.46	ug/L			12/26/15 17:10	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/26/15 17:10	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/26/15 17:10	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/26/15 17:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		66 - 137		12/26/15 17:10	1
Toluene-d8 (Surr)	94		71 - 126		12/26/15 17:10	1
4-Bromofluorobenzene (Surr)	103		73 - 120		12/26/15 17:10	1
Dibromofluoromethane (Surr)	98		60 - 140		12/26/15 17:10	1

Lab Sample ID: LCS 480-281555/4

Matrix: Water

Analysis Batch: 281555

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	23.4		ug/L		94	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.3		ug/L		101	70 - 126
1,1,2-Trichloroethane	25.0	25.4		ug/L		101	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.3		ug/L		97	52 - 148
1,1-Dichloroethane	25.0	24.0		ug/L		96	71 - 129
1,1-Dichloroethene	25.0	23.1		ug/L		92	58 - 121
1,2,4-Trichlorobenzene	25.0	24.6		ug/L		98	70 - 122
1,2-Dibromo-3-Chloropropane	25.0	26.1		ug/L		104	56 - 134
1,2-Dibromoethane	25.0	27.3		ug/L		109	77 - 120
1,2-Dichlorobenzene	25.0	24.9		ug/L		99	80 - 124
1,2-Dichloroethane	25.0	24.9		ug/L		100	75 - 127
1,2-Dichloropropane	25.0	25.2		ug/L		101	76 - 120
1,3-Dichlorobenzene	25.0	24.9		ug/L		100	77 - 120
1,4-Dichlorobenzene	25.0	24.2		ug/L		97	75 - 120
2-Hexanone	125	128		ug/L		102	65 - 127
2-Butanone (MEK)	125	118		ug/L		94	57 - 140
4-Methyl-2-pentanone (MIBK)	125	121		ug/L		96	71 - 125
Acetone	125	108		ug/L		87	56 - 142
Benzene	25.0	23.8		ug/L		95	71 - 124
Bromodichloromethane	25.0	26.1		ug/L		104	80 - 122

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-281555/4

Matrix: Water

Analysis Batch: 281555

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	25.0	25.7		ug/L		103	52 - 132
Bromomethane	25.0	20.8		ug/L		83	55 - 144
Carbon disulfide	25.0	22.3		ug/L		89	59 - 134
Carbon tetrachloride	25.0	24.8		ug/L		99	72 - 134
Chlorobenzene	25.0	25.2		ug/L		101	72 - 120
Dibromochloromethane	25.0	26.9		ug/L		108	75 - 125
Chloroethane	25.0	18.6		ug/L		75	69 - 136
Chloroform	25.0	23.7		ug/L		95	73 - 127
Chloromethane	25.0	20.2		ug/L		81	68 - 124
cis-1,2-Dichloroethene	25.0	23.8		ug/L		95	74 - 124
cis-1,3-Dichloropropene	25.0	27.6		ug/L		110	74 - 124
Cyclohexane	25.0	21.9		ug/L		88	59 - 135
Dichlorodifluoromethane	25.0	19.0		ug/L		76	59 - 135
Ethylbenzene	25.0	23.7		ug/L		95	77 - 123
Isopropylbenzene	25.0	25.3		ug/L		101	77 - 122
Methyl acetate	125	114		ug/L		91	74 - 133
Methyl tert-butyl ether	25.0	23.9		ug/L		96	64 - 127
Methylcyclohexane	25.0	23.2		ug/L		93	61 - 138
Methylene Chloride	25.0	22.2		ug/L		89	57 - 132
Styrene	25.0	25.5		ug/L		102	70 - 130
Tetrachloroethene	25.0	22.3		ug/L		89	74 - 122
Toluene	25.0	24.2		ug/L		97	80 - 122
trans-1,2-Dichloroethene	25.0	23.5		ug/L		94	73 - 127
Trichloroethene	25.0	24.7		ug/L		99	74 - 123
Trichlorofluoromethane	25.0	23.4		ug/L		94	62 - 152
Vinyl chloride	25.0	19.2		ug/L		77	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	87		66 - 137
Toluene-d8 (Surr)	94		71 - 126
4-Bromofluorobenzene (Surr)	103		73 - 120
Dibromofluoromethane (Surr)	91		60 - 140

Lab Sample ID: MB 480-281575/6

Matrix: Water

Analysis Batch: 281575

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/28/15 01:41	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/28/15 01:41	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/28/15 01:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/28/15 01:41	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/28/15 01:41	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/28/15 01:41	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/28/15 01:41	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/28/15 01:41	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/28/15 01:41	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/28/15 01:41	1

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-281575/6

Matrix: Water

Analysis Batch: 281575

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/28/15 01:41	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/28/15 01:41	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/28/15 01:41	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/28/15 01:41	1
2-Hexanone	ND		5.0	1.2	ug/L			12/28/15 01:41	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/28/15 01:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/28/15 01:41	1
Acetone	ND		10	3.0	ug/L			12/28/15 01:41	1
Benzene	ND		1.0	0.41	ug/L			12/28/15 01:41	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/28/15 01:41	1
Bromoform	ND		1.0	0.26	ug/L			12/28/15 01:41	1
Bromomethane	ND		1.0	0.69	ug/L			12/28/15 01:41	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/28/15 01:41	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/28/15 01:41	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/28/15 01:41	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/28/15 01:41	1
Chloroethane	ND		1.0	0.32	ug/L			12/28/15 01:41	1
Chloroform	ND		1.0	0.34	ug/L			12/28/15 01:41	1
Chloromethane	ND		1.0	0.35	ug/L			12/28/15 01:41	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/28/15 01:41	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/28/15 01:41	1
Cyclohexane	ND		1.0	0.18	ug/L			12/28/15 01:41	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/28/15 01:41	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/28/15 01:41	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/28/15 01:41	1
Methyl acetate	ND		2.5	1.3	ug/L			12/28/15 01:41	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/28/15 01:41	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/28/15 01:41	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/28/15 01:41	1
Styrene	ND		1.0	0.73	ug/L			12/28/15 01:41	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/28/15 01:41	1
Toluene	ND		1.0	0.51	ug/L			12/28/15 01:41	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/28/15 01:41	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/28/15 01:41	1
Trichloroethene	ND		1.0	0.46	ug/L			12/28/15 01:41	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/28/15 01:41	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/28/15 01:41	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/28/15 01:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	78		66 - 137		12/28/15 01:41	1
Toluene-d8 (Surr)	89		71 - 126		12/28/15 01:41	1
4-Bromofluorobenzene (Surr)	114		73 - 120		12/28/15 01:41	1
Dibromofluoromethane (Surr)	82		60 - 140		12/28/15 01:41	1

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-281575/4

Matrix: Water

Analysis Batch: 281575

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	24.4		ug/L		97	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.5		ug/L		102	70 - 126
1,1,2-Trichloroethane	25.0	24.9		ug/L		100	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.6		ug/L		103	52 - 148
1,1-Dichloroethane	25.0	24.7		ug/L		99	71 - 129
1,1-Dichloroethene	25.0	24.1		ug/L		97	58 - 121
1,2,4-Trichlorobenzene	25.0	23.9		ug/L		96	70 - 122
1,2-Dibromo-3-Chloropropane	25.0	26.3		ug/L		105	56 - 134
1,2-Dibromoethane	25.0	26.4		ug/L		106	77 - 120
1,2-Dichlorobenzene	25.0	24.0		ug/L		96	80 - 124
1,2-Dichloroethane	25.0	24.0		ug/L		96	75 - 127
1,2-Dichloropropane	25.0	25.6		ug/L		103	76 - 120
1,3-Dichlorobenzene	25.0	24.1		ug/L		96	77 - 120
1,4-Dichlorobenzene	25.0	24.1		ug/L		97	75 - 120
2-Hexanone	125	129		ug/L		103	65 - 127
2-Butanone (MEK)	125	122		ug/L		98	57 - 140
4-Methyl-2-pentanone (MIBK)	125	123		ug/L		98	71 - 125
Acetone	125	138		ug/L		110	56 - 142
Benzene	25.0	24.2		ug/L		97	71 - 124
Bromodichloromethane	25.0	25.7		ug/L		103	80 - 122
Bromoform	25.0	24.0		ug/L		96	52 - 132
Bromomethane	25.0	26.5		ug/L		106	55 - 144
Carbon disulfide	25.0	23.7		ug/L		95	59 - 134
Carbon tetrachloride	25.0	25.1		ug/L		100	72 - 134
Chlorobenzene	25.0	24.8		ug/L		99	72 - 120
Dibromochloromethane	25.0	26.0		ug/L		104	75 - 125
Chloroethane	25.0	23.8		ug/L		95	69 - 136
Chloroform	25.0	24.7		ug/L		99	73 - 127
Chloromethane	25.0	23.4		ug/L		94	68 - 124
cis-1,2-Dichloroethene	25.0	24.6		ug/L		98	74 - 124
cis-1,3-Dichloropropene	25.0	27.4		ug/L		110	74 - 124
Cyclohexane	25.0	23.4		ug/L		94	59 - 135
Dichlorodifluoromethane	25.0	30.8		ug/L		123	59 - 135
Ethylbenzene	25.0	23.6		ug/L		94	77 - 123
Isopropylbenzene	25.0	24.9		ug/L		100	77 - 122
Methyl acetate	125	124		ug/L		100	74 - 133
Methyl tert-butyl ether	25.0	24.2		ug/L		97	64 - 127
Methylcyclohexane	25.0	23.9		ug/L		96	61 - 138
Methylene Chloride	25.0	22.8		ug/L		91	57 - 132
Styrene	25.0	25.2		ug/L		101	70 - 130
Tetrachloroethene	25.0	22.7		ug/L		91	74 - 122
Toluene	25.0	24.0		ug/L		96	80 - 122
trans-1,2-Dichloroethene	25.0	24.3		ug/L		97	73 - 127
Trichloroethene	25.0	25.5		ug/L		102	74 - 123
Trichlorofluoromethane	25.0	29.3		ug/L		117	62 - 152
Vinyl chloride	25.0	24.3		ug/L		97	65 - 133

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-281575/4

Matrix: Water

Analysis Batch: 281575

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	78		66 - 137
Toluene-d8 (Surr)	92		71 - 126
4-Bromofluorobenzene (Surr)	116		73 - 120
Dibromofluoromethane (Surr)	83		60 - 140

Lab Sample ID: MB 480-281749/6

Matrix: Water

Analysis Batch: 281749

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/29/15 22:44	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/29/15 22:44	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/29/15 22:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/29/15 22:44	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/29/15 22:44	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/29/15 22:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/29/15 22:44	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/29/15 22:44	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/29/15 22:44	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/29/15 22:44	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/29/15 22:44	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/29/15 22:44	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/29/15 22:44	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/29/15 22:44	1
2-Hexanone	ND		5.0	1.2	ug/L			12/29/15 22:44	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/29/15 22:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/29/15 22:44	1
Acetone	ND		10	3.0	ug/L			12/29/15 22:44	1
Benzene	ND		1.0	0.41	ug/L			12/29/15 22:44	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/29/15 22:44	1
Bromoform	ND		1.0	0.26	ug/L			12/29/15 22:44	1
Bromomethane	ND		1.0	0.69	ug/L			12/29/15 22:44	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/29/15 22:44	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/29/15 22:44	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/29/15 22:44	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/29/15 22:44	1
Chloroethane	ND		1.0	0.32	ug/L			12/29/15 22:44	1
Chloroform	ND		1.0	0.34	ug/L			12/29/15 22:44	1
Chloromethane	ND		1.0	0.35	ug/L			12/29/15 22:44	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/29/15 22:44	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/29/15 22:44	1
Cyclohexane	ND		1.0	0.18	ug/L			12/29/15 22:44	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/29/15 22:44	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/29/15 22:44	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/29/15 22:44	1
Methyl acetate	ND		2.5	1.3	ug/L			12/29/15 22:44	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/29/15 22:44	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/29/15 22:44	1

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-281749/6

Matrix: Water

Analysis Batch: 281749

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.44	ug/L			12/29/15 22:44	1
Styrene	ND		1.0	0.73	ug/L			12/29/15 22:44	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/29/15 22:44	1
Toluene	ND		1.0	0.51	ug/L			12/29/15 22:44	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/29/15 22:44	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/29/15 22:44	1
Trichloroethene	ND		1.0	0.46	ug/L			12/29/15 22:44	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/29/15 22:44	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/29/15 22:44	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/29/15 22:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		66 - 137		12/29/15 22:44	1
Toluene-d8 (Surr)	103		71 - 126		12/29/15 22:44	1
4-Bromofluorobenzene (Surr)	108		73 - 120		12/29/15 22:44	1
Dibromofluoromethane (Surr)	104		60 - 140		12/29/15 22:44	1

Lab Sample ID: LCS 480-281749/4

Matrix: Water

Analysis Batch: 281749

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	22.5		ug/L		90	73 - 126
1,1,2,2-Tetrachloroethane	25.0	22.5		ug/L		90	70 - 126
1,1,2-Trichloroethane	25.0	24.2		ug/L		97	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.9		ug/L		100	52 - 148
1,1-Dichloroethane	25.0	24.0		ug/L		96	71 - 129
1,1-Dichloroethene	25.0	24.6		ug/L		98	58 - 121
1,2,4-Trichlorobenzene	25.0	25.2		ug/L		101	70 - 122
1,2-Dibromo-3-Chloropropane	25.0	19.0		ug/L		76	56 - 134
1,2-Dibromoethane	25.0	24.8		ug/L		99	77 - 120
1,2-Dichlorobenzene	25.0	23.3		ug/L		93	80 - 124
1,2-Dichloroethane	25.0	21.2		ug/L		85	75 - 127
1,2-Dichloropropane	25.0	25.0		ug/L		100	76 - 120
1,3-Dichlorobenzene	25.0	23.5		ug/L		94	77 - 120
1,4-Dichlorobenzene	25.0	23.5		ug/L		94	75 - 120
2-Hexanone	125	106		ug/L		85	65 - 127
2-Butanone (MEK)	125	112		ug/L		90	57 - 140
4-Methyl-2-pentanone (MIBK)	125	107		ug/L		85	71 - 125
Acetone	125	104		ug/L		84	56 - 142
Benzene	25.0	25.5		ug/L		102	71 - 124
Bromodichloromethane	25.0	23.2		ug/L		93	80 - 122
Bromoform	25.0	24.6		ug/L		98	52 - 132
Bromomethane	25.0	26.5		ug/L		106	55 - 144
Carbon disulfide	25.0	25.3		ug/L		101	59 - 134
Carbon tetrachloride	25.0	23.7		ug/L		95	72 - 134
Chlorobenzene	25.0	25.0		ug/L		100	72 - 120

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-281749/4

Matrix: Water

Analysis Batch: 281749

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibromochloromethane	25.0	23.2		ug/L		93	75 - 125
Chloroethane	25.0	25.5		ug/L		102	69 - 136
Chloroform	25.0	23.1		ug/L		92	73 - 127
Chloromethane	25.0	21.1		ug/L		85	68 - 124
cis-1,2-Dichloroethene	25.0	25.8		ug/L		103	74 - 124
cis-1,3-Dichloropropene	25.0	25.1		ug/L		100	74 - 124
Cyclohexane	25.0	24.7		ug/L		99	59 - 135
Dichlorodifluoromethane	25.0	25.1		ug/L		100	59 - 135
Ethylbenzene	25.0	23.5		ug/L		94	77 - 123
Isopropylbenzene	25.0	21.5		ug/L		86	77 - 122
Methyl acetate	125	115		ug/L		92	74 - 133
Methyl tert-butyl ether	25.0	23.9		ug/L		96	64 - 127
Methylcyclohexane	25.0	25.4		ug/L		101	61 - 138
Methylene Chloride	25.0	25.5		ug/L		102	57 - 132
Styrene	25.0	24.5		ug/L		98	70 - 130
Tetrachloroethene	25.0	26.6		ug/L		106	74 - 122
Toluene	25.0	24.7		ug/L		99	80 - 122
trans-1,2-Dichloroethene	25.0	26.1		ug/L		104	73 - 127
Trichloroethene	25.0	24.1		ug/L		96	74 - 123
Trichlorofluoromethane	25.0	23.2		ug/L		93	62 - 152
Vinyl chloride	25.0	23.2		ug/L		93	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		66 - 137
Toluene-d8 (Surr)	106		71 - 126
4-Bromofluorobenzene (Surr)	113		73 - 120
Dibromofluoromethane (Surr)	106		60 - 140

Lab Sample ID: MB 480-281821/6

Matrix: Water

Analysis Batch: 281821

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/30/15 12:02	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/30/15 12:02	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/30/15 12:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/30/15 12:02	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/30/15 12:02	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/30/15 12:02	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/30/15 12:02	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/30/15 12:02	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/30/15 12:02	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/30/15 12:02	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/30/15 12:02	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/30/15 12:02	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/30/15 12:02	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/30/15 12:02	1
2-Hexanone	ND		5.0	1.2	ug/L			12/30/15 12:02	1

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-281821/6

Matrix: Water

Analysis Batch: 281821

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		10	1.3	ug/L			12/30/15 12:02	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/30/15 12:02	1
Acetone	ND		10	3.0	ug/L			12/30/15 12:02	1
Benzene	ND		1.0	0.41	ug/L			12/30/15 12:02	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/30/15 12:02	1
Bromoform	ND		1.0	0.26	ug/L			12/30/15 12:02	1
Bromomethane	ND		1.0	0.69	ug/L			12/30/15 12:02	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/30/15 12:02	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/30/15 12:02	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/30/15 12:02	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/30/15 12:02	1
Chloroethane	ND		1.0	0.32	ug/L			12/30/15 12:02	1
Chloroform	ND		1.0	0.34	ug/L			12/30/15 12:02	1
Chloromethane	ND		1.0	0.35	ug/L			12/30/15 12:02	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/30/15 12:02	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/30/15 12:02	1
Cyclohexane	ND		1.0	0.18	ug/L			12/30/15 12:02	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/30/15 12:02	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/30/15 12:02	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/30/15 12:02	1
Methyl acetate	ND		2.5	1.3	ug/L			12/30/15 12:02	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/30/15 12:02	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/30/15 12:02	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/30/15 12:02	1
Styrene	ND		1.0	0.73	ug/L			12/30/15 12:02	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/30/15 12:02	1
Toluene	ND		1.0	0.51	ug/L			12/30/15 12:02	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/30/15 12:02	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/30/15 12:02	1
Trichloroethene	ND		1.0	0.46	ug/L			12/30/15 12:02	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/30/15 12:02	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/30/15 12:02	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/30/15 12:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		66 - 137		12/30/15 12:02	1
Toluene-d8 (Surr)	104		71 - 126		12/30/15 12:02	1
4-Bromofluorobenzene (Surr)	91		73 - 120		12/30/15 12:02	1
Dibromofluoromethane (Surr)	112		60 - 140		12/30/15 12:02	1

Lab Sample ID: LCS 480-281821/4

Matrix: Water

Analysis Batch: 281821

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	22.3		ug/L		89	73 - 126
1,1,2,2-Tetrachloroethane	25.0	24.2		ug/L		97	70 - 126
1,1,2-Trichloroethane	25.0	24.7		ug/L		99	76 - 122

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-281821/4

Matrix: Water

Analysis Batch: 281821

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.8		ug/L		99	52 - 148
1,1-Dichloroethane	25.0	24.1		ug/L		96	71 - 129
1,1-Dichloroethene	25.0	23.2		ug/L		93	58 - 121
1,2,4-Trichlorobenzene	25.0	22.8		ug/L		91	70 - 122
1,2-Dibromo-3-Chloropropane	25.0	25.3		ug/L		101	56 - 134
1,2-Dibromoethane	25.0	25.7		ug/L		103	77 - 120
1,2-Dichlorobenzene	25.0	23.2		ug/L		93	80 - 124
1,2-Dichloroethane	25.0	23.5		ug/L		94	75 - 127
1,2-Dichloropropane	25.0	25.1		ug/L		100	76 - 120
1,3-Dichlorobenzene	25.0	23.4		ug/L		94	77 - 120
1,4-Dichlorobenzene	25.0	22.6		ug/L		90	75 - 120
2-Hexanone	125	125		ug/L		100	65 - 127
2-Butanone (MEK)	125	120		ug/L		96	57 - 140
4-Methyl-2-pentanone (MIBK)	125	121		ug/L		97	71 - 125
Acetone	125	119		ug/L		95	56 - 142
Benzene	25.0	24.0		ug/L		96	71 - 124
Bromodichloromethane	25.0	25.6		ug/L		102	80 - 122
Bromoform	25.0	23.9		ug/L		96	52 - 132
Bromomethane	25.0	26.1		ug/L		105	55 - 144
Carbon disulfide	25.0	22.6		ug/L		90	59 - 134
Carbon tetrachloride	25.0	24.5		ug/L		98	72 - 134
Chlorobenzene	25.0	24.1		ug/L		96	72 - 120
Dibromochloromethane	25.0	25.5		ug/L		102	75 - 125
Chloroethane	25.0	22.2		ug/L		89	69 - 136
Chloroform	25.0	24.1		ug/L		96	73 - 127
Chloromethane	25.0	22.5		ug/L		90	68 - 124
cis-1,2-Dichloroethene	25.0	24.3		ug/L		97	74 - 124
cis-1,3-Dichloropropene	25.0	27.4		ug/L		109	74 - 124
Cyclohexane	25.0	23.2		ug/L		93	59 - 135
Dichlorodifluoromethane	25.0	25.2		ug/L		101	59 - 135
Ethylbenzene	25.0	22.7		ug/L		91	77 - 123
Isopropylbenzene	25.0	24.0		ug/L		96	77 - 122
Methyl acetate	125	124		ug/L		100	74 - 133
Methyl tert-butyl ether	25.0	23.4		ug/L		94	64 - 127
Methylcyclohexane	25.0	23.5		ug/L		94	61 - 138
Methylene Chloride	25.0	22.8		ug/L		91	57 - 132
Styrene	25.0	24.4		ug/L		98	70 - 130
Tetrachloroethene	25.0	22.5		ug/L		90	74 - 122
Toluene	25.0	23.5		ug/L		94	80 - 122
trans-1,2-Dichloroethene	25.0	24.1		ug/L		96	73 - 127
Trichloroethene	25.0	25.0		ug/L		100	74 - 123
Trichlorofluoromethane	25.0	27.4		ug/L		110	62 - 152
Vinyl chloride	25.0	22.8		ug/L		91	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		66 - 137
Toluene-d8 (Surr)	101		71 - 126

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-281821/4

Matrix: Water

Analysis Batch: 281821

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	94		73 - 120
Dibromofluoromethane (Surr)	108		60 - 140

QC Association Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

GC/MS VOA

Analysis Batch: 281543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-92971-1	BCP-MW-1-121415	Total/NA	Water	8260C	
LCS 480-281543/4	Lab Control Sample	Total/NA	Water	8260C	
MB 480-281543/6	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 281555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-92971-2	BCP-MW-3-121515	Total/NA	Water	8260C	
480-92971-3	BCP-MW-4-121515	Total/NA	Water	8260C	
480-92971-5	BCP-MW-6-121415	Total/NA	Water	8260C	
480-92971-6	BCP-MW-7-121515	Total/NA	Water	8260C	
480-92971-7	DS-121515	Total/NA	Water	8260C	
LCS 480-281555/4	Lab Control Sample	Total/NA	Water	8260C	
MB 480-281555/6	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 281575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-92971-4	BCP-MW-5-121515	Total/NA	Water	8260C	
LCS 480-281575/4	Lab Control Sample	Total/NA	Water	8260C	
MB 480-281575/6	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 281749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-92971-9	MSMW-1-121615	Total/NA	Water	8260C	
LCS 480-281749/4	Lab Control Sample	Total/NA	Water	8260C	
MB 480-281749/6	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 281821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-92971-8	DS-121715	Total/NA	Water	8260C	
480-92971-10	MSMW-2-121715	Total/NA	Water	8260C	
480-92971-11	MSMW-4-121615	Total/NA	Water	8260C	
LCS 480-281821/4	Lab Control Sample	Total/NA	Water	8260C	
MB 480-281821/6	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Client Sample ID: BCP-MW-1-121415

Date Collected: 12/14/15 14:30

Date Received: 12/18/15 13:48

Lab Sample ID: 480-92971-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	281543	12/26/15 00:49	GTG	TAL BUF

Client Sample ID: BCP-MW-3-121515

Date Collected: 12/15/15 10:30

Date Received: 12/18/15 13:48

Lab Sample ID: 480-92971-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		50	281555	12/26/15 20:08	JWG	TAL BUF

Client Sample ID: BCP-MW-4-121515

Date Collected: 12/15/15 11:00

Date Received: 12/18/15 13:48

Lab Sample ID: 480-92971-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		50	281555	12/26/15 20:35	JWG	TAL BUF

Client Sample ID: BCP-MW-5-121515

Date Collected: 12/15/15 12:30

Date Received: 12/18/15 13:48

Lab Sample ID: 480-92971-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		50	281575	12/28/15 02:34	GTG	TAL BUF

Client Sample ID: BCP-MW-6-121415

Date Collected: 12/14/15 09:30

Date Received: 12/18/15 13:48

Lab Sample ID: 480-92971-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		8	281555	12/26/15 21:29	JWG	TAL BUF

Client Sample ID: BCP-MW-7-121515

Date Collected: 12/15/15 09:45

Date Received: 12/18/15 13:48

Lab Sample ID: 480-92971-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	281555	12/26/15 21:55	JWG	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Client Sample ID: DS-121515

Date Collected: 12/15/15 10:00

Date Received: 12/18/15 13:48

Lab Sample ID: 480-92971-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	281555	12/26/15 22:22	JWG	TAL BUF

Client Sample ID: DS-121715

Date Collected: 12/17/15 14:30

Date Received: 12/18/15 13:48

Lab Sample ID: 480-92971-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	281821	12/30/15 21:00	SWO	TAL BUF

Client Sample ID: MSMW-1-121615

Date Collected: 12/16/15 12:40

Date Received: 12/18/15 13:48

Lab Sample ID: 480-92971-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	281749	12/30/15 06:34	GTG	TAL BUF

Client Sample ID: MSMW-2-121715

Date Collected: 12/17/15 13:00

Date Received: 12/18/15 13:48

Lab Sample ID: 480-92971-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		200	281821	12/30/15 20:33	SWO	TAL BUF

Client Sample ID: MSMW-4-121615

Date Collected: 12/16/15 13:00

Date Received: 12/18/15 13:48

Lab Sample ID: 480-92971-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	281821	12/30/15 20:06	SWO	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-16

1

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Method Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-92971-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-92971-1	BCP-MW-1-121415	Water	12/14/15 14:30	12/18/15 13:48
480-92971-2	BCP-MW-3-121515	Water	12/15/15 10:30	12/18/15 13:48
480-92971-3	BCP-MW-4-121515	Water	12/15/15 11:00	12/18/15 13:48
480-92971-4	BCP-MW-5-121515	Water	12/15/15 12:30	12/18/15 13:48
480-92971-5	BCP-MW-6-121415	Water	12/14/15 09:30	12/18/15 13:48
480-92971-6	BCP-MW-7-121515	Water	12/15/15 09:45	12/18/15 13:48
480-92971-7	DS-121515	Water	12/15/15 10:00	12/18/15 13:48
480-92971-8	DS-121715	Water	12/17/15 14:30	12/18/15 13:48
480-92971-9	MSMW-1-121615	Water	12/16/15 12:40	12/18/15 13:48
480-92971-10	MSMW-2-121715	Water	12/17/15 13:00	12/18/15 13:48
480-92971-11	MSMW-4-121615	Water	12/16/15 13:00	12/18/15 13:48

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TAL-4124 (1007)

Client C&S Engineers, Inc		Project Manager		Date 12/15/15		Chain of Custody Number 296389	
Address 141 Elm Street		Telephone Number (Area Code)/Fax Number 716-955-3021		Lab Number		Page 1 of 1	
City Buffalo		State NY		Zip Code 14203		Analysis (Attach list if more space is needed)	
Project Name and Location (State) Well Sampling - MOB		Carrier/Waybill Number		Lab Contact		Special Instructions/ Conditions of Receipt	
Contract/Purchase Order/Quote No. 1146001001		Matrix		Containers & Preservatives			
Sample I.D. No. and Description (Containers for each sample may be combined on one line)		Date		Time			
BCP-MW-1-121415		12/14/15		2:30			
BCP-MW-3-121515		12/15/15		10:30			
BCP-MW-4-121515		12/15/15		11:00			
BCP-MW-5-121515		12/15/15		12:30			
BCP-MW-6-121415		12/14/15		9:30			
BCP-MW-7-121515		12/15/15		9:45			
DS-121515		12/15/15		10:00			
DS-121715		12/17/15		2:30			
MSMW-1-121615		12/16/15		12:40			
MSMW-2-121715		12/17/15		1:00			
MSMW-4-121615		12/16/15		1:00			



480-92971 Chain of Custody

Possible Hazard Identification		Sample Disposal		Archive For _____ Months		(A fee may be assessed if samples are retained longer than 1 month)	
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown		☒ Disposal By Lab ☐ Return To Client					
Turn Around Time Required		QC Requirements (Specify)					
☐ 24 Hours ☐ 48 Hours ☒ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other							
1. Relinquished By Cathy A. Maffei		Date 12/15/15		Time 15:35		1. Received By [Signature]	
2. Relinquished By Maureen Demari		Date 12/18/15		Time 11:20		2. Received By [Signature]	
3. Relinquished By [Signature]		Date 12/18/15		Time 13:48		3. Received By [Signature]	
Comments 20 #1							

Login Sample Receipt Checklist

Client: C&S Engineers, Inc.

Job Number: 480-92971-1

Login Number: 92971

List Number: 1

Creator: Janish, Carl M

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	c+s
Samples received within 48 hours of sampling.	False	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-94461-1

Client Project/Site: Well Sampling - MOB

For:

C&S Engineers, Inc.

499 Col. Eileen Collins Blvd

Syracuse, New York 13212

Attn: Mr. Mark Colmerauer



Authorized for release by:

2/1/2016 9:02:26 AM

Judy Stone, Senior Project Manager

(484)685-0868

judy.stone@testamericainc.com

LINKS

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results through

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-94461-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-94461-1

Job ID: 480-94461-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-94461-1

Receipt

The samples were received on 1/28/2016 1:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.7° C.

GC/MS VOA

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: BCP-MW-3-012716 (480-94461-1) and BCP-MW-4-012716 (480-94461-2), BCP-MW-5-012716 (480-94461-3) and BCP-MW-6-012716 (480-94461-4). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-94461-1

Client Sample ID: BCP-MW-3-012716

Lab Sample ID: 480-94461-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2200		50	21	ug/L	50		8260C	Total/NA
Cyclohexane	93		50	9.0	ug/L	50		8260C	Total/NA
Ethylbenzene	1600		50	37	ug/L	50		8260C	Total/NA
Methylcyclohexane	33	J	50	8.0	ug/L	50		8260C	Total/NA
Toluene	110		50	26	ug/L	50		8260C	Total/NA
Xylenes, Total	2600		100	33	ug/L	50		8260C	Total/NA

Client Sample ID: BCP-MW-4-012716

Lab Sample ID: 480-94461-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	21	J	50	21	ug/L	50		8260C	Total/NA
Cyclohexane	220		50	9.0	ug/L	50		8260C	Total/NA
Ethylbenzene	1300		50	37	ug/L	50		8260C	Total/NA
Methylcyclohexane	100		50	8.0	ug/L	50		8260C	Total/NA
Toluene	270		50	26	ug/L	50		8260C	Total/NA
Xylenes, Total	2600		100	33	ug/L	50		8260C	Total/NA

Client Sample ID: BCP-MW-5-012716

Lab Sample ID: 480-94461-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1800		50	21	ug/L	50		8260C	Total/NA
Cyclohexane	250		50	9.0	ug/L	50		8260C	Total/NA
Ethylbenzene	1900		50	37	ug/L	50		8260C	Total/NA
Methylcyclohexane	100		50	8.0	ug/L	50		8260C	Total/NA
Toluene	80		50	26	ug/L	50		8260C	Total/NA
Xylenes, Total	3100		100	33	ug/L	50		8260C	Total/NA

Client Sample ID: BCP-MW-6-012716

Lab Sample ID: 480-94461-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	230		5.0	2.1	ug/L	5		8260C	Total/NA
Cyclohexane	110		5.0	0.90	ug/L	5		8260C	Total/NA
Ethylbenzene	44		5.0	3.7	ug/L	5		8260C	Total/NA
Methylcyclohexane	21		5.0	0.80	ug/L	5		8260C	Total/NA
Toluene	120		5.0	2.6	ug/L	5		8260C	Total/NA
Xylenes, Total	190		10	3.3	ug/L	5		8260C	Total/NA

Client Sample ID: DS-012716

Lab Sample ID: 480-94461-5

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-94461-1

Client Sample ID: BCP-MW-3-012716

Lab Sample ID: 480-94461-1

Date Collected: 01/27/16 12:00

Matrix: Water

Date Received: 01/28/16 13:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		50	41	ug/L			01/29/16 00:00	50
1,1,2,2-Tetrachloroethane	ND		50	11	ug/L			01/29/16 00:00	50
1,1,2-Trichloroethane	ND		50	12	ug/L			01/29/16 00:00	50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	16	ug/L			01/29/16 00:00	50
1,1-Dichloroethane	ND		50	19	ug/L			01/29/16 00:00	50
1,1-Dichloroethene	ND		50	15	ug/L			01/29/16 00:00	50
1,2,4-Trichlorobenzene	ND		50	21	ug/L			01/29/16 00:00	50
1,2-Dibromo-3-Chloropropane	ND		50	20	ug/L			01/29/16 00:00	50
1,2-Dibromoethane	ND		50	37	ug/L			01/29/16 00:00	50
1,2-Dichlorobenzene	ND		50	40	ug/L			01/29/16 00:00	50
1,2-Dichloroethane	ND		50	11	ug/L			01/29/16 00:00	50
1,2-Dichloropropane	ND		50	36	ug/L			01/29/16 00:00	50
1,3-Dichlorobenzene	ND		50	39	ug/L			01/29/16 00:00	50
1,4-Dichlorobenzene	ND		50	42	ug/L			01/29/16 00:00	50
2-Hexanone	ND		250	62	ug/L			01/29/16 00:00	50
2-Butanone (MEK)	ND		500	66	ug/L			01/29/16 00:00	50
4-Methyl-2-pentanone (MIBK)	ND		250	110	ug/L			01/29/16 00:00	50
Acetone	ND		500	150	ug/L			01/29/16 00:00	50
Benzene	2200		50	21	ug/L			01/29/16 00:00	50
Bromodichloromethane	ND		50	20	ug/L			01/29/16 00:00	50
Bromoform	ND		50	13	ug/L			01/29/16 00:00	50
Bromomethane	ND		50	35	ug/L			01/29/16 00:00	50
Carbon disulfide	ND		50	9.5	ug/L			01/29/16 00:00	50
Carbon tetrachloride	ND		50	14	ug/L			01/29/16 00:00	50
Chlorobenzene	ND		50	38	ug/L			01/29/16 00:00	50
Dibromochloromethane	ND		50	16	ug/L			01/29/16 00:00	50
Chloroethane	ND		50	16	ug/L			01/29/16 00:00	50
Chloroform	ND		50	17	ug/L			01/29/16 00:00	50
Chloromethane	ND		50	18	ug/L			01/29/16 00:00	50
cis-1,2-Dichloroethene	ND		50	41	ug/L			01/29/16 00:00	50
cis-1,3-Dichloropropene	ND		50	18	ug/L			01/29/16 00:00	50
Cyclohexane	93		50	9.0	ug/L			01/29/16 00:00	50
Dichlorodifluoromethane	ND		50	34	ug/L			01/29/16 00:00	50
Ethylbenzene	1600		50	37	ug/L			01/29/16 00:00	50
Isopropylbenzene	ND		50	40	ug/L			01/29/16 00:00	50
Methyl acetate	ND		130	65	ug/L			01/29/16 00:00	50
Methyl tert-butyl ether	ND		50	8.0	ug/L			01/29/16 00:00	50
Methylcyclohexane	33 J		50	8.0	ug/L			01/29/16 00:00	50
Methylene Chloride	ND		50	22	ug/L			01/29/16 00:00	50
Styrene	ND		50	37	ug/L			01/29/16 00:00	50
Tetrachloroethene	ND		50	18	ug/L			01/29/16 00:00	50
Toluene	110		50	26	ug/L			01/29/16 00:00	50
trans-1,2-Dichloroethene	ND		50	45	ug/L			01/29/16 00:00	50
trans-1,3-Dichloropropene	ND		50	19	ug/L			01/29/16 00:00	50
Trichloroethene	ND		50	23	ug/L			01/29/16 00:00	50
Trichlorofluoromethane	ND		50	44	ug/L			01/29/16 00:00	50
Vinyl chloride	ND		50	45	ug/L			01/29/16 00:00	50
Xylenes, Total	2600		100	33	ug/L			01/29/16 00:00	50

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-94461-1

Client Sample ID: BCP-MW-3-012716

Lab Sample ID: 480-94461-1

Date Collected: 01/27/16 12:00

Matrix: Water

Date Received: 01/28/16 13:00

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	95		66 - 137		01/29/16 00:00	50
Toluene-d8 (Surr)	97		71 - 126		01/29/16 00:00	50
4-Bromofluorobenzene (Surr)	102		73 - 120		01/29/16 00:00	50
Dibromofluoromethane (Surr)	98		60 - 140		01/29/16 00:00	50

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-94461-1

Client Sample ID: BCP-MW-4-012716

Lab Sample ID: 480-94461-2

Date Collected: 01/27/16 09:15

Matrix: Water

Date Received: 01/28/16 13:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		50	41	ug/L			01/29/16 00:25	50
1,1,2,2-Tetrachloroethane	ND		50	11	ug/L			01/29/16 00:25	50
1,1,2-Trichloroethane	ND		50	12	ug/L			01/29/16 00:25	50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	16	ug/L			01/29/16 00:25	50
1,1-Dichloroethane	ND		50	19	ug/L			01/29/16 00:25	50
1,1-Dichloroethene	ND		50	15	ug/L			01/29/16 00:25	50
1,2,4-Trichlorobenzene	ND		50	21	ug/L			01/29/16 00:25	50
1,2-Dibromo-3-Chloropropane	ND		50	20	ug/L			01/29/16 00:25	50
1,2-Dibromoethane	ND		50	37	ug/L			01/29/16 00:25	50
1,2-Dichlorobenzene	ND		50	40	ug/L			01/29/16 00:25	50
1,2-Dichloroethane	ND		50	11	ug/L			01/29/16 00:25	50
1,2-Dichloropropane	ND		50	36	ug/L			01/29/16 00:25	50
1,3-Dichlorobenzene	ND		50	39	ug/L			01/29/16 00:25	50
1,4-Dichlorobenzene	ND		50	42	ug/L			01/29/16 00:25	50
2-Hexanone	ND		250	62	ug/L			01/29/16 00:25	50
2-Butanone (MEK)	ND		500	66	ug/L			01/29/16 00:25	50
4-Methyl-2-pentanone (MIBK)	ND		250	110	ug/L			01/29/16 00:25	50
Acetone	ND		500	150	ug/L			01/29/16 00:25	50
Benzene	21	J	50	21	ug/L			01/29/16 00:25	50
Bromodichloromethane	ND		50	20	ug/L			01/29/16 00:25	50
Bromoform	ND		50	13	ug/L			01/29/16 00:25	50
Bromomethane	ND		50	35	ug/L			01/29/16 00:25	50
Carbon disulfide	ND		50	9.5	ug/L			01/29/16 00:25	50
Carbon tetrachloride	ND		50	14	ug/L			01/29/16 00:25	50
Chlorobenzene	ND		50	38	ug/L			01/29/16 00:25	50
Dibromochloromethane	ND		50	16	ug/L			01/29/16 00:25	50
Chloroethane	ND		50	16	ug/L			01/29/16 00:25	50
Chloroform	ND		50	17	ug/L			01/29/16 00:25	50
Chloromethane	ND		50	18	ug/L			01/29/16 00:25	50
cis-1,2-Dichloroethene	ND		50	41	ug/L			01/29/16 00:25	50
cis-1,3-Dichloropropene	ND		50	18	ug/L			01/29/16 00:25	50
Cyclohexane	220		50	9.0	ug/L			01/29/16 00:25	50
Dichlorodifluoromethane	ND		50	34	ug/L			01/29/16 00:25	50
Ethylbenzene	1300		50	37	ug/L			01/29/16 00:25	50
Isopropylbenzene	ND		50	40	ug/L			01/29/16 00:25	50
Methyl acetate	ND		130	65	ug/L			01/29/16 00:25	50
Methyl tert-butyl ether	ND		50	8.0	ug/L			01/29/16 00:25	50
Methylcyclohexane	100		50	8.0	ug/L			01/29/16 00:25	50
Methylene Chloride	ND		50	22	ug/L			01/29/16 00:25	50
Styrene	ND		50	37	ug/L			01/29/16 00:25	50
Tetrachloroethene	ND		50	18	ug/L			01/29/16 00:25	50
Toluene	270		50	26	ug/L			01/29/16 00:25	50
trans-1,2-Dichloroethene	ND		50	45	ug/L			01/29/16 00:25	50
trans-1,3-Dichloropropene	ND		50	19	ug/L			01/29/16 00:25	50
Trichloroethene	ND		50	23	ug/L			01/29/16 00:25	50
Trichlorofluoromethane	ND		50	44	ug/L			01/29/16 00:25	50
Vinyl chloride	ND		50	45	ug/L			01/29/16 00:25	50
Xylenes, Total	2600		100	33	ug/L			01/29/16 00:25	50

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-94461-1

Client Sample ID: BCP-MW-4-012716

Lab Sample ID: 480-94461-2

Date Collected: 01/27/16 09:15

Matrix: Water

Date Received: 01/28/16 13:00

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	97		66 - 137		01/29/16 00:25	50
Toluene-d8 (Surr)	96		71 - 126		01/29/16 00:25	50
4-Bromofluorobenzene (Surr)	99		73 - 120		01/29/16 00:25	50
Dibromofluoromethane (Surr)	96		60 - 140		01/29/16 00:25	50

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-94461-1

Client Sample ID: BCP-MW-5-012716

Lab Sample ID: 480-94461-3

Date Collected: 01/27/16 15:00

Matrix: Water

Date Received: 01/28/16 13:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		50	41	ug/L			01/29/16 12:41	50
1,1,2,2-Tetrachloroethane	ND		50	11	ug/L			01/29/16 12:41	50
1,1,2-Trichloroethane	ND		50	12	ug/L			01/29/16 12:41	50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	16	ug/L			01/29/16 12:41	50
1,1-Dichloroethane	ND		50	19	ug/L			01/29/16 12:41	50
1,1-Dichloroethene	ND		50	15	ug/L			01/29/16 12:41	50
1,2,4-Trichlorobenzene	ND		50	21	ug/L			01/29/16 12:41	50
1,2-Dibromo-3-Chloropropane	ND		50	20	ug/L			01/29/16 12:41	50
1,2-Dibromoethane	ND		50	37	ug/L			01/29/16 12:41	50
1,2-Dichlorobenzene	ND		50	40	ug/L			01/29/16 12:41	50
1,2-Dichloroethane	ND		50	11	ug/L			01/29/16 12:41	50
1,2-Dichloropropane	ND		50	36	ug/L			01/29/16 12:41	50
1,3-Dichlorobenzene	ND		50	39	ug/L			01/29/16 12:41	50
1,4-Dichlorobenzene	ND		50	42	ug/L			01/29/16 12:41	50
2-Hexanone	ND		250	62	ug/L			01/29/16 12:41	50
2-Butanone (MEK)	ND		500	66	ug/L			01/29/16 12:41	50
4-Methyl-2-pentanone (MIBK)	ND		250	110	ug/L			01/29/16 12:41	50
Acetone	ND		500	150	ug/L			01/29/16 12:41	50
Benzene	1800		50	21	ug/L			01/29/16 12:41	50
Bromodichloromethane	ND		50	20	ug/L			01/29/16 12:41	50
Bromoform	ND		50	13	ug/L			01/29/16 12:41	50
Bromomethane	ND		50	35	ug/L			01/29/16 12:41	50
Carbon disulfide	ND		50	9.5	ug/L			01/29/16 12:41	50
Carbon tetrachloride	ND		50	14	ug/L			01/29/16 12:41	50
Chlorobenzene	ND		50	38	ug/L			01/29/16 12:41	50
Dibromochloromethane	ND		50	16	ug/L			01/29/16 12:41	50
Chloroethane	ND		50	16	ug/L			01/29/16 12:41	50
Chloroform	ND		50	17	ug/L			01/29/16 12:41	50
Chloromethane	ND		50	18	ug/L			01/29/16 12:41	50
cis-1,2-Dichloroethene	ND		50	41	ug/L			01/29/16 12:41	50
cis-1,3-Dichloropropene	ND		50	18	ug/L			01/29/16 12:41	50
Cyclohexane	250		50	9.0	ug/L			01/29/16 12:41	50
Dichlorodifluoromethane	ND		50	34	ug/L			01/29/16 12:41	50
Ethylbenzene	1900		50	37	ug/L			01/29/16 12:41	50
Isopropylbenzene	ND		50	40	ug/L			01/29/16 12:41	50
Methyl acetate	ND		130	65	ug/L			01/29/16 12:41	50
Methyl tert-butyl ether	ND		50	8.0	ug/L			01/29/16 12:41	50
Methylcyclohexane	100		50	8.0	ug/L			01/29/16 12:41	50
Methylene Chloride	ND		50	22	ug/L			01/29/16 12:41	50
Styrene	ND		50	37	ug/L			01/29/16 12:41	50
Tetrachloroethene	ND		50	18	ug/L			01/29/16 12:41	50
Toluene	80		50	26	ug/L			01/29/16 12:41	50
trans-1,2-Dichloroethene	ND		50	45	ug/L			01/29/16 12:41	50
trans-1,3-Dichloropropene	ND		50	19	ug/L			01/29/16 12:41	50
Trichloroethene	ND		50	23	ug/L			01/29/16 12:41	50
Trichlorofluoromethane	ND		50	44	ug/L			01/29/16 12:41	50
Vinyl chloride	ND		50	45	ug/L			01/29/16 12:41	50
Xylenes, Total	3100		100	33	ug/L			01/29/16 12:41	50

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-94461-1

Client Sample ID: BCP-MW-5-012716

Lab Sample ID: 480-94461-3

Date Collected: 01/27/16 15:00

Matrix: Water

Date Received: 01/28/16 13:00

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	77		66 - 137		01/29/16 12:41	50
Toluene-d8 (Surr)	88		71 - 126		01/29/16 12:41	50
4-Bromofluorobenzene (Surr)	116		73 - 120		01/29/16 12:41	50
Dibromofluoromethane (Surr)	81		60 - 140		01/29/16 12:41	50

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-94461-1

Client Sample ID: BCP-MW-6-012716

Lab Sample ID: 480-94461-4

Date Collected: 01/27/16 13:00

Matrix: Water

Date Received: 01/28/16 13:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			01/29/16 13:05	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			01/29/16 13:05	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			01/29/16 13:05	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			01/29/16 13:05	5
1,1-Dichloroethane	ND		5.0	1.9	ug/L			01/29/16 13:05	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			01/29/16 13:05	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			01/29/16 13:05	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			01/29/16 13:05	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			01/29/16 13:05	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			01/29/16 13:05	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			01/29/16 13:05	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			01/29/16 13:05	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			01/29/16 13:05	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			01/29/16 13:05	5
2-Hexanone	ND		25	6.2	ug/L			01/29/16 13:05	5
2-Butanone (MEK)	ND		50	6.6	ug/L			01/29/16 13:05	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			01/29/16 13:05	5
Acetone	ND		50	15	ug/L			01/29/16 13:05	5
Benzene	230		5.0	2.1	ug/L			01/29/16 13:05	5
Bromodichloromethane	ND		5.0	2.0	ug/L			01/29/16 13:05	5
Bromoform	ND		5.0	1.3	ug/L			01/29/16 13:05	5
Bromomethane	ND		5.0	3.5	ug/L			01/29/16 13:05	5
Carbon disulfide	ND		5.0	0.95	ug/L			01/29/16 13:05	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			01/29/16 13:05	5
Chlorobenzene	ND		5.0	3.8	ug/L			01/29/16 13:05	5
Dibromochloromethane	ND		5.0	1.6	ug/L			01/29/16 13:05	5
Chloroethane	ND		5.0	1.6	ug/L			01/29/16 13:05	5
Chloroform	ND		5.0	1.7	ug/L			01/29/16 13:05	5
Chloromethane	ND		5.0	1.8	ug/L			01/29/16 13:05	5
cis-1,2-Dichloroethene	ND		5.0	4.1	ug/L			01/29/16 13:05	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			01/29/16 13:05	5
Cyclohexane	110		5.0	0.90	ug/L			01/29/16 13:05	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			01/29/16 13:05	5
Ethylbenzene	44		5.0	3.7	ug/L			01/29/16 13:05	5
Isopropylbenzene	ND		5.0	4.0	ug/L			01/29/16 13:05	5
Methyl acetate	ND		13	6.5	ug/L			01/29/16 13:05	5
Methyl tert-butyl ether	ND		5.0	0.80	ug/L			01/29/16 13:05	5
Methylcyclohexane	21		5.0	0.80	ug/L			01/29/16 13:05	5
Methylene Chloride	ND		5.0	2.2	ug/L			01/29/16 13:05	5
Styrene	ND		5.0	3.7	ug/L			01/29/16 13:05	5
Tetrachloroethene	ND		5.0	1.8	ug/L			01/29/16 13:05	5
Toluene	120		5.0	2.6	ug/L			01/29/16 13:05	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			01/29/16 13:05	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			01/29/16 13:05	5
Trichloroethene	ND		5.0	2.3	ug/L			01/29/16 13:05	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			01/29/16 13:05	5
Vinyl chloride	ND		5.0	4.5	ug/L			01/29/16 13:05	5
Xylenes, Total	190		10	3.3	ug/L			01/29/16 13:05	5

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-94461-1

Client Sample ID: BCP-MW-6-012716

Lab Sample ID: 480-94461-4

Date Collected: 01/27/16 13:00

Matrix: Water

Date Received: 01/28/16 13:00

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	80		66 - 137		01/29/16 13:05	5
Toluene-d8 (Surr)	90		71 - 126		01/29/16 13:05	5
4-Bromofluorobenzene (Surr)	114		73 - 120		01/29/16 13:05	5
Dibromofluoromethane (Surr)	84		60 - 140		01/29/16 13:05	5

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-94461-1

Client Sample ID: DS-012716

Date Collected: 01/27/16 11:30

Date Received: 01/28/16 13:00

Lab Sample ID: 480-94461-5

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/29/16 01:41	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/29/16 01:41	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/29/16 01:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			01/29/16 01:41	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/29/16 01:41	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/29/16 01:41	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			01/29/16 01:41	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/29/16 01:41	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/29/16 01:41	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/29/16 01:41	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/29/16 01:41	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/29/16 01:41	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			01/29/16 01:41	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/29/16 01:41	1
2-Hexanone	ND		5.0	1.2	ug/L			01/29/16 01:41	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/29/16 01:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/29/16 01:41	1
Acetone	ND		10	3.0	ug/L			01/29/16 01:41	1
Benzene	ND		1.0	0.41	ug/L			01/29/16 01:41	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/29/16 01:41	1
Bromoform	ND		1.0	0.26	ug/L			01/29/16 01:41	1
Bromomethane	ND		1.0	0.69	ug/L			01/29/16 01:41	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/29/16 01:41	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/29/16 01:41	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/29/16 01:41	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/29/16 01:41	1
Chloroethane	ND		1.0	0.32	ug/L			01/29/16 01:41	1
Chloroform	ND		1.0	0.34	ug/L			01/29/16 01:41	1
Chloromethane	ND		1.0	0.35	ug/L			01/29/16 01:41	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/29/16 01:41	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/29/16 01:41	1
Cyclohexane	ND		1.0	0.18	ug/L			01/29/16 01:41	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			01/29/16 01:41	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/29/16 01:41	1
Isopropylbenzene	ND		1.0	0.79	ug/L			01/29/16 01:41	1
Methyl acetate	ND		2.5	1.3	ug/L			01/29/16 01:41	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			01/29/16 01:41	1
Methylcyclohexane	ND		1.0	0.16	ug/L			01/29/16 01:41	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/29/16 01:41	1
Styrene	ND		1.0	0.73	ug/L			01/29/16 01:41	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/29/16 01:41	1
Toluene	ND		1.0	0.51	ug/L			01/29/16 01:41	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/29/16 01:41	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/29/16 01:41	1
Trichloroethene	ND		1.0	0.46	ug/L			01/29/16 01:41	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/29/16 01:41	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/29/16 01:41	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/29/16 01:41	1

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-94461-1

Client Sample ID: DS-012716

Date Collected: 01/27/16 11:30

Date Received: 01/28/16 13:00

Lab Sample ID: 480-94461-5

Matrix: Water

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	101		66 - 137		01/29/16 01:41	1
Toluene-d8 (Surr)	97		71 - 126		01/29/16 01:41	1
4-Bromofluorobenzene (Surr)	99		73 - 120		01/29/16 01:41	1
Dibromofluoromethane (Surr)	104		60 - 140		01/29/16 01:41	1

Surrogate Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-94461-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (66-137)	TOL (71-126)	BFB (73-120)	DBFM (60-140)
480-94461-1	BCP-MW-3-012716	95	97	102	98
480-94461-2	BCP-MW-4-012716	97	96	99	96
480-94461-3	BCP-MW-5-012716	77	88	116	81
480-94461-4	BCP-MW-6-012716	80	90	114	84
480-94461-5	DS-012716	101	97	99	104
LCS 480-285412/5	Lab Control Sample	92	102	102	99
LCS 480-285469/5	Lab Control Sample	79	87	114	84
LCSD 480-285469/6	Lab Control Sample Dup	80	90	115	85
MB 480-285412/7	Method Blank	96	98	98	100
MB 480-285469/8	Method Blank	78	89	113	83

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-94461-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-285412/7

Matrix: Water

Analysis Batch: 285412

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/28/16 22:19	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/28/16 22:19	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/28/16 22:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			01/28/16 22:19	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/28/16 22:19	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/28/16 22:19	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			01/28/16 22:19	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/28/16 22:19	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/28/16 22:19	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/28/16 22:19	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/28/16 22:19	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/28/16 22:19	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			01/28/16 22:19	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/28/16 22:19	1
2-Hexanone	ND		5.0	1.2	ug/L			01/28/16 22:19	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/28/16 22:19	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/28/16 22:19	1
Acetone	ND		10	3.0	ug/L			01/28/16 22:19	1
Benzene	ND		1.0	0.41	ug/L			01/28/16 22:19	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/28/16 22:19	1
Bromoform	ND		1.0	0.26	ug/L			01/28/16 22:19	1
Bromomethane	ND		1.0	0.69	ug/L			01/28/16 22:19	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/28/16 22:19	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/28/16 22:19	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/28/16 22:19	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/28/16 22:19	1
Chloroethane	ND		1.0	0.32	ug/L			01/28/16 22:19	1
Chloroform	ND		1.0	0.34	ug/L			01/28/16 22:19	1
Chloromethane	ND		1.0	0.35	ug/L			01/28/16 22:19	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/28/16 22:19	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/28/16 22:19	1
Cyclohexane	ND		1.0	0.18	ug/L			01/28/16 22:19	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			01/28/16 22:19	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/28/16 22:19	1
Isopropylbenzene	ND		1.0	0.79	ug/L			01/28/16 22:19	1
Methyl acetate	ND		2.5	1.3	ug/L			01/28/16 22:19	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			01/28/16 22:19	1
Methylcyclohexane	ND		1.0	0.16	ug/L			01/28/16 22:19	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/28/16 22:19	1
Styrene	ND		1.0	0.73	ug/L			01/28/16 22:19	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/28/16 22:19	1
Toluene	ND		1.0	0.51	ug/L			01/28/16 22:19	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/28/16 22:19	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/28/16 22:19	1
Trichloroethene	ND		1.0	0.46	ug/L			01/28/16 22:19	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/28/16 22:19	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/28/16 22:19	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/28/16 22:19	1

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-94461-1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		66 - 137		01/28/16 22:19	1
Toluene-d8 (Surr)	98		71 - 126		01/28/16 22:19	1
4-Bromofluorobenzene (Surr)	98		73 - 120		01/28/16 22:19	1
Dibromofluoromethane (Surr)	100		60 - 140		01/28/16 22:19	1

Lab Sample ID: LCS 480-285412/5

Matrix: Water

Analysis Batch: 285412

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	21.7		ug/L		87	73 - 126
1,1,2,2-Tetrachloroethane	25.0	23.9		ug/L		96	70 - 126
1,1,2-Trichloroethane	25.0	24.7		ug/L		99	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	21.5		ug/L		86	52 - 148
1,1-Dichloroethane	25.0	23.1		ug/L		92	71 - 129
1,1-Dichloroethene	25.0	21.6		ug/L		86	58 - 121
1,2,4-Trichlorobenzene	25.0	24.7		ug/L		99	70 - 122
1,2-Dibromo-3-Chloropropane	25.0	19.4		ug/L		78	56 - 134
1,2-Dibromoethane	25.0	24.2		ug/L		97	77 - 120
1,2-Dichlorobenzene	25.0	23.3		ug/L		93	80 - 124
1,2-Dichloroethane	25.0	20.7		ug/L		83	75 - 127
1,2-Dichloropropane	25.0	25.3		ug/L		101	76 - 120
1,3-Dichlorobenzene	25.0	23.6		ug/L		94	77 - 120
1,4-Dichlorobenzene	25.0	23.4		ug/L		94	75 - 120
2-Hexanone	125	108		ug/L		87	65 - 127
2-Butanone (MEK)	125	107		ug/L		86	57 - 140
4-Methyl-2-pentanone (MIBK)	125	109		ug/L		87	71 - 125
Acetone	125	102		ug/L		81	56 - 142
Benzene	25.0	24.6		ug/L		98	71 - 124
Bromodichloromethane	25.0	22.6		ug/L		90	80 - 122
Bromoform	25.0	25.1		ug/L		100	52 - 132
Bromomethane	25.0	24.3		ug/L		97	55 - 144
Carbon disulfide	25.0	21.4		ug/L		86	59 - 134
Carbon tetrachloride	25.0	22.2		ug/L		89	72 - 134
Chlorobenzene	25.0	24.6		ug/L		98	72 - 120
Dibromochloromethane	25.0	23.6		ug/L		95	75 - 125
Chloroethane	25.0	24.5		ug/L		98	69 - 136
Chloroform	25.0	21.8		ug/L		87	73 - 127
Chloromethane	25.0	19.5		ug/L		78	68 - 124
cis-1,2-Dichloroethene	25.0	23.7		ug/L		95	74 - 124
cis-1,3-Dichloropropene	25.0	24.3		ug/L		97	74 - 124
Cyclohexane	25.0	22.8		ug/L		91	59 - 135
Dichlorodifluoromethane	25.0	17.7		ug/L		71	59 - 135
Ethylbenzene	25.0	23.9		ug/L		95	77 - 123
Isopropylbenzene	25.0	22.3		ug/L		89	77 - 122
Methyl acetate	125	107		ug/L		85	74 - 133
Methyl tert-butyl ether	25.0	22.6		ug/L		90	64 - 127
Methylcyclohexane	25.0	23.9		ug/L		96	61 - 138
Methylene Chloride	25.0	23.9		ug/L		96	57 - 132
Styrene	25.0	24.5		ug/L		98	70 - 130
Tetrachloroethene	25.0	25.7		ug/L		103	74 - 122
Toluene	25.0	24.7		ug/L		99	80 - 122
trans-1,2-Dichloroethene	25.0	23.4		ug/L		94	73 - 127

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-94461-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-285412/5

Matrix: Water

Analysis Batch: 285412

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	25.0	23.6		ug/L		94	74 - 123
Trichlorofluoromethane	25.0	22.6		ug/L		90	62 - 152
Vinyl chloride	25.0	21.6		ug/L		87	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		66 - 137
Toluene-d8 (Surr)	102		71 - 126
4-Bromofluorobenzene (Surr)	102		73 - 120
Dibromofluoromethane (Surr)	99		60 - 140

Lab Sample ID: MB 480-285469/8

Matrix: Water

Analysis Batch: 285469

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/29/16 12:02	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/29/16 12:02	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/29/16 12:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			01/29/16 12:02	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/29/16 12:02	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/29/16 12:02	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			01/29/16 12:02	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/29/16 12:02	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/29/16 12:02	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/29/16 12:02	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/29/16 12:02	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/29/16 12:02	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			01/29/16 12:02	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/29/16 12:02	1
2-Hexanone	ND		5.0	1.2	ug/L			01/29/16 12:02	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/29/16 12:02	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/29/16 12:02	1
Acetone	ND		10	3.0	ug/L			01/29/16 12:02	1
Benzene	ND		1.0	0.41	ug/L			01/29/16 12:02	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/29/16 12:02	1
Bromoform	ND		1.0	0.26	ug/L			01/29/16 12:02	1
Bromomethane	ND		1.0	0.69	ug/L			01/29/16 12:02	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/29/16 12:02	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/29/16 12:02	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/29/16 12:02	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/29/16 12:02	1
Chloroethane	ND		1.0	0.32	ug/L			01/29/16 12:02	1
Chloroform	ND		1.0	0.34	ug/L			01/29/16 12:02	1
Chloromethane	ND		1.0	0.35	ug/L			01/29/16 12:02	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/29/16 12:02	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/29/16 12:02	1
Cyclohexane	ND		1.0	0.18	ug/L			01/29/16 12:02	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			01/29/16 12:02	1

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-94461-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-285469/8

Matrix: Water

Analysis Batch: 285469

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.0	0.74	ug/L			01/29/16 12:02	1
Isopropylbenzene	ND		1.0	0.79	ug/L			01/29/16 12:02	1
Methyl acetate	ND		2.5	1.3	ug/L			01/29/16 12:02	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			01/29/16 12:02	1
Methylcyclohexane	ND		1.0	0.16	ug/L			01/29/16 12:02	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/29/16 12:02	1
Styrene	ND		1.0	0.73	ug/L			01/29/16 12:02	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/29/16 12:02	1
Toluene	ND		1.0	0.51	ug/L			01/29/16 12:02	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/29/16 12:02	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/29/16 12:02	1
Trichloroethene	ND		1.0	0.46	ug/L			01/29/16 12:02	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/29/16 12:02	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/29/16 12:02	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/29/16 12:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	78		66 - 137		01/29/16 12:02	1
Toluene-d8 (Surr)	89		71 - 126		01/29/16 12:02	1
4-Bromofluorobenzene (Surr)	113		73 - 120		01/29/16 12:02	1
Dibromofluoromethane (Surr)	83		60 - 140		01/29/16 12:02	1

Lab Sample ID: LCS 480-285469/5

Matrix: Water

Analysis Batch: 285469

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	26.7		ug/L		107	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.7		ug/L		103	70 - 126
1,1,2-Trichloroethane	25.0	23.9		ug/L		96	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.3		ug/L		97	52 - 148
1,1-Dichloroethane	25.0	24.9		ug/L		99	71 - 129
1,1-Dichloroethene	25.0	25.1		ug/L		100	58 - 121
1,2,4-Trichlorobenzene	25.0	28.3		ug/L		113	70 - 122
1,2-Dibromo-3-Chloropropane	25.0	27.6		ug/L		111	56 - 134
1,2-Dibromoethane	25.0	25.0		ug/L		100	77 - 120
1,2-Dichlorobenzene	25.0	25.1		ug/L		100	80 - 124
1,2-Dichloroethane	25.0	24.7		ug/L		99	75 - 127
1,2-Dichloropropane	25.0	25.1		ug/L		100	76 - 120
1,3-Dichlorobenzene	25.0	25.4		ug/L		102	77 - 120
1,4-Dichlorobenzene	25.0	26.5		ug/L		106	75 - 120
2-Hexanone	125	125		ug/L		100	65 - 127
2-Butanone (MEK)	125	136		ug/L		109	57 - 140
4-Methyl-2-pentanone (MIBK)	125	125		ug/L		100	71 - 125
Acetone	125	143		ug/L		114	56 - 142
Benzene	25.0	24.3		ug/L		97	71 - 124
Bromodichloromethane	25.0	26.6		ug/L		106	80 - 122

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-94461-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-285469/5

Matrix: Water

Analysis Batch: 285469

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	25.0	29.1		ug/L		116	52 - 132
Bromomethane	25.0	22.7		ug/L		91	55 - 144
Carbon disulfide	25.0	24.6		ug/L		98	59 - 134
Carbon tetrachloride	25.0	29.4		ug/L		118	72 - 134
Chlorobenzene	25.0	25.0		ug/L		100	72 - 120
Dibromochloromethane	25.0	28.6		ug/L		115	75 - 125
Chloroethane	25.0	24.0		ug/L		96	69 - 136
Chloroform	25.0	24.5		ug/L		98	73 - 127
Chloromethane	25.0	23.4		ug/L		93	68 - 124
cis-1,2-Dichloroethene	25.0	25.7		ug/L		103	74 - 124
cis-1,3-Dichloropropene	25.0	25.7		ug/L		103	74 - 124
Cyclohexane	25.0	26.4		ug/L		106	59 - 135
Dichlorodifluoromethane	25.0	22.4		ug/L		90	59 - 135
Ethylbenzene	25.0	24.8		ug/L		99	77 - 123
Isopropylbenzene	25.0	26.5		ug/L		106	77 - 122
Methyl acetate	125	130		ug/L		104	74 - 133
Methyl tert-butyl ether	25.0	24.3		ug/L		97	64 - 127
Methylcyclohexane	25.0	25.9		ug/L		104	61 - 138
Methylene Chloride	25.0	23.3		ug/L		93	57 - 132
Styrene	25.0	25.3		ug/L		101	70 - 130
Tetrachloroethene	25.0	26.6		ug/L		106	74 - 122
Toluene	25.0	25.4		ug/L		101	80 - 122
trans-1,2-Dichloroethene	25.0	24.7		ug/L		99	73 - 127
Trichloroethene	25.0	25.5		ug/L		102	74 - 123
Trichlorofluoromethane	25.0	25.9		ug/L		104	62 - 152
Vinyl chloride	25.0	25.0		ug/L		100	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	79		66 - 137
Toluene-d8 (Surr)	87		71 - 126
4-Bromofluorobenzene (Surr)	114		73 - 120
Dibromofluoromethane (Surr)	84		60 - 140

Lab Sample ID: LCSD 480-285469/6

Matrix: Water

Analysis Batch: 285469

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	25.0	25.7		ug/L		103	73 - 126	4	15
1,1,2,2-Tetrachloroethane	25.0	24.6		ug/L		98	70 - 126	4	15
1,1,2-Trichloroethane	25.0	23.5		ug/L		94	76 - 122	2	15
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.8		ug/L		91	52 - 148	6	20
1,1-Dichloroethane	25.0	24.1		ug/L		97	71 - 129	3	20
1,1-Dichloroethene	25.0	24.3		ug/L		97	58 - 121	3	16
1,2,4-Trichlorobenzene	25.0	27.4		ug/L		110	70 - 122	3	20
1,2-Dibromo-3-Chloropropane	25.0	27.2		ug/L		109	56 - 134	2	15
1,2-Dibromoethane	25.0	24.3		ug/L		97	77 - 120	3	15

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-94461-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 480-285469/6

Matrix: Water

Analysis Batch: 285469

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	25.0	24.0		ug/L		96	80 - 124	5	20
1,2-Dichloroethane	25.0	23.7		ug/L		95	75 - 127	4	20
1,2-Dichloropropane	25.0	23.9		ug/L		96	76 - 120	5	20
1,3-Dichlorobenzene	25.0	24.1		ug/L		96	77 - 120	5	20
1,4-Dichlorobenzene	25.0	24.9		ug/L		99	75 - 120	6	20
2-Hexanone	125	123		ug/L		98	65 - 127	1	15
2-Butanone (MEK)	125	124		ug/L		100	57 - 140	9	20
4-Methyl-2-pentanone (MIBK)	125	125		ug/L		100	71 - 125	0	35
Acetone	125	134		ug/L		107	56 - 142	6	15
Benzene	25.0	23.7		ug/L		95	71 - 124	3	13
Bromodichloromethane	25.0	26.6		ug/L		106	80 - 122	0	15
Bromoform	25.0	30.0		ug/L		120	52 - 132	3	15
Bromomethane	25.0	22.6		ug/L		90	55 - 144	0	15
Carbon disulfide	25.0	23.2		ug/L		93	59 - 134	6	15
Carbon tetrachloride	25.0	28.0		ug/L		112	72 - 134	5	15
Chlorobenzene	25.0	24.8		ug/L		99	72 - 120	1	25
Dibromochloromethane	25.0	28.6		ug/L		114	75 - 125	0	15
Chloroethane	25.0	23.2		ug/L		93	69 - 136	3	15
Chloroform	25.0	23.8		ug/L		95	73 - 127	3	20
Chloromethane	25.0	22.4		ug/L		90	68 - 124	4	15
cis-1,2-Dichloroethene	25.0	25.2		ug/L		101	74 - 124	2	15
cis-1,3-Dichloropropene	25.0	25.8		ug/L		103	74 - 124	0	15
Cyclohexane	25.0	24.8		ug/L		99	59 - 135	6	20
Dichlorodifluoromethane	25.0	20.6		ug/L		82	59 - 135	8	20
Ethylbenzene	25.0	24.2		ug/L		97	77 - 123	2	15
Isopropylbenzene	25.0	24.1		ug/L		96	77 - 122	10	20
Methyl acetate	125	128		ug/L		102	74 - 133	2	20
Methyl tert-butyl ether	25.0	24.5		ug/L		98	64 - 127	1	37
Methylcyclohexane	25.0	24.5		ug/L		98	61 - 138	6	20
Methylene Chloride	25.0	22.6		ug/L		91	57 - 132	3	15
Styrene	25.0	25.1		ug/L		100	70 - 130	1	20
Tetrachloroethene	25.0	25.9		ug/L		104	74 - 122	3	20
Toluene	25.0	23.7		ug/L		95	80 - 122	7	15
trans-1,2-Dichloroethene	25.0	23.3		ug/L		93	73 - 127	6	20
Trichloroethene	25.0	24.3		ug/L		97	74 - 123	5	16
Trichlorofluoromethane	25.0	23.9		ug/L		96	62 - 152	8	20
Vinyl chloride	25.0	23.3		ug/L		93	65 - 133	7	15

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	80		66 - 137
Toluene-d8 (Surr)	90		71 - 126
4-Bromofluorobenzene (Surr)	115		73 - 120
Dibromofluoromethane (Surr)	85		60 - 140

TestAmerica Buffalo

QC Association Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-94461-1

GC/MS VOA

Analysis Batch: 285412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-94461-1	BCP-MW-3-012716	Total/NA	Water	8260C	
480-94461-2	BCP-MW-4-012716	Total/NA	Water	8260C	
480-94461-5	DS-012716	Total/NA	Water	8260C	
LCS 480-285412/5	Lab Control Sample	Total/NA	Water	8260C	
MB 480-285412/7	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 285469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-94461-3	BCP-MW-5-012716	Total/NA	Water	8260C	
480-94461-4	BCP-MW-6-012716	Total/NA	Water	8260C	
LCS 480-285469/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-285469/6	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-285469/8	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-94461-1

Client Sample ID: BCP-MW-3-012716

Date Collected: 01/27/16 12:00

Date Received: 01/28/16 13:00

Lab Sample ID: 480-94461-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		50	285412	01/29/16 00:00	GTG	TAL BUF

Client Sample ID: BCP-MW-4-012716

Date Collected: 01/27/16 09:15

Date Received: 01/28/16 13:00

Lab Sample ID: 480-94461-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		50	285412	01/29/16 00:25	GTG	TAL BUF

Client Sample ID: BCP-MW-5-012716

Date Collected: 01/27/16 15:00

Date Received: 01/28/16 13:00

Lab Sample ID: 480-94461-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		50	285469	01/29/16 12:41	SWO	TAL BUF

Client Sample ID: BCP-MW-6-012716

Date Collected: 01/27/16 13:00

Date Received: 01/28/16 13:00

Lab Sample ID: 480-94461-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	285469	01/29/16 13:05	SWO	TAL BUF

Client Sample ID: DS-012716

Date Collected: 01/27/16 11:30

Date Received: 01/28/16 13:00

Lab Sample ID: 480-94461-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	285412	01/29/16 01:41	GTG	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-94461-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-16

1

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Method Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-94461-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-94461-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-94461-1	BCP-MW-3-012716	Water	01/27/16 12:00	01/28/16 13:00
480-94461-2	BCP-MW-4-012716	Water	01/27/16 09:15	01/28/16 13:00
480-94461-3	BCP-MW-5-012716	Water	01/27/16 15:00	01/28/16 13:00
480-94461-4	BCP-MW-6-012716	Water	01/27/16 13:00	01/28/16 13:00
480-94461-5	DS-012716	Water	01/27/16 11:30	01/28/16 13:00

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Chain of Custody Record

Temperature on Receipt _____
Drinking Water? Yes ☐ No ☒

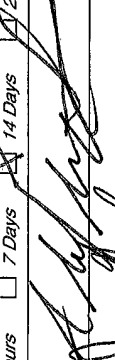
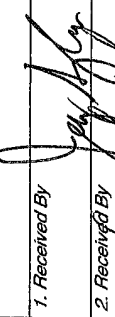
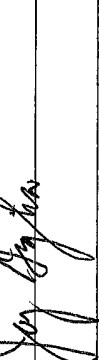
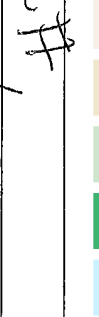
TAL-4124 (1007)

Client C&S Engineers, Inc		Project Manager		Date 1/28/16		Chain of Custody Number 290460	
Address 141 EPM Street		Telephone Number (Area Code)/Fax Number 955-3021		Lab Number		Page 1 of 1	
City Buffalo		State NY		Zip Code 14203		Analysis (Attach list if more space is needed)	
Project Name and Location (State) MOB- well Sampling		Carrier/Maybill Number		Lab Contact		Special Instructions/ Conditions of Receipt	
Contract/Purchase Order/Quote No. N46-001-001							

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix			Containers & Preservatives											
			Air	Aqueous	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH						
BCP-MW-3-012716	1/27/16	12:00	X														
BCP-MW-4-012716		9:15	X														
BCP-MW-5-012716		3:00	X														
BCP-MW-6-012716		1:00	X														
DS-012716		11:30	X														



480-94461 Chain of Custody

Possible Hazard Identification		Sample Disposal		Disposal By Lab		Archive For		(A fee may be assessed if samples are retained longer than 1 month)	
☒ Non-Hazard	☐ Flammable	☐ Skin Irritant	☐ Poison B	☐ Unknown	☒ Return To Client	☐ Disposal By Lab	☐ Archive For		
Turn Around Time Required		Relinquished By		Relinquished By		Relinquished By			
☐ 24 Hours	☐ 48 Hours	☒ 7 Days	☒ 14 Days	☐ 21 Days	☐ Other	1. Received By		Date	Time
								1/28/16	12:30
								1/28/16	13:00
								1/28/16	13:00

Comments
#2 3.7

Login Sample Receipt Checklist

Client: C&S Engineers, Inc.

Job Number: 480-94461-1

Login Number: 94461

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wallace, Cameron

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	c+s
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-97046-1

Client Project/Site: Well Sampling - MOB

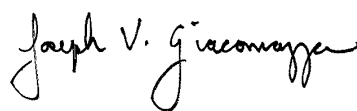
For:

C&S Engineers, Inc.

499 Col. Eileen Collins Blvd

Syracuse, New York 13212

Attn: Mr. Mark Colmerauer



Authorized for release by:

4/1/2016 11:07:00 AM

Joe Giacomazza, Project Management Assistant II

joe.giacomazza@testamericainc.com

Designee for

Judy Stone, Senior Project Manager

(484)685-0868

judy.stone@testamericainc.com

LINKS

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results through

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-97046-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-97046-1

Job ID: 480-97046-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-97046-1

Receipt

The samples were received on 3/24/2016 2:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.0° C.

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-293210 recovered above the upper control limit for Carbon tetrachloride. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The following samples are impacted: BCP-MW-7-032216 (480-97046-1), BCP-MW-1-032216 (480-97046-2), BCP-MW-4-032216 (480-97046-4) and BCP-MW-3-032216 (480-97046-5).

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: BCP-MW-4-032216 (480-97046-4) and BCP-MW-3-032216 (480-97046-5). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-293355 recovered above the upper control limit for 2-Butanone (MEK), Carbon tetrachloride and trans-1,3-Dichloropropene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: BCP-MW-6-032216 (480-97046-3) and BCP-MW-5-032216 (480-97046-6).

Method(s) 8260C: The laboratory control sample (LCS) for batch analytical batch 480-293355 recovered outside control limits for the following analytes: Acetone and trans-1,3-Dichloropropene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The following samples are impacted: BCP-MW-6-032216 (480-97046-3) and BCP-MW-5-032216 (480-97046-6).

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: BCP-MW-6-032216 (480-97046-3), BCP-MW-5-032216 (480-97046-6), (480-97046-B-6 MS) and (480-97046-B-6 MSD). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-97046-1

Client Sample ID: BCP-MW-7-032216

Lab Sample ID: 480-97046-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	0.99	J	2.0	0.66	ug/L	1		8260C	Total/NA

Client Sample ID: BCP-MW-1-032216

Lab Sample ID: 480-97046-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloroethane	0.33	J	1.0	0.23	ug/L	1		8260C	Total/NA
Benzene	1.4		1.0	0.41	ug/L	1		8260C	Total/NA
Cyclohexane	51		1.0	0.18	ug/L	1		8260C	Total/NA
Methylcyclohexane	11		1.0	0.16	ug/L	1		8260C	Total/NA

Client Sample ID: BCP-MW-6-032216

Lab Sample ID: 480-97046-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	200		10	4.1	ug/L	10		8260C	Total/NA
Cyclohexane	110		10	1.8	ug/L	10		8260C	Total/NA
Ethylbenzene	67		10	7.4	ug/L	10		8260C	Total/NA
Methylcyclohexane	10		10	1.6	ug/L	10		8260C	Total/NA
Toluene	78		10	5.1	ug/L	10		8260C	Total/NA
Xylenes, Total	130		20	6.6	ug/L	10		8260C	Total/NA

Client Sample ID: BCP-MW-4-032216

Lab Sample ID: 480-97046-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyclohexane	250		50	9.0	ug/L	50		8260C	Total/NA
Ethylbenzene	1400		50	37	ug/L	50		8260C	Total/NA
Methylcyclohexane	110		50	8.0	ug/L	50		8260C	Total/NA
Toluene	150		50	26	ug/L	50		8260C	Total/NA
Xylenes, Total	2100		100	33	ug/L	50		8260C	Total/NA

Client Sample ID: BCP-MW-3-032216

Lab Sample ID: 480-97046-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1900		50	21	ug/L	50		8260C	Total/NA
Cyclohexane	110		50	9.0	ug/L	50		8260C	Total/NA
Ethylbenzene	1600		50	37	ug/L	50		8260C	Total/NA
Methylcyclohexane	36	J	50	8.0	ug/L	50		8260C	Total/NA
Toluene	110		50	26	ug/L	50		8260C	Total/NA
Xylenes, Total	2500		100	33	ug/L	50		8260C	Total/NA

Client Sample ID: BCP-MW-5-032216

Lab Sample ID: 480-97046-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1700		100	41	ug/L	100		8260C	Total/NA
Cyclohexane	280		100	18	ug/L	100		8260C	Total/NA
Ethylbenzene	2200		100	74	ug/L	100		8260C	Total/NA
Methylcyclohexane	100		100	16	ug/L	100		8260C	Total/NA
Methylene Chloride	77	J	100	44	ug/L	100		8260C	Total/NA
Toluene	88	J	100	51	ug/L	100		8260C	Total/NA
Xylenes, Total	3300		200	66	ug/L	100		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-97046-1

Client Sample ID: BCP-MW-7-032216

Lab Sample ID: 480-97046-1

Date Collected: 03/22/16 09:00

Matrix: Water

Date Received: 03/24/16 14:20

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/30/16 16:17	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/30/16 16:17	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/30/16 16:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/30/16 16:17	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/30/16 16:17	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/30/16 16:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/30/16 16:17	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/30/16 16:17	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/30/16 16:17	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/30/16 16:17	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/30/16 16:17	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/30/16 16:17	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/30/16 16:17	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/30/16 16:17	1
2-Hexanone	ND		5.0	1.2	ug/L			03/30/16 16:17	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/30/16 16:17	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/30/16 16:17	1
Acetone	ND		10	3.0	ug/L			03/30/16 16:17	1
Benzene	ND		1.0	0.41	ug/L			03/30/16 16:17	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/30/16 16:17	1
Bromoform	ND		1.0	0.26	ug/L			03/30/16 16:17	1
Bromomethane	ND		1.0	0.69	ug/L			03/30/16 16:17	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/30/16 16:17	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/30/16 16:17	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/30/16 16:17	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/30/16 16:17	1
Chloroethane	ND		1.0	0.32	ug/L			03/30/16 16:17	1
Chloroform	ND		1.0	0.34	ug/L			03/30/16 16:17	1
Chloromethane	ND		1.0	0.35	ug/L			03/30/16 16:17	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/30/16 16:17	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/30/16 16:17	1
Cyclohexane	ND		1.0	0.18	ug/L			03/30/16 16:17	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/30/16 16:17	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/30/16 16:17	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/30/16 16:17	1
Methyl acetate	ND		2.5	1.3	ug/L			03/30/16 16:17	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/30/16 16:17	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/30/16 16:17	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/30/16 16:17	1
Styrene	ND		1.0	0.73	ug/L			03/30/16 16:17	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/30/16 16:17	1
Toluene	ND		1.0	0.51	ug/L			03/30/16 16:17	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/30/16 16:17	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/30/16 16:17	1
Trichloroethene	ND		1.0	0.46	ug/L			03/30/16 16:17	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/30/16 16:17	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/30/16 16:17	1
Xylenes, Total	0.99	J	2.0	0.66	ug/L			03/30/16 16:17	1

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-97046-1

Client Sample ID: BCP-MW-7-032216

Lab Sample ID: 480-97046-1

Date Collected: 03/22/16 09:00

Matrix: Water

Date Received: 03/24/16 14:20

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	102		66 - 137		03/30/16 16:17	1
Toluene-d8 (Surr)	109		71 - 126		03/30/16 16:17	1
4-Bromofluorobenzene (Surr)	111		73 - 120		03/30/16 16:17	1
Dibromofluoromethane (Surr)	105		60 - 140		03/30/16 16:17	1

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-97046-1

Client Sample ID: BCP-MW-1-032216

Lab Sample ID: 480-97046-2

Date Collected: 03/22/16 10:00

Matrix: Water

Date Received: 03/24/16 14:20

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/30/16 16:40	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/30/16 16:40	1
1,1,2-Trichloroethane	0.33	J	1.0	0.23	ug/L			03/30/16 16:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/30/16 16:40	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/30/16 16:40	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/30/16 16:40	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/30/16 16:40	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/30/16 16:40	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/30/16 16:40	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/30/16 16:40	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/30/16 16:40	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/30/16 16:40	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/30/16 16:40	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/30/16 16:40	1
2-Hexanone	ND		5.0	1.2	ug/L			03/30/16 16:40	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/30/16 16:40	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/30/16 16:40	1
Acetone	ND		10	3.0	ug/L			03/30/16 16:40	1
Benzene	1.4		1.0	0.41	ug/L			03/30/16 16:40	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/30/16 16:40	1
Bromoform	ND		1.0	0.26	ug/L			03/30/16 16:40	1
Bromomethane	ND		1.0	0.69	ug/L			03/30/16 16:40	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/30/16 16:40	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/30/16 16:40	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/30/16 16:40	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/30/16 16:40	1
Chloroethane	ND		1.0	0.32	ug/L			03/30/16 16:40	1
Chloroform	ND		1.0	0.34	ug/L			03/30/16 16:40	1
Chloromethane	ND		1.0	0.35	ug/L			03/30/16 16:40	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/30/16 16:40	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/30/16 16:40	1
Cyclohexane	51		1.0	0.18	ug/L			03/30/16 16:40	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/30/16 16:40	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/30/16 16:40	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/30/16 16:40	1
Methyl acetate	ND		2.5	1.3	ug/L			03/30/16 16:40	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/30/16 16:40	1
Methylcyclohexane	11		1.0	0.16	ug/L			03/30/16 16:40	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/30/16 16:40	1
Styrene	ND		1.0	0.73	ug/L			03/30/16 16:40	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/30/16 16:40	1
Toluene	ND		1.0	0.51	ug/L			03/30/16 16:40	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/30/16 16:40	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/30/16 16:40	1
Trichloroethene	ND		1.0	0.46	ug/L			03/30/16 16:40	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/30/16 16:40	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/30/16 16:40	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/30/16 16:40	1

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-97046-1

Client Sample ID: BCP-MW-1-032216

Lab Sample ID: 480-97046-2

Date Collected: 03/22/16 10:00

Matrix: Water

Date Received: 03/24/16 14:20

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	111		66 - 137		03/30/16 16:40	1
Toluene-d8 (Surr)	108		71 - 126		03/30/16 16:40	1
4-Bromofluorobenzene (Surr)	110		73 - 120		03/30/16 16:40	1
Dibromofluoromethane (Surr)	104		60 - 140		03/30/16 16:40	1

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-97046-1

Client Sample ID: BCP-MW-6-032216

Lab Sample ID: 480-97046-3

Date Collected: 03/22/16 11:30

Matrix: Water

Date Received: 03/24/16 14:20

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			03/31/16 01:46	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			03/31/16 01:46	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			03/31/16 01:46	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1	ug/L			03/31/16 01:46	10
1,1-Dichloroethane	ND		10	3.8	ug/L			03/31/16 01:46	10
1,1-Dichloroethene	ND		10	2.9	ug/L			03/31/16 01:46	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			03/31/16 01:46	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			03/31/16 01:46	10
1,2-Dibromoethane	ND		10	7.3	ug/L			03/31/16 01:46	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			03/31/16 01:46	10
1,2-Dichloroethane	ND		10	2.1	ug/L			03/31/16 01:46	10
1,2-Dichloropropane	ND		10	7.2	ug/L			03/31/16 01:46	10
1,3-Dichlorobenzene	ND		10	7.8	ug/L			03/31/16 01:46	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			03/31/16 01:46	10
2-Hexanone	ND		50	12	ug/L			03/31/16 01:46	10
2-Butanone (MEK)	ND		100	13	ug/L			03/31/16 01:46	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			03/31/16 01:46	10
Acetone	ND	*	100	30	ug/L			03/31/16 01:46	10
Benzene	200		10	4.1	ug/L			03/31/16 01:46	10
Bromodichloromethane	ND		10	3.9	ug/L			03/31/16 01:46	10
Bromoform	ND		10	2.6	ug/L			03/31/16 01:46	10
Bromomethane	ND		10	6.9	ug/L			03/31/16 01:46	10
Carbon disulfide	ND		10	1.9	ug/L			03/31/16 01:46	10
Carbon tetrachloride	ND		10	2.7	ug/L			03/31/16 01:46	10
Chlorobenzene	ND		10	7.5	ug/L			03/31/16 01:46	10
Dibromochloromethane	ND		10	3.2	ug/L			03/31/16 01:46	10
Chloroethane	ND		10	3.2	ug/L			03/31/16 01:46	10
Chloroform	ND		10	3.4	ug/L			03/31/16 01:46	10
Chloromethane	ND		10	3.5	ug/L			03/31/16 01:46	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			03/31/16 01:46	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			03/31/16 01:46	10
Cyclohexane	110		10	1.8	ug/L			03/31/16 01:46	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			03/31/16 01:46	10
Ethylbenzene	67		10	7.4	ug/L			03/31/16 01:46	10
Isopropylbenzene	ND		10	7.9	ug/L			03/31/16 01:46	10
Methyl acetate	ND		25	13	ug/L			03/31/16 01:46	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			03/31/16 01:46	10
Methylcyclohexane	10		10	1.6	ug/L			03/31/16 01:46	10
Methylene Chloride	ND		10	4.4	ug/L			03/31/16 01:46	10
Styrene	ND		10	7.3	ug/L			03/31/16 01:46	10
Tetrachloroethene	ND		10	3.6	ug/L			03/31/16 01:46	10
Toluene	78		10	5.1	ug/L			03/31/16 01:46	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			03/31/16 01:46	10
trans-1,3-Dichloropropene	ND	*	10	3.7	ug/L			03/31/16 01:46	10
Trichloroethene	ND		10	4.6	ug/L			03/31/16 01:46	10
Trichlorofluoromethane	ND		10	8.8	ug/L			03/31/16 01:46	10
Vinyl chloride	ND		10	9.0	ug/L			03/31/16 01:46	10
Xylenes, Total	130		20	6.6	ug/L			03/31/16 01:46	10

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-97046-1

Client Sample ID: BCP-MW-6-032216

Lab Sample ID: 480-97046-3

Date Collected: 03/22/16 11:30

Matrix: Water

Date Received: 03/24/16 14:20

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	104		66 - 137		03/31/16 01:46	10
Toluene-d8 (Surr)	108		71 - 126		03/31/16 01:46	10
4-Bromofluorobenzene (Surr)	110		73 - 120		03/31/16 01:46	10
Dibromofluoromethane (Surr)	107		60 - 140		03/31/16 01:46	10

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-97046-1

Client Sample ID: BCP-MW-4-032216

Lab Sample ID: 480-97046-4

Date Collected: 03/22/16 13:00

Matrix: Water

Date Received: 03/24/16 14:20

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		50	41	ug/L			03/30/16 17:27	50
1,1,2,2-Tetrachloroethane	ND		50	11	ug/L			03/30/16 17:27	50
1,1,2-Trichloroethane	ND		50	12	ug/L			03/30/16 17:27	50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	16	ug/L			03/30/16 17:27	50
1,1-Dichloroethane	ND		50	19	ug/L			03/30/16 17:27	50
1,1-Dichloroethene	ND		50	15	ug/L			03/30/16 17:27	50
1,2,4-Trichlorobenzene	ND		50	21	ug/L			03/30/16 17:27	50
1,2-Dibromo-3-Chloropropane	ND		50	20	ug/L			03/30/16 17:27	50
1,2-Dibromoethane	ND		50	37	ug/L			03/30/16 17:27	50
1,2-Dichlorobenzene	ND		50	40	ug/L			03/30/16 17:27	50
1,2-Dichloroethane	ND		50	11	ug/L			03/30/16 17:27	50
1,2-Dichloropropane	ND		50	36	ug/L			03/30/16 17:27	50
1,3-Dichlorobenzene	ND		50	39	ug/L			03/30/16 17:27	50
1,4-Dichlorobenzene	ND		50	42	ug/L			03/30/16 17:27	50
2-Hexanone	ND		250	62	ug/L			03/30/16 17:27	50
2-Butanone (MEK)	ND		500	66	ug/L			03/30/16 17:27	50
4-Methyl-2-pentanone (MIBK)	ND		250	110	ug/L			03/30/16 17:27	50
Acetone	ND		500	150	ug/L			03/30/16 17:27	50
Benzene	ND		50	21	ug/L			03/30/16 17:27	50
Bromodichloromethane	ND		50	20	ug/L			03/30/16 17:27	50
Bromoform	ND		50	13	ug/L			03/30/16 17:27	50
Bromomethane	ND		50	35	ug/L			03/30/16 17:27	50
Carbon disulfide	ND		50	9.5	ug/L			03/30/16 17:27	50
Carbon tetrachloride	ND		50	14	ug/L			03/30/16 17:27	50
Chlorobenzene	ND		50	38	ug/L			03/30/16 17:27	50
Dibromochloromethane	ND		50	16	ug/L			03/30/16 17:27	50
Chloroethane	ND		50	16	ug/L			03/30/16 17:27	50
Chloroform	ND		50	17	ug/L			03/30/16 17:27	50
Chloromethane	ND		50	18	ug/L			03/30/16 17:27	50
cis-1,2-Dichloroethene	ND		50	41	ug/L			03/30/16 17:27	50
cis-1,3-Dichloropropene	ND		50	18	ug/L			03/30/16 17:27	50
Cyclohexane	250		50	9.0	ug/L			03/30/16 17:27	50
Dichlorodifluoromethane	ND		50	34	ug/L			03/30/16 17:27	50
Ethylbenzene	1400		50	37	ug/L			03/30/16 17:27	50
Isopropylbenzene	ND		50	40	ug/L			03/30/16 17:27	50
Methyl acetate	ND		130	65	ug/L			03/30/16 17:27	50
Methyl tert-butyl ether	ND		50	8.0	ug/L			03/30/16 17:27	50
Methylcyclohexane	110		50	8.0	ug/L			03/30/16 17:27	50
Methylene Chloride	ND		50	22	ug/L			03/30/16 17:27	50
Styrene	ND		50	37	ug/L			03/30/16 17:27	50
Tetrachloroethene	ND		50	18	ug/L			03/30/16 17:27	50
Toluene	150		50	26	ug/L			03/30/16 17:27	50
trans-1,2-Dichloroethene	ND		50	45	ug/L			03/30/16 17:27	50
trans-1,3-Dichloropropene	ND		50	19	ug/L			03/30/16 17:27	50
Trichloroethene	ND		50	23	ug/L			03/30/16 17:27	50
Trichlorofluoromethane	ND		50	44	ug/L			03/30/16 17:27	50
Vinyl chloride	ND		50	45	ug/L			03/30/16 17:27	50
Xylenes, Total	2100		100	33	ug/L			03/30/16 17:27	50

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-97046-1

Client Sample ID: BCP-MW-4-032216

Lab Sample ID: 480-97046-4

Date Collected: 03/22/16 13:00

Matrix: Water

Date Received: 03/24/16 14:20

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	103		66 - 137		03/30/16 17:27	50
Toluene-d8 (Surr)	108		71 - 126		03/30/16 17:27	50
4-Bromofluorobenzene (Surr)	110		73 - 120		03/30/16 17:27	50
Dibromofluoromethane (Surr)	106		60 - 140		03/30/16 17:27	50

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-97046-1

Client Sample ID: BCP-MW-3-032216

Lab Sample ID: 480-97046-5

Date Collected: 03/22/16 13:30

Matrix: Water

Date Received: 03/24/16 14:20

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		50	41	ug/L			03/30/16 17:50	50
1,1,2,2-Tetrachloroethane	ND		50	11	ug/L			03/30/16 17:50	50
1,1,2-Trichloroethane	ND		50	12	ug/L			03/30/16 17:50	50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	16	ug/L			03/30/16 17:50	50
1,1-Dichloroethane	ND		50	19	ug/L			03/30/16 17:50	50
1,1-Dichloroethene	ND		50	15	ug/L			03/30/16 17:50	50
1,2,4-Trichlorobenzene	ND		50	21	ug/L			03/30/16 17:50	50
1,2-Dibromo-3-Chloropropane	ND		50	20	ug/L			03/30/16 17:50	50
1,2-Dibromoethane	ND		50	37	ug/L			03/30/16 17:50	50
1,2-Dichlorobenzene	ND		50	40	ug/L			03/30/16 17:50	50
1,2-Dichloroethane	ND		50	11	ug/L			03/30/16 17:50	50
1,2-Dichloropropane	ND		50	36	ug/L			03/30/16 17:50	50
1,3-Dichlorobenzene	ND		50	39	ug/L			03/30/16 17:50	50
1,4-Dichlorobenzene	ND		50	42	ug/L			03/30/16 17:50	50
2-Hexanone	ND		250	62	ug/L			03/30/16 17:50	50
2-Butanone (MEK)	ND		500	66	ug/L			03/30/16 17:50	50
4-Methyl-2-pentanone (MIBK)	ND		250	110	ug/L			03/30/16 17:50	50
Acetone	ND		500	150	ug/L			03/30/16 17:50	50
Benzene	1900		50	21	ug/L			03/30/16 17:50	50
Bromodichloromethane	ND		50	20	ug/L			03/30/16 17:50	50
Bromoform	ND		50	13	ug/L			03/30/16 17:50	50
Bromomethane	ND		50	35	ug/L			03/30/16 17:50	50
Carbon disulfide	ND		50	9.5	ug/L			03/30/16 17:50	50
Carbon tetrachloride	ND		50	14	ug/L			03/30/16 17:50	50
Chlorobenzene	ND		50	38	ug/L			03/30/16 17:50	50
Dibromochloromethane	ND		50	16	ug/L			03/30/16 17:50	50
Chloroethane	ND		50	16	ug/L			03/30/16 17:50	50
Chloroform	ND		50	17	ug/L			03/30/16 17:50	50
Chloromethane	ND		50	18	ug/L			03/30/16 17:50	50
cis-1,2-Dichloroethene	ND		50	41	ug/L			03/30/16 17:50	50
cis-1,3-Dichloropropene	ND		50	18	ug/L			03/30/16 17:50	50
Cyclohexane	110		50	9.0	ug/L			03/30/16 17:50	50
Dichlorodifluoromethane	ND		50	34	ug/L			03/30/16 17:50	50
Ethylbenzene	1600		50	37	ug/L			03/30/16 17:50	50
Isopropylbenzene	ND		50	40	ug/L			03/30/16 17:50	50
Methyl acetate	ND		130	65	ug/L			03/30/16 17:50	50
Methyl tert-butyl ether	ND		50	8.0	ug/L			03/30/16 17:50	50
Methylcyclohexane	36 J		50	8.0	ug/L			03/30/16 17:50	50
Methylene Chloride	ND		50	22	ug/L			03/30/16 17:50	50
Styrene	ND		50	37	ug/L			03/30/16 17:50	50
Tetrachloroethene	ND		50	18	ug/L			03/30/16 17:50	50
Toluene	110		50	26	ug/L			03/30/16 17:50	50
trans-1,2-Dichloroethene	ND		50	45	ug/L			03/30/16 17:50	50
trans-1,3-Dichloropropene	ND		50	19	ug/L			03/30/16 17:50	50
Trichloroethene	ND		50	23	ug/L			03/30/16 17:50	50
Trichlorofluoromethane	ND		50	44	ug/L			03/30/16 17:50	50
Vinyl chloride	ND		50	45	ug/L			03/30/16 17:50	50
Xylenes, Total	2500		100	33	ug/L			03/30/16 17:50	50

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-97046-1

Client Sample ID: BCP-MW-3-032216

Lab Sample ID: 480-97046-5

Date Collected: 03/22/16 13:30

Matrix: Water

Date Received: 03/24/16 14:20

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	100		66 - 137		03/30/16 17:50	50
Toluene-d8 (Surr)	108		71 - 126		03/30/16 17:50	50
4-Bromofluorobenzene (Surr)	111		73 - 120		03/30/16 17:50	50
Dibromofluoromethane (Surr)	107		60 - 140		03/30/16 17:50	50

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-97046-1

Client Sample ID: BCP-MW-5-032216

Lab Sample ID: 480-97046-6

Date Collected: 03/22/16 16:00

Matrix: Water

Date Received: 03/24/16 14:20

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		100	82	ug/L			03/31/16 02:10	100
1,1,2,2-Tetrachloroethane	ND		100	21	ug/L			03/31/16 02:10	100
1,1,2-Trichloroethane	ND		100	23	ug/L			03/31/16 02:10	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	31	ug/L			03/31/16 02:10	100
1,1-Dichloroethane	ND		100	38	ug/L			03/31/16 02:10	100
1,1-Dichloroethene	ND		100	29	ug/L			03/31/16 02:10	100
1,2,4-Trichlorobenzene	ND		100	41	ug/L			03/31/16 02:10	100
1,2-Dibromo-3-Chloropropane	ND		100	39	ug/L			03/31/16 02:10	100
1,2-Dibromoethane	ND		100	73	ug/L			03/31/16 02:10	100
1,2-Dichlorobenzene	ND		100	79	ug/L			03/31/16 02:10	100
1,2-Dichloroethane	ND		100	21	ug/L			03/31/16 02:10	100
1,2-Dichloropropane	ND		100	72	ug/L			03/31/16 02:10	100
1,3-Dichlorobenzene	ND		100	78	ug/L			03/31/16 02:10	100
1,4-Dichlorobenzene	ND		100	84	ug/L			03/31/16 02:10	100
2-Hexanone	ND		500	120	ug/L			03/31/16 02:10	100
2-Butanone (MEK)	ND		1000	130	ug/L			03/31/16 02:10	100
4-Methyl-2-pentanone (MIBK)	ND		500	210	ug/L			03/31/16 02:10	100
Acetone	ND	* F2	1000	300	ug/L			03/31/16 02:10	100
Benzene	1700		100	41	ug/L			03/31/16 02:10	100
Bromodichloromethane	ND		100	39	ug/L			03/31/16 02:10	100
Bromoform	ND		100	26	ug/L			03/31/16 02:10	100
Bromomethane	ND		100	69	ug/L			03/31/16 02:10	100
Carbon disulfide	ND		100	19	ug/L			03/31/16 02:10	100
Carbon tetrachloride	ND		100	27	ug/L			03/31/16 02:10	100
Chlorobenzene	ND		100	75	ug/L			03/31/16 02:10	100
Dibromochloromethane	ND		100	32	ug/L			03/31/16 02:10	100
Chloroethane	ND		100	32	ug/L			03/31/16 02:10	100
Chloroform	ND		100	34	ug/L			03/31/16 02:10	100
Chloromethane	ND		100	35	ug/L			03/31/16 02:10	100
cis-1,2-Dichloroethene	ND		100	81	ug/L			03/31/16 02:10	100
cis-1,3-Dichloropropene	ND		100	36	ug/L			03/31/16 02:10	100
Cyclohexane	280		100	18	ug/L			03/31/16 02:10	100
Dichlorodifluoromethane	ND		100	68	ug/L			03/31/16 02:10	100
Ethylbenzene	2200		100	74	ug/L			03/31/16 02:10	100
Isopropylbenzene	ND		100	79	ug/L			03/31/16 02:10	100
Methyl acetate	ND		250	130	ug/L			03/31/16 02:10	100
Methyl tert-butyl ether	ND		100	16	ug/L			03/31/16 02:10	100
Methylcyclohexane	100		100	16	ug/L			03/31/16 02:10	100
Methylene Chloride	77 J		100	44	ug/L			03/31/16 02:10	100
Styrene	ND		100	73	ug/L			03/31/16 02:10	100
Tetrachloroethene	ND		100	36	ug/L			03/31/16 02:10	100
Toluene	88 J		100	51	ug/L			03/31/16 02:10	100
trans-1,2-Dichloroethene	ND		100	90	ug/L			03/31/16 02:10	100
trans-1,3-Dichloropropene	ND	*	100	37	ug/L			03/31/16 02:10	100
Trichloroethene	ND		100	46	ug/L			03/31/16 02:10	100
Trichlorofluoromethane	ND		100	88	ug/L			03/31/16 02:10	100
Vinyl chloride	ND		100	90	ug/L			03/31/16 02:10	100
Xylenes, Total	3300		200	66	ug/L			03/31/16 02:10	100

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-97046-1

Client Sample ID: BCP-MW-5-032216

Lab Sample ID: 480-97046-6

Date Collected: 03/22/16 16:00

Matrix: Water

Date Received: 03/24/16 14:20

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	102		66 - 137		03/31/16 02:10	100
Toluene-d8 (Surr)	108		71 - 126		03/31/16 02:10	100
4-Bromofluorobenzene (Surr)	111		73 - 120		03/31/16 02:10	100
Dibromofluoromethane (Surr)	104		60 - 140		03/31/16 02:10	100

Surrogate Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-97046-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (66-137)	TOL (71-126)	BFB (73-120)	DBFM (60-140)
480-97046-1	BCP-MW-7-032216	102	109	111	105
480-97046-2	BCP-MW-1-032216	111	108	110	104
480-97046-3	BCP-MW-6-032216	104	108	110	107
480-97046-4	BCP-MW-4-032216	103	108	110	106
480-97046-5	BCP-MW-3-032216	100	108	111	107
480-97046-6	BCP-MW-5-032216	102	108	111	104
480-97046-6 MS	BCP-MW-5-032216	104	108	111	110
480-97046-6 MSD	BCP-MW-5-032216	97	110	111	101
LCS 480-293210/5	Lab Control Sample	107	110	115	111
LCS 480-293355/5	Lab Control Sample	101	108	110	106
MB 480-293210/7	Method Blank	105	108	111	107
MB 480-293355/7	Method Blank	105	107	111	107

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-97046-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-293210/7

Matrix: Water

Analysis Batch: 293210

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/30/16 10:57	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/30/16 10:57	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/30/16 10:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/30/16 10:57	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/30/16 10:57	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/30/16 10:57	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/30/16 10:57	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/30/16 10:57	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/30/16 10:57	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/30/16 10:57	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/30/16 10:57	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/30/16 10:57	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/30/16 10:57	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/30/16 10:57	1
2-Hexanone	ND		5.0	1.2	ug/L			03/30/16 10:57	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/30/16 10:57	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/30/16 10:57	1
Acetone	ND		10	3.0	ug/L			03/30/16 10:57	1
Benzene	ND		1.0	0.41	ug/L			03/30/16 10:57	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/30/16 10:57	1
Bromoform	ND		1.0	0.26	ug/L			03/30/16 10:57	1
Bromomethane	ND		1.0	0.69	ug/L			03/30/16 10:57	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/30/16 10:57	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/30/16 10:57	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/30/16 10:57	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/30/16 10:57	1
Chloroethane	ND		1.0	0.32	ug/L			03/30/16 10:57	1
Chloroform	ND		1.0	0.34	ug/L			03/30/16 10:57	1
Chloromethane	ND		1.0	0.35	ug/L			03/30/16 10:57	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/30/16 10:57	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/30/16 10:57	1
Cyclohexane	ND		1.0	0.18	ug/L			03/30/16 10:57	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/30/16 10:57	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/30/16 10:57	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/30/16 10:57	1
Methyl acetate	ND		2.5	1.3	ug/L			03/30/16 10:57	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/30/16 10:57	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/30/16 10:57	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/30/16 10:57	1
Styrene	ND		1.0	0.73	ug/L			03/30/16 10:57	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/30/16 10:57	1
Toluene	ND		1.0	0.51	ug/L			03/30/16 10:57	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/30/16 10:57	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/30/16 10:57	1
Trichloroethene	ND		1.0	0.46	ug/L			03/30/16 10:57	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/30/16 10:57	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/30/16 10:57	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/30/16 10:57	1

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-97046-1

<i>Surrogate</i>	<i>MB</i> <i>%Recovery</i>	<i>MB</i> <i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	105		66 - 137		03/30/16 10:57	1
Toluene-d8 (Surr)	108		71 - 126		03/30/16 10:57	1
4-Bromofluorobenzene (Surr)	111		73 - 120		03/30/16 10:57	1
Dibromofluoromethane (Surr)	107		60 - 140		03/30/16 10:57	1

Lab Sample ID: LCS 480-293210/5

Matrix: Water

Analysis Batch: 293210

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

<i>Analyte</i>	<i>Spike</i> <i>Added</i>	<i>LCS</i> <i>Result</i>	<i>LCS</i> <i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec.</i> <i>Limits</i>
1,1,1-Trichloroethane	25.0	25.4		ug/L		102	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.9		ug/L		104	70 - 126
1,1,2-Trichloroethane	25.0	25.2		ug/L		101	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.4		ug/L		97	52 - 148
1,1-Dichloroethane	25.0	23.1		ug/L		92	71 - 129
1,1-Dichloroethene	25.0	22.7		ug/L		91	58 - 121
1,2,4-Trichlorobenzene	25.0	27.6		ug/L		110	70 - 122
1,2-Dibromo-3-Chloropropane	25.0	27.7		ug/L		111	56 - 134
1,2-Dibromoethane	25.0	27.7		ug/L		111	77 - 120
1,2-Dichlorobenzene	25.0	24.5		ug/L		98	80 - 124
1,2-Dichloroethane	25.0	21.9		ug/L		87	75 - 127
1,2-Dichloropropane	25.0	25.3		ug/L		101	76 - 120
1,3-Dichlorobenzene	25.0	23.7		ug/L		95	77 - 120
1,4-Dichlorobenzene	25.0	23.1		ug/L		93	75 - 120
2-Hexanone	125	128		ug/L		102	65 - 127
2-Butanone (MEK)	125	147		ug/L		118	57 - 140
4-Methyl-2-pentanone (MIBK)	125	125		ug/L		100	71 - 125
Acetone	125	177		ug/L		141	56 - 142
Benzene	25.0	23.6		ug/L		94	71 - 124
Bromodichloromethane	25.0	26.9		ug/L		108	80 - 122
Bromoform	25.0	27.4		ug/L		110	52 - 132
Bromomethane	25.0	18.5		ug/L		74	55 - 144
Carbon disulfide	25.0	21.7		ug/L		87	59 - 134
Carbon tetrachloride	25.0	32.6		ug/L		131	72 - 134
Chlorobenzene	25.0	24.6		ug/L		99	72 - 120
Dibromochloromethane	25.0	26.8		ug/L		107	75 - 125
Chloroethane	25.0	20.3		ug/L		81	69 - 136
Chloroform	25.0	22.4		ug/L		90	73 - 127
Chloromethane	25.0	21.8		ug/L		87	68 - 124
cis-1,2-Dichloroethene	25.0	24.0		ug/L		96	74 - 124
cis-1,3-Dichloropropene	25.0	28.3		ug/L		113	74 - 124
Cyclohexane	25.0	22.2		ug/L		89	59 - 135
Dichlorodifluoromethane	25.0	22.6		ug/L		90	59 - 135
Ethylbenzene	25.0	23.4		ug/L		93	77 - 123
Isopropylbenzene	25.0	23.3		ug/L		93	77 - 122
Methyl acetate	125	127		ug/L		102	74 - 133
Methyl tert-butyl ether	25.0	23.8		ug/L		95	64 - 127
Methylcyclohexane	25.0	23.8		ug/L		95	61 - 138
Methylene Chloride	25.0	24.3		ug/L		97	57 - 132
Styrene	25.0	25.1		ug/L		101	70 - 130
Tetrachloroethene	25.0	23.5		ug/L		94	74 - 122
Toluene	25.0	23.6		ug/L		95	80 - 122
trans-1,2-Dichloroethene	25.0	23.3		ug/L		93	73 - 127

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-97046-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-293210/5

Matrix: Water

Analysis Batch: 293210

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	25.0	23.5		ug/L		94	74 - 123
Trichlorofluoromethane	25.0	24.5		ug/L		98	62 - 152
Vinyl chloride	25.0	20.8		ug/L		83	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		66 - 137
Toluene-d8 (Surr)	110		71 - 126
4-Bromofluorobenzene (Surr)	115		73 - 120
Dibromofluoromethane (Surr)	111		60 - 140

Lab Sample ID: MB 480-293355/7

Matrix: Water

Analysis Batch: 293355

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/30/16 21:58	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/30/16 21:58	1
1,1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/30/16 21:58	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/30/16 21:58	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/30/16 21:58	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/30/16 21:58	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/30/16 21:58	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/30/16 21:58	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/30/16 21:58	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/30/16 21:58	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/30/16 21:58	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/30/16 21:58	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/30/16 21:58	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/30/16 21:58	1
2-Hexanone	ND		5.0	1.2	ug/L			03/30/16 21:58	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/30/16 21:58	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/30/16 21:58	1
Acetone	ND		10	3.0	ug/L			03/30/16 21:58	1
Benzene	ND		1.0	0.41	ug/L			03/30/16 21:58	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/30/16 21:58	1
Bromoform	ND		1.0	0.26	ug/L			03/30/16 21:58	1
Bromomethane	ND		1.0	0.69	ug/L			03/30/16 21:58	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/30/16 21:58	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/30/16 21:58	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/30/16 21:58	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/30/16 21:58	1
Chloroethane	ND		1.0	0.32	ug/L			03/30/16 21:58	1
Chloroform	ND		1.0	0.34	ug/L			03/30/16 21:58	1
Chloromethane	ND		1.0	0.35	ug/L			03/30/16 21:58	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/30/16 21:58	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/30/16 21:58	1
Cyclohexane	ND		1.0	0.18	ug/L			03/30/16 21:58	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/30/16 21:58	1

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-97046-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-293355/7

Matrix: Water

Analysis Batch: 293355

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.0	0.74	ug/L			03/30/16 21:58	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/30/16 21:58	1
Methyl acetate	ND		2.5	1.3	ug/L			03/30/16 21:58	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/30/16 21:58	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/30/16 21:58	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/30/16 21:58	1
Styrene	ND		1.0	0.73	ug/L			03/30/16 21:58	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/30/16 21:58	1
Toluene	ND		1.0	0.51	ug/L			03/30/16 21:58	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/30/16 21:58	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/30/16 21:58	1
Trichloroethene	ND		1.0	0.46	ug/L			03/30/16 21:58	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/30/16 21:58	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/30/16 21:58	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/30/16 21:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		66 - 137		03/30/16 21:58	1
Toluene-d8 (Surr)	107		71 - 126		03/30/16 21:58	1
4-Bromofluorobenzene (Surr)	111		73 - 120		03/30/16 21:58	1
Dibromofluoromethane (Surr)	107		60 - 140		03/30/16 21:58	1

Lab Sample ID: LCS 480-293355/5

Matrix: Water

Analysis Batch: 293355

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	25.7		ug/L		103	73 - 126
1,1,1,2,2-Tetrachloroethane	25.0	27.8		ug/L		111	70 - 126
1,1,2-Trichloroethane	25.0	27.6		ug/L		110	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.4		ug/L		94	52 - 148
1,1-Dichloroethane	25.0	23.4		ug/L		94	71 - 129
1,1-Dichloroethene	25.0	23.4		ug/L		94	58 - 121
1,2,4-Trichlorobenzene	25.0	27.6		ug/L		110	70 - 122
1,2-Dibromo-3-Chloropropane	25.0	28.0		ug/L		112	56 - 134
1,2-Dibromoethane	25.0	29.6		ug/L		118	77 - 120
1,2-Dichlorobenzene	25.0	25.8		ug/L		103	80 - 124
1,2-Dichloroethane	25.0	22.8		ug/L		91	75 - 127
1,2-Dichloropropane	25.0	26.9		ug/L		107	76 - 120
1,3-Dichlorobenzene	25.0	24.9		ug/L		99	77 - 120
1,4-Dichlorobenzene	25.0	24.3		ug/L		97	75 - 120
2-Hexanone	125	137		ug/L		109	65 - 127
2-Butanone (MEK)	125	160		ug/L		128	57 - 140
4-Methyl-2-pentanone (MIBK)	125	130		ug/L		104	71 - 125
Acetone	125	182	*	ug/L		146	56 - 142
Benzene	25.0	24.7		ug/L		99	71 - 124
Bromodichloromethane	25.0	28.2		ug/L		113	80 - 122

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-97046-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-293355/5

Matrix: Water

Analysis Batch: 293355

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	25.0	28.2		ug/L		113	52 - 132
Bromomethane	25.0	20.2		ug/L		81	55 - 144
Carbon disulfide	25.0	22.1		ug/L		88	59 - 134
Carbon tetrachloride	25.0	33.4		ug/L		134	72 - 134
Chlorobenzene	25.0	26.0		ug/L		104	72 - 120
Dibromochloromethane	25.0	28.2		ug/L		113	75 - 125
Chloroethane	25.0	21.6		ug/L		86	69 - 136
Chloroform	25.0	23.2		ug/L		93	73 - 127
Chloromethane	25.0	23.1		ug/L		93	68 - 124
cis-1,2-Dichloroethene	25.0	24.9		ug/L		100	74 - 124
cis-1,3-Dichloropropene	25.0	30.2		ug/L		121	74 - 124
Cyclohexane	25.0	21.8		ug/L		87	59 - 135
Dichlorodifluoromethane	25.0	22.1		ug/L		88	59 - 135
Ethylbenzene	25.0	24.6		ug/L		98	77 - 123
Isopropylbenzene	25.0	24.7		ug/L		99	77 - 122
Methyl acetate	125	132		ug/L		106	74 - 133
Methyl tert-butyl ether	25.0	24.5		ug/L		98	64 - 127
Methylcyclohexane	25.0	23.5		ug/L		94	61 - 138
Methylene Chloride	25.0	26.2		ug/L		105	57 - 132
Styrene	25.0	26.5		ug/L		106	70 - 130
Tetrachloroethene	25.0	24.9		ug/L		100	74 - 122
Toluene	25.0	25.1		ug/L		100	80 - 122
trans-1,2-Dichloroethene	25.0	24.4		ug/L		98	73 - 127
Trichloroethene	25.0	25.3		ug/L		101	74 - 123
Trichlorofluoromethane	25.0	23.7		ug/L		95	62 - 152
Vinyl chloride	25.0	21.8		ug/L		87	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		66 - 137
Toluene-d8 (Surr)	108		71 - 126
4-Bromofluorobenzene (Surr)	110		73 - 120
Dibromofluoromethane (Surr)	106		60 - 140

Lab Sample ID: 480-97046-6 MS

Matrix: Water

Analysis Batch: 293355

Client Sample ID: BCP-MW-5-032216

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		2500	2670		ug/L		107	73 - 126
1,1,1,2,2-Tetrachloroethane	ND		2500	2770		ug/L		111	70 - 126
1,1,1,2-Trichloroethane	ND		2500	2750		ug/L		110	76 - 122
1,1,1,2-Trichloro-1,1,2-trifluoroethane	ND		2500	2430		ug/L		97	52 - 148
1,1-Dichloroethane	ND		2500	2470		ug/L		99	71 - 129
1,1-Dichloroethene	ND		2500	2440		ug/L		98	58 - 121
1,2,4-Trichlorobenzene	ND		2500	2860		ug/L		115	70 - 122
1,2-Dibromo-3-Chloropropane	ND		2500	2690		ug/L		108	56 - 134
1,2-Dibromoethane	ND		2500	2890		ug/L		115	77 - 120

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-97046-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-97046-6 MS

Matrix: Water

Analysis Batch: 293355

Client Sample ID: BCP-MW-5-032216

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	ND		2500	2620		ug/L		105	80 - 124
1,2-Dichloroethane	ND		2500	2410		ug/L		97	75 - 127
1,2-Dichloropropane	ND		2500	2720		ug/L		109	76 - 120
1,3-Dichlorobenzene	ND		2500	2520		ug/L		101	77 - 120
1,4-Dichlorobenzene	ND		2500	2470		ug/L		99	75 - 120
2-Hexanone	ND		12500	12200		ug/L		97	65 - 127
2-Butanone (MEK)	ND		12500	13100		ug/L		104	57 - 140
4-Methyl-2-pentanone (MIBK)	ND		12500	12800		ug/L		103	71 - 125
Acetone	ND	* F2	12500	13400		ug/L		107	56 - 142
Benzene	1700		2500	4530		ug/L		114	71 - 124
Bromodichloromethane	ND		2500	2850		ug/L		114	80 - 122
Bromoform	ND		2500	2780		ug/L		111	52 - 132
Bromomethane	ND		2500	2120		ug/L		85	55 - 144
Carbon disulfide	ND		2500	2290		ug/L		92	59 - 134
Carbon tetrachloride	ND		2500	3300		ug/L		132	72 - 134
Chlorobenzene	ND		2500	2620		ug/L		105	72 - 120
Dibromochloromethane	ND		2500	2730		ug/L		109	75 - 125
Chloroethane	ND		2500	2120		ug/L		85	69 - 136
Chloroform	ND		2500	2430		ug/L		97	73 - 127
Chloromethane	ND		2500	2180		ug/L		87	68 - 124
cis-1,2-Dichloroethene	ND		2500	2640		ug/L		106	74 - 124
cis-1,3-Dichloropropene	ND		2500	2830		ug/L		113	74 - 124
Cyclohexane	280		2500	2510		ug/L		89	59 - 135
Dichlorodifluoromethane	ND		2500	2070		ug/L		83	59 - 135
Ethylbenzene	2200		2500	4920		ug/L		108	77 - 123
Isopropylbenzene	ND		2500	2510		ug/L		100	77 - 122
Methyl acetate	ND		12500	13900		ug/L		111	74 - 133
Methyl tert-butyl ether	ND		2500	2640		ug/L		105	64 - 127
Methylcyclohexane	100		2500	2530		ug/L		97	61 - 138
Methylene Chloride	77	J	2500	2920		ug/L		114	57 - 132
Styrene	ND		2500	2690		ug/L		108	70 - 130
Tetrachloroethene	ND		2500	2430		ug/L		97	74 - 122
Toluene	88	J	2500	2620		ug/L		101	80 - 122
trans-1,2-Dichloroethene	ND		2500	2610		ug/L		104	73 - 127
Trichloroethene	ND		2500	2510		ug/L		101	74 - 123
Trichlorofluoromethane	ND		2500	2340		ug/L		93	62 - 152
Vinyl chloride	ND		2500	2130		ug/L		85	65 - 133

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		66 - 137
Toluene-d8 (Surr)	108		71 - 126
4-Bromofluorobenzene (Surr)	111		73 - 120
Dibromofluoromethane (Surr)	110		60 - 140

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-97046-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-97046-6 MSD

Matrix: Water

Analysis Batch: 293355

Client Sample ID: BCP-MW-5-032216

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		2500	2550		ug/L		102	73 - 126	4	15
1,1,2,2-Tetrachloroethane	ND		2500	2730		ug/L		109	70 - 126	1	15
1,1,2-Trichloroethane	ND		2500	2730		ug/L		109	76 - 122	1	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2500	2410		ug/L		97	52 - 148	1	20
1,1-Dichloroethane	ND		2500	2350		ug/L		94	71 - 129	5	20
1,1-Dichloroethene	ND		2500	2370		ug/L		95	58 - 121	3	16
1,2,4-Trichlorobenzene	ND		2500	2490		ug/L		100	70 - 122	14	20
1,2-Dibromo-3-Chloropropane	ND		2500	2380		ug/L		95	56 - 134	12	15
1,2-Dibromoethane	ND		2500	2890		ug/L		116	77 - 120	0	15
1,2-Dichlorobenzene	ND		2500	2590		ug/L		104	80 - 124	1	20
1,2-Dichloroethane	ND		2500	2260		ug/L		90	75 - 127	7	20
1,2-Dichloropropane	ND		2500	2550		ug/L		102	76 - 120	7	20
1,3-Dichlorobenzene	ND		2500	2550		ug/L		102	77 - 120	1	20
1,4-Dichlorobenzene	ND		2500	2460		ug/L		99	75 - 120	0	20
2-Hexanone	ND		12500	12300		ug/L		98	65 - 127	1	15
2-Butanone (MEK)	ND		12500	11500		ug/L		92	57 - 140	12	20
4-Methyl-2-pentanone (MIBK)	ND		12500	12000		ug/L		96	71 - 125	6	35
Acetone	ND	* F2	12500	10200	F2	ug/L		82	56 - 142	27	15
Benzene	1700		2500	4300		ug/L		105	71 - 124	5	13
Bromodichloromethane	ND		2500	2700		ug/L		108	80 - 122	5	15
Bromoform	ND		2500	2750		ug/L		110	52 - 132	1	15
Bromomethane	ND		2500	1950		ug/L		78	55 - 144	8	15
Carbon disulfide	ND		2500	2230		ug/L		89	59 - 134	3	15
Carbon tetrachloride	ND		2500	3240		ug/L		130	72 - 134	2	15
Chlorobenzene	ND		2500	2640		ug/L		106	72 - 120	1	25
Dibromochloromethane	ND		2500	2780		ug/L		111	75 - 125	2	15
Chloroethane	ND		2500	2020		ug/L		81	69 - 136	5	15
Chloroform	ND		2500	2320		ug/L		93	73 - 127	5	20
Chloromethane	ND		2500	2150		ug/L		86	68 - 124	1	15
cis-1,2-Dichloroethene	ND		2500	2450		ug/L		98	74 - 124	7	15
cis-1,3-Dichloropropene	ND		2500	2730		ug/L		109	74 - 124	4	15
Cyclohexane	280		2500	2500		ug/L		89	59 - 135	0	20
Dichlorodifluoromethane	ND		2500	2000		ug/L		80	59 - 135	4	20
Ethylbenzene	2200		2500	5020		ug/L		112	77 - 123	2	15
Isopropylbenzene	ND		2500	2620		ug/L		105	77 - 122	4	20
Methyl acetate	ND		12500	12400		ug/L		99	74 - 133	11	20
Methyl tert-butyl ether	ND		2500	2400		ug/L		96	64 - 127	9	37
Methylcyclohexane	100		2500	2480		ug/L		95	61 - 138	2	20
Methylene Chloride	77	J	2500	2740		ug/L		107	57 - 132	6	15
Styrene	ND		2500	2710		ug/L		108	70 - 130	1	20
Tetrachloroethene	ND		2500	2500		ug/L		100	74 - 122	3	20
Toluene	88	J	2500	2640		ug/L		102	80 - 122	1	15
trans-1,2-Dichloroethene	ND		2500	2450		ug/L		98	73 - 127	6	20
Trichloroethene	ND		2500	2440		ug/L		97	74 - 123	3	16
Trichlorofluoromethane	ND		2500	2310		ug/L		92	62 - 152	1	20
Vinyl chloride	ND		2500	2050		ug/L		82	65 - 133	4	15

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-97046-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-97046-6 MSD

Matrix: Water

Analysis Batch: 293355

Client Sample ID: BCP-MW-5-032216

Prep Type: Total/NA

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	97		66 - 137
Toluene-d8 (Surr)	110		71 - 126
4-Bromofluorobenzene (Surr)	111		73 - 120
Dibromofluoromethane (Surr)	101		60 - 140

QC Association Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-97046-1

GC/MS VOA

Analysis Batch: 293210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-97046-1	BCP-MW-7-032216	Total/NA	Water	8260C	
480-97046-2	BCP-MW-1-032216	Total/NA	Water	8260C	
480-97046-4	BCP-MW-4-032216	Total/NA	Water	8260C	
480-97046-5	BCP-MW-3-032216	Total/NA	Water	8260C	
LCS 480-293210/5	Lab Control Sample	Total/NA	Water	8260C	
MB 480-293210/7	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 293355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-97046-3	BCP-MW-6-032216	Total/NA	Water	8260C	
480-97046-6	BCP-MW-5-032216	Total/NA	Water	8260C	
480-97046-6 MS	BCP-MW-5-032216	Total/NA	Water	8260C	
480-97046-6 MSD	BCP-MW-5-032216	Total/NA	Water	8260C	
LCS 480-293355/5	Lab Control Sample	Total/NA	Water	8260C	
MB 480-293355/7	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-97046-1

Client Sample ID: BCP-MW-7-032216

Lab Sample ID: 480-97046-1

Date Collected: 03/22/16 09:00

Matrix: Water

Date Received: 03/24/16 14:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	293210	03/30/16 16:17	SMY	TAL BUF

Client Sample ID: BCP-MW-1-032216

Lab Sample ID: 480-97046-2

Date Collected: 03/22/16 10:00

Matrix: Water

Date Received: 03/24/16 14:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	293210	03/30/16 16:40	SMY	TAL BUF

Client Sample ID: BCP-MW-6-032216

Lab Sample ID: 480-97046-3

Date Collected: 03/22/16 11:30

Matrix: Water

Date Received: 03/24/16 14:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	293355	03/31/16 01:46	SWO	TAL BUF

Client Sample ID: BCP-MW-4-032216

Lab Sample ID: 480-97046-4

Date Collected: 03/22/16 13:00

Matrix: Water

Date Received: 03/24/16 14:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		50	293210	03/30/16 17:27	SMY	TAL BUF

Client Sample ID: BCP-MW-3-032216

Lab Sample ID: 480-97046-5

Date Collected: 03/22/16 13:30

Matrix: Water

Date Received: 03/24/16 14:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		50	293210	03/30/16 17:50	SMY	TAL BUF

Client Sample ID: BCP-MW-5-032216

Lab Sample ID: 480-97046-6

Date Collected: 03/22/16 16:00

Matrix: Water

Date Received: 03/24/16 14:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		100	293355	03/31/16 02:10	SWO	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TestAmerica Buffalo

Certification Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-97046-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-16 *

* Certification renewal pending - certification considered valid.

TestAmerica Buffalo

Method Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-97046-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: C&S Engineers, Inc.
Project/Site: Well Sampling - MOB

TestAmerica Job ID: 480-97046-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-97046-1	BCP-MW-7-032216	Water	03/22/16 09:00	03/24/16 14:20
480-97046-2	BCP-MW-1-032216	Water	03/22/16 10:00	03/24/16 14:20
480-97046-3	BCP-MW-6-032216	Water	03/22/16 11:30	03/24/16 14:20
480-97046-4	BCP-MW-4-032216	Water	03/22/16 13:00	03/24/16 14:20
480-97046-5	BCP-MW-3-032216	Water	03/22/16 13:30	03/24/16 14:20
480-97046-6	BCP-MW-5-032216	Water	03/22/16 16:00	03/24/16 14:20

Login Sample Receipt Checklist

Client: C&S Engineers, Inc.

Job Number: 480-97046-1

Login Number: 97046

List Source: TestAmerica Buffalo

List Number: 1

Creator: Kolb, Chris M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	C&S ENG.
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

APPENDIX B
INSTITUTIONAL AND ENGINEERING CONTROLS CERTIFICATION
FORM



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



Site Details		Box 1
Site No.	C915260	
Site Name Former Mobil Service Station 99-MST		
(1001)		
Site Address: 979 Main Street		Zip Code: 14203
City/Town: Buffalo		
County: Erie		
Site Acreage: 1.7		
Reporting Period: December 23, 2014 to March 24, 2016		
		YES NO
1. Is the information above correct?	☐	☒
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☒	☐
<i>See Appendix C</i>		
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	☒

Box 2	
	YES NO
6. Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	☒ ☐
7. Are all ICs/ECs in place and functioning as designed?	☒ ☐
IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.	
A Corrective Measures Work Plan must be submitted along with this form to address these issues.	
_____ Signature of Owner, Remedial Party or Designated Representative	_____ Date

Box 2A

	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	☒
If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.		
9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	☒	☐
If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.		

SITE NO. C915260

Box 3

Description of Institutional Controls

<u>Parcel</u>	<u>Owner</u>	<u>Institutional Control</u>
100.79-1-1.1	Kaleida Properties, Inc.	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan
1. Prohibition of use of groundwater. 2. Landuse Restriction for Restricted Residential, Commercial or Industrial use. 3. Soil Management or Excavation Work Plan for any future intrusive work. 4. Groundwater Monitoring Plan.		
100.79-1-2.11	Kaleida Health	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan
1. Prohibition of use of groundwater. 2. Landuse Restriction for Restricted Residential, Commercial or Industrial use. 3. Soil Management or Excavation Work Plan for any future intrusive work. 4. Groundwater Monitoring Plan.		

Box 4

Description of Engineering Controls

<u>Parcel</u>	<u>Engineering Control</u>
100.79-1-1.1	Groundwater Treatment System Groundwater will be treated in-situ by injections of oxygen release compounds (ORC) to degrade petroleum hydrocarbons to harmless compounds.
100.79-1-2.11	Groundwater Treatment System Groundwater will be treated in-situ by injections of oxygen release compounds (ORC) to degrade petroleum hydrocarbons to harmless compounds

Periodic Review Report (PRR) Certification Statements

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

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

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

YES NO

☒ ☐

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

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

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

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

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

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

YES NO

☒ ☐

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

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

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. C915260

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

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

I DANIEL RIKER, P.G. at C&S Engineers, Inc
print name print business address
141 Elm Street Buffalo, NY 14203

am certifying as Kaleida Properties, Inc., Kaleida Health (Owner or Remedial Party)
and Conventus Partners, LLC

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


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

5/4/16
Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

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

I TIMOTHY F. HUGHES at CES Engineers, Inc. 141 Elm Street Buffalo, NY 14203
print name print business address

am certifying as a Professional Engineer for the Kaleida Properties, Inc., Kaleida Health
(Owner or Remedial Party)
and Conventus Partners, LLC

Timothy F. Hughes
Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification



5/4/16
Date

APPENDIX C
WASTE WATER DISCHARGE PERMIT

BUFFALO SEWER AUTHORITY
TEMPORARY DISCHARGE PERMIT

Permittee: Ciminelli Real Estate Corporation

Location Address: 350 Essjay Road, Williamsville, New York 14221

The above named Permittee is hereby approved to discharge **treated groundwater** to the BSA Wastewater Treatment Plant only, from:

Conventus
1001 Main Street, Buffalo, New York 14203

to the Buffalo Sewer Authority facilities in accordance with the Buffalo Sewer Authority Regulations, Article VI, Section 14, and subject to the following conditions:

ARTICLE 1 CONDITIONS OF ACCEPTANCE

The discharge of the approved waste by the Permittee shall be subject to the following conditions:

a. Times, Location & Rate

The following location is designated for discharge during the hours listed and subject to the limit for rate of discharge specified:

Location: **Conventus**
1001 Main Street, Buffalo, New York 14203

Time Discharge is Permitted: **8:00 am to 5:00 pm**

Limit on Rate of Discharge: **60 gallons per minute**, Buffalo Sewer Authority
Wastewater Treatment Plant only, **dry weather only**

b. Operations

The Permittee shall maintain cleanliness, minimize odors, ensure necessary sediment control measures are in place and maintained and protect the Buffalo Sewer Authority facilities during the permittee's operations. The Permittee shall not permit any condition to arise which may pose a threat to public health or safety.

c. Samples and Analyses

The Buffalo Sewer Authority may from time to time, require the Permittee to sample and analyze its waste discharges. Such sampling and analyses shall be performed and results submitted by a New York State Dept. of Health certified laboratory. The analyses required shall be as specified by the Buffalo Sewer Authority, which also reserves the right, at its convenience, to sample wastes discharged by the Permittee.

d. Refusal to Discharge

The Buffalo Sewer Authority may refuse the Permittee permission to discharge wastes at any time and for any reason whatsoever, for the protection of sewer facilities against damage or flooding; to assure the proper operation and maintenance of said facilities; or to protect public health, safety or welfare.

e. Local Limits

Except as otherwise specified in this permit, the permit holder shall comply with all specific prohibitions, limits on pollutants or pollutant parameters set forth in the Buffalo Sewer Authority Sewer Use Regulations, as amended from time to time, and such prohibitions, limits and parameters shall be deemed pretreatment standards for purposes for the Clean Water Act.

ARTICLE 2 REGULATIONS

The Permittee must conform to all Buffalo Sewer Authority regulations and appropriate Federal, State and County Statutes, rules, mandates, directives, and orders concerning the collection, transportation, treatment and disposal of wastewaters.

ARTICLE 3 INSURANCE AND INDEMNIFICATION

The Permittee, agrees to indemnify and hold harmless the Buffalo Sewer Authority and its agents and employees against any and all claims resulting from work performed under this permit. The permittee shall be solely responsible for any and all injury or damage to its employees or property arising from use of Buffalo Sewer Authority facilities under this permit.

In the event of any alteration, non-renewal or cancellation of these policies, at least (45) forty-five days advance notice shall be given to the Industrial Waste Section, Bird Island Treatment Plant, 90 West Ferry Street, Buffalo, New York 14213 - before such change shall be effective.

ARTICLE 4 TERMINATION FOR VIOLATION OF AGREEMENT

In the event of a violation of any of the terms and conditions of this permit by the Permittee or upon the failure to pay the charges herein specified, the Buffalo Sewer Authority shall terminate the permit by service of notice of termination by registered mail at the Permittee's office address as set forth above.

ARTICLE 5 PERMITTEE APPROVAL

Official: Denise M. Juron-Borgese
Print Name

Vice President of Development & Planning
Title: Ciminelli Real Estate Corporation
Print

Signature: Denise M. Juron-Borgese

Date: 11.30.2015

ARTICLE 6 BUFFALO SEWER AUTHORITY APPROVAL

Approved as to Content:

Signature: LSchik
Industrial Waste Administrator

Date: 12/02/2015

Effective this 4th day of December, 2015

[Signature]
General Manager
Buffalo Sewer Authority

