

**New York State Department of
Environmental Conservation**

Division of Environmental Remediation

**Remedial System Optimization
Report – First and Second Quarter
2015**

Vestal Water Supply Site
Vestal, New York
Site Number 7-04-009A

November 2015



A blue ink signature of Andrew R. Vitolins, consisting of a series of loops and a long horizontal stroke.

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A black ink signature of Jeremy Wyckoff, written in a cursive style with a large, prominent 'J' and 'W'.

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Project Geologist

Remedial System Optimization Report

Vestal Water Supply Site
Site Number 7-04-009A

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Malcolm Pirnie, Inc. was acquired by
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1. Introduction

The New York State Department of Environmental Conservation (NYSDEC) issued a Work Assignment (# D004443-4) to Malcolm Pirnie, Inc. (Malcolm Pirnie) for Operation, Maintenance, and Monitoring at the Vestal Water Supply Site (site) in New York State (Site # 7-04-009A) (Figure 1-1).

The NYSDEC is evaluating the efficiency, effectiveness, environmental benefit, and cost of existing environmental remedies by performing a Remedial System Optimization (RSO). The purpose of the RSO is to assess the site's Conceptual Site Model (CSM), provide a summary of the performance of the remedy, document current cleanup practices, provide a summary of progress toward the cleanup goals, and provide recommendations for improvements, if required.

The Well 1-1A groundwater treatment plant was shut down on February 28, 2014 as part of the RSO to evaluate the impacts to groundwater quality while the treatment plant is not operating. In particular, plume migration is being monitored to assess the effects of groundwater withdrawals from the Town of Vestal water supply wells 1-2A and 1-3 on the groundwater plume distribution and migration. In addition, soil and groundwater samples have been collected to further evaluate the horizontal and vertical distribution of VOCs in the area of the site.

This Quarterly Report has been prepared to summarize the January 2015 through June 2015 field activities.

2. Investigation Activities

The scope of work for the RSO was designed to provide data for use in evaluation of the existing remedy and to further characterize the nature and extent of contamination in soil and groundwater at the site. The RSO provides information that is being used to assess the efficiency of the remedy and evaluate potential alternative remedial approaches. These data are summarized in the Draft Focused Feasibility Study (FFS), which was submitted to the NYSDEC on June 24, 2015.

The basic scope of work included field oversight of subcontractors (i.e., driller and surveyor), preparation of daily field logs, collection of subsurface and surface soil samples, installation of monitoring wells, monitoring well development and hydraulic conductivity testing, measuring groundwater levels, installation of groundwater level data loggers, shut-down of the Well 1-1A groundwater treatment plant for a period of at least one year, collection of groundwater samples from new and existing wells, evaluation of data, and reporting of conclusions and recommendations.

Currently the investigation includes monthly pre-treatment sampling for the Town of Vestal water supply wells 1-2A and 1-3 and quarterly groundwater sampling from the new and existing monitoring wells.

2.1 Groundwater Sampling

As recommended in the 4th quarter 2015 RSO Report, groundwater samples were collected from a revised sample list (Table 2-1) which was approved by the NYSDEC on March 19, 2015. Monitoring wells were selected to focus on plume migration and distribution on the north side of NYS Route 17. Several existing monitoring wells were recently located which were added to the sample list to collect more data near the Town of Vestal water supply wells 1-2A and 1-3. These monitoring wells (4009-18, 4009-19, 4009-21, 4009-30, and 4009-30A) were developed prior to sampling as detailed below. Well 1-1 was also added to the sampling list, but was not developed (Figure 2-2). Groundwater samples were collected using passive diffusion bags (PDBs) in accordance with the RSO Work Plan and were submitted for analysis of TCL VOCs by USEPA Method 8260 to TestAmerica-Buffalo following chain-of-custody sample handling procedures. The USEPA ERT monitoring wells on the ECO International property and Well 1-1A were not sampled during this event.

2.1.1 Monitoring Well Development

Monitoring wells were developed on March 24 and April 1, 2015. The purpose of the well development was to minimize turbidity in groundwater samples and to improve hydraulic properties of the monitoring wells that have not been sampled in several years. With the exception of well 4009-18, monitoring wells were developed using a peristaltic pump and a weighted bailer. Monitoring well 4009-18 was developed using a watterra pump and surge block. In general, well development was completed when the turbidity was observed to be below 100 NTUs (nephelometric turbidity units). The volume of water removed from the monitoring wells during development ranged from approximately 12 gallons 4009-30A to 27 gallons at 4009-18. Water generated during well development was discharged back into the ground near the well being developed.

Monitoring wells 4009-21, 4009-30, and 4009-30A also had minor repairs made to them which included a new outer protective casing, surface seal, and additional PVC riser as needed.

2.1.2 Water Level Data

Groundwater levels were measured on April 1, 2015 using an oil-water interface probe. As indicated in Section 1, the Well 1-1A treatment plant continues be shut down, therefore, groundwater levels are representative of static (non-pumping) conditions. Groundwater levels were used to calculate groundwater elevations and assess groundwater flow conditions across the site. A summary of groundwater elevation data is provided in Table 2-2. As shown in Table 2-2, light non-aqueous phase liquid (LNAPL) was detected in monitoring well ERT-1S during the April 1, 2015 (0.88 ft.) gauging event. Based on gauging data presented in the 2012 Conceptual Site Model (Lockheed Martin, 2012), LNAPL has previously been identified in this well and is not believed to be wide-spread in that area.

The April 1, 2015 potentiometric maps (Figures 2-2, 2-3, and 2-4) provide groundwater flow information for the shallow, intermediate, and deep groundwater monitoring zones during the Well 1-1A treatment plant shutdown period.

2.1.2.1 April 2015 Potentiometric Maps (April 1, 2015)

As shown on Figures 2-2 and 2-3, the direction of groundwater flow in the shallow and intermediate groundwater monitoring zones is generally west to northwest. Figure 2-4 shows that the direction of groundwater flow in the deep groundwater monitoring zone

between the Well 1-1A treatment facility and the Town of Vestal, Wells 1-2A and 1-3 is generally north, toward the Susquehanna River. The groundwater flow direction in the shallow, intermediate, and deep monitoring zones are generally consistent with the previous groundwater flow assessments for the respective monitoring zones.

2.1.3 April/ May 2015 Groundwater Sampling

On April 20 and May 6, 2015 groundwater samples were collected using PDBs that were deployed on April 1 and April 20, 2015 (including only monitoring well 4009-18). In the wells identified on Table 2-1, former treatment system Well 1-1 was also included on the revised sampling list in accordance with the fourth quarter 2015 RSO Report recommendations and the NYSDEC approval on March 2015. The USEPA ERT monitoring wells (Figure 2-1) on the ECO International property (the source area) were not sampled during this event. Extraction Well 1-1A was sampled during the baseline event, but since the shutdown of the Well-1A treatment facility a sample is not able to be collected from this well.

2.1.3.1 April/May 2015 Groundwater Sampling Results

Groundwater results from the April/ May 2015 groundwater sampling event are provided in Table 2-3. The VOCs measured at the highest concentrations were 1,1,1-trichloroethane (1,1,1-TCA), 1,1-dichloroethane (1,1-DCA), 1,1-dichloroethene (1,1-DCE), cis-1,2-dichloroethene (cis-1,2-DCE), trichloroethene (TCE), and vinyl chloride (VC). Total VOC concentrations measured at the shallow, intermediate, and deep groundwater monitoring zones, during the April/May groundwater sampling event are presented on Figures 2-5, 2-6, 2-7, and 2-8, respectively.

Figure 2-5 and Table 2-3 show that monitoring wells 4009-9, 4009-16A, and 4009-30A were the only wells screened in the shallow groundwater monitoring zone that contained detected concentrations of VOCs. Monitoring well 4009-16A was the only monitoring well in the shallow zone that had VOC concentrations that exceeded NYSDEC Class GA Groundwater Standards. The total VOCs measured at each of the shallow monitoring wells is as follows; 4009-9 (2.42 µg/L), 4009-16A (5.7 µg/L), and 4009-30A (0.75 µg/L).

As shown on Figure 2-6 and Table 2-3 the highest concentrations of VOCs are in the intermediate groundwater zone, down-gradient of the source area (ECO International property). The highest VOC concentrations in groundwater samples collected during the April/May sampling event were from well 4009-29I. The VOC concentrations in the

intermediate groundwater zone ranged from 0.87 µg/L at monitoring well 4009-27I to the maximum concentration of total VOCs in groundwater sample collected from 4009-29I (2,582 µg/L).

The following eight monitoring wells screened in the deep groundwater monitoring zone contained concentrations of VOCs that exceeded NYSDEC Class GA Groundwater Standards; 4009-11, 4009-12, 4009-14, 4009-15, 4009-19, 4009-22, 4009-29D, and Well 1-1. Benzene (discussed below) was the only VOC exceeding the NYSDEC Class GA Groundwater Standard of 1.0 µg/L in five of the nine monitoring wells listed above. The total VOCs measured in the remaining deep monitoring wells is as follows; 4009-12 (10.9 µg/L), 4009-29D (674 µg/L), and Well 1-1 (329 µg/L).

Figure 2-8 shows the plume under the revised sample list. There are two small focal areas that have the higher concentrations surrounding the 4009-29 cluster and Well 1-1. However, based on previous sampling results, the elevated groundwater concentrations at these locations would only be representative of the tail of the groundwater plume as shown on Figure 2-8. Based on the horizontal and vertical distribution of VOCs, it appears that the long-term pumping at extraction Wells 1-1 and replacement well 1-1A has caused the plume to be drawn from the water table in the vicinity of the source area, to greater than 100 feet bgs approximately 2,000 feet to the west.

Quarterly groundwater monitoring data indicate that there is little change in the shallow, intermediate, and deep groundwater plume distribution and migration since the shutdown of the Well 1-1A groundwater treatment plant. Changes in the VOC concentration figures are primarily associated with the exclusion of the source area monitoring wells and Well 1-1A since the baseline sampling event, as well as the revised sampling list which concentrates primarily on the plume migration on the north side of NYS Route 17. Historically the concentrations surrounding the ECO international property have been the greatest, consistent with this property being the source area.

Total VOCs detected in the groundwater samples collected in the April/May 2015 sampling event are generally consistent with the range of results reported during the last five sampling events (February, March, May, August 2014, and April/May 2015). Of the newly added monitoring wells, Well 1-1 was the only monitoring well with a relatively higher concentration of total VOCs (329 µg/L). The concentration of VOCs in monitoring wells 4009-18 (4.16 µg/L), 4009-21 (0.0 µg/L), 4009-30 (1.84 µg/L), and 4009-30A (0.75 µg/L) were non-detect or below the respective NYSDEC Class GA

Groundwater Standards. Benzene was the only VOC concentration that was detected above the standard in monitoring well 4009-19 (2.7 µg/L). The VOC 1,1,1-trichloroethane (1,1,1-TCA) was detected at an estimated concentration below the NYSDEC Class GA Groundwater Standards in monitoring well 4009-18 (0.86 J µg/L). As detailed above in section 2.1 monitoring well 4009-18 has recently been located and sampled for the first time by ARCADIS, therefore no historical groundwater data exists for this well and it is unknown if there are any trends in the 1,1,1-TCA estimated concentration. These detections, as well as other parameter trends, will continue to be monitored during the next quarter.

Concentrations of VOCs in samples from the monitoring wells in the vicinity of the Town of Vestal's water supply wells 1-2A and 1-3 are below the NYSDEC Class GA Groundwater Standards with the exception of benzene in monitoring well 4009-16A and 4009-19.

Benzene has shown increasing concentrations north and west of the core of the plume over the past five sampling events. During the April/May 2015 sampling event, benzene was detected in the following shallow monitoring wells; 4009-16A (5.7 µg/L) and 4009-30A (0.75 J µg/L) and the deep monitoring wells; 4009-11 (5.6 µg/L), 4009-12 (2.7 µg/L), 4009-13 (0.96 J µg/L), 4009-14 (1.2 µg/L), 4009-15 (1.8 µg/L), 4009-19 (2.7 µg/L), and 4009-22 (1.2 µg/L). Seven of the nine wells listed above exceeded the NYSDEC Class GA Groundwater Standards of 1.0 µg/L for benzene. Benzene was not detected in the intermediate groundwater monitoring zone.

2.1.4 Town of Vestal Municipal Well Sampling

Monthly analytical data are provided by the Town of Vestal Water Superintendent for Well 1-2A and 1-3. Samples were collected on January 20, 2015, March 12, 2015 (Well 1-3 only), April 9, 2015, May 12, 2015, and June 9, 2015. Samples were not collected in February due to the samples ports being frozen. Well 1-2A was also not sampled in March because of the frozen conditions of the treatment system sampling ports. Pre-treatment groundwater samples were also collected by Malcolm Pirnie from the Town of Vestal water supply wells 1-2A and 1-3 on January 29, 2015, February 25, 2015 (Well 1-3 only), March 19, 2015 (Well 1-3 only), April 20, 2015, May 6, 2015 and June 25, 2015. Well 1-2 was not sampled in February or March due to the frozen conditions of the treatment system sampling ports. These samples were used to supplement the Town's monthly influent sampling data and to evaluate potential impacts to the Town's water supply wells related to the shutdown of the Well 1-1A treatment plant. Samples were collected in consultation with the Town of Vestal Water

District Superintendent and submitted to TestAmerica for analysis of VOCs by USEPA Method 8260.

2.1.5 Town of Vestal Municipal Well Sampling Results

VOCs associated with contamination from the source area have not been detected in any of the pre-treatment effluent samples collected from the Town of Vestal water supply wells 1-2A and 1-3 during this reporting period. A summary of the monthly analytical data is provided in Table 2-4. Laboratory analytical reporting forms are provided in Appendix A.

3. Recommendations

Town of Vestal Well 1-2A and Well 1-3 should continue to be sampled on a monthly basis to supplement the Town's sampling program at least until the final remedies for OU1 and OU2 are implemented. In addition, quarterly groundwater monitoring should continue at the revised monitoring locations while the Well 1-1A treatment plant is shut down to evaluate groundwater contaminant distribution and migration over time.

4. Activities for Next Quarter

Schedule activities for the next quarter are summarized below.

- Monthly post shutdown sampling at Town of Vestal Wells 1-2A and 1-3.
- Quarterly groundwater sampling (October 2015).

5. References

Ecology and Environment, 1986, Remedial Investigation Report, Risk Assessment, and Feasibility Study for Water Supply Well 1-1 Site, Vestal, New York.

Ecology and Environment, 1986a, Work Plan for Additional Soil, Groundwater, and Geophysical Analysis at the Vestal Well Field Site, Vestal, New York, Vestal Phase II, April 10, 1986.

Lockheed Martin, 2012, Conceptual Site Model, Vestal Chlorinated Solvent Site, Vestal, New York, Work Assignment 0-064: Technical Memorandum.

Malcolm Pirnie, 2013, Remedial Site Optimization Work Plan, Vestal Water Supply Site, Work Assignment D007618-7, Site Number 7-04-009A.

Malcolm Pirnie, 2014, Remedial Site Optimization Report 1st Quarter 2014, Vestal Water Supply Site, Work Assignment D007618-7, Site Number 7-04-009A.

Malcolm Pirnie, 2014, Vestal Water Supply Site Quarterly Report – First Quarter 2014, Work Assignment D007618-7, Site Number 7-04-009A.

Tables

Table 2-1 Summary of the Groundwater Monitoring Locatons
Remedial Site Optimization Report / First/Second Quarter 2015
Vestal Water Supply Site
Site Number 7-04-009A

Well I.D.	2015 Quarterly Monitoring Locatons
4009-2	
4009-3	
4009-4	
4009-5	
4009-6	
4009-7	
4009-8	
4009-9	x
4009-10	x
4009-11	x
4009-11A	x
4009-12	x
4009-12A	
4009-13	x
4009-13A	x
4009-14	x
4009-15	x
4009-16	x
4009-16A	x
4009-17	
4009-18	x
4009-19	x
4009-20	
4009-21	x
4009-22	x
4009-23S	
4009-23D	
4009-24	
4009-25S	
4009-25D	
4009-26	
4009-27S	x
4009-27I	x
4009-27D	x
4009-28	x
4009-29S	x
4009-29I	x
4009-29D	x
WELL 1-1	x

Table 2-2 Summary of Groundwater Elevation Data
Remedial Site Optimization Report / First/Second Quarter 2015
Vestal Water Supply Site
Site Number 7-04-009A

Well I.D.	Top of Riser (ft AMSL)	2/19/2014			3/17/2014			5/12/2014			8/11/2014		
		DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)
4009-1	831.98	7.43	NP	824.55	7.15	NP	824.83	7.26	NP	824.72	7.75	NP	824.23
4009-2	827.78	18.16	NP	809.62	17.96	NP	809.82	17.90	NP	809.88	19.77	NP	808.01
4009-3	823.47	16.92	NP	806.55	14.52	NP	808.95	15.10	NP	808.37	17.94	NP	805.53
4009-4	822.22	11.87	NP	810.35	10.64	NP	811.58	10.80	NP	811.42	13.87	NP	808.35
4009-5	824.36	18.47	NP	805.89	16.23	NP	808.13	17.70	NP	806.66	21.94	NP	802.42
4009-6	827.73	20.88	NP	806.85	19.38	NP	808.35	19.50	NP	808.23	21.80	NP	805.93
4009-7	824.27	18.76	NP	805.51	16.28	NP	807.99	16.91	NP	807.36	20.22	NP	804.05
4009-8	824.52	19.69	NP	804.83	13.28	NP	811.24	17.60	NP	806.92	20.96	NP	803.56
4009-9	825.05	20.36	NP	804.69	18.00	NP	807.05	18.82	NP	806.23	21.84	NP	803.21
4009-10	831.31	26.44	NP	804.87	24.28	NP	807.03	24.95	NP	806.36	27.88	NP	803.43
4009-11	830.06	26.95	NP	803.11	23.75	NP	806.31	24.89	NP	805.17	28.36	NP	801.70
4009-11A	830.80	15.22	NP	815.58	14.78	NP	816.02	14.56	NP	816.24	16.69	NP	814.11
4009-12	823.34	18.80	NP	804.54	16.68	NP	806.66	17.52	NP	805.82	20.90	NP	802.44
4009-12A	823.80	20.21	NP	803.59	16.60	NP	807.20	17.98	NP	805.82	21.35	NP	802.45
4009-13	816.28	12.31	NP	803.97	8.97	NP	807.31	10.42	NP	805.86	13.60	NP	802.68
4009-13A	816.17	11.74	NP	804.43	8.72	NP	807.45	9.94	NP	806.23	13.00	NP	803.17
4009-14	820.71	16.62	NP	804.09	13.43	NP	807.28	15.36	NP	805.35	18.07	NP	802.64
4009-15	826.54	22.63	NP	803.91	19.35	NP	807.19	11.93	NP	814.61	24.18	NP	802.36
4009-16	826.72	22.68	NP	804.04	19.50	NP	807.22	21.12	NP	805.60	24.30	NP	802.42
4009-16A	826.84	22.45	NP	804.39	19.45	NP	807.39	21.22	NP	805.62	24.31	NP	802.53
4009-17	820.53	26.12	NP	794.41	12.95	NP	807.58	14.52	NP	806.01	17.66	NP	802.87
4009-18	834.78	30.59	NP	804.19	27.61	NP	807.17	29.38	NP	805.40	32.23	NP	802.55
4009-19	824.94	20.79	NP	804.15	17.78	NP	807.16	19.54	NP	805.40	22.42	NP	802.52
4009-20	822.90	18.45	NP	804.45	15.60	NP	807.30	17.82	NP	805.08	20.25	NP	802.65
4009-21	825.02 **	18.90	NP	804.20	15.90	NP	807.20	17.65	NP	805.45	20.55	NP	802.55
4009-22	817.40	13.06	NP	804.34	9.85	NP	807.55	11.50	NP	805.90	14.03	NP	803.37
4009-23S	824.48	16.65	NP	807.83	15.48	NP	809.00	14.88	NP	809.60	17.74	NP	806.74
4009-23D	824.39	18.93	NP	805.46	16.37	NP	808.02	17.15	NP	807.24	20.50	NP	803.89
4009-24	822.32	15.52	NP	806.80	13.38	NP	808.94	13.99	NP	808.33	16.94	NP	805.38
4009-25S	823.61	14.77	NP	808.84	13.84	NP	809.77	13.95	NP	809.66	15.87	NP	807.74
4009-25D	823.57	14.98	NP	808.59	13.70	NP	809.87	13.78	NP	809.79	15.85	NP	807.72
4009-26	824.31	19.36	NP	804.95	16.55	NP	807.76	17.39	NP	806.92	20.62	NP	803.69
4009-27S	826.19	21.97	NP	804.22	18.80	NP	807.39	20.02	NP	806.17	23.29	NP	802.90
4009-27I	826.03	21.93	NP	804.10	18.63	NP	807.40	19.98	NP	806.05	23.18	NP	802.85
4009-27D	825.87	21.90	NP	803.97	18.43	NP	807.44	19.88	NP	805.99	23.02	NP	802.85
4009-28	821.59	17.71	NP	803.88	14.45	NP	807.14	16.00	NP	805.59	19.23	NP	802.36
4009-29S	825.77	21.75	NP	804.02	18.42	NP	807.35	19.75	NP	806.02	23.03	NP	802.74
4009-29I	825.68	21.94	NP	803.74	18.51	NP	807.17	19.86	NP	805.82	23.22	NP	802.46
4009-29D	825.67	21.92	NP	803.75	18.54	NP	807.13	19.80	NP	805.87	23.18	NP	802.49
4009-30	827.50 **	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
4009-30A	826.69 **	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
WELL 1-1	832.36	29.09	NP	803.27	25.23	NP	807.13	25.50	NP	806.86	30.00	NP	802.36
WELL 1-1A	831.13	24.93	NP	806.20	24.13	NP	807.00	26.72	NP	804.41	23.03	NP	808.10
ERT-1S	824.01	12.65	11.72	810.57	11.83	10.88	811.37	11.53	10.62	811.71	13.96	12.95	809.19
ERT-1I	824.03	13.45	NP	810.58	12.43	NP	811.60	12.42	NP	811.61	15.17	NP	808.86
ERT-1D	823.88	13.50	13.49	810.38	12.50	NP	811.38	12.42	NP	811.46	15.29	NP	808.59
ERT-2S	824.67 *	14.19	NP	810.48	13.72	NP	810.95	13.00	NP	811.67	15.66	NP	809.01
ERT-2I	824.54 *	14.07	NP	810.47	13.08	NP	811.46	13.06	NP	811.48	15.60	NP	808.94
ERT-2D	824.44 *	12.98	NP	811.46	12.88	NP	811.56	12.56	12.55	811.88	14.97	14.96	809.46
ERT-3S	824.38	13.29	NP	811.09	12.94	NP	811.44	11.83	NP	812.55	14.14	NP	810.24
ERT-3I	824.23	14.21	NP	810.02	13.23	NP	811.00	13.20	NP	811.03	15.73	NP	808.50
ERT-3D	824.20	14.95	NP	809.25	14.62	NP	809.58	13.78	NP	810.42	16.72	16.71	807.47
ERT-4S	823.54	13.32	NP	810.22	12.58	NP	810.96	12.85	NP	810.69	Dry	NP	--
ERT-4I	823.49	14.23	NP	809.26	13.37	NP	810.12	13.42	NP	810.07	5.58	NP	817.91
ERT-4D	823.63	14.55	NP	809.08	13.56	NP	810.07	13.63	NP	810.00	15.70	NP	807.93
ERT-5	824.64 *	NM	NM	NM	12.34	NP	812.30	12.40	NP	812.24	15.28	NP	809.36
ERT-6	824.74 *	14.25	NP	810.49	13.05	NP	811.69	13.15	13.14	811.59	16.03	NP	808.71
ERT-7	823.96	15.38	NP	808.58	14.25	NP	809.71	14.55	NP	809.41	17.61	NP	806.35
ERT-8	824.69	16.70	NP	807.99	15.13	NP	809.56	15.50	NP	809.19	18.57	NP	806.12

Notes:
fbgs - feet below ground surface
famsl - feet above mean sea level
* - Elevation data from Conceptual Site Model (Lockheed Martin, 2012)
** - Elevation data remeasured on 4/11/15 after well repairs
NM - Not measured
NP - No product / LNAPL
Corrected based on assumed LNAPL density of 0.85 g/cm3

Table 2-2 Summary of Groundwater Elevation Data
Remedial Site Optimization Report / First/Second Quarter 2015
Vestal Water Supply Site
Site Number 7-04-009A

Well I.D.	Top of Riser (ft AMSL)	11/24/2014			4/1/2015			7/13/2015		
		DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)
4009-1	831.98	7.80	NP	824.18	7.64	NP	824.34	6.89	NP	825.09
4009-2	827.78	20.22	NP	807.56	19.22	NP	808.56	18.11	NP	809.67
4009-3	823.47	17.23	NP	806.24	15.90	NP	807.57	14.87	NP	808.60
4009-4	822.22	13.65	NP	808.57	12.22	NP	810.00	10.80	NP	811.42
4009-5	824.36	18.85	NP	805.51	17.80	NP	806.56	16.77	NP	807.59
4009-6	827.73	21.73	NP	806.00	20.48	NP	807.25	19.23	NP	808.50
4009-7	824.27	19.34	NP	804.93	17.74	NP	806.53	16.53	NP	807.74
4009-8	824.52	20.24	NP	804.28	18.26	NP	806.26	17.05	NP	807.47
4009-9	825.05	21.28	NP	803.77	19.23	NP	805.82	18.02	NP	807.03
4009-10	831.31	27.43	NP	803.88	25.48	NP	805.83	24.16	NP	807.15
4009-11	830.06	26.51	NP	803.55	24.89	NP	805.17	24.72	NP	805.34
4009-11A	830.80	20.43	NP	810.37	14.94	NP	815.86	14.77	NP	816.03
4009-12	823.34	19.22	NP	804.12	17.45	NP	805.89	17.34	NP	806.00
4009-12A	823.80	20.05	NP	803.75	17.91	NP	805.89	17.79	NP	806.01
4009-13	816.28	12.07	NP	804.21	10.37	NP	805.91	10.09	NP	806.19
4009-13A	816.17	11.93	NP	804.24	10.09	NP	806.08	9.38	NP	806.79
4009-14	820.71	16.57	NP	804.14	14.80	NP	805.91	14.66	NP	806.05
4009-15	826.54	22.53	NP	804.01	20.76	NP	805.78	20.85	NP	805.69
4009-16	826.72	22.70	NP	804.02	20.93	NP	805.79	26.87	NP	799.85
4009-16A	826.84	22.72	NP	804.12	20.94	NP	805.90	27.03	NP	799.81
4009-17	820.53	17.18	NP	803.35	14.55	NP	805.98	14.25	NP	806.28
4009-18	834.78	30.73	NP	804.05	26.51	NP	808.27	29.02	NP	805.76
4009-19	824.94	20.91	NP	804.03	19.15	NP	805.79	19.19	NP	805.75
4009-20	822.90	18.69	NP	804.21	17.04	NP	805.86	17.29	NP	805.61
4009-21	825.02 **	19.03	NP	804.07	19.33	NP	805.69	19.41	NP	805.61
4009-22	817.40	13.27	NP	804.13	11.55	NP	805.85	9.90	NP	807.50
4009-23S	824.48	18.33	NP	806.15	17.02	NP	807.46	14.17	NP	810.31
4009-23D	824.39	19.23	NP	805.16	17.93	NP	806.46	16.90	NP	807.49
4009-24	822.32	16.15	NP	806.17	16.19	NP	806.13	13.82	NP	808.50
4009-25S	823.61	16.00	NP	807.61	14.81	NP	808.80	13.73	NP	809.88
4009-25D	823.57	16.00	NP	807.57	14.75	NP	808.82	13.65	NP	809.92
4009-26	824.31	19.92	NP	804.39	17.94	NP	806.37	16.75	NP	807.56
4009-27S	826.19	22.02	NP	804.17	20.27	NP	805.92	19.56	NP	806.63
4009-27I	826.03	21.85	NP	804.18	20.03	NP	806.00	19.58	NP	806.45
4009-27D	825.87	21.65	NP	804.22	19.86	NP	806.01	19.41	NP	806.46
4009-28	821.59	17.65	NP	803.94	15.80	NP	805.79	15.72	NP	805.87
4009-29S	825.77	21.60	NP	804.17	19.80	NP	805.97	19.40	NP	806.37
4009-29I	825.68	21.61	NP	804.07	19.89	NP	805.79	19.63	NP	806.05
4009-29D	825.67	21.60	NP	804.07	19.86	NP	805.81	19.81	NP	805.86
4009-30	827.50 **	NM	NM	NM	21.32	NP	806.18	20.81	NP	806.69
4009-30A	826.69 **	NM	NM	NM	20.82	NP	805.87	20.97	NP	805.72
WELL 1-1	832.36	28.33	NP	804.03	26.56	NP	805.80	26.46	NP	805.90
WELL 1-1A	831.13	27.10	NP	804.03	24.21	NP	806.92	25.37	NP	805.76
ERT-1S	824.01	14.96	14.02	808.25	13.36	12.48	809.90	9.55	8.60	813.65
ERT-1I	824.03	15.23	NP	808.80	13.83	NP	810.20	12.46	NP	811.57
ERT-1D	823.88	15.18	NP	808.70	13.80	NP	810.08	10.80	10.72	813.01
ERT-2S	824.67 *	15.81	NP	808.86	14.50	NP	810.17	13.11	NP	811.56
ERT-2I	824.54 *	15.71	15.70	808.83	14.36	NP	810.18	13.08	NP	811.46
ERT-2D	824.44 *	15.28	NP	809.16	14.21	NP	810.23	12.80	NP	811.64
ERT-3S	824.38	15.09	NP	809.29	13.94	NP	810.44	11.21	NP	813.17
ERT-3I	824.23	15.85	NP	808.38	14.53	NP	809.70	13.21	NP	811.02
ERT-3D	824.20	16.20		808.00	15.01	NP	809.19	13.75	NP	810.45
ERT-4S	823.54	Dry	NP	--	13.18	NP	810.36	11.81	NP	811.73
ERT-4I	823.49	15.70	NP	807.79	14.46	NP	809.03	13.31	13.30	810.17
ERT-4D	823.63	15.90	NP	807.73	14.64	NP	808.99	13.51	13.49	810.10
ERT-5	824.64 *	14.93	NP	809.71	13.68	NP	810.96	12.45	NP	812.19
ERT-6	824.74 *	15.64	NP	809.10	14.39	NP	810.35	13.13	NP	811.61
ERT-7	823.96	16.80	NP	807.16	15.68	NP	808.28	14.45	NP	809.51
ERT-8	824.69	17.66	NP	807.03	16.56	NP	808.13	15.43	NP	809.26

Notes:
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* - Elevation data from Conceptual Site Model (Lockheed Martin, 2012)
** - Elevation data remeasured on 4/1/15 after well repairs
NM - Not measured
NP - No product / LNAPL
Corrected based on assumed LNAPL density of 0.85 g/cm3

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report/ First/Second Quarter 2015
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-1 2/20/2014 Shallow ug/L	4009-1 5/28/2014 Shallow ug/L	4009-1 8/28/2014 Shallow ug/L	4009-1 12/9/2014 Shallow ug/L	4009-1 4/20/2015 Shallow ug/L	4009-2 2/20/2014 Shallow ug/L	4009-2 5/28/2014 Shallow ug/L	4009-2 8/28/2014 Shallow ug/L	4009-2 12/9/2014 Shallow ug/L	4009-2 4/20/2015 Shallow ug/L	4009-3 2/20/2014 Shallow ug/L	4009-3 5/28/2014 Shallow ug/L	4009-3 8/28/2014 Shallow ug/L	4009-3 12/9/2014 Shallow ug/L	4009-3 4/20/2015 Shallow ug/L	4009-4 2/20/2014 Intermediate ug/L	4009-4 5/28/2014 Intermediate ug/L	4009-4 8/28/2014 Intermediate ug/L	4009-4 12/9/2014 Intermediate ug/L	4009-4 4/20/2015 Intermediate ug/L	4009-5 2/20/2014 Intermediate ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.6 J	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.1	1.3	0.9 J	1.5	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U
1,1-Dichloroethane	5	1.0 U	0.5 J	1.0 UJ	0.37 J	NS	2.7	2.3	2.6 J	3.4	NS	6.3	6.6	7.5 J	4.8	NS	1.0 U	0.4 J	1.0 UJ	1.0 U	NS	2.7
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.3	1.1	1.1 J	0.87 J	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	2.2
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 UJ	5.0 U	NS	1.0 U	1.0 U	1.0 UJ	5.0 U	NS	1.0 U	1.0 U	1.0 UJ	5.0 U	NS	1.0 U	1.0 U	1.0 UJ	5.0 U	NS	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U
1,2,4-Trimethylbenzene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 UJ	2.0 U	NS	1.0 U	1.0 U	1.0 UJ	2.0 U	NS	1.0 U	1.0 U	1.0 UJ	2.0 U	NS	1.0 U	1.0 U	1.0 UJ	2.0 U	NS	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U
2-Butanone (MEK)	50	1.3 J	10 U	10 UJ	10 U	NS	10 U	10 U	10 UJ	10 U	NS	10 U	10 U	10 UJ	10 U	NS	1.5 J	10 U	10 UJ	10 U	NS	10 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 UJ	10 U	NS	5.0 U	5.0 U	5.0 UJ	10 U	NS	5.0 U	5.0 U	5.0 UJ	10 U	NS	5.0 U	5.0 U	5.0 UJ	10 U	NS	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 UJ	10 U	NS	5.0 U	5.0 U	5.0 UJ	10 U	NS	5.0 U	5.0 U	5.0 UJ	10 U	NS	5.0 U	5.0 U	5.0 UJ	10 U	NS	5.0 U
Acetone	50*	10	4.2 J	12 J	10 U	NS	7.2 J	3.5 J	9.9 J	10 U	NS	10	4.6 J	12 J	10 U	NS	12	3.4 J	8.0 J	10 U	NS	11
Benzene	1	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	3.2	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	3.6 J	1.0 U	NS	1.0 U
Bromodichloromethane	50	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U
Chloromethane		1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U
cis-1,2-Dichloroethene	5	1.6	2.0	2.2 J	2.4	NS	14	12	9.0 J	6.9	NS	77	65	63 J	48	NS	1.0 U	79	1.3 J	0.45 J	NS	250 D
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 UJ	1.0 U*	NS	1.0 U	1.0 U	1.0 UJ	1.0 U*	NS	1.0 U	1.0 U	1.0 UJ	1.0 U*	NS	1.0 U	1.0 U	1.0 UJ	1.0 U*	NS	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U
Methyl Acetate		2.5 U	2.5 U	2.5 UJ	10 U	NS	2.5 U	2.5 U	2.5 UJ	10.0 U	NS	2.5 U	2.5 U	2.5 UJ	10 U	NS	2.5 U	2.5 U	2.5 UJ	10 U	NS	2.5 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U
Tetrachloroethene	5	1.4	0.4 J	1.7 J	0.84 J*	NS	1.0 U	1.0 U	1.0 UJ	0.51 J*	NS	1.0 U	1.0 U	1.0 UJ	1.0 U*	NS	1.0 U	1.0 U	1.0 UJ	1.0 U*	NS	1.0 U
Toluene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	0.6 J	1.0 U	NS	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	0.46 J	NS	1.0 U	1.0 U	1.0 UJ	0.45 J	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 UJ	1.0 U*	NS	1.0 U	1.0 U	1.0 UJ	1.0 U*	NS	1.0 U	1.0 U	1.0 UJ	1.0 U*	NS	1.0 U	1.0 U	1.0 UJ	1.0 U*	NS	1.0 U
Trichloroethene	5	1.4	1.1	1.7 J	1.5	NS	2.9	2.7	2.3 J	2.5	NS	26	15	12 J	11	NS	1.0 U	1.5	1.0 UJ	1.0 U	NS	21
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	6.9	1.3	5.1 J	6.5	NS	11	13	33 J	16	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	39
Xylenes, Total		2.0 U	2 U	2.0 UJ	2.0 U	NS	2.0 U	2.0 U	2.0 UJ	2.0 U	NS	2.0 U	2.0 U	2.0 UJ	2.0 U	NS	2.0 U	2.0 U	2.0 UJ	2.0 U	NS	2.0 U
Total VOCs		15.7	8.15	17.6	5.11	NS	34.8	26.3	29.8	21.8	NS	132	105	130	81.1	NS	13.5	84.3	13.5	0.45	NS	327
Total VOCs (w/o Acteone or Methylene Chloride)		5.7	3.95	5.6	5.11	NS	27.6	22.8	19.9	21.8	NS	122	101	118	81.1	NS	1.5	80.9	5.5	0.45	NS	316

Notes:
NYSDEC GA GW Standard - New York State Department of Environmental
Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or
reported concentration is estimated
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
* - Laboratory control sample / duplicate exceeds control limits
2-This is a duplicate sample from 4009-25D
3-This is a duplicate sample from 4009-29I
4-This is a duplicate sample from 4009-12
NS - not sampled

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report/ First/Second Quarter 2015
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-5 5/28/2014 Intermediate ug/L	4009-5 8/28/2014 Intermediate ug/L	4009-5 12/9/2014 Intermediate ug/L	4009-5 4/20/2015 Intermediate ug/L	4009-6 2/20/2014 Shallow ug/L	4009-6 5/28/2014 Shallow ug/L	4009-6 8/28/2014 Shallow ug/L	4009-6 12/9/2014 Shallow ug/L	4009-6 4/20/2015 Shallow ug/L	4009-7 2/20/2014 Shallow ug/L	4009-7 5/28/2014 Shallow ug/L	4009-7 8/28/2014 Shallow ug/L	4009-7 12/9/2014 Shallow ug/L	4009-7 4/20/2015 Shallow ug/L	4009-8 2/20/2014 Intermediate ug/L	4009-8 5/28/2014 Intermediate ug/L	4009-8 8/28/2014 Intermediate ug/L	4009-8 12/9/2014 Intermediate ug/L	4009-8 4/20/2015 Intermediate ug/L	4009-9 2/20/2014 Shallow ug/L	4009-9 5/28/2014 Shallow ug/L	4009-9 8/28/2014 Shallow ug/L
1,1,1-Trichloroethane	5	5.0 U	1.0 UJ	2.5 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	3.3 U	NS	790 D	1000	2900 DJ	1500	NS	1.0 U	1.0 U	1.0 UJ
1,1,2,2-Tetrachloroethane	5	5.0 U	1.0 UJ	2.5 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	3.3 U	NS	1.0 U	20 U	20 UDJ	25 U	NS	1.0 U	1.0 U	1.0 UJ
1,1,2-Trichloro-1,2,2-Trifluoroethane		5.0 U	1.0 UJ	2.5 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	3.3 U	NS	14	13 J	20 UDJ	17 J	NS	1.0 U	1.0 U	1.0 UJ
1,1,2-Trichloroethane	1	5.0 U	1.0 UJ	2.5 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	3.3 U	NS	0.5 J	20 U	20 UDJ	25 U	NS	1.0 U	1.0 U	1.0 UJ
1,1-Dichloroethane	5	3.0 J	1.3 J	1.7 J	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 J	0.48 J	1.0 UJ	3.3 U	NS	40	62	72 DJ	58	NS	1.0 U	1.0 U	1.0 UJ
1,1-Dichloroethene	5	1.8 J	1.0 UJ	2.5 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	0.29 J	1.0 UJ	3.3 U	NS	31	120	94 DJ	120	NS	1.0 U	1.0 U	1.0 UJ
1,2,3-Trimethylbenzene		5.0 U	1.0 UJ	13 U	NS	1.0 U	1.0 U	1.0 UJ	5.0 U	NS	1.0 U	1.0 U	1.0 UJ	17 U	NS	1.0 U	20 U	20 UDJ	130 U	NS	1.0 U	1.0 U	1.0 UJ
1,2,4-Trichlorobenzene	5	5.0 U	1.0 UJ	2.5 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	3.3 U	NS	1.0 U	20 U	20 UDJ	25 U	NS	1.0 U	1.0 U	1.0 UJ
1,2,4-Trimethylbenze	5	5.0 U	1.0 UJ	2.5 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	3.3 U	NS	1.0 U	20 U	20 UDJ	25 U	NS	1.0 U	1.0 U	1.0 UJ
1,2-Dibromo-3-Chloropropane	0.04	5.0 U	1.0 UJ	5.0 U	NS	1.0 U	1.0 U	1.0 UJ	2.0 U	NS	1.0 U	1.0 U	1.0 UJ	6.7 U	NS	1.0 U	20 U	20 UDJ	50 U	NS	1.0 U	1.0 U	1.0 UJ
1,2-Dibromoethane (Ethylene Dibromide)	5	5.0 U	1.0 UJ	2.5 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	3.3 U	NS	1.0 U	20 U	20 UDJ	25 U	NS	1.0 U	1.0 U	1.0 UJ
1,2-Dichlorobenzene	3	5.0 U	1.0 UJ	2.5 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	3.3 U	NS	1.0 U	20 U	20 UDJ	25 U	NS	1.0 U	1.0 U	1.0 UJ
1,2-Dichloroethane	0.6	5.0 U	1.0 UJ	2.5 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	3.3 U	NS	1.0 U	20 U	20 UDJ	25 U	NS	1.0 U	1.0 U	1.0 UJ
1,2-Dichloropropane	1	5.0 U	1.0 UJ	2.5 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	3.3 U	NS	1.0 U	20 U	20 UDJ	25 U	NS	1.0 U	1.0 U	1.0 UJ
1,3,5-Trimethylbenzene (Mesitylene)	5	5.0 U	1.0 UJ	2.5 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	3.3 U	NS	1.0 U	20 U	20 UDJ	25 U	NS	1.0 U	1.0 U	1.0 UJ
1,3-Dichlorobenzene	3	5.0 U	1.0 UJ	2.5 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	3.3 U	NS	1.0 U	20 U	20 UDJ	25 U	NS	1.0 U	1.0 U	1.0 UJ
1,4-Dichlorobenzene	3	5.0 U	1.0 UJ	2.5 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	3.3 U	NS	1.0 U	20 U	20 UDJ	25 U	NS	1.0 U	1.0 U	1.0 UJ
2-Butanone (MEK)	50	50 U	10 UJ	25 U	NS	10 U	10 U	10 UJ	10 U	NS	10 U	1.4 J	10 UJ	33 U	NS	10 U	200 U	200 UDJ	250 U	NS	1.4 J	10 U	10 UJ
2-Hexanone	50*	25 U	5.0 UJ	25 U	NS	5.0 U	5.0 U	5.0 UJ	10 U	NS	5.0 U	5.0 U	5.0 UJ	33 U	NS	5.0 U	100 U	100 UDJ	250 U	NS	5.0 U	5.0 U	5.0 UJ
4-Methyl-2-pentanone (MIBK)		25 U	5.0 UJ	25 U	NS	5.0 U	5.0 U	5.0 UJ	10 U	NS	5.0 U	5.0 U	5.0 UJ	33 U	NS	5.0 U	100 U	100 UDJ	250 U	NS	5.0 U	5.0 U	5.0 UJ
Acetone	50*	50 U	11 J	25 U	NS	8.5 J	10 U	9.8 J	10 U	NS	5.3 J	7.1 J	14 J	33 U	NS	9.6 J	200 U	200 UDJ	250 U	NS	12	3.3 J	11 J
Benzene	1	5.0 U	1.7 J	0.62 J	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.1	1.0 U	0.41 J	3.3 U	NS	0.67 J	20 U	20 UDJ	25 U	NS	1.0 U	1.0 U	1.3 J
Bromodichloromethane	50	5.0 U	1.0 UJ	2.5 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	3.3 U	NS	1.0 U	20 U	20 UDJ	25 U	NS	1.0 U	1.0 U	1.0 UJ
Bromoform	50*	5.0 U	1.0 UJ	2.5 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	3.3 U	NS	1.0 U	20 U	20 UDJ	25 U*	NS	1.0 U	1.0 U	1.0 UJ
Bromomethane	5	5.0 U	1.0 UJ	2.5 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	3.3 U	NS	1.0 U	20 U	20 UDJ	25 U	NS	1.0 U	1.0 U	1.0 UJ
Carbon disulfide		5.0 U	1.0 UJ	2.5 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	3.3 U	NS	1.0 U	20 U	20 UDJ	25 U	NS	1.0 U	1.0 U	1.0 UJ
Carbon tetrachloride	5	5.0 U	1.0 UJ	2.5 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	3.3 U	NS	1.0 U	20 U	20 UDJ	25 U	NS	1.0 U	1.0 U	1.0 UJ
Chlorobenzene	5	5.0 U	1.0 UJ	2.5 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	3.3 U	NS	1.0 U	20 U	20 UDJ	25 U	NS	1.0 U	1.0 U	1.0 UJ
Chloroethane	5	5.0 U	1.0 UJ	2.5 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	0.3 J	1.0 UJ	3.3 U	NS	2.2	20 U	20 UDJ	25 U	NS	1.0 U	1.0 U	1.0 UJ
Chloroform	7	5.0 U	1.0 UJ	2.5 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	3.3 U	NS	0.6 J	20 U	20 UDJ	25 U	NS	1.0 U	1.0 U	1.0 UJ
Chloromethane		5.0 U	1.0 UJ	2.5 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	3.3 U	NS	1.0 U	20 U	20 UDJ	25 U	NS	1.0 U	1.0 U	1.0 UJ
cis-1,2-Dichloroethene	5	280	170 J	170	NS	1.0 U	1.0 U	1.0 UJ	0.24 J	NS	20	46	36 J	38	NS	440 D	310	550 DJ	490	NS	6.3	4.0	13 J
cis-1,3-Dichloropropene	0.4	5.0 U	1.0 UJ	2.5 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	3.3 U	NS	1.0 U	20 U	20 UDJ	25 U	NS	1.0 U	1.0 U	1.0 UJ
Cyclohexane		5.0 U	1.0 UJ	2.5 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	3.3 U	NS	1.0 U	20 U	20 UDJ	25 U	NS	1.0 U	1.0 U	1.0 UJ
Dibromochloromethane	50	5.0 U	1.0 UJ	2.5 U*	NS	1.0 U	1.0 U	1.0 UJ	1.0 U*	NS	1.0 U	1.0 U	1.0 UJ	3.3 U*	NS	1.0 U	20 U	20 UDJ	25 U	NS	1.0 U	1.0 U	1.0 UJ
Dichlorodifluoromethane	5	5.0 U	1.0 UJ	2.5 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	3.3 U	NS	1.0 U	20 U	20 UDJ	25 U	NS	1.0 U	1.0 U	1.0 UJ
Ethylbenzene	5	5.0 U	1.0 UJ	2.5 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	3.3 U	NS	1.0 U	20 U	20 UDJ	25 U	NS	1.0 U	1.0 U	1.0 UJ
Isopropylbenzne (Cumene)	5	5.0 U	1.0 UJ	2.5 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	3.3 U	NS	1.0 U	20 U	20 UDJ	25 U	NS	1.0 U	1.0 U	1.0 UJ
Methyl Acetate		13 U	2.5 UJ	25 U	NS	2.5 U	2.5 U	2.5 UJ	10 U	NS	2.5 U	2.5 U	2.5 UJ	33 U	NS	2.5 U	50 U	50 UDJ	250 U	NS	2.5 U	2.5 U	2.5 UJ
Methyl Cyclohexane		5.0 U	1.0 UJ	2.5 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	3.3 U	NS	1.0 U	20 U	20 UDJ	25 U	NS	1.0 U	1.0 U	1.0 UJ
Methylene Chloride	5	4.6 J	1.0 UJ	2.5 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	3.3 U	NS	1.0 U	20 U	20 UDJ	25 U	NS	1.0 U	1.0 U	1.0 UJ
Methyl Tert Butyl Ether	10	5.0 U	1.0 UJ	2.5 U	NS	0.3 J	0.27 J	1.0 UJ	0.23 J	NS	1.0 U	1.0 U	1.0 UJ	3.3 U	NS	1.0 U	20 U	20 UDJ	25 U	NS	1.0 U	1.0 U	1.0 UJ
Styrene	5	5.0 U	1.0 UJ	2.5 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	3.3 U	NS	1.0 U	20 U	20 UDJ	25 U	NS	1.0 U	1.0 U	1.0 UJ
Tetrachloroethene	5	5.0 U	1.0 UJ	2.5 U*	NS	1.0 U	1.0 U	1.0 UJ	1.0 U*	NS	1.0 U	1.0 U	1.0 UJ	3.3 U*	NS	1.3	20 U	20 UDJ	25 U	NS	1.0 U	1.0 U	1.0 UJ
Toluene	5	5.0 U	1.0 UJ	2.5 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	3.3 U	NS	1.0 U	20 U	20 UDJ	25 U	NS	1.0 U	1.0 U	1.0 UJ
trans-1,2-Dichloroethene	5	5.0 U	1.0 UJ	0.69 J	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	3.3 U	NS	1.1	20 U	20 UDJ	25 U	NS	1.0 U	1.0 U	1.0 UJ
trans-1,3-Dichloropropene	0.4	5.0 U	1.0 UJ	2.5 U*	NS	1.0 U	1.0 U	1.0 UJ	1.0 U*	NS	1.0 U	1.0 U	1.0 UJ	3.3 U*	NS	1.0 U	20 U	20 UDJ	25 U	NS	1.0 U	1.0 U	1.0 UJ
Trichloroethene	5	19	12 J	14	NS	0.5 J	0.61 J	1.0 UJ	0.37 J	NS	2.1	4.1	3.3 J	2.7 J	NS	19	20 U	20 UDJ	7.1 J	NS	0.5 J	0.66 J	0.67 J
Trichlorofluoromethane	5	5.0 U	1.0 UJ	2.5 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	3.3 U	NS	1 U	20 U	20 UDJ	25 U	NS	1.0 U	1.0 U	1.0 UJ
Vinyl chloride	2	41	14 J	31	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	2.5	3.1	3.1 J	3.0 J	NS	44	140	92 DJ	44	NS	1.0 U	1.0 U	1.0 UJ
Xylenes, Total		10 U	2.0 UJ	5.0 U	NS	2.0 U	2.0 U	2.0 UJ	2.0 U	NS	2.0 U	2.0 U	2.0 UJ	6.7 U	NS	2.0 U	40 U	40 UDJ	50 U	NS	1.0 U	2.0 U	2.0 UJ
Total VOCs		349	210	218	NS	9.29	0.88	9.8	0.84	NS	32	62.8	56.8	43.7	NS	1394	1645	3717	2236	NS	20.2	7.96	26
Total VOCs (w/o Acteone or Methylene Chloride)		345	199	218	NS	0.79	0.88	0	0.84	NS	26.7	55.7	42.8	43.7	NS	1384	1645	3717	2236	NS	8.24	4.66	15

Notes:
NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or reported concentration is estimated
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
* - Laboratory control sample / duplicate exceeds control limits
2-This is a duplicate sample from 4009-25D
3-This is a duplicate sample from 4009-29I
4-This is a duplicate sample from 4009-12
NS - not sampled

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report/ First/Second Quarter 2015
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-9 12/9/2014 Shallow ug/L	4009-9 4/20/2015 Shallow ug/L	4009-10 2/20/2014 Shallow ug/L	4009-10 5/28/2014 Shallow ug/L	4009-10 8/28/2014 Shallow ug/L	4009-10 12/9/2014 Shallow ug/L	4009-10 4/20/2015 Shallow ug/L	4009-11 2/20/2014 Deep ug/L	4009-11 5/28/2014 Deep ug/L	4009-11 8/28/2014 Deep ug/L	4009-11 12/9/2014 Deep ug/L	4009-11 4/20/2015 Deep ug/L	4009-11A 2/20/2014 shallow ug/L	4009-11A 5/28/2014 shallow ug/L	4009-11A 8/28/2014 shallow ug/L	4009-11A 12/9/2014 shallow ug/L	4009-11A 4/20/2015 shallow ug/L	4009-12 2/20/2014 Deep ug/L	4009-12 5/28/2014 Deep ug/L	4009-12 8/28/2014 Deep ug/L	4009-12 12/9/2014 Deep ug/L	4009-12 4/20/2015 Deep ug/L	DUP_01 ⁴ 4/20/2015 Deep ug/L	
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	0.32 J	1.0 U	1.0 U	1.0 U	1.9 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	32	43	1.0 U	290	1.0 U	1.0 U	
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	1.0 U	
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	1.0 U	
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	1.0 U	
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	4.0	6.5	1.0 U	29	1.8	1.8	
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	3.4	6.1	1.0 U	30	1.0 U	1.0 U	
1,2,3-Trimethylbenzene		5.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	110 U	1.0 U	1.0 U	
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	1.0 U	
1,2,4-Trimethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	1.0 U	
1,2-Dibromo-3-Chloropropane	0.04	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	44 U	1.0 U	1.0 U	
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	1.0 U	
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	1.0 U	
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	1.0 U	
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	1.0 U	
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	1.0 U	
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	1.0 U	
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	1.0 U	
2-Butanone (MEK)	50	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	220 U	10 U	10 U	
2-Hexanone	50*	10 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	220 U	5.0 U	5.0 U	
4-Methyl-2-pentanone (MIBK)		10 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	220 U	5.0 U	5.0 U	
Acetone	50*	10 U	7.1 J	10	3.2 J	7.5 J	10 U	9.2 J	7.8 J	4.6 J	10 UJ	10 U	6.7 J	9.8 J	4.1 J	10 J	10 U	7.6 J	5.8 J	3.8 J	7.0 J	220 U	7.1 J	9.0 J	
Benzene	1	1.3	1.0 U	0.6 J	0.53 J	2.3 J	26	1.0 U	1.0 U	1.0 U	1.0 UJ	7.8	5.6	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.5	1.6	22 U	2.7	2.6	
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	1.0 U	
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U*	1.0 U	1.0 U	
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	1.0 U	
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	1.0 U	
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	1.0 U	
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	1.0 U	
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	1.0 U	
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	1.0 U	
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	1.0 U	
cis-1,2-Dichloroethene	5	7.0	1.9	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	13	9.5	8.5	63	4.1	3.8	
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	1.0 U	
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	1.0 U	
Dibromochloromethane	50	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	1.0 U	
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	1.0 U	
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	1.0 U	
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	1.0 U	
Methyl Acetate		10 U	2.5 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U	2.5 U	2.5 U	220 U	2.5 U	2.5 U	
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	1.0 U	
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	1.0 U	
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	1.0 U	
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	1.0 U	
Tetrachloroethene	5	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	1.0 U	
Toluene	5	1.0 U	1.0 U	2.0	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0	1.0	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	0.8 J	0.74 J	22 U	1.0 U	1.0 U	
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	1.0 U	
trans-1,3-Dichloropropene	0.4	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	1.0 U	
Trichloroethene	5	0.80 J	0.52 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	17	18	1.0 U	64	1.0 U	1.0 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	1.0 U	
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	6.1	3.7	0.9 J	30	2.3	2.4	
Xylenes, Total																									

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report/ First/Second Quarter 2015
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-12A 2/20/2014 Intermediate ug/L	4009-12A 5/28/2014 Intermediate ug/L	4009-12A 8/28/2014 Intermediate ug/L	4009-12A 12/9/2014 Intermediate ug/L	4009-12A 4/20/2015 Intermediate ug/L	4009-13 2/20/2014 Deep ug/L	4009-13 5/28/2014 Deep ug/L	4009-13 8/28/2014 Deep ug/L	4009-13 12/9/2014 Deep ug/L	4009-13A 2/20/2014 Shallow ug/L	4009-13A 5/28/2014 Shallow ug/L	4009-13A 8/28/2014 Shallow ug/L	4009-13A 12/9/2014 Shallow ug/L	4009-13A 4/20/2015 Shallow ug/L	4009-14 2/20/2014 Deep ug/L	4009-14 5/28/2014 Deep ug/L	4009-14 8/28/2014 Deep ug/L	4009-14 12/9/2014 Deep ug/L	4009-14 4/20/2015 Deep ug/L	4009-15 2/20/2014 Deep ug/L	4009-15 5/28/2014 Deep ug/L	4009-15 8/28/2014 Deep ug/L	
1,1,1-Trichloroethane	5	34	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,1-Dichloroethane	5	4.3	7.8	4.3	2.8	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 J	0.53 J	1.0 U	
1,1-Dichloroethene	5	3.8	1.3	0.6 J	0.53 J	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,2,4-Trimethylbenze	5	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
2-Butanone (MEK)	50	10 U	10 U	10 U	10 U	NS	10 U	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1.3 J	10 U	
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	10 U	NS	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	10 U	NS	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	
Acetone	50*	9.9 J	3.9 J	10 U	10 U	NS	8.4 J	3.8 J	10 UJ	10 U	8.9 J	8.4 J	10 U	11 J	10 U	6.8 J	6.3 J	4.3 J	11	10 U	7.1 J	7.5 J	5.1 J	7.2 J
Benzene	1	1.0 U	1.0 U	0.57 J	0.31 J	NS	1.0 U	0.42 J	4.8 J	1.0	0.96 J	1.0 U	0.58 J	1.0 UJ	0.96 J	1.0 U	1.0 U	1.0 U	1.0 U	0.54 J	1.2	1.0 U	0.5 J	
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Bromomethane		1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Chloroethane	5	1.0 U	7.5	7.0	4.1	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
cis-1,2-Dichloroethene	5	15	18	15	14	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	NS	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Methyl Acetate		2.5 U	2.5 U	2.5 U	10 U	NS	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U	2.5 U	2.5 U	10 U	2.5 U	2.5 U	2.5 U	2.5 U	
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1 U*	NS	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Toluene	5	1.0 U	0.55 J	0.53 J	1 U	NS	1.0 U	3.7	2.7 J	0.55 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	0.91 J	1.0	0.92 J	1.0	1.0 U	0.56 J	0.61 J	
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1 U*	NS	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Trichloroethene	5	19	2.2	1.0	0.30 J	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Vinyl chloride	2	6.4	1.0 U	1.7	6.5	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	NS	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	
Total VOCs		92.4	41.3	30.7	28.5	NS	8.4	7.92	7.5	1.55	9.9	8.4	0.58	11	0.96	6.8	6.3	5.21	12	1.46	9.3	8.02	7.49	8.31
Total VOCs (w/o Acteone or Methylene Chloride)		82.5	37.4	30.7	28.5	NS	0	4.12	7.5	1.55	1.0	0	0.58	0.0	0.96	0	0	0.91	1.0	1.46	2.2	0.52	2.39	1.11

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report/ First/Second Quarter 2015
Vestal Water Supply Site
Site Number 7-04-009A

[illegible]

Notes:

NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard

 - Concentration exceeds NYSDEC Class GA Standard

U - Compound was not detected at the indicated concentration

J - Compound detected below the reporting limit or reported concentration is estimated

B - Analyte detected in the method blank and sample

E - Estimated value

D- Result of diluted sample shown

* - Laboratory control sample / duplicate exceeds control limits

2-This is a duplicate sample from 4009-25D

3-This is a duplicate sample from 4009-29I

4-This is a duplicate sample from 4009-12

NS - not sampled

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report/ First/Second Quarter 2015
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-23S 2/20/2014 Shallow ug/L	4009-23S 5/28/2014 Shallow ug/L	4009-23S 8/28/2014 Shallow ug/L	4009-23S 12/9/2014 Shallow ug/L	4009-23S 4/20/2015 Shallow ug/L	4009-23D 2/20/2014 Intermediate ug/L	4009-23D 5/28/2014 Intermediate ug/L	4009-23D 8/28/2014 Intermediate ug/L	4009-23D 12/9/2014 Intermediate ug/L	4009-23D 4/20/2015 Intermediate ug/L	4009-24 2/20/2014 Shallow ug/L	4009-24 5/28/2014 Shallow ug/L	4009-24 8/28/2014 Shallow ug/L	4009-24 12/9/2014 Shallow ug/L	4009-24 4/20/2015 Shallow ug/L	4009-25S 2/20/2014 Shallow ug/L	4009-25S 5/28/2014 Shallow ug/L	4009-25S 8/28/2014 Shallow ug/L	4009-25S 12/9/2014 Shallow ug/L	4009-25S 4/20/2015 Shallow ug/L	4009-25D 2/20/2014 Shallow ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	130 D	720	140 DJ	570	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	2600 D	3300	9900 DJ	3800	NS	1900 D
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	10 U	1.0 UJ	6.7 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	40 U	40 UDJ	50 U	NS	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 UJ	1.0 U	NS	24	18	12 J	8.2	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	31	40 U	40 UDJ	32 J	NS	32
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	10 U	1.0 UJ	6.7 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	40 U	40 UDJ	50 U	NS	1.0 U
1,1-Dichloroethane	5	3.2	4.4	2.5 J	2.2	NS	250 D	420	220 DJ	280	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	87	140	120 DJ	99	NS	74
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	31	78	23 J	40	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	110 D	410	650 DJ	280	NS	120 D
1,2,3-Trimethylbenzene		1.8	0.38 J	0.44 J	5.0 U	NS	10 UD	10 U	1.0 UJ	33 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	40 UD	40 U	40 UDJ	250 U	NS	20 UD
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	10 U	1.0 UJ	6.7 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	40 U	40 UDJ	50 U	NS	1.0 U
1,2,4-Trimethylbenzene	5	8.6	2.0	4.2 J	1.0 U	NS	10 UD	10 U	1.0 UJ	6.7 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	40 UD	40 U	40 UDJ	50 U	NS	20 UD
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 UJ	2.0 U	NS	1.0 U	10 U	1.0 UJ	13 U	NS	1.0 U	1.0 U	1.0 UJ	2.0 U	NS	1.0 U	40 U	40 UDJ	100 U	NS	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	10 U	1.0 UJ	6.7 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	40 U	40 UDJ	50 U	NS	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	10 U	1.0 UJ	6.7 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	40 U	40 UDJ	50 U	NS	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	0.4 J	10 U	0.39 J	6.7 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	40 U	40 UDJ	50 U	NS	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	10 U	1.0 UJ	6.7 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	40 U	40 UDJ	50 U	NS	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	4.4	1.2	4.0 J	1.0 U	NS	10 UD	10 U	1.0 UJ	6.7 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	40 UD	40 U	40 UDJ	50 U	NS	20 UD
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	10 U	1.0 UJ	6.7 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	40 U	40 UDJ	50 U	NS	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	10 U	1.0 UJ	6.7 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	40 U	40 UDJ	50 U	NS	1.0 U
2-Butanone (MEK)	50	10 U	10 U	10 UJ	10 U	NS	10 U	100 U	10 UJ	67 U	NS	1.4 J	10 U	10 UJ	10 U	NS	10 U	400 U	400 UDJ	500 U	NS	10 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 UJ	10 U	NS	5.0 U	50 U	5.0 UJ	67 U	NS	5.0 U	5.0 U	5.0 UJ	10 U	NS	5.0 U	200 U	200 UDJ	500 U	NS	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 UJ	10 U	NS	5.0 U	50 U	5.0 UJ	67 U	NS	5.0 U	5.0 U	5.0 UJ	10 U	NS	5.0 U	200 U	200 UDJ	500 U	NS	5.0 U
Acetone	50*	6.1 J	10 U	7.2 J	10 U	NS	8.3 J	100 U	9.8 J	67 U	NS	9.3 J	4.2 J	10 UJ	10 U	NS	10 U	400 U	400 UDJ	500 U	NS	6.0 J
Benzene	1	1.8	1.8	1.8 J	1.1	NS	1.0 U	10 U	0.62 J	6.7 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	40 U	40 UDJ	50 U	NS	1.0 U
Bromodichloromethane	50	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	10 U	1.0 UJ	6.7 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	40 U	40 UDJ	50 U	NS	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	10 U	1.0 UJ	6.7 U *	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	40 U	40 UDJ	50 U *	NS	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	10 U	1.0 UJ	6.7 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	40 U	40 UDJ	50 U	NS	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	10 U	1.0 UJ	6.7 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	40 U	40 UDJ	50 U	NS	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	10 U	1.0 UJ	6.7 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	40 U	40 UDJ	50 U	NS	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	10 U	1.0 UJ	6.7 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	40 U	40 UDJ	50 U	NS	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.2 J	0.64 J	NS	11	11	8.2 J	2.8 J	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	40 U	40 UDJ	50 U	NS	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	10 U	1.0 UJ	6.7 U	NS	1.0 U	1.0 U	0.44 J	0.48 J	NS	1.0 U	40 U	40 UDJ	50 U	NS	1.0 U
Chloromethane		1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	10 U	1.0 UJ	6.7 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	40 U	40 UDJ	50 U	NS	1.0 U
cis-1,2-Dichloroethene	5	2.2	2.2	1.9 J	2.9	NS	580 D	450	460 DJ	330	NS	1.0 U	1.0 U	2.2 J	1.0 U	NS	180 D	210	490 DJ	260	NS	76
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	10 U	1.0 UJ	6.7 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	40 U	40 UDJ	50 U	NS	1.0 U
Cyclohexane		0.8 J	0.61 J	0.85 J	1.0 U	NS	1.0 U	10 U	1.0 UJ	6.7 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	40 U	40 UDJ	50 U	NS	1.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 UJ	1.0 U *	NS	1.0 U	10 U	1.0 UJ	6.7 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	40 U	40 UDJ	50 U	NS	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	10 U	1.0 UJ	6.7 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	40 U	40 UDJ	50 U	NS	1.0 U
Ethylbenzene	5	1.0 U	0.83 J	1.0 UJ	1.0 U	NS	1.0 U	10 U	1.0 UJ	6.7 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	40 U	40 UDJ	50 U	NS	1.0 U
Isopropylbenzne (Cumene)	5	5.3	3.6	5.8 J	2.2	NS	1.0 U	10 U	1.0 UJ	6.7 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	40 U	40 UDJ	50 U	NS	1.0 U
Methyl Acetate		2.5 U	2.5 U	2.5 UJ	10 U	NS	2.5 U	25 U	2.5 UJ	67 U	NS	2.5 U	2.5 U	2.5 UJ	10 U	NS	2.5 U	100 U	100 UDJ	500 U	NS	2.5 U
Methyl Cyclohexane		0.7 J	0.5 J	1.0 UJ	1.0 U	NS	0.3 J	10 U	1.0 UJ	6.7 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	40 U	40 UDJ	50 U	NS	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	10 U	1.0 UJ	6.7 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	40 U	40 UDJ	50 U	NS	1.0 U
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	10 U	1.0 UJ	6.7 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	40 U	40 UDJ	50 U	NS	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	10 U	1.0 UJ	6.7 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	40 U	40 UDJ	50 U	NS	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 UJ	1.0 U *	NS	1.0 U	10 U	1.0 UJ	6.7 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	40 U	40 UDJ	50 U	NS	1.0 U
Toluene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	10 U	1.0 UJ	6.7 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	40 U	40 UDJ	50 U	NS	1.0 U
trans-1,2-Dichloroethene	5	2.4	2.8	1.8 J	1.8	NS	2.3	1.0 U	1.3 J	6.7 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	2.9	40 U	40 UDJ	50 U	NS	2.0
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 UJ	1.0 U *	NS	1.0 U	10 U	1.0 UJ	6.7 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	40 U	40 UDJ	50 U	NS	1.0 U
Trichloroethene	5	1.6	1.6	1.3 J	1.8	NS	8.7	8.3 J	6.1 J	4.9 J	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	32	40 U	2900 DJ	230	NS	16
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	10 U	1.0 UJ	6.7 U	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	40 U	40 UDJ	50 U	NS	1.0 U
Vinyl chloride	2	0.9 J	1.1	1.1 J	0.80 J	NS	630 D	440	530 DJ	340	NS	1.0 U	1.0 U	1.0 UJ	1.0 U	NS	3.7	40 U	40 UDJ	29 J	NS	1.4
Xylenes, Total		2.0 U	2.0 U	2.0 UJ	2.0 U	NS	2.0 U	20 U	2.0 UJ	13 U	NS	2.0 U	2.0 U	2.0 UJ	2.0 U	NS	2.0 U	80 U	80 UDJ	100 U	NS	2.0 U
Total VOCs		39.8	23.1	34.1	13.4	NS	1676	2145	1411	1576	NS	10.7	4.2	2.64	0.48	NS	3047	4060	14060	4730	NS	2227
Total VOCs (w/o Acteone or Methylene Chloride)		33.7	23.1	26.9	13.4	NS	1667	2145	1402	1576	NS	1.4	0	2.64	0.48	NS	3047	4060	14060	4730	NS	2221

Notes:
NYSDEC GA GW Standard - New York State Department of Environmental
Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or
reported concentration is estimated
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
* - Laboratory control sample / duplicate exceeds control limits
2-This is a duplicate sample from 4009-25D
3-This is a duplicate sample from 4009-29I
4-This is a duplicate sample from 4009-12
NS - not sampled

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report/ First/Second Quarter 2015
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	DUP-02 ² 2/20/2014 Shallow ug/L	4009-25D 5/28/2014 Shallow ug/L	DUP-02 ² 5/28/2014 Shallow ug/L	4009-25D 8/28/2014 Shallow ug/L	DUP-02 ² 8/28/2014 Shallow ug/L	4009-25D 12/9/2014 Shallow ug/L	DUP-02 ² 12/9/2014 Shallow ug/L	4009-25D 4/20/2015 Shallow ug/L	4009-26 2/20/2014 Intermediate ug/L	4009-26 5/28/2014 Intermediate ug/L	4009-26 8/28/2014 Intermediate ug/L	4009-26 12/9/2014 Intermediate ug/L	4009-26 4/20/2015 Intermediate ug/L	4009-27S 2/20/2014 Intermediate ug/L	4009-27S 5/28/2014 Intermediate ug/L	4009-27S 8/28/2014 Intermediate ug/L	4009-27S 12/9/2014 Intermediate ug/L	4009-27S 4/20/2015 Intermediate ug/L	4009-27I 2/20/2014 Intermediate ug/L	4009-27I 5/28/2014 Intermediate ug/L	4009-27I 8/28/2014 Intermediate ug/L
1,1,1-Trichloroethane	5	1800 D	3300	3200	820 DJ	810 DJ	1900	1800	NS	98	370	150 DJ	92	NS	54	61	65 J	49	61	1.0 U	1.0 U	1.3 J
1,1,2,2-Tetrachloroethane	5	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	NS	1.0 U	8.0 U	2.0 UDJ	2.0 U	NS	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,1,2-Trichloro-1,2,2-Trifluoroethane		31	22 J	16 J	19 DJ	20 DJ	25 J	77 U	NS	7.7	13	6.0 DJ	7.7	NS	2.8	3.4	2.3 J	2.6	3.3	1.0 U	0.37 J	1.0 UJ
1,1,2-Trichloroethane	1	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	NS	1.0 U	8.0 U	2.0 UDJ	2.0 U	NS	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,1-Dichloroethane	5	79	120	110	53 DJ	51 DJ	50	53 J	NS	27	39	16 DJ	14	NS	1.9	2.2	2.2 J	1.9 J	2.6	1.0 U	1.0 U	1.0 UJ
1,1-Dichloroethene	5	50	330	330	57 DJ	44 DJ	190	130	NS	6.0	46	9.9 DJ	7.8	NS	5.7	8.9	5.6 J	4.6	6.2	1.0 U	1.0 U	1.0 UJ
1,2,3-Trimethylbenzene		1.0 U	20 U	25 U	20 UDJ	10 UDJ	170 U	380 U	NS	2.0 UD	8.0 U	2.0 UDJ	10 U	NS	1.0 U	1.0 U	1.0 UJ	10 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2,4-Trichlorobenzene	5	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	NS	1.0 U	8.0 U	2.0 UDJ	2 U	NS	1.0 U	1.0 U	1.0 UJ	2 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2,4-Trimethylbenzene	5	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	NS	2.0 UD	8.0 U	2.0 UDJ	2.0 U	NS	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	20 U	25 U	20 UDJ	10 UDJ	67 U	150 U	NS	1.0 U	8.0 U	2.0 UDJ	4.0 U	NS	1.0 U	1.0 U	1.0 UJ	4.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	NS	1.0 U	8.0 U	2.0 UDJ	2.0 U	NS	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2-Dichlorobenzene	3	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	NS	1.0 U	8.0 U	2.0 UDJ	2.0 U	NS	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2-Dichloroethane	0.6	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	NS	1.0 U	8.0 U	2.0 UDJ	2.0 U	NS	1.0 U	0.9 J	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2-Dichloropropane	1	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	NS	1.0 U	8.0 U	2.0 UDJ	2.0 U	NS	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	NS	2.0 UD	8.0 U	2.0 UDJ	2.0 U	NS	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,3-Dichlorobenzene	3	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	NS	1.0 U	8.0 U	2.0 UDJ	2.0 U	NS	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,4-Dichlorobenzene	3	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	NS	1.0 U	8.0 U	2.0 UDJ	2.0 U	NS	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
2-Butanone (MEK)	50	10 U	200 U	250 U	200 UDJ	100 UDJ	330 U	770 U	NS	10 U	80 U	20 UDJ	20 U	NS	10 U	10 U	10 UJ	20 U	10 U	10 U	10 U	10 UJ
2-Hexanone	50*	5.0 U	100 U	130 U	100 UDJ	50 UDJ	330 U	770 U	NS	5.0 U	40 U	10 UDJ	20 U	NS	5.0 U	5.0 U	5.0 UJ	20 U	5.0 U	5.0 U	5.0 U	5.0 UJ
4-Methyl-2-pentanone (MIBK)		5.0 U	100 U	130 U	100 UDJ	50 UDJ	330 U	770 U	NS	5.0 U	40 U	10 UDJ	20 U	NS	5.0 U	5.0 U	5.0 UJ	20 U	5.0 U	5.0 U	5.0 U	5.0 UJ
Acetone	50*	5.6 J	200 U	250 U	200 UDJ	100 UDJ	330 U	770 U	NS	10	80 U	20 UDJ	20 U	NS	9.9 J	3.8 J	8.1 UJ	20 U	8.1 J	5.8 J	10 U	7.9 J
Benzene	1	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	NS	0.81 J	8.0 U	2.0 UDJ	0.55 J	NS	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	0.71 J
Bromodichloromethane	50	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	NS	1.0 U	8.0 U	2.0 UDJ	2.0 U	NS	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Bromoform	50*	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U *	77 U	NS	1.0 U	8.0 U	2.0 UDJ	2.0 U *	NS	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Bromomethane	5	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	NS	1.0 U	8.0 U	2.0 UDJ	2.0 U	NS	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Carbon disulfide		1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	NS	1.0 U	8.0 U	2.0 UDJ	2.0 U	NS	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Carbon tetrachloride	5	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	NS	1.0 U	8.0 U	2.0 UDJ	2.0 U	NS	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Chlorobenzene	5	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	NS	1.0 U	8.0 U	2.0 UDJ	2.0 U	NS	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Chloroethane	5	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	NS	1.0 U	8.0 U	2.0 UDJ	2.0 U	NS	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Chloroform	7	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	NS	1.0 U	8.0 U	2.0 UDJ	2.0 U	NS	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Chloromethane		1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	NS	1.0 U	8.0 U	2.0 UDJ	2.0 U	NS	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
cis-1,2-Dichloroethene	5	80	110	140	100 DJ	94 DJ	260	280	NS	120 D	190	96 DJ	85	NS	18	20	19 J	19	21	1.0 U	1.0 U	1.0 UJ
cis-1,3-Dichloropropene	0.4	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	NS	1.0 U	8.0 U	2.0 UDJ	2.0 U	NS	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Cyclohexane		1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	NS	1.0 U	8.0 U	2.0 UDJ	2.0 U	NS	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Dibromochloromethane	50	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	NS	1.0 U	8.0 U	2.0 UDJ	2.0 U	NS	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Dichlorodifluoromethane	5	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	NS	3.9	5.8 J	5.0 DJ	2.8	NS	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Ethylbenzene	5	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	NS	1.0 U	8.0 U	2.0 UDJ	2.0 U	NS	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Isopropylbenzne (Cumene)	5	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	NS	1.0 U	8.0 U	2.0 UDJ	2.0 U	NS	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Methyl Acetate		2.5 U	50 U	63 U	50 UDJ	25 UDJ	330 U	770 U	NS	2.5 U	20 U	5.0 UDJ	20 U	NS	2.5 U	2.5 U	2.5 UJ	20 U	2.5 U	2.5 U	2.5 U	2.5 UJ
Methyl Cyclohexane		1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	NS	1.0 U	8.0 U	2.0 UDJ	2.0 U	NS	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Methylene Chloride	5	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	26 J B	NS	1.0 U	8.4	2.0 UDJ	2.0 U	NS	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Methyl Tert Butyl Ether	10	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	NS	1.0 U	8.0 U	2.0 UDJ	2.0 U	NS	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Styrene	5	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	NS	1.0 U	8.0 U	2.0 UDJ	2.0 U	NS	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Tetrachloroethene	5	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	NS	1.1	8.0 U	0.97 DJ	0.89 J	NS	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Toluene	5	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	NS	1.0 U	8.0 U	2.0 UDJ	2.0 U	NS	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
trans-1,2-Dichloroethene	5	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	NS	1.0 U	8.0 U	2.0 UDJ	2.0 U	NS	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
trans-1,3-Dichloropropene	0.4	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	NS	1.0 U	8.0 U	2.0 UDJ	2.0 U	NS	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Trichloroethene	5	15	10 J	25 U	21 DJ	16 DJ	100	84	NS	45	71	47 DJ	49	NS	25	28	24 J	22	25	1.4	1.1	1.2 J
Trichlorofluoromethane	5	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	NS	1.0 U	8.0 U	2.0 UDJ	2.0 U	NS	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Vinyl chloride	2	1.3	20 U	25 U	20 UDJ	12 DJ	32 J	32 J	NS	12	21	13 DJ	9.4	NS	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Xylenes, Total		2.0 U	40 U	50 U	40 UDJ	20 UDJ	67 U	150 U	NS	2.0 U	16.0 U	4.0 UDJ	4.0 U	NS	2.0 U	2.0 U	2.0 UJ	4.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ
Total VOCs		2062	3892	3821	1070	1047	2557	2405	NS	332	764	344	269	NS	117	128	126	99.1	127.2	7.2	1.47	11.1
Total VOCs (w/o Acteone or Methylene Chloride)		2056	3892	3821	1070	1047	2557	2379	NS	322	756	344	269	NS	107	124	118	99.1	119.1	1.4	1.47	3.21

Notes:
NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or reported concentration is estimated
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
* - Laboratory control sample / duplicate exceeds control limits
2-This is a duplicate sample from 4009-25D
3-This is a duplicate sample from 4009-29I
4-This is a duplicate sample from 4009-12
NS - not sampled

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report/ First/Second Quarter 2015
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID	NYSDEC	4009-27I	4009-27I	4009-27D	4009-27D	4009-27D	4009-27D	4009-27D	4009-28	4009-28	4009-28	4009-28	4009-28	4009-28	4009-29S	4009-29S	4009-29S	4009-29S	4009-29S	4009-29I	DUP_01 ³	4009-29I	DUP_01 ³	
Sampling Date	GA	12/9/2014	4/20/2015	2/20/2014	5/28/2014	8/28/2014	12/9/2014	4/20/2015	2/20/2014	5/28/2014	8/28/2014	12/9/2014	4/20/2015	2/20/2014	5/28/2014	8/28/2014	12/9/2014	4/20/2015	2/20/2014	5/28/2014	2/20/2014	5/28/2014	5/28/2014	
Groundwater Monitoring Zone	Standard	Intermediate	Intermediate	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	
Units	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	
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.3	2.7	1.0 U	3.0	2.9	710 D	650	1000 DJ	480	830	1700 D	1500 D	1600	1500		
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	10 UD	17 U	20 U	1.0 U	1.0 U	25 U	25 U	
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	12	10 U	7.1 DJ	17 U	8.7 J	21	20	25 U	25 U	
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	0.86 J	0.86 J	25 U	25 U	
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.28 J	1.0 U	130 D	35	46 D	29	38	83	86	96	89		
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	0.3 J	1.0 U	1.0 U	1.0 U	92	89	62 D	33	37	150 D	99	230	230		
1,2,3-Trimethylbenzene		5.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	10 U	10 U	10 UD	83 U	20 U	1.0 U	1.0 U	25 U	25 U	
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	10 UD	17 U	20 U	1.0 U	1.0 U	25 U	25 U	
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	10 UD	17 U	20 U	1.0 U	1.0 U	25 U	25 U	
1,2-Dibromo-3-Chloropropane	0.04	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	10 U	10 U	10 UD	33 U	20 U	1.0 U	1.0 U	25 U	25 U	
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	10 UD	17 U	20 U	1.0 U	1.0 U	25 U	25 U	
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	10 UD	17 U	20 U	1.0 U	1.0 U	25 U	25 U	
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	10 UD	17 U	20 U	0.41 J	0.40 J	25 U	25 U	
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	10 UD	17 U	20 U	1.0 U	1.0 U	25 U	25 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	10 UD	17 U	20 U	1.0 U	1.0 U	25 U	25 U	
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	10 UD	17 U	20 U	1.0 U	1.0 U	25 U	25 U	
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	10 UD	17 U	20 U	1.0 U	1.0 U	25 U	25 U	
2-Butanone (MEK)	50	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	100 U	100 UD	170 U	200 U	10 U	10 U	250 U	250 U		
2-Hexanone	50*	10 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	50 UD	170 U	100 U	5.0 U	5.0 U	130 U	130 U		
4-Methyl-2-pentanone (MIBK)		10 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	50 UD	170 U	100 U	5.0 U	5.0 U	130 U	130 U		
Acetone	50*	10 U	9.3 J	9.8 J	4.8 J	8.0 J	10 U	7.1 J	7.9 J	3.7 J	6.8 J	10 U	6.1 J	6.0 J	100 U	100 UD	170 U	200 U	11	13	250 U	250 U		
Benzene	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	0.59 J	0.60 J	25 U	25 U	
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	10 UD	17 U	20 U	1.0 U	1.0 U	25 U	25 U	
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	1.0 U	1.0 U	25 U	25 U	
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	10 UD	17 U	20 U	1.0 U	1.0 U	25 U	25 U	
Carbon disulfide		0.86 J	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.22 J	1.0 U	10 U	10 U	10 UD	17 U	20 U	1.0 U	1.0 U	25 U	25 U	
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	10 UD	17 U	20 U	1.0 U	1.0 U	25 U	25 U	
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	10 UD	17 U	20 U	1.6	1.7	25 U	25 U	
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.9	10 U	10 U	10 UD	17 U	20 U	5.0	4.6	25 U	25 U	
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.69 J	10 U	10 U	10 UD	17 U	20 U	1.1	1.2	25 U	25 U	
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	10 UD	17 U	20 U	1.0 U	1.0 U	25 U	25 U	
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.25 J	1.0 U	260 D	340	410 D	270	320	400 D	350 D	400	380		
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	10 UD	17 U	20 U	1.0 U	1.0 U	25 U	25 U	
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	10 UD	17 U	20 U	1.0 U	1.0 U	25 U	25 U	
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	10 UD	17 U	20 U	1.0 U	1.0 U	25 U	25 U	
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.3	10 U	10 U	10 UD	17 U	20 U	1.2	1.0 U	25 U	25 U	
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	10 UD	17 U	20 U	1.0 U	1.0 U	25 U	25 U	
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	10 UD	17 U	20 U	1.0 U	1.0 U	25 U	25 U	
Methyl Acetate		10 U	2.5 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U	2.5 U	2.5 U	10 U	2.5 U	2.5 U	25 U	25 UD	170 U	20 U	2.5 U	2.5 U	63 U	63 U		
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	10 UD	17 U	20 U	1.0 U	1.0 U	25 U	25 U	
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	10 UD	17 U	20 U	1.0 U	1.0 U	25 U	25 U	
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	10 UD	17 U	20 U	1.0 U	1.0 U	25 U	25 U	
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	10 UD	17 U	20 U	1.0 U	1.0 U	25 U	25 U	
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.95 J	10 U	10 U	10 UD	17 U						

Notes:
NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or reported concentration is estimated
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
* - Laboratory control sample / duplicate exceeds control limits
2-This is a duplicate sample from 4009-25D
3-This is a duplicate sample from 4009-29I
4-This is a duplicate sample from 4009-12
NS - not sampled

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report/ First/Second Quarter 2015
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-29I 8/28/2014 Intermediate ug/L	DUP_01 ³ 8/28/2014 Intermediate ug/L	4009-29I 12/9/2014 Intermediate ug/L	DUP_01 ³ 12/9/2014 Intermediate ug/L	4009-29I 4/20/2015 Intermediate ug/L	DUP_02 ³ 4/20/2015 Intermediate ug/L	4009-29D 2/20/2014 Deep ug/L	4009-29D 5/28/2014 Deep ug/L	4009-29D 8/28/2014 Deep ug/L	4009-29D 12/9/2014 Deep ug/L	4009-29D 4/20/2015 Deep ug/L	4009-30 4/20/2015 Deep ug/L	4009-30A 4/20/2015 Shallow ug/L	Well 1-1 4/20/2015 Deep ug/L	ERT-1I 2/20/2014 Intermediate ug/L	ERT-1D 2/20/2014 Deep ug/L	ERT-3S 2/20/2014 Shallow ug/L	ERT-3I 2/20/2014 Intermediate ug/L	ERT-3D 2/20/2014 Deep ug/L	ERT-4S 2/20/2014 Shallow ug/L	ERT-4I 2/20/2014 Intermediate ug/L	ERT-4D 2/20/2014 Deep ug/L	ERT-7 2/20/2014 Intermediate ug/L
1,1,1-Trichloroethane	5	130 DJ	130 DJ	1100	1100	1500	1700	1.0 U	80	1200 DJ	170	290	0.98 J	1.0 U	220	1.0 U	1.0 U	5100 D	2800 D	16	310000 D	4800	4100	4.1
1,1,2,2-Tetrachloroethane	5	2.0 UDJ	2.0 UDJ	40 U	40 U	40 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	49	80 U	50 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		2.0 UDJ	2.0 UDJ	15 J	15 J	15 J	20	1.0 U	1.1	14	2.9 J	3.6 J	1.0 U	1.0 U	4.1	1.0 U	1.0 U	3.0	1.6	1.0 U	96	80 U	50 U	1.0 U
1,1,2-Trichloroethane	1	2.0 UDJ	2.0 UDJ	40 U	40 U	40 U	10 U	1.0 U	1.0 U	0.65 J	5.7 U	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10000 UD	80 U	50 U	1.0 U	
1,1-Dichloroethane	5	21 DJ	20 DJ	82	83	100	90	1.1	16	150 DJ	27	51	0.86 J	1.0 U	15	4.1	1.0 U	570 D	150 D	1100 E	290	150	1500	76
1,1-Dichloroethene	5	6.4 DJ	5.7 DJ	92	83	85	100	1.0 U	12	130 DJ	27	29	1.0 U	1.0 U	10	0.99 J	1.0 U	720 D	160 D	8.3	10000 UD	310	230	1.0 U
1,2,3-Trimethylbenzene		2.0 UDJ	2.0 UDJ	200 U	200 U	40 U	10 U	1.0 U	1.0 U	1.0 U	29 U	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	30	80 U	50 U	1.0 U
1,2,4-Trichlorobenzene	5	2.0 UDJ	2.0 UDJ	40 U	40 U	40 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	26	80 U	50 U	1.0 U
1,2,4-Trimethylbenzne	5	2.0 UDJ	2.0 UDJ	40 U	40 U	40 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	24	80 U	50 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	2.0 UDJ	2.0 UDJ	80 U	80 U	40 U	10 U	1.0 U	1.0 U	1.0 U	11 U	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	80 U	50 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	2.0 UDJ	2.0 UDJ	40 U	40 U	40 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	80 U	50 U	1.0 U
1,2-Dichlorobenzene	3	2.0 UDJ	2.0 UDJ	40 U	40 U	40 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	42	80 U	50 U	1.0 U
1,2-Dichloroethane	0.6	2.0 UDJ	2.0 UDJ	40 U	40 U	40 U	10 U	1.0 U	1.0 U	0.72 J	5.7 U	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	1.2	1.0 U	2.3	64	80 U	50 U	1.0 U
1,2-Dichloropropane	1	2.0 UDJ	2.0 UDJ	40 U	40 U	40 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	80 U	50 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	2.0 UDJ	2.0 UDJ	40 U	40 U	40 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 J	80 U	50 U	1.0 U
1,3-Dichlorobenzene	3	2.0 UDJ	2.0 UDJ	40 U	40 U	40 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	80 U	50 U	1.0 U
1,4-Dichlorobenzene	3	2.0 UDJ	2.0 UDJ	40 U	40 U	40 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	7.8	80 U	50 U	1.0 U
2-Butanone (MEK)	50	20 UDJ	20 UDJ	400 U	400 U	400 U	100 U	10 U	10 U	10 U	57 U	50 U	10 U	10 U	40 U	10 U	10 U	10 U	3.1 J	1.4 J	50 U	800 U	500 U	10 U
2-Hexanone	50*	10 UDJ	10 UDJ	400 U	400 U	200 U	50 U	5.0 U	5.0 U	5.0 U	57 U	25 U	5.0 U	5.0 U	20 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	400 U	250 U	5.0 U
4-Methyl-2-pentanone (MIBK)		10 UDJ	10 UDJ	400 U	400 U	200 U	50 U	5.0 U	5.0 U	5.0 U	57 U	25 U	5.0 U	5.0 U	20 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	400 U	250 U	5.0 U
Acetone	50*	12 DJ	14 DJ	400 U	400 U	400 U	100 U	6.9 J	10 U	10 U	57 U	50 U	7.0 J	6.9 J	40 U	4.8 J	8.1 J	5.8 J	8.8 J	7.1 J	50 U	800 U	500 U	7.5 J
Benzene	1	41 DJ	41 DJ	40 U	40 U	40 U	10 U	1.0 U	1.0 U	0.72 J	5.7 U	5.0 U	1.0 U	0.75 J	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	14	80 U	50 U	1.0 U
Bromodichloromethane	50	2.0 UDJ	2.0 UDJ	40 U	40 U	40 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11	80 U	50 U	1.0 U
Bromoform	50*	2.0 UDJ	2.0 UDJ	40 U	40 U	40 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	80 U	50 U	1.0 U
Bromomethane	5	2.0 UDJ	2.0 UDJ	40 U	40 U	40 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	80 U	50 U	1.0 U
Carbon disulfide		2.0 UDJ	2.0 UDJ	40 U	40 U	40 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	80 U	50 U	1.0 U
Carbon tetrachloride	5	2.0 UDJ	2.0 UDJ	40 U	40 U	40 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	80 U	50 U	1.0 U
Chlorobenzene	5	2.0 UDJ	2.0 UDJ	40 U	40 U	40 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	80 U	50 U	1.0 U
Chloroethane	5	2.0 UDJ	2.0 UDJ	40 U	40 U	40 U	10 U	1.0 U	1.4	8.8 DJ	5.7 U	2.5 J	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	76	3.3	21	5.0 U	80 U	50 U	1.0 U
Chloroform	7	1.1 DJ	0.95 DJ	40 U	40 U	40 U	10 U	1.0 U	1.0 U	0.83 J	5.7 U	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	2.4	0.82 J	1.0 U	120	80 U	50 U	1.0 U
Chloromethane		2.0 UDJ	2.0 UDJ	40 U	40 U	40 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.9	1.0 U	5.0 U	80 U	50 U	1.0 U
cis-1,2-Dichloroethene	5	53 DJ	50 DJ	330	330	380	360	1.4	25	400 DJ	150	210	1.0 U	1.0 U	39	990 D	7.7	23	3.9	1.0 U	110	80 U	100	8.5
cis-1,3-Dichloropropene	0.4	2.0 UDJ	2.0 UDJ	40 U	40 U	40 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	80 U	50 U	1.0 U
Cyclohexane		2.0 UDJ	2.0 UDJ	40 U	40 U	40 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	80 U	50 U	1.0 U
Dibromochloromethane	50	2.0 UDJ	2.0 UDJ	40 U	40 U	40 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	80 U	50 U	1.0 U
Dichlorodifluoromethane	5	2.0 UDJ	2.0 UDJ	40 U	40 U	40 U	10 U	1.0 U	1.0 U	1.5	5.7 U	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	80 U	50 U	1.0 U
Ethylbenzene	5	2.0 UDJ	2.0 UDJ	40 U	40 U	40 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	23	80 U	50 U	1.0 U
Isopropylbenzne (Cumene)	5	2.0 UDJ	2.0 UDJ	40 U	40 U	40 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	80 U	50 U	1.0 U
Methyl Acetate		5.0 UDJ	5.0 UDJ	400 U	400 U	100 U	25 U	2.5 U	2.5 U	2.5 U	57 U	13 U	2.5 U	2.5 U	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	13 U	200 U	130 U	2.5 U
Methyl Cyclohexane		2.0 UDJ	2.0 UDJ	40 U	40 U	40 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10000 UD	80 U	50 U	1.0 U
Methylene Chloride	5	1.2 DJ	1.1 DJ	14 J B	15 J B	18 J	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 J B	5.0 U	1.0 U	4.0 U	1.0 U	1.0 U	8.6	0.77 J	0.61 J	10000 UD	80 U	50 U	2.6
Methyl Tert Butyl Ether	10	2.0 UDJ	2.0 UDJ	40 U	40 U	40 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	80 U	50 U	1.0 U
Styrene	5	2.0 UDJ	2.0 UDJ	40 U	40 U	40 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	80 U	50 U	1.0 U
Tetrachloroethene	5	2.0 UDJ	2.0 UDJ	40 U	40 U	40 U	10 U	1.0 U	1.0 U	1.0	5.7 U	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	2.3	1.3	1.0 U	120	80 U	50 U	1.0 U
Toluene	5	3.7 DJ	3.6 DJ	40 U	40 U	40 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	4.0 U	0.57 J	1.0 U	1.0 U	1.0 U	1.0 U	460	80 U	50 U	0.54 J
trans-1,2-Dichloroethene	5	2.0 UDJ	2.0 UDJ	40 U	40 U	40 U	10 U	1.0 U	1.0 U	1.8	5.7 U	5.0 U	1.0 U	1.0 U	4.0 U	1.5	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	80 U	50 U	1.0 U
trans-1,3-Dichloropropene	0.4	2.0 UDJ	2.0 UDJ	40 U	40 U	40 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	80 U	50 U	1.0 U
Trichloroethene	5	34 DJ	33 DJ	360	360	410	410	1.8	17	400 DJ	26	20	1.0 U	1.0 U	41	1.9	1.6	28	8.3	1.0 U	510000 D	80 U	80	7.9
Trichlorofluoromethane	5	2.0 UDJ	2.0 UDJ	40 U	40 U	40 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	80 U	50 U	1.0 U
Vinyl chloride	2	6.6 DJ	6.3 DJ	78	68	92	89	4.7	12	170 DJ	34	55	1.0 U	1.0 U	4.0 U	11	1.0 U	1.9	1.0 U	2.1	5.0 U	80 U	50 U	1.0 U
Xylenes, Total		4.0 UDJ	4.0 UDJ	80 U	80 U	80 U	20 U	2.0 U	2.0 U	2.0 U	11 U	10 U	2.0 U	2.0 U	8.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	110	160 U	100 U	2.0 U
Total VOCs		310	306	2071	2054	2600	2769	15.9	165	2480	439	674	8.84	7.65	329	1015	17	6542	3144	1159	821601			

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report/ First/Second Quarter 2015
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	ERT-8 2/20/2014 Intermediate ug/L	ERT-4I 2/20/2014 Intermediate ug/L	ERT-4I ** 8/28/2014 Intermediate ug/L	ERT-4I ** 8/28/2014 Intermediate ug/L	1-1A(EFF) 2/21/2014 ug/L	1-1A(INF) 2/21/2014 Deep ug/L	1-2A(INF) 8/28/2014 ug/L	1-2A(EFF) 8/28/2014 ug/L	1-3(INF) 8/28/2014 ug/L	1-3(EFF) 8/28/2014 ug/L	TB-01 8/28/2014 ug/L	FB-01 8/28/2014 ug/L
1,1,1-Trichloroethane	5	1.0 U	4800	3600	2700	3.9	120 D	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	80 U	80 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	80 U	80 U	50 U	1.0 U	2.1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	80 U	80 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	44	150	100	78	2.6	17	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	1.0 U	310	160	130	1.0 U	9.3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	80 U	80 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	80 U	80 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Triimethylbenzne	5	1.0 U	80 U	80 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	80 U	80 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	80 U	80 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	80 U	80 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	80 U	80 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	80 U	80 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	800 U	80 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	400 U	80 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	400 U	80 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U	80 U	800 U	500 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	8.4 J
2-Hexanone	50*	5.0 U	80 U	400 U	250 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	80 U	400 U	250 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	8.9 J	800 U	800 U	500 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	1	1.0 U	80 U	80 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50	1.0 U	80 U	80 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	1.0 U	80 U	80 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	80 U	80 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	80 U	80 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	80 U	80 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	80 U	80 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	28	80 U	80 U	50 U	1.0 U	0.5 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 U	80 U	80 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		1.0 U	80 U	80 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	2.5	80 U	80 U	50 U	9.6	39	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	80 U	80 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		1.0 U	80 U	80 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U	80 U	80 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	80 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	80 U	80 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	80 U	80 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		2.5 U	200 U	200 U	130 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Cyclohexane		1.0 U	80 U	80 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	80 U	80 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	1.0 U	80 U	80 U	50 U	1.5	1.9	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	80 U	80 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	80 U	80 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	0.77 J	80 U	80 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	80 U	81 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	80 U	82 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	0.53 J	80 U	80 U	50 U	3.8	43	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	1.0 U	80 U	80 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	2.5	80 U	80 U	50 U	1.0 U	4.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total		2.0 U	160 U	160 U	100 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		87	5260	3860	2908	21.4	237	0	0	0	0	0	8.4
Total VOCs (w/o Acteone or Methylene Chloride)		78.3	5260	3860	2908	21.4	237	0	0	0	0	0	0

Notes:
NYSDEC GA GW Standard - New York State Department of Environmental
Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or
reported concentration is estimated
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
* - Laboratory control sample / duplicate exceeds control limits
2-This is a duplicate sample from 4009-25D
3-This is a duplicate sample from 4009-29I
4-This is a duplicate sample from 4009-12
NS - not sampled

Table 2-4 Summary of Town of Vestal Municipal Well Sampling Results

Remedial Site Optimization

Vestal Water Supply Site

Site Number 7-04-009A

Sample ID	NYSDEC GA Standard ug/L	Well 1-2A Influent 7/22/2014 ug/L	Well 1-2A Influent 7/30/2014 ug/L	Well 1-2A Influent 8/18/2014 ug/L	Well 1-2A Influent 8/28/2014 ug/L	Well 1-2A Influent 9/29/2014 ug/L	Well 1-2A Influent 9/30/2014 ug/L	Well 1-2A Influent 10/21/2014 ug/L	Well 1-2A Influent 10/28/2014 ug/L	Well 1-2A Influent 11/11/2014 ug/L	Well 1-2A Influent 11/24/2014 ug/L	Well 1-2A Influent 12/9/2014 ug/L	Well 1-2A Influent 12/18/2014 ug/L	Well 1-2A Influent 1/20/2015 ug/L	Well 1-2A Influent 1/29/2015 ug/L
1,1,1-Trichloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
1,1,2,2-Tetrachloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U
1,1,2-Trichloroethane	1	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
1,1-Dichloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
1,1-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
1,2,3-Trimethylbenzene		NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	5.0 U	NA	NA	1.0 U
1,2,4-Trichlorobenzene	5	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
1,2,4-Trimethylbenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	2.0 U	NA	NA	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U
1,2-Dichlorobenzene	3	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
1,2-Dichloroethane	0.6	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
1,2-Dichloropropane	1	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
1,3-Dichlorobenzene	3	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
1,4-Dichlorobenzene	3	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
2-Butanone (MEK)	50	NA	10 U	NA	10 U	10.0 U	NA	10 U	NA	NA	10 U	10 U	NA	NA	10 U
2-Hexanone	50*	NA	5.0 U	NA	5.0 U	10.0 U	NA	5.0 U	NA	NA	5.0 U*	10 U	NA	NA	5.0 U
4-Methyl-2-pentanone (MIBK)		NA	5.0 U	NA	5.0 U	10.0 U	NA	5.0 U	NA	NA	5.0 U	10 U	NA	NA	5.0 U
Acetone	50*	NA	10 U	NA	10 U	10.0 U	NA	10 U	NA	NA	10 U	10 U	NA	NA	10 U
Benzene	1	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Bromodichloromethane	50	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	NA	1.0 U	1.0 U	NA	NA	1.0 U
Bromoform	50*	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	NA	1.0 U	1.0 U	NA	NA	1.0 U
Bromomethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Carbon disulfide		0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	NA	1.0 U	1.0 U	NA	NA	1.0 U
Carbon tetrachloride	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Chlorobenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Chloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Chloroform	7	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U
Chloromethane		0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
cis-1,2-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
cis-1,3-Dichloropropene	0.4	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	5 U	0.5 U	1.0 U
Cyclohexane		NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U
Dibromochloromethane	50	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U*	NA	NA	1.0 U*	1.0 U	NA	NA	1.0 U
Dichlorodifluoromethane	5	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U*	1.0 U	0.5 U	0.5 U	1.0 U
Ethylbenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Isopropylbenzene (Cumene)	5	NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	0.5 U	1.0 U
Methyl Acetate		NA	NA	NA	2.5 U	NA	NA	2.5 U	NA	NA	2.5 U	10 U	NA	NA	2.5 U
Methyl Cyclohexane		NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U
Methylene Chloride	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Methyl Tert Butyl Ether	10	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Styrene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Tetrachloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Toluene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
trans-1,2-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
trans-1,3-Dichloropropene	0.4	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Trichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Trichlorofluoromethane	5	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Vinyl chloride	2	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Xylenes, Total		0.5 U	2.0 U	0.5 U	2.0 U	2.0 U	0.5 U	2.0 U	1.5 U	0.5 U	2.0 U	2.0 U	0.5 U	0.5 U	2.0 U
Total VOCs		0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes:

NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard

- Concentration exceeds NYSDEC Class GA Standard

NA - Not Analyzed

NS - Not Sampled

U - Compound was not detected at the indicated concentration

* LCS or LCSD exceeds the control limits

** Well 1-2A was frozen and unable to be sampled

Table 2-4 Summary of Town of Vestal Municipal Well Sampling Results
Remedial Site Optimization
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID	NYSDEC GA Standard ug/L	Well 1-2A Influent 2/25/2015** ug/L	Well 1-2A Influent 2/25/2015** ug/L	Well 1-2A Influent 3/12/2015** ug/L	Well 1-2A Influent 3/19/2015** ug/L	Well 1-2A Influent 4/9/2015 ug/L	Well 1-2A Influent 4/20/2015 ug/L	Well 1-2A Influent 5/6/2015 ug/L	Well 1-2A Influent 5/12/2015 ug/L	Well 1-2A Influent 6/9/2015 ug/L	Well 1-2A Influent 6/25/2015 ug/L	Well 1-3 Influent 7/22/2014 ug/L	Well 1-3 Influent 7/30/2014 ug/L	Well 1-3 Influent 8/18/2014 ug/L	Well 1-3 Influent 8/28/2014 ug/L
1,1,1-Trichloroethane	5	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1,2,2-Tetrachloroethane	5	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		NS	NS	NS	NS	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	NA	NA	1.0 U
1,1,2-Trichloroethane	1	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1-Dichloroethane	5	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1-Dichloroethene	5	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2,3-Trimethylbenzene		NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	NA	NA	1.0 U	NA	NA	NA	1.0 U
1,2,4-Trichlorobenzene	5	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	NA	0.5 U	1.0 U
1,2,4-Trimethylbenzene	5	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	NS	NS	NS	NS	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	NA	NA	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	NS	NS	NS	NS	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U
1,2-Dichlorobenzene	3	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	NA	0.5 U	1.0 U
1,2-Dichloroethane	0.6	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2-Dichloropropane	1	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,3-Dichlorobenzene	3	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	NA	0.5 U	1.0 U
1,4-Dichlorobenzene	3	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	NA	0.5 U	1.0 U
2-Butanone (MEK)	50	NS	NS	NS	NS	NA	10 U	10 U	NA	NA	10 U	NA	10 U	NA	10 U
2-Hexanone	50*	NS	NS	NS	NS	NA	5.0 U	5.0 U	NA	NA	5.0 U	NA	5.0 U	NA	5.0 U
4-Methyl-2-pentanone (MIBK)		NS	NS	NS	NS	NA	5.0 U	5.0 U	NA	NA	5.0 U	NA	5.0 U	NA	5.0 U
Acetone	50*	NS	NS	NS	NS	NA	10 U	10 U	NA	NA	10 U	NA	10 U	NA	10 U
Benzene	1	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Bromodichloromethane	50	NS	NS	NS	NS	NA	1.0 U	1.0 U	NA	NA	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Bromoform	50*	NS	NS	NS	NS	NA	1.0 U	1.0 U	NA	NA	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Bromomethane	5	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Carbon disulfide		NS	NS	NS	NS	NA	1.0 U	1.0 U	NA	NA	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Carbon tetrachloride	5	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Chlorobenzene	5	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Chloroethane	5	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Chloroform	7	NS	NS	NS	NS	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U
Chloromethane		NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
cis-1,2-Dichloroethene	5	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
cis-1,3-Dichloropropene	0.4	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Cyclohexane		NS	NS	NS	NS	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	NA	NA	1.0 U
Dibromochloromethane	50	NS	NS	NS	NS	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U
Dichlorodifluoromethane	5	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	NA	0.5 U	1.0 U
Ethylbenzene	5	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Isopropylbenzene (Cumene)	5	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NA	NA	NA	1.0 U
Methyl Acetate		NS	NS	NS	NS	NA	2.5 U	2.5 U	NA	NA	2.5 U	NA	NA	NA	2.5 U
Methyl Cyclohexane		NS	NS	NS	NS	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	NA	NA	1.0 U
Methylene Chloride	5	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Methyl Tert Butyl Ether	10	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NA	1.0 U	NA	1.0 U
Styrene	5	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Tetrachloroethene	5	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Toluene	5	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
trans-1,2-Dichloroethene	5	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
trans-1,3-Dichloropropene	0.4	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Trichloroethene	5	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Trichlorofluoromethane	5	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	NA	0.5 U	1.0 U
Vinyl chloride	2	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Xylenes, Total		NS	NS	NS	NS	0.5 U	2.0 U	2.0 U	1.5 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U
Total VOCs						0	0	0	0	0	0	0	0	0	0

Notes:

NYSDEC GA GW Standard - New York State Department of
Environmental Conservation Groundwater Standard

- Concentration exceeds NYSDEC Class GA Standard

NA - Not Analyzed

NS - Not Sampled

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* LCS or LCSD exceeds the control limits

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Table 2-4 Summary of Town of Vestal Municipal Well Sampling Results
Remedial Site Optimization
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID	NYSDEC GA Standard ug/L	Well 1-3 Influent 9/29/2014 ug/L	Well 1-3 Influent 9/30/2014 ug/L	Well 1-3 Influent 10/21/2014 ug/L	Well 1-3 Influent 10/28/2014 ug/L	Well 1-3 Influent 11/11/2014 ug/L	Well 1-3 Influent 11/24/2014 ug/L	Well 1-3 Influent 12/9/2014 ug/L	Well 1-3 Influent 12/18/2014 ug/L	Well 1-3 Influent 1/20/2015 ug/L	Well 1-3 Influent 1/29/2015 ug/L	Well 1-3 Influent 2/25/2015 ug/L	Well 1-3 Influent 2/25/2015 ug/L	Well 1-3 Influent 3/12/2015 ug/L	Well 1-3 Influent 3/19/2015 ug/L
1,1,1-Trichloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	1.0 U	NA	1.0 U
1,1,2-Trichloroethane	1	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
1,1-Dichloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
1,1-Dichloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	NA	1.0 U	NA	NA	1.0 U	5.0 U	NA	NA	1.0 U	NS	1.0 U	0.5 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
1,2,4-Trimethylbenzene	5	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	NA	1.0 U	NA	NA	1.0 U	2.0 U	NA	NA	1.0 U	NS	1.0 U	0.5 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	1.0 U	0.5 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
1,2-Dichloropropane	1	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
2-Butanone (MEK)	50	10.0 U	NA	10 U	NA	NA	10 U	10 U	NA	NA	10 U	NS	10 U	NA	10 U
2-Hexanone	50*	10.0 U	NA	5.0 U	NA	NA	5.0 U *	10 U	NA	NA	5.0 U	NS	5.0 U	NA	5.0 U
4-Methyl-2-pentanone (MIBK)		10.0 U	NA	5.0 U	NA	NA	5.0 U	10 U	NA	NA	5.0 U	NS	5.0 U	NA	5.0 U
Acetone	50*	10.0 U	NA	10 U	NA	NA	10 U	10 U	NA	NA	10 U	NS	10 U	NA	10 U
Benzene	1	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
Bromodichloromethane	50	1.0 U	0.5 U	1.0 U	0.5 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	1.0 U	0.5 U	1.0 U
Bromoform	50*	1.0 U	0.5 U	1.0 U	0.5 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	1.0 U	0.5 U	1.0 U
Bromomethane	5	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
Carbon disulfide		1.0 U	0.5 U	1.0 U	0.5 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	1.0 U	NA	1.0 U
Carbon tetrachloride	5	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
Chlorobenzene	5	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	NA	1.0 U
Chloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
Chloroform	7	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	1.0 U	0.5 U	1.0 U
Chloromethane		1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
cis-1,2-Dichloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
Cyclohexane		1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	1.0 U	NA	1.0 U
Dibromochloromethane	50	1.0 U	NA	1.0 U*	NA	NA	1.0 U *	1.0 U	NA	NA	1.0 U	NS	1.0 U	0.5 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U *	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
Ethylbenzene	5	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
Isopropylbenzene (Cumene)	5	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
Methyl Acetate		NA U	NA	2.5 U	NA	NA	2.5 U	10 U	NA	NA	2.5 U	NS	2.5 U	NA	2.5 U
Methyl Cyclohexane		1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	1.0 U	NA	1.0 U
Methylene Chloride	5	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
Methyl Tert Butyl Ether	10	1.0 U	NA	1.0 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	1 U	1.0 U
Styrene	5	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
Tetrachloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
Toluene	5	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
Trichloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
Trichlorofluoromethane	5	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
Vinyl chloride	2	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
Xylenes, Total		2.0 U	0.5 U	2.0 U	1.5 U	0.5 U	2.0 U	2.0 U	0.5 U	0.5 U	2.0 U	NS	2.0 U	0.5 U	2.0 U
Total VOCs		0	0	0	0	0	0	0	0	0	0		0	0	0

Notes:

NYSDEC GA GW Standard - New York State Department of
Environmental Conservation Groundwater Standard

- Concentration exceeds NYSDEC Class GA Standard

NA - Not Analyzed

NS - Not Sampled

U - Compound was not detected at the indicated concentration

* LCS or LCSD exceeds the control limits

** Well 1-2A was frozen and unable to be sampled

Table 2-4 Summary of Town of Vestal Municipal Well Sampling Results

Remedial Site Optimization

Vestal Water Supply Site

Site Number 7-04-009A

Sample ID Sampling Date Units	NYSDEC GA Standard ug/L	Well 1-3 Influent 4/9/2015 ug/L	Well 1-3 Influent 4/20/2015 ug/L	Well 1-3 Influent 5/6/2015 ug/L	Well 1-3 Influent 5/12/2015 ug/L	Well 1-3 Influent 6/9/2015 ug/L	Well 1-3 Influent 6/25/2015 ug/L
1,1,1-Trichloroethane	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
1,1,2,2-Tetrachloroethane	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		NA	1.0 U	1.0 U	NA	NA	1.0 U
1,1,2-Trichloroethane	1	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
1,1-Dichloroethane	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
1,1-Dichloroethene	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
1,2,3-Trimethylbenzene		NA	1.0 U	1.0 U	NA	NA	1.0 U
1,2,4-Trichlorobenzene	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
1,2,4-Trimethylbenzene	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	NA	1.0 U	1.0 U	NA	NA	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	NA	1.0 U	1.0 U	NA	NA	1.0 U
1,2-Dichlorobenzene	3	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
1,2-Dichloroethane	0.6	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
1,2-Dichloropropane	1	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
1,3-Dichlorobenzene	3	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
1,4-Dichlorobenzene	3	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
2-Butanone (MEK)	50	NA	1.0 U	1.0 U	NA	NA	1.0 U
2-Hexanone	50*	NA	5.0 U	5.0 U	NA	NA	5.0 U
4-Methyl-2-pentanone (MIBK)		NA	5.0 U	5.0 U	NA	NA	5.0 U
Acetone	50*	NA	1.0 U	1.0 U	NA	NA	1.0 U
Benzene	1	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Bromodichloromethane	50	NA	1.0 U	1.0 U	NA	NA	1.0 U
Bromoform	50*	NA	1.0 U	1.0 U	NA	NA	1.0 U
Bromomethane	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Carbon disulfide		NA	1.0 U	1.0 U	NA	NA	1.0 U
Carbon tetrachloride	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Chlorobenzene	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Chloroethane	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Chloroform	7	NA	1.0 U	1.0 U	NA	NA	1.0 U
Chloromethane		0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
cis-1,2-Dichloroethene	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
cis-1,3-Dichloropropene	0.4	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Cyclohexane		NA	1.0 U	1.0 U	NA	NA	1.0 U
Dibromochloromethane	50	NA	1.0 U	1.0 U	NA	NA	1.0 U
Dichlorodifluoromethane	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Ethylbenzene	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Isopropylbenzene (Cumene)	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Methyl Acetate		NA	2.5 U	2.5 U	NA	NA	2.5 U
Methyl Cyclohexane		NA	1.0 U	1.0 U	NA	NA	1.0 U
Methylene Chloride	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Methyl Tert Butyl Ether	10	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Styrene	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Tetrachloroethene	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Toluene	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
trans-1,2-Dichloroethene	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
trans-1,3-Dichloropropene	0.4	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Trichloroethene	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Trichlorofluoromethane	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Vinyl chloride	2	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Xylenes, Total		0.5 U	2.0 U	2.0 U	1.5 U	0.5 U	2.0 U
Total VOCs		0	0	0	0	0	0

Notes:

NYSDEC GA GW Standard - New York State Department of
Environmental Conservation Groundwater Standard

- Concentration exceeds NYSDEC Class GA Standard

NA - Not Analyzed

NS - Not Sampled

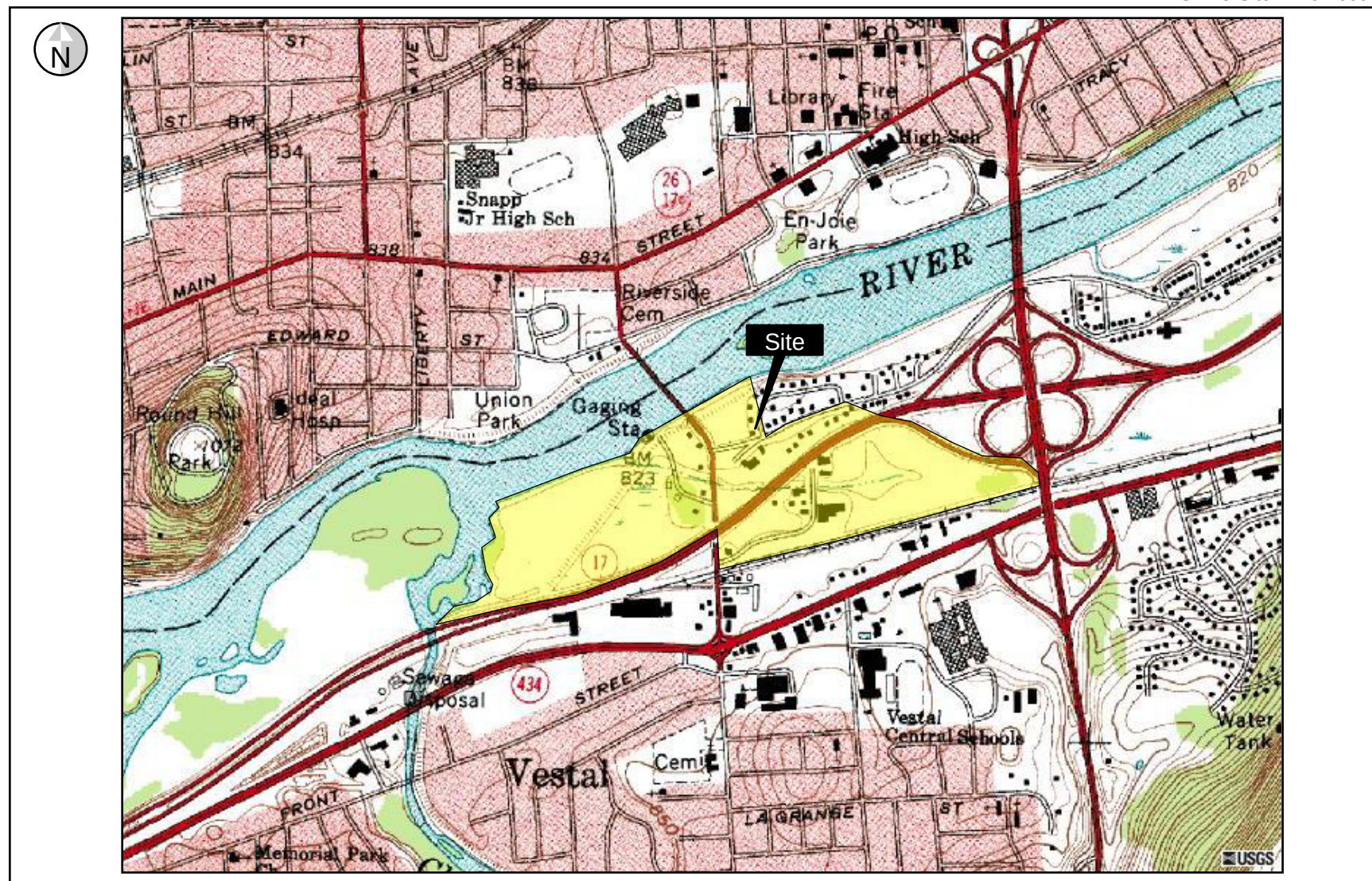
U - Compound was not detected at the indicated concentration

* LCS or LCSD exceeds the control limits

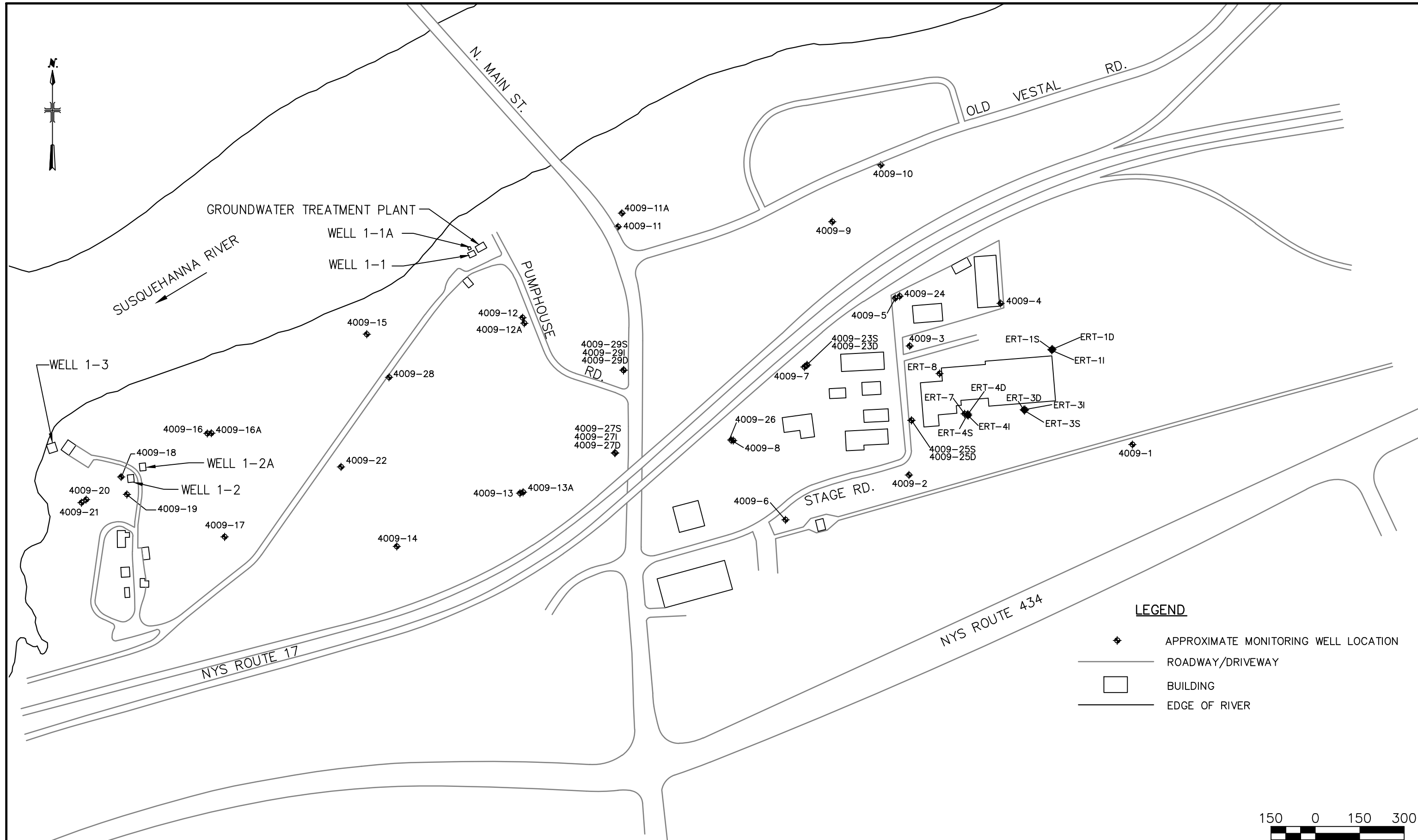
** Well 1-2A was frozen and unable to be sampled

Figures

Figure 1-1
Site Location
Vestal Water Supply Site
Vestal, New York
NYSDEC Site # 7-04-009A



Source: USGS 7.5-minute Series Topographic Quadrangle, Endicott (1988).



SOURCE: BASE MAP DIGITIZED USING AERIAL ORTHIMAGERY FROM NYS GIS CLEARINGHOUSE, DATED 2011



LEGEND

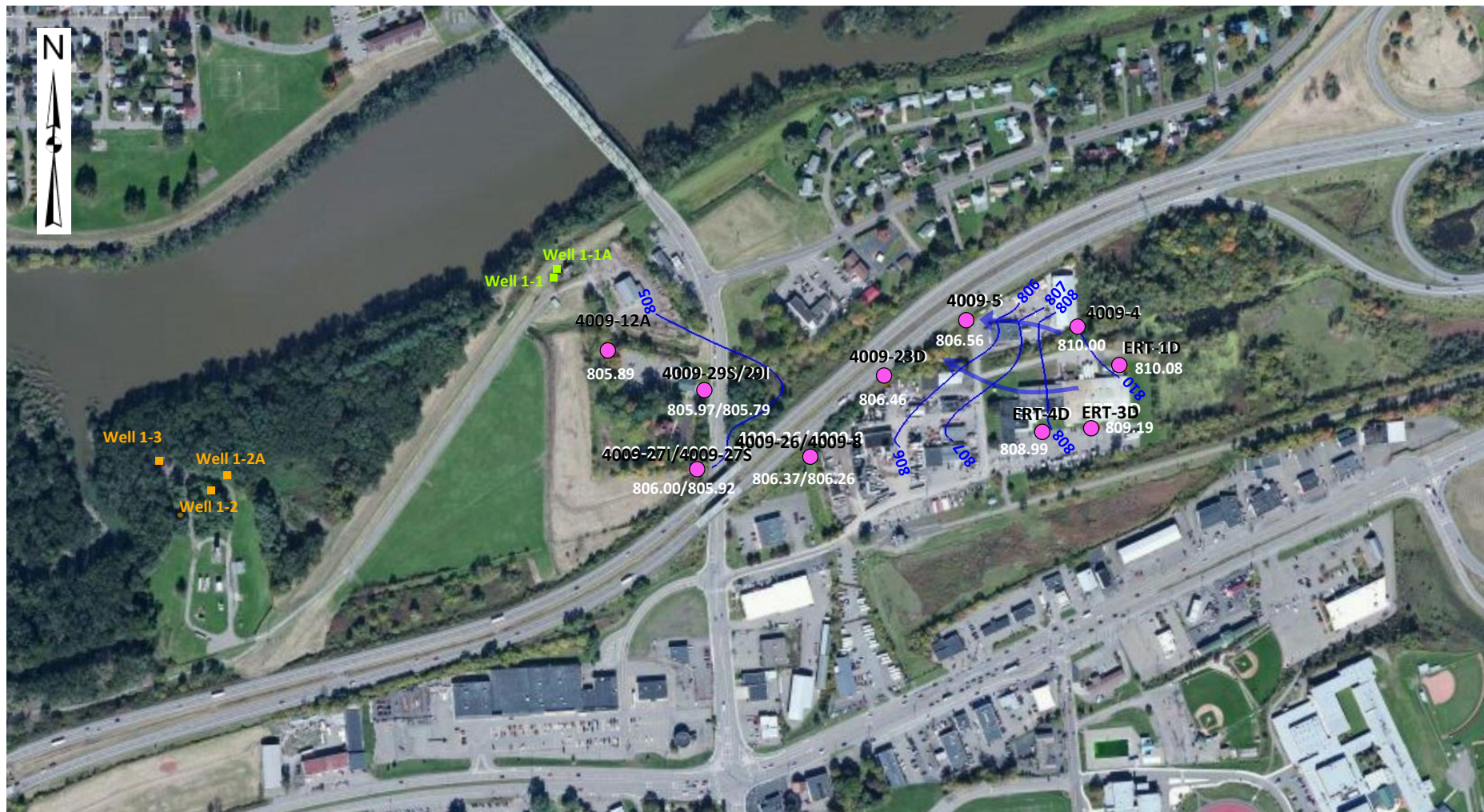
- Well 1-1A
EXTRACTION WELL & IDENTIFIER
- 4009-16A
MONITORING WELL & IDENTIFIER
(Groundwater Elevation – Feet AMSL)
- ~ 804.12
GROUNDWATER ELEVATION
POTENTIOMETRIC CONTOUR
(Feet AMSL)
- Well 1-3
WATER SUPPLY WELL & IDENTIFIER

0 350 700

 APPROXIMATE SCALE IN FEET

Vestal Water Supply
 NYSDEC Site #7-04-009
 Vestal, New York

**Shallow Potentiometric Surface
 with Well 1-1A Inactive
 (April 2015 Heads)**



LEGEND

- **Well 1-1A**
EXTRACTION WELL & IDENTIFIER
- **4009-12A**
MONITORING WELL & IDENTIFIER
(Groundwater Elevation – Feet AMSL)
- 803.75
GROUNDWATER ELEVATION
POTENTIOMETRIC CONTOUR
(Feet AMSL)
- ~ **808**
WATER SUPPLY WELL & IDENTIFIER

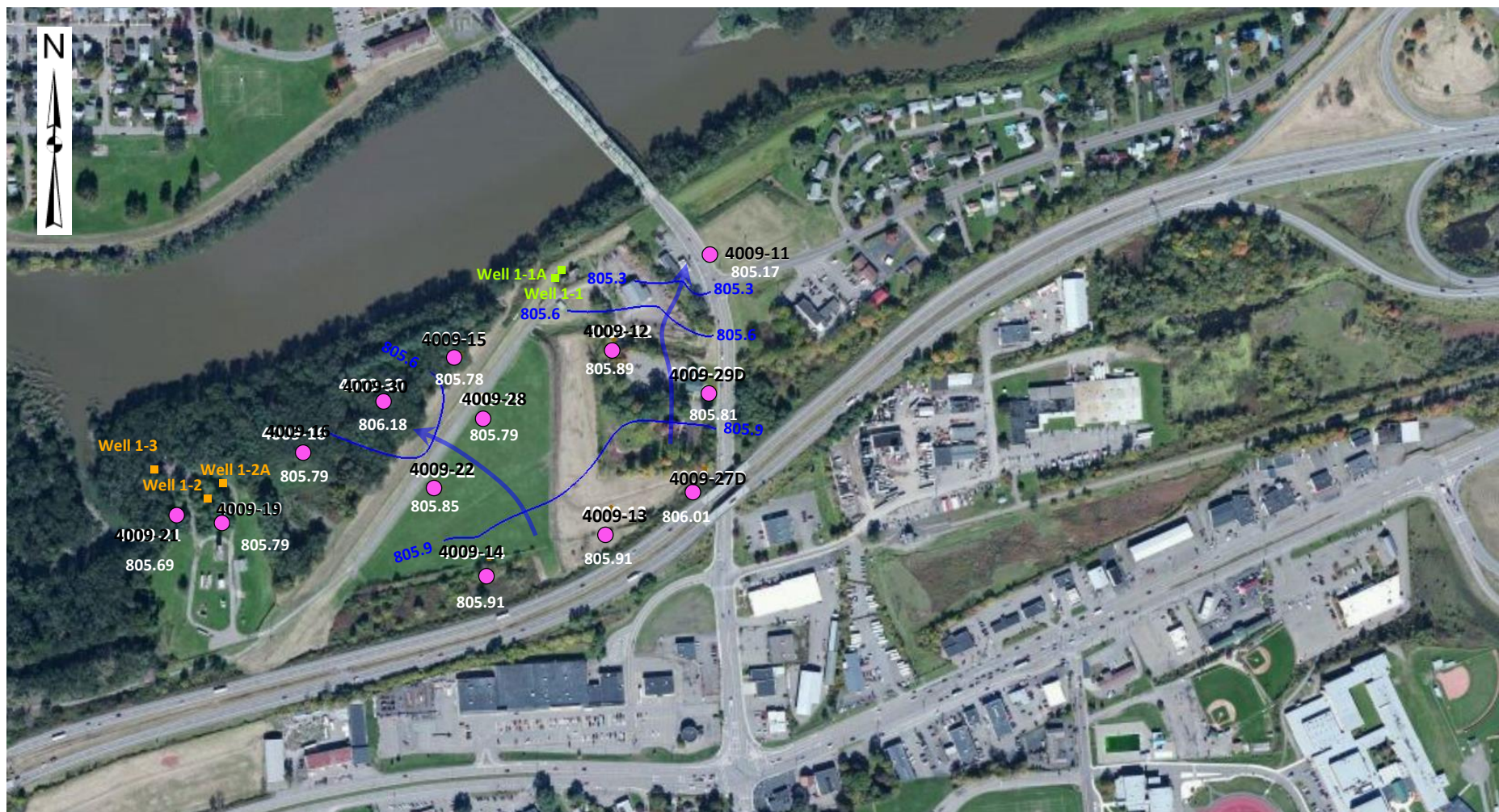
0 350 700
APPROXIMATE SCALE IN FEET

Vestal Water Supply
NYSDEC Site #7-04-009
Vestal, New York

**Intermediate Potentiometric
Surface with Well 1-1A Inactive
(April 2015 Heads)**

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Figure
2-3



LEGEND

- **Well 1-1A**
EXTRACTION WELL & IDENTIFIER
- **4009-15**
MONITORING WELL & IDENTIFIER
(Groundwater Elevation – Feet AMSL)
- ~ **804.01**
GROUNDWATER ELEVATION
POTENTIOMETRIC CONTOUR
(Feet AMSL)
- **Well 1-3**
WATER SUPPLY WELL & IDENTIFIER

0 350 700

 APPROXIMATE SCALE IN FEET

Vestal Water Supply
 NYSDEC Site #7-04-009
 Vestal, New York

**Deep Potentiometric Surface
 with Well 1-1A Inactive
 (April 2015 Heads)**



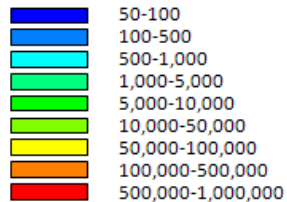
LEGEND

Well 1-3 WATER SUPPLY WELL & IDENTIFIER

4009-7 MONITORING WELL & IDENTIFIER
42.8
Total VOC Concentration(ug/L);
"ND" indicates no detection

Well 1-1 EXTRACTION WELL & IDENTIFIER

TOTAL VOCs (ug/l)



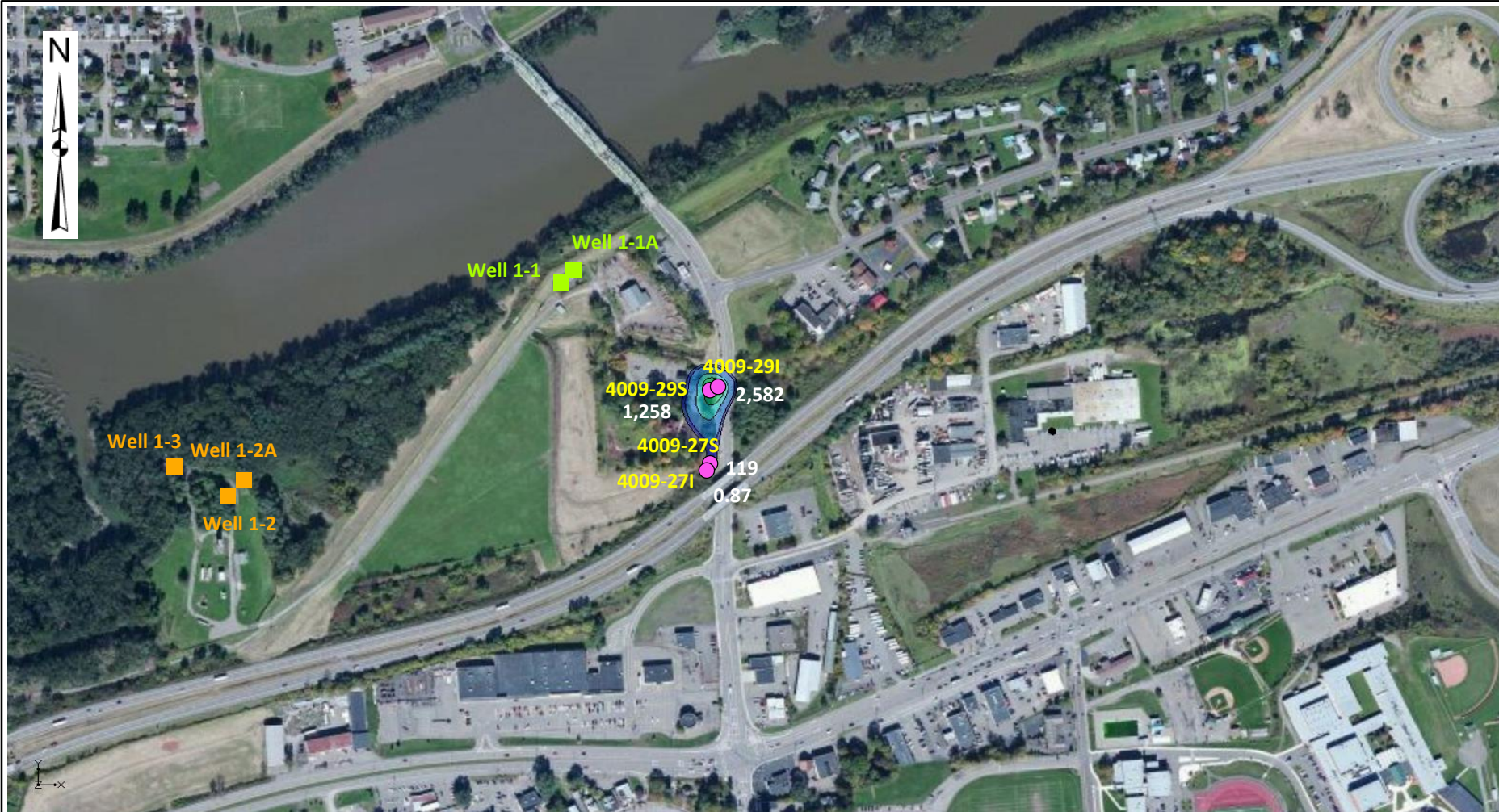
0 350 700
APPROXIMATE SCALE IN FEET

Vestal Water Supply
NYSDEC Site #7-04-009
Vestal, New York

Total VOC Concentrations
(Shallow Wells)
April 20, 2015

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Figure
2-5



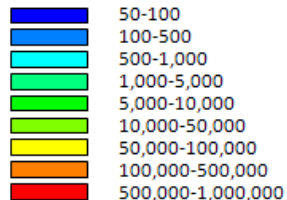
LEGEND

Well 1-3 WATER SUPPLY WELL & IDENTIFIER

4009-12A MONITORING WELL & IDENTIFIER
 30.7
 Total VOC Concentration(ug/L);
 "ND" indicates no detection

Well 1-1 EXTRACTION WELL & IDENTIFIER

TOTAL VOCs (ug/l)



0 350 700
 APPROXIMATE SCALE IN FEET

Vestal Water Supply
 NYSDEC Site #7-04-009
 Vestal, New York

**Total VOC Concentrations
 (Intermediate Wells)**
 April 20, 2015

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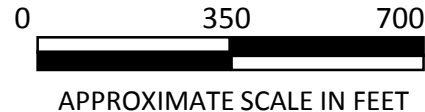
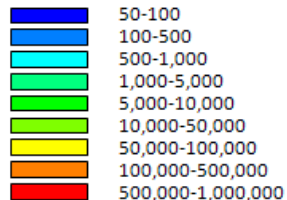
Figure
2-6



LEGEND

- Well 1-3**
 WATER SUPPLY WELL & IDENTIFIER
- 4009-15**
 MONITORING WELL & IDENTIFIER
- 1.1**
 Total VOC Concentration(ug/L);
 "ND" indicates no detection
- Well 1-1**
 EXTRACTION WELL & IDENTIFIER

TOTAL VOCs (ug/L)



Vestal Water Supply
 NYSDEC Site #7-04-009
 Vestal, New York

**Total VOC Concentrations
 (Deep Wells)
 April 20, 2015**



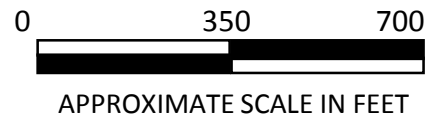
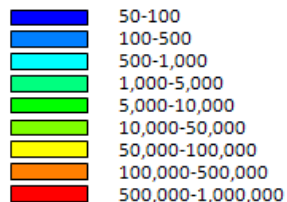
LEGEND

Well 1-3 WATER SUPPLY WELL & IDENTIFIER

4009-7 MONITORING WELL & IDENTIFIER
55.7
Total VOC Concentration(ug/L);
"ND" indicates no detection

Well 1-1 EXTRACTION WELL & IDENTIFIER

TOTAL VOCs (ug/L)



Vestal Water Supply
NYSDEC Site #7-04-009
Vestal, New York

**Total VOC Concentrations
(All Wells)
April 20, 2015**

Appendix A

Analytical Reporting Forms
(TestAmerica Laboratories,
Inc. and Microbac
Laboratory Services)

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: 480-74894-1

Client Project/Site: NYSDEC-Standby VESTAL

For:

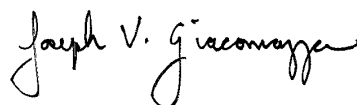
ARCADIS U.S. Inc

855 Route 146

Suite 210

Clifton Park, New York 12065

Attn: Jeremy Wyckoff



Authorized for release by:

2/13/2015 11:14:25 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

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

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: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-74894-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.

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: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-74894-1

Job ID: 480-74894-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-74894-1

Receipt

The samples were received on 1/31/2015 2:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.9° C.

GC/MS VOA

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

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-74894-1

Client Sample ID: WELL 1-2A

Lab Sample ID: 480-74894-1

No Detections.

Client Sample ID: WELL 1-3

Lab Sample ID: 480-74894-2

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-74894-1

Client Sample ID: WELL 1-2A

Lab Sample ID: 480-74894-1

Date Collected: 01/29/15 07:35

Matrix: Water

Date Received: 01/31/15 02:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			02/09/15 13:47	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			02/09/15 13:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			02/09/15 13:47	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			02/09/15 13:47	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			02/09/15 13:47	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			02/09/15 13:47	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			02/09/15 13:47	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			02/09/15 13:47	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			02/09/15 13:47	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			02/09/15 13:47	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			02/09/15 13:47	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			02/09/15 13:47	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			02/09/15 13:47	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			02/09/15 13:47	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			02/09/15 13:47	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			02/09/15 13:47	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			02/09/15 13:47	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			02/09/15 13:47	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			02/09/15 13:47	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			02/09/15 13:47	1
Acetone	10	U	10	3.0	ug/L			02/09/15 13:47	1
Benzene	1.0	U	1.0	0.41	ug/L			02/09/15 13:47	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			02/09/15 13:47	1
Bromoform	1.0	U	1.0	0.26	ug/L			02/09/15 13:47	1
Bromomethane	1.0	U	1.0	0.69	ug/L			02/09/15 13:47	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			02/09/15 13:47	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			02/09/15 13:47	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			02/09/15 13:47	1
Chloroethane	1.0	U	1.0	0.32	ug/L			02/09/15 13:47	1
Chloroform	1.0	U	1.0	0.34	ug/L			02/09/15 13:47	1
Chloromethane	1.0	U	1.0	0.35	ug/L			02/09/15 13:47	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			02/09/15 13:47	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			02/09/15 13:47	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			02/09/15 13:47	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			02/09/15 13:47	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			02/09/15 13:47	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			02/09/15 13:47	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			02/09/15 13:47	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			02/09/15 13:47	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			02/09/15 13:47	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			02/09/15 13:47	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			02/09/15 13:47	1
Styrene	1.0	U	1.0	0.73	ug/L			02/09/15 13:47	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			02/09/15 13:47	1
Toluene	1.0	U	1.0	0.51	ug/L			02/09/15 13:47	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			02/09/15 13:47	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			02/09/15 13:47	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			02/09/15 13:47	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			02/09/15 13:47	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-74894-1

Client Sample ID: WELL 1-2A

Date Collected: 01/29/15 07:35

Date Received: 01/31/15 02:20

Lab Sample ID: 480-74894-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.90	ug/L			02/09/15 13:47	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			02/09/15 13:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		66 - 137					02/09/15 13:47	1
4-Bromofluorobenzene (Surr)	102		73 - 120					02/09/15 13:47	1
Dibromofluoromethane (Surr)	97		60 - 140					02/09/15 13:47	1
Toluene-d8 (Surr)	99		71 - 126					02/09/15 13:47	1

Client Sample ID: WELL 1-3

Date Collected: 01/29/15 07:30

Date Received: 01/31/15 02:20

Lab Sample ID: 480-74894-2

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	1.0	U	1.0	0.82	ug/L			02/09/15 14:15	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			02/09/15 14:15	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			02/09/15 14:15	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			02/09/15 14:15	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			02/09/15 14:15	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			02/09/15 14:15	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			02/09/15 14:15	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			02/09/15 14:15	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			02/09/15 14:15	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			02/09/15 14:15	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			02/09/15 14:15	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			02/09/15 14:15	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			02/09/15 14:15	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			02/09/15 14:15	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			02/09/15 14:15	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			02/09/15 14:15	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			02/09/15 14:15	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			02/09/15 14:15	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			02/09/15 14:15	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			02/09/15 14:15	1
Acetone	10	U	10	3.0	ug/L			02/09/15 14:15	1
Benzene	1.0	U	1.0	0.41	ug/L			02/09/15 14:15	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			02/09/15 14:15	1
Bromoform	1.0	U	1.0	0.26	ug/L			02/09/15 14:15	1
Bromomethane	1.0	U	1.0	0.69	ug/L			02/09/15 14:15	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			02/09/15 14:15	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			02/09/15 14:15	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			02/09/15 14:15	1
Chloroethane	1.0	U	1.0	0.32	ug/L			02/09/15 14:15	1
Chloroform	1.0	U	1.0	0.34	ug/L			02/09/15 14:15	1
Chloromethane	1.0	U	1.0	0.35	ug/L			02/09/15 14:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			02/09/15 14:15	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			02/09/15 14:15	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			02/09/15 14:15	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			02/09/15 14:15	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-74894-1

Client Sample ID: WELL 1-3

Lab Sample ID: 480-74894-2

Date Collected: 01/29/15 07:30

Matrix: Water

Date Received: 01/31/15 02:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			02/09/15 14:15	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			02/09/15 14:15	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			02/09/15 14:15	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			02/09/15 14:15	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			02/09/15 14:15	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			02/09/15 14:15	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			02/09/15 14:15	1
Styrene	1.0	U	1.0	0.73	ug/L			02/09/15 14:15	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			02/09/15 14:15	1
Toluene	1.0	U	1.0	0.51	ug/L			02/09/15 14:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			02/09/15 14:15	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			02/09/15 14:15	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			02/09/15 14:15	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			02/09/15 14:15	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			02/09/15 14:15	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			02/09/15 14:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		66 - 137		02/09/15 14:15	1
4-Bromofluorobenzene (Surr)	104		73 - 120		02/09/15 14:15	1
Dibromofluoromethane (Surr)	96		60 - 140		02/09/15 14:15	1
Toluene-d8 (Surr)	99		71 - 126		02/09/15 14:15	1

TestAmerica Buffalo

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-74894-1

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)	BFB (73-120)	DBFM (60-140)	TOL (71-126)
480-74894-1	WELL 1-2A	98	102	97	99
480-74894-2	WELL 1-3	95	104	96	99
LCS 480-226163/5	Lab Control Sample	99	99	100	97
MB 480-226163/8	Method Blank	99	101	96	98

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-74894-1

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

Lab Sample ID: MB 480-226163/8

Matrix: Water

Analysis Batch: 226163

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	1.0	U	1.0	0.82	ug/L			02/09/15 13:10	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			02/09/15 13:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			02/09/15 13:10	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			02/09/15 13:10	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			02/09/15 13:10	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			02/09/15 13:10	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			02/09/15 13:10	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			02/09/15 13:10	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			02/09/15 13:10	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			02/09/15 13:10	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			02/09/15 13:10	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			02/09/15 13:10	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			02/09/15 13:10	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			02/09/15 13:10	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			02/09/15 13:10	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			02/09/15 13:10	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			02/09/15 13:10	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			02/09/15 13:10	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			02/09/15 13:10	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			02/09/15 13:10	1
Acetone	10	U	10	3.0	ug/L			02/09/15 13:10	1
Benzene	1.0	U	1.0	0.41	ug/L			02/09/15 13:10	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			02/09/15 13:10	1
Bromoform	1.0	U	1.0	0.26	ug/L			02/09/15 13:10	1
Bromomethane	1.0	U	1.0	0.69	ug/L			02/09/15 13:10	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			02/09/15 13:10	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			02/09/15 13:10	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			02/09/15 13:10	1
Chloroethane	1.0	U	1.0	0.32	ug/L			02/09/15 13:10	1
Chloroform	1.0	U	1.0	0.34	ug/L			02/09/15 13:10	1
Chloromethane	1.0	U	1.0	0.35	ug/L			02/09/15 13:10	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			02/09/15 13:10	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			02/09/15 13:10	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			02/09/15 13:10	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			02/09/15 13:10	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			02/09/15 13:10	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			02/09/15 13:10	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			02/09/15 13:10	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			02/09/15 13:10	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			02/09/15 13:10	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			02/09/15 13:10	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			02/09/15 13:10	1
Styrene	1.0	U	1.0	0.73	ug/L			02/09/15 13:10	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			02/09/15 13:10	1
Toluene	1.0	U	1.0	0.51	ug/L			02/09/15 13:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			02/09/15 13:10	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			02/09/15 13:10	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			02/09/15 13:10	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-74894-1

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

Lab Sample ID: MB 480-226163/8

Matrix: Water

Analysis Batch: 226163

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			02/09/15 13:10	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			02/09/15 13:10	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			02/09/15 13:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		66 - 137		02/09/15 13:10	1
4-Bromofluorobenzene (Surr)	101		73 - 120		02/09/15 13:10	1
Dibromofluoromethane (Surr)	96		60 - 140		02/09/15 13:10	1
Toluene-d8 (Surr)	98		71 - 126		02/09/15 13:10	1

Lab Sample ID: LCS 480-226163/5

Matrix: Water

Analysis Batch: 226163

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	24.4		ug/L		97	71 - 129
1,1-Dichloroethene	25.0	23.9		ug/L		96	58 - 121
1,2,4-Trimethylbenzene	25.0	24.1		ug/L		97	76 - 121
1,2-Dichlorobenzene	25.0	24.0		ug/L		96	80 - 124
1,2-Dichloroethane	25.0	24.2		ug/L		97	75 - 127
1,3,5-Trimethylbenzene	25.0	23.9		ug/L		96	77 - 121
Benzene	25.0	24.3		ug/L		97	71 - 124
Chlorobenzene	25.0	23.5		ug/L		94	72 - 120
cis-1,2-Dichloroethene	25.0	24.3		ug/L		97	74 - 124
Ethylbenzene	25.0	24.1		ug/L		96	77 - 123
Methyl tert-butyl ether	25.0	24.5		ug/L		98	64 - 127
Tetrachloroethene	25.0	24.2		ug/L		97	74 - 122
Toluene	25.0	23.9		ug/L		96	80 - 122
trans-1,2-Dichloroethene	25.0	24.2		ug/L		97	73 - 127
Trichloroethene	25.0	25.2		ug/L		101	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		66 - 137
4-Bromofluorobenzene (Surr)	99		73 - 120
Dibromofluoromethane (Surr)	100		60 - 140
Toluene-d8 (Surr)	97		71 - 126

TestAmerica Buffalo

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-74894-1

GC/MS VOA

Analysis Batch: 226163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-74894-1	WELL 1-2A	Total/NA	Water	8260C	
480-74894-2	WELL 1-3	Total/NA	Water	8260C	
LCS 480-226163/5	Lab Control Sample	Total/NA	Water	8260C	
MB 480-226163/8	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-74894-1

Client Sample ID: WELL 1-2A

Date Collected: 01/29/15 07:35

Date Received: 01/31/15 02:20

Lab Sample ID: 480-74894-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	226163	02/09/15 13:47	LCH	TAL BUF

Client Sample ID: WELL 1-3

Date Collected: 01/29/15 07:30

Date Received: 01/31/15 02:20

Lab Sample ID: 480-74894-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	226163	02/09/15 14:15	LCH	TAL BUF

Laboratory References:

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

Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-74894-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

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

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	1,2,3-Trimethylbenzene

* Certification renewal pending - certification considered valid.

TestAmerica Buffalo

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-74894-1

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: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-74894-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-74894-1	WELL 1-2A	Water	01/29/15 07:35	01/31/15 02:20
480-74894-2	WELL 1-3	Water	01/29/15 07:30	01/31/15 02:20

1

2

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12

13

14

15

TestAmerica

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

Client	ARCADIS	Project Manager	Jeremy Wyckoff	Date	1/29/15	Chain of Custody Number	223267
Address	855 Route 146, Ste 210	Telephone Number (Area Code)/Fax Number	518-250-7300	Lab Number		Page	1 of 1

City	State	Zip Code	Site Contact	Lab Contact	Analysis (Attach list if more space is needed)					
Clifton Park	NY	12065	J. Wyckoff	J. Stone						
Project Name and Location (State)			Carrier/Waybill Number							

[illegible]

**Special Instructions/
Conditions of Receipt**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time
	Air	
	Aqueous	
	Sed.	
	Soil	
	Unpres.	
	H2SO4	
	HNO3	
	HCl	
	NaOH	
	ZnAc/NaOH	

[illegible]

A vertical rectangular sheet of white paper featuring a light gray grid pattern. The grid consists of small squares, typical of standard graph paper used for mathematics or science. There are no margins, text, or other markings on the page.

[illegible]

480-74894 Chain of Custody

A blank sheet of graph paper with a grid pattern. The grid consists of small squares formed by horizontal and vertical lines. There are no markings or text on the page.

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	QC Requirements (Specify)
☐ 24 Hours ☐ 48 Hours ☒ 7 Days ☒ 14 Days ☐ 21 Days ☐ Other _____	

1. Relinquished By	Date	Time	1. Received By	Date	Time
	1/30/15	11:30		1-30-15	14:10
2. Relinquished By	Date	Time	2. Received By	Date	Time
					

3. Relinquished By 	Date 1-30-15	Time 18:00	3. Received By 	Date 3/20/15	Time 0220

[illegible]

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

distribution: *minitab* - Reliانت to One-way ANOVA, Cr as a factor. Study what the sampling distribution of $\bar{y}$ is.

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-74894-1

Login Number: 74894

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

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	ARCADIS
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: 480-75976-1

Client Project/Site: NYSDEC-Standby VESTAL

For:

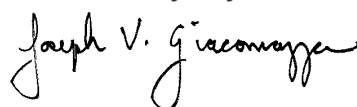
ARCADIS U.S. Inc

855 Route 146

Suite 210

Clifton Park, New York 12065

Attn: Jeremy Wyckoff



Authorized for release by:

3/10/2015 11:17:00 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

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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: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-75976-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.

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: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-75976-1

Job ID: 480-75976-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-75976-1

Receipt

The samples were received on 2/28/2015 1:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.3° C.

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 228907 recovered above the upper control limit for Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. (CCVIS 480-228907/3).

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

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-75976-1

Client Sample ID: WELL 1-3

Lab Sample ID: 480-75976-1

No Detections.

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-75976-2

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-75976-1

Client Sample ID: WELL 1-3

Lab Sample ID: 480-75976-1

Date Collected: 02/25/15 13:30

Matrix: Water

Date Received: 02/28/15 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			03/03/15 17:15	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			03/03/15 17:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			03/03/15 17:15	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			03/03/15 17:15	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			03/03/15 17:15	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			03/03/15 17:15	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			03/03/15 17:15	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			03/03/15 17:15	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			03/03/15 17:15	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			03/03/15 17:15	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			03/03/15 17:15	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			03/03/15 17:15	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/03/15 17:15	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			03/03/15 17:15	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			03/03/15 17:15	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			03/03/15 17:15	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			03/03/15 17:15	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			03/03/15 17:15	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			03/03/15 17:15	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			03/03/15 17:15	1
Acetone	10	U	10	3.0	ug/L			03/03/15 17:15	1
Benzene	1.0	U	1.0	0.41	ug/L			03/03/15 17:15	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			03/03/15 17:15	1
Bromoform	1.0	U	1.0	0.26	ug/L			03/03/15 17:15	1
Bromomethane	1.0	U	1.0	0.69	ug/L			03/03/15 17:15	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			03/03/15 17:15	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			03/03/15 17:15	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			03/03/15 17:15	1
Chloroethane	1.0	U	1.0	0.32	ug/L			03/03/15 17:15	1
Chloroform	1.0	U	1.0	0.34	ug/L			03/03/15 17:15	1
Chloromethane	1.0	U	1.0	0.35	ug/L			03/03/15 17:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			03/03/15 17:15	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			03/03/15 17:15	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			03/03/15 17:15	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			03/03/15 17:15	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			03/03/15 17:15	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			03/03/15 17:15	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			03/03/15 17:15	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			03/03/15 17:15	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			03/03/15 17:15	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			03/03/15 17:15	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			03/03/15 17:15	1
Styrene	1.0	U	1.0	0.73	ug/L			03/03/15 17:15	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			03/03/15 17:15	1
Toluene	1.0	U	1.0	0.51	ug/L			03/03/15 17:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			03/03/15 17:15	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			03/03/15 17:15	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			03/03/15 17:15	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			03/03/15 17:15	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-75976-1

Client Sample ID: WELL 1-3

Date Collected: 02/25/15 13:30

Date Received: 02/28/15 01:45

Lab Sample ID: 480-75976-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.90	ug/L			03/03/15 17:15	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			03/03/15 17:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		66 - 137					03/03/15 17:15	1
4-Bromofluorobenzene (Surr)	103		73 - 120					03/03/15 17:15	1
Dibromofluoromethane (Surr)	108		60 - 140					03/03/15 17:15	1
Toluene-d8 (Surr)	103		71 - 126					03/03/15 17:15	1

Client Sample ID: TRIP BLANK

Date Collected: 02/25/15 00:00

Date Received: 02/28/15 01:45

Lab Sample ID: 480-75976-2

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	1.0	U	1.0	0.82	ug/L			03/03/15 17:37	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			03/03/15 17:37	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			03/03/15 17:37	1
1,1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			03/03/15 17:37	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			03/03/15 17:37	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			03/03/15 17:37	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			03/03/15 17:37	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			03/03/15 17:37	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			03/03/15 17:37	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			03/03/15 17:37	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			03/03/15 17:37	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			03/03/15 17:37	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/03/15 17:37	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			03/03/15 17:37	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			03/03/15 17:37	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			03/03/15 17:37	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			03/03/15 17:37	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			03/03/15 17:37	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			03/03/15 17:37	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			03/03/15 17:37	1
Acetone	10	U	10	3.0	ug/L			03/03/15 17:37	1
Benzene	1.0	U	1.0	0.41	ug/L			03/03/15 17:37	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			03/03/15 17:37	1
Bromoform	1.0	U	1.0	0.26	ug/L			03/03/15 17:37	1
Bromomethane	1.0	U	1.0	0.69	ug/L			03/03/15 17:37	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			03/03/15 17:37	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			03/03/15 17:37	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			03/03/15 17:37	1
Chloroethane	1.0	U	1.0	0.32	ug/L			03/03/15 17:37	1
Chloroform	1.0	U	1.0	0.34	ug/L			03/03/15 17:37	1
Chloromethane	1.0	U	1.0	0.35	ug/L			03/03/15 17:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			03/03/15 17:37	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			03/03/15 17:37	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			03/03/15 17:37	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			03/03/15 17:37	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-75976-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-75976-2

Date Collected: 02/25/15 00:00

Matrix: Water

Date Received: 02/28/15 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			03/03/15 17:37	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			03/03/15 17:37	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			03/03/15 17:37	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			03/03/15 17:37	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			03/03/15 17:37	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			03/03/15 17:37	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			03/03/15 17:37	1
Styrene	1.0	U	1.0	0.73	ug/L			03/03/15 17:37	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			03/03/15 17:37	1
Toluene	1.0	U	1.0	0.51	ug/L			03/03/15 17:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			03/03/15 17:37	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			03/03/15 17:37	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			03/03/15 17:37	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			03/03/15 17:37	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			03/03/15 17:37	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			03/03/15 17:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		66 - 137		03/03/15 17:37	1
4-Bromofluorobenzene (Surr)	102		73 - 120		03/03/15 17:37	1
Dibromofluoromethane (Surr)	108		60 - 140		03/03/15 17:37	1
Toluene-d8 (Surr)	102		71 - 126		03/03/15 17:37	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-75976-1

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)	BFB (73-120)	DBFM (60-140)	TOL (71-126)
480-75976-1	WELL 1-3	108	103	108	103
480-75976-2	TRIP BLANK	107	102	108	102
LCS 480-228907/5	Lab Control Sample	102	102	103	102
MB 480-228907/7	Method Blank	107	103	107	101

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-75976-1

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

Lab Sample ID: MB 480-228907/7

Matrix: Water

Analysis Batch: 228907

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	1.0	U	1.0	0.82	ug/L			03/03/15 10:39	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			03/03/15 10:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			03/03/15 10:39	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			03/03/15 10:39	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			03/03/15 10:39	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			03/03/15 10:39	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			03/03/15 10:39	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			03/03/15 10:39	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			03/03/15 10:39	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			03/03/15 10:39	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			03/03/15 10:39	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			03/03/15 10:39	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/03/15 10:39	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			03/03/15 10:39	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			03/03/15 10:39	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			03/03/15 10:39	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			03/03/15 10:39	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			03/03/15 10:39	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			03/03/15 10:39	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			03/03/15 10:39	1
Acetone	10	U	10	3.0	ug/L			03/03/15 10:39	1
Benzene	1.0	U	1.0	0.41	ug/L			03/03/15 10:39	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			03/03/15 10:39	1
Bromoform	1.0	U	1.0	0.26	ug/L			03/03/15 10:39	1
Bromomethane	1.0	U	1.0	0.69	ug/L			03/03/15 10:39	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			03/03/15 10:39	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			03/03/15 10:39	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			03/03/15 10:39	1
Chloroethane	1.0	U	1.0	0.32	ug/L			03/03/15 10:39	1
Chloroform	1.0	U	1.0	0.34	ug/L			03/03/15 10:39	1
Chloromethane	1.0	U	1.0	0.35	ug/L			03/03/15 10:39	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			03/03/15 10:39	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			03/03/15 10:39	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			03/03/15 10:39	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			03/03/15 10:39	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			03/03/15 10:39	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			03/03/15 10:39	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			03/03/15 10:39	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			03/03/15 10:39	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			03/03/15 10:39	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			03/03/15 10:39	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			03/03/15 10:39	1
Styrene	1.0	U	1.0	0.73	ug/L			03/03/15 10:39	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			03/03/15 10:39	1
Toluene	1.0	U	1.0	0.51	ug/L			03/03/15 10:39	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			03/03/15 10:39	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			03/03/15 10:39	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			03/03/15 10:39	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-75976-1

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

Lab Sample ID: MB 480-228907/7

Matrix: Water

Analysis Batch: 228907

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			03/03/15 10:39	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			03/03/15 10:39	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			03/03/15 10:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		66 - 137		03/03/15 10:39	1
4-Bromofluorobenzene (Surr)	103		73 - 120		03/03/15 10:39	1
Dibromofluoromethane (Surr)	107		60 - 140		03/03/15 10:39	1
Toluene-d8 (Surr)	101		71 - 126		03/03/15 10:39	1

Lab Sample ID: LCS 480-228907/5

Matrix: Water

Analysis Batch: 228907

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
1,1-Dichloroethene	25.0	26.2		ug/L		105	58 - 121
1,2,4-Trimethylbenzene	25.0	24.7		ug/L		99	76 - 121
1,2-Dichlorobenzene	25.0	25.4		ug/L		101	80 - 124
1,2-Dichloroethane	25.0	25.8		ug/L		103	75 - 127
1,3,5-Trimethylbenzene	25.0	24.7		ug/L		99	77 - 121
Benzene	25.0	26.4		ug/L		105	71 - 124
Chlorobenzene	25.0	26.4		ug/L		105	72 - 120
cis-1,2-Dichloroethene	25.0	27.3		ug/L		109	74 - 124
Ethylbenzene	25.0	26.7		ug/L		107	77 - 123
Methyl tert-butyl ether	25.0	25.6		ug/L		102	64 - 127
Tetrachloroethene	25.0	28.2		ug/L		113	74 - 122
Toluene	25.0	26.0		ug/L		104	80 - 122
trans-1,2-Dichloroethene	25.0	28.0		ug/L		112	73 - 127
Trichloroethene	25.0	26.8		ug/L		107	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		66 - 137
4-Bromofluorobenzene (Surr)	102		73 - 120
Dibromofluoromethane (Surr)	103		60 - 140
Toluene-d8 (Surr)	102		71 - 126

TestAmerica Buffalo

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-75976-1

GC/MS VOA

Analysis Batch: 228907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-75976-1	WELL 1-3	Total/NA	Water	8260C	
480-75976-2	TRIP BLANK	Total/NA	Water	8260C	
LCS 480-228907/5	Lab Control Sample	Total/NA	Water	8260C	
MB 480-228907/7	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-75976-1

Client Sample ID: WELL 1-3

Date Collected: 02/25/15 13:30

Date Received: 02/28/15 01:45

Lab Sample ID: 480-75976-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	228907	03/03/15 17:15	EDB	TAL BUF

Client Sample ID: TRIP BLANK

Date Collected: 02/25/15 00:00

Date Received: 02/28/15 01:45

Lab Sample ID: 480-75976-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	228907	03/03/15 17:37	EDB	TAL BUF

Laboratory References:

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

Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-75976-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

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

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	1,2,3-Trimethylbenzene

* Certification renewal pending - certification considered valid.

TestAmerica Buffalo

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-75976-1

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: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-75976-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-75976-1	WELL 1-3	Water	02/25/15 13:30	02/28/15 01:45
480-75976-2	TRIP BLANK	Water	02/25/15 00:00	02/28/15 01:45

TestAmerica Buffalo

10 Hazelwood Drive
 Amherst, NY 14228-2298
 Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
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Client Information Client Contact: Ms. Katie Bidwell Phone: 518-250-7300 E-Mail: judy.stone@testamericainc.com		Lab Pmt: Stone, Judy L Carrier Tracking No(s): COC No: 480-63748-15761.1	
Company: ARCADIS U.S. Inc. Address: 855 Route 146 Suite 210 City: Clifton Park State, Zip: NY, 12065 Phone: 518-250-7300 (Tel) Email: katie.bidwell@arcadis-us.com Project Name: NYSDEC-Standby VESTAL Site: VESTAL		Analysis Requested Due Date Requested: TAT Requested (days): 10 PO #: Project 00266401.0000 WO #: Contract D007618 Project #: 48005198 SSOW#:	
Sample Identification Sample Date: 2/25/15 Sample Time: 1330 Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=soil, A=air): Water		Field Filtered Sample (Yes or No): 8260C - (MOD) TCL list OLM04.2 Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Well 1-2A Well 1-3		Special Instructions/Note: Total Number of Containers:	
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: ☒ III, IV, Other (specify) Level II			
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months			
Special Instructions/QC Requirements:			
Empty Kit Relinquished by: [Signature] Relinquished Date: 2/25/15 1345 Relinquished by: [Signature] Relinquished Date: 2-27-15 1800		Method of Shipment: Received by: [Signature] Received Date: 2-27-15 10:10 Received by: [Signature] Received Date: 2-26-15 0145	
Custody Seals Intact: ☒ Yes ☐ No		Cooler Temperature(s) °C and Other Remarks: 1.3 #1	

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-75976-1

Login Number: 75976

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

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.	False	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	ARCADIS
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	

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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: 480-76966-1

Client Project/Site: NYSDEC-Standby VESTAL

For:

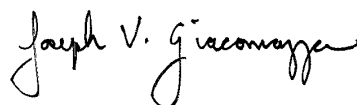
ARCADIS U.S. Inc

855 Route 146

Suite 210

Clifton Park, New York 12065

Attn: Jeremy Wyckoff



Authorized for release by:

3/30/2015 12:14:43 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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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: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-76966-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.

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: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-76966-1

Job ID: 480-76966-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-76966-1

Receipt

The samples were received on 3/20/2015 9:00 AM; 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

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

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-76966-1

Client Sample ID: WELL 1-3

Lab Sample ID: 480-76966-1

No Detections.

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-76966-2

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-76966-1

Client Sample ID: WELL 1-3

Lab Sample ID: 480-76966-1

Date Collected: 03/19/15 13:00

Matrix: Water

Date Received: 03/20/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			03/24/15 15:22	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			03/24/15 15:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			03/24/15 15:22	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			03/24/15 15:22	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			03/24/15 15:22	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			03/24/15 15:22	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			03/24/15 15:22	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			03/24/15 15:22	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			03/24/15 15:22	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			03/24/15 15:22	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			03/24/15 15:22	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			03/24/15 15:22	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/24/15 15:22	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			03/24/15 15:22	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			03/24/15 15:22	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			03/24/15 15:22	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			03/24/15 15:22	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			03/24/15 15:22	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			03/24/15 15:22	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			03/24/15 15:22	1
Acetone	10	U	10	3.0	ug/L			03/24/15 15:22	1
Benzene	1.0	U	1.0	0.41	ug/L			03/24/15 15:22	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			03/24/15 15:22	1
Bromoform	1.0	U	1.0	0.26	ug/L			03/24/15 15:22	1
Bromomethane	1.0	U	1.0	0.69	ug/L			03/24/15 15:22	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			03/24/15 15:22	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			03/24/15 15:22	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			03/24/15 15:22	1
Chloroethane	1.0	U	1.0	0.32	ug/L			03/24/15 15:22	1
Chloroform	1.0	U	1.0	0.34	ug/L			03/24/15 15:22	1
Chloromethane	1.0	U	1.0	0.35	ug/L			03/24/15 15:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			03/24/15 15:22	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			03/24/15 15:22	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			03/24/15 15:22	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			03/24/15 15:22	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			03/24/15 15:22	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			03/24/15 15:22	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			03/24/15 15:22	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			03/24/15 15:22	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			03/24/15 15:22	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			03/24/15 15:22	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			03/24/15 15:22	1
Styrene	1.0	U	1.0	0.73	ug/L			03/24/15 15:22	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			03/24/15 15:22	1
Toluene	1.0	U	1.0	0.51	ug/L			03/24/15 15:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			03/24/15 15:22	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			03/24/15 15:22	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			03/24/15 15:22	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			03/24/15 15:22	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-76966-1

Client Sample ID: WELL 1-3

Date Collected: 03/19/15 13:00

Date Received: 03/20/15 09:00

Lab Sample ID: 480-76966-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.90	ug/L			03/24/15 15:22	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			03/24/15 15:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		66 - 137					03/24/15 15:22	1
4-Bromofluorobenzene (Surr)	87		73 - 120					03/24/15 15:22	1
Dibromofluoromethane (Surr)	114		60 - 140					03/24/15 15:22	1
Toluene-d8 (Surr)	101		71 - 126					03/24/15 15:22	1

Client Sample ID: TRIP BLANK

Date Collected: 03/19/15 00:00

Date Received: 03/20/15 09:00

Lab Sample ID: 480-76966-2

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	1.0	U	1.0	0.82	ug/L			03/24/15 15:46	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			03/24/15 15:46	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			03/24/15 15:46	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			03/24/15 15:46	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			03/24/15 15:46	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			03/24/15 15:46	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			03/24/15 15:46	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			03/24/15 15:46	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			03/24/15 15:46	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			03/24/15 15:46	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			03/24/15 15:46	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			03/24/15 15:46	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/24/15 15:46	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			03/24/15 15:46	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			03/24/15 15:46	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			03/24/15 15:46	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			03/24/15 15:46	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			03/24/15 15:46	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			03/24/15 15:46	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			03/24/15 15:46	1
Acetone	10	U	10	3.0	ug/L			03/24/15 15:46	1
Benzene	1.0	U	1.0	0.41	ug/L			03/24/15 15:46	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			03/24/15 15:46	1
Bromoform	1.0	U	1.0	0.26	ug/L			03/24/15 15:46	1
Bromomethane	1.0	U	1.0	0.69	ug/L			03/24/15 15:46	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			03/24/15 15:46	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			03/24/15 15:46	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			03/24/15 15:46	1
Chloroethane	1.0	U	1.0	0.32	ug/L			03/24/15 15:46	1
Chloroform	1.0	U	1.0	0.34	ug/L			03/24/15 15:46	1
Chloromethane	1.0	U	1.0	0.35	ug/L			03/24/15 15:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			03/24/15 15:46	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			03/24/15 15:46	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			03/24/15 15:46	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			03/24/15 15:46	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-76966-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-76966-2

Date Collected: 03/19/15 00:00

Matrix: Water

Date Received: 03/20/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			03/24/15 15:46	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			03/24/15 15:46	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			03/24/15 15:46	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			03/24/15 15:46	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			03/24/15 15:46	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			03/24/15 15:46	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			03/24/15 15:46	1
Styrene	1.0	U	1.0	0.73	ug/L			03/24/15 15:46	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			03/24/15 15:46	1
Toluene	1.0	U	1.0	0.51	ug/L			03/24/15 15:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			03/24/15 15:46	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			03/24/15 15:46	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			03/24/15 15:46	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			03/24/15 15:46	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			03/24/15 15:46	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			03/24/15 15:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		66 - 137		03/24/15 15:46	1
4-Bromofluorobenzene (Surr)	87		73 - 120		03/24/15 15:46	1
Dibromofluoromethane (Surr)	112		60 - 140		03/24/15 15:46	1
Toluene-d8 (Surr)	100		71 - 126		03/24/15 15:46	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-76966-1

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)	BFB (73-120)	DBFM (60-140)	TOL (71-126)
480-76966-1	WELL 1-3	114	87	114	101
480-76966-2	TRIP BLANK	113	87	112	100
LCS 480-231887/5	Lab Control Sample	103	94	105	101
MB 480-231887/7	Method Blank	110	91	110	99

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-76966-1

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

Lab Sample ID: MB 480-231887/7

Matrix: Water

Analysis Batch: 231887

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	1.0	U	1.0	0.82	ug/L			03/24/15 12:20	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			03/24/15 12:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			03/24/15 12:20	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			03/24/15 12:20	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			03/24/15 12:20	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			03/24/15 12:20	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			03/24/15 12:20	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			03/24/15 12:20	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			03/24/15 12:20	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			03/24/15 12:20	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			03/24/15 12:20	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			03/24/15 12:20	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/24/15 12:20	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			03/24/15 12:20	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			03/24/15 12:20	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			03/24/15 12:20	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			03/24/15 12:20	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			03/24/15 12:20	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			03/24/15 12:20	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			03/24/15 12:20	1
Acetone	10	U	10	3.0	ug/L			03/24/15 12:20	1
Benzene	1.0	U	1.0	0.41	ug/L			03/24/15 12:20	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			03/24/15 12:20	1
Bromoform	1.0	U	1.0	0.26	ug/L			03/24/15 12:20	1
Bromomethane	1.0	U	1.0	0.69	ug/L			03/24/15 12:20	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			03/24/15 12:20	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			03/24/15 12:20	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			03/24/15 12:20	1
Chloroethane	1.0	U	1.0	0.32	ug/L			03/24/15 12:20	1
Chloroform	1.0	U	1.0	0.34	ug/L			03/24/15 12:20	1
Chloromethane	1.0	U	1.0	0.35	ug/L			03/24/15 12:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			03/24/15 12:20	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			03/24/15 12:20	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			03/24/15 12:20	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			03/24/15 12:20	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			03/24/15 12:20	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			03/24/15 12:20	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			03/24/15 12:20	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			03/24/15 12:20	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			03/24/15 12:20	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			03/24/15 12:20	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			03/24/15 12:20	1
Styrene	1.0	U	1.0	0.73	ug/L			03/24/15 12:20	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			03/24/15 12:20	1
Toluene	1.0	U	1.0	0.51	ug/L			03/24/15 12:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			03/24/15 12:20	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			03/24/15 12:20	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			03/24/15 12:20	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-76966-1

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

Lab Sample ID: MB 480-231887/7

Matrix: Water

Analysis Batch: 231887

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			03/24/15 12:20	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			03/24/15 12:20	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			03/24/15 12:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		66 - 137		03/24/15 12:20	1
4-Bromofluorobenzene (Surr)	91		73 - 120		03/24/15 12:20	1
Dibromofluoromethane (Surr)	110		60 - 140		03/24/15 12:20	1
Toluene-d8 (Surr)	99		71 - 126		03/24/15 12:20	1

Lab Sample ID: LCS 480-231887/5

Matrix: Water

Analysis Batch: 231887

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
1,1-Dichloroethene	25.0	27.8		ug/L		111	58 - 121
1,2,4-Trimethylbenzene	25.0	26.1		ug/L		104	76 - 121
1,2-Dichlorobenzene	25.0	25.3		ug/L		101	80 - 124
1,2-Dichloroethane	25.0	27.1		ug/L		109	75 - 127
1,3,5-Trimethylbenzene	25.0	26.3		ug/L		105	77 - 121
Benzene	25.0	27.3		ug/L		109	71 - 124
Chlorobenzene	25.0	25.9		ug/L		104	72 - 120
cis-1,2-Dichloroethene	25.0	26.2		ug/L		105	74 - 124
Ethylbenzene	25.0	27.3		ug/L		109	77 - 123
Methyl tert-butyl ether	25.0	25.1		ug/L		101	64 - 127
Tetrachloroethene	25.0	26.6		ug/L		106	74 - 122
Toluene	25.0	26.4		ug/L		106	80 - 122
trans-1,2-Dichloroethene	25.0	26.8		ug/L		107	73 - 127
Trichloroethene	25.0	27.4		ug/L		109	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		66 - 137
4-Bromofluorobenzene (Surr)	94		73 - 120
Dibromofluoromethane (Surr)	105		60 - 140
Toluene-d8 (Surr)	101		71 - 126

TestAmerica Buffalo

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-76966-1

GC/MS VOA

Analysis Batch: 231887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-76966-1	WELL 1-3	Total/NA	Water	8260C	
480-76966-2	TRIP BLANK	Total/NA	Water	8260C	
LCS 480-231887/5	Lab Control Sample	Total/NA	Water	8260C	
MB 480-231887/7	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-76966-1

Client Sample ID: WELL 1-3

Date Collected: 03/19/15 13:00

Date Received: 03/20/15 09:00

Lab Sample ID: 480-76966-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	231887	03/24/15 15:22	GTG	TAL BUF

Client Sample ID: TRIP BLANK

Date Collected: 03/19/15 00:00

Date Received: 03/20/15 09:00

Lab Sample ID: 480-76966-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	231887	03/24/15 15:46	GTG	TAL BUF

Laboratory References:

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

Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-76966-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

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

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	1,2,3-Trimethylbenzene

* Certification renewal pending - certification considered valid.

TestAmerica Buffalo

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-76966-1

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: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-76966-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-76966-1	WELL 1-3	Water	03/19/15 13:00	03/20/15 09:00
480-76966-2	TRIP BLANK	Water	03/19/15 00:00	03/20/15 09:00

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-76966-1

Login Number: 76966

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.	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.	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: 480-78924-1

Client Project/Site: NYSDEC-Standby VESTAL

For:

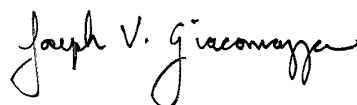
ARCADIS U.S. Inc

855 Route 146

Suite 210

Clifton Park, New York 12065

Attn: Jeremy Wyckoff



Authorized for release by:

5/7/2015 11:12:22 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: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.
J	Indicates an estimated value.
*	MS or MSD is outside acceptance limits.
E	Compound concentration exceeds the upper level of the calibration range of the instrument for that specific analysis.

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: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Job ID: 480-78924-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-78924-1

Receipt

The samples were received on 4/22/2015 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.4° C.

Except:

The following sample was listed on the Chain of Custody (COC); however, no sample was received: 4009-18 (480-78924-14).

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 239512 recovered above the upper control limit for several 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: 4009-29S (480-78924-22) and 4009-29I (480-78924-23).

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 239512 was outside the method criteria for the following analyte: 1,1,1 Trichloroethane. 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 is considered estimated. 4009-29S (480-78924-22) and 4009-29I (480-78924-23)

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: 4009-29S (480-78924-22) and 4009-29I (480-78924-23). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 239404 recovered above the upper control limit for Several 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: 4009-19 (480-78924-15), 4009-21 (480-78924-16), 4009-27I (480-78924-19), 4009-29S (480-78924-22), 4009-29I (480-78924-23), 4009-30 (480-78924-25), 4009-30A (480-78924-26), WELL 1-1 (480-78924-27), DUP 1 (480-78924-28) and DUP 2 (480-78924-29).

Method(s) 8260C: The following samples was diluted to bring the concentration of target analytes within the calibration range: WELL 1-1 (480-78924-27) and DUP 1 (480-78924-28). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 239404 was outside the method criteria for the following analyte: 1,1,1 Trichloroethane. 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 is considered estimated. 4009-30 (480-78924-25), WELL 1-1 (480-78924-27) and DUP 1 (480-78924-28)

Method(s) 8260C: The following samples was diluted to bring the concentration of target analytes within the calibration range: 4009-29D (480-78924-24) and DUP 1 (480-78924-28). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following samples was diluted to bring the concentration of target analytes within the calibration range: (480-78924-C-22 MS) and (480-78924-C-22 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: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: WELL 1-2A (SAMPLE INFLUENT)

Lab Sample ID: 480-78924-1

No Detections.

Client Sample ID: WELL 1-3 (SAMPLE INFLUENT)

Lab Sample ID: 480-78924-2

No Detections.

Client Sample ID: 4009-9

Lab Sample ID: 480-78924-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.1	J	10	3.0	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.9		1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	0.52	J	1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-10

Lab Sample ID: 480-78924-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	9.2	J	10	3.0	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-11

Lab Sample ID: 480-78924-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.7	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	5.6		1.0	0.41	ug/L	1		8260C	Total/NA
Toluene	1.0		1.0	0.51	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-11A

Lab Sample ID: 480-78924-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.6	J	10	3.0	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-12

Lab Sample ID: 480-78924-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.8		1.0	0.38	ug/L	1		8260C	Total/NA
Acetone	7.1	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	2.7		1.0	0.41	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	4.1		1.0	0.81	ug/L	1		8260C	Total/NA
Vinyl chloride	2.3		1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-13

Lab Sample ID: 480-78924-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.9	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	0.96	J	1.0	0.41	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-13A

Lab Sample ID: 480-78924-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.8	J	10	3.0	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-14

Lab Sample ID: 480-78924-10

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: 4009-14 (Continued)

Lab Sample ID: 480-78924-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.1	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	1.2		1.0	0.41	ug/L	1		8260C	Total/NA
Toluene	1.0		1.0	0.51	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-15

Lab Sample ID: 480-78924-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.8	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	1.8		1.0	0.41	ug/L	1		8260C	Total/NA
Toluene	0.77	J	1.0	0.51	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-16

Lab Sample ID: 480-78924-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.0	J	10	3.0	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-16A

Lab Sample ID: 480-78924-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.4	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	5.7		1.0	0.41	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-19

Lab Sample ID: 480-78924-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.5	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	2.7		1.0	0.41	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-21

Lab Sample ID: 480-78924-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.9	J	10	3.0	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-22

Lab Sample ID: 480-78924-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.5	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	1.2		1.0	0.41	ug/L	1		8260C	Total/NA
Toluene	0.93	J	1.0	0.51	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-27S

Lab Sample ID: 480-78924-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	61		1.0	0.82	ug/L	1		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	3.3		1.0	0.31	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	2.6		1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	6.2		1.0	0.29	ug/L	1		8260C	Total/NA
Acetone	8.1	J	10	3.0	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	21		1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	25		1.0	0.46	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: 4009-27I

Lab Sample ID: 480-78924-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	9.3	J	10	3.0	ug/L	1		8260C	Total/NA
Toluene	0.87	J	1.0	0.51	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-27D

Lab Sample ID: 480-78924-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.1	J	10	3.0	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-28

Lab Sample ID: 480-78924-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	2.9		1.0	0.82	ug/L	1		8260C	Total/NA
Acetone	6.1	J	10	3.0	ug/L	1		8260C	Total/NA
Carbon disulfide	0.22	J	1.0	0.19	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-29S

Lab Sample ID: 480-78924-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	830		20	16	ug/L	20		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	8.7	J	20	6.2	ug/L	20		8260C	Total/NA
1,1-Dichloroethane	38		20	7.6	ug/L	20		8260C	Total/NA
1,1-Dichloroethene	37		20	5.8	ug/L	20		8260C	Total/NA
cis-1,2-Dichloroethene	320		20	16	ug/L	20		8260C	Total/NA
Vinyl chloride	24		20	18	ug/L	20		8260C	Total/NA

Client Sample ID: 4009-29I

Lab Sample ID: 480-78924-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1500		40	33	ug/L	40		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	15	J	40	12	ug/L	40		8260C	Total/NA
1,1-Dichloroethane	100		40	15	ug/L	40		8260C	Total/NA
1,1-Dichloroethene	85		40	12	ug/L	40		8260C	Total/NA
cis-1,2-Dichloroethene	380		40	32	ug/L	40		8260C	Total/NA
Methylene Chloride	18	J	40	18	ug/L	40		8260C	Total/NA
Trichloroethene	410		40	18	ug/L	40		8260C	Total/NA
Vinyl chloride	92		40	36	ug/L	40		8260C	Total/NA

Client Sample ID: 4009-29D

Lab Sample ID: 480-78924-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	290		5.0	4.1	ug/L	5		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	3.6	J	5.0	1.6	ug/L	5		8260C	Total/NA
1,1-Dichloroethane	51		5.0	1.9	ug/L	5		8260C	Total/NA
1,1-Dichloroethene	29		5.0	1.5	ug/L	5		8260C	Total/NA
Chloroethane	2.5	J	5.0	1.6	ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	210		5.0	4.1	ug/L	5		8260C	Total/NA
Trichloroethene	20		5.0	2.3	ug/L	5		8260C	Total/NA
Vinyl chloride	55		5.0	4.5	ug/L	5		8260C	Total/NA

Client Sample ID: 4009-30

Lab Sample ID: 480-78924-25

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: 4009-30 (Continued)

Lab Sample ID: 480-78924-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.98	J	1.0	0.82	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	0.86	J	1.0	0.38	ug/L	1		8260C	Total/NA
Acetone	7.0	J	10	3.0	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-30A

Lab Sample ID: 480-78924-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.9	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	0.75	J	1.0	0.41	ug/L	1		8260C	Total/NA

Client Sample ID: WELL 1-1

Lab Sample ID: 480-78924-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	220		4.0	3.3	ug/L	4		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	4.1		4.0	1.2	ug/L	4		8260C	Total/NA
1,1-Dichloroethane	15		4.0	1.5	ug/L	4		8260C	Total/NA
1,1-Dichloroethene	10		4.0	1.2	ug/L	4		8260C	Total/NA
cis-1,2-Dichloroethene	39		4.0	3.2	ug/L	4		8260C	Total/NA
Trichloroethene	41		4.0	1.8	ug/L	4		8260C	Total/NA

Client Sample ID: DUP 1

Lab Sample ID: 480-78924-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1200	E	10	8.2	ug/L	10		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	20		10	3.1	ug/L	10		8260C	Total/NA
1,1-Dichloroethane	90		10	3.8	ug/L	10		8260C	Total/NA
1,1-Dichloroethene	100		10	2.9	ug/L	10		8260C	Total/NA
cis-1,2-Dichloroethene	360		10	8.1	ug/L	10		8260C	Total/NA
Trichloroethene	410		10	4.6	ug/L	10		8260C	Total/NA
Vinyl chloride	89		10	9.0	ug/L	10		8260C	Total/NA
1,1,1-Trichloroethane - DL	1700		25	21	ug/L	25		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane - DL	20	J	25	7.8	ug/L	25		8260C	Total/NA
1,1-Dichloroethane - DL	110		25	9.5	ug/L	25		8260C	Total/NA
1,1-Dichloroethene - DL	97		25	7.3	ug/L	25		8260C	Total/NA
cis-1,2-Dichloroethene - DL	390		25	20	ug/L	25		8260C	Total/NA
Trichloroethene - DL	450		25	12	ug/L	25		8260C	Total/NA
Vinyl chloride - DL	100		25	23	ug/L	25		8260C	Total/NA

Client Sample ID: DUP 2

Lab Sample ID: 480-78924-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.8		1.0	0.38	ug/L	1		8260C	Total/NA
Acetone	9.0	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	2.6		1.0	0.41	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	3.8		1.0	0.81	ug/L	1		8260C	Total/NA
Vinyl chloride	2.4		1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-78924-30

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: FIELD BLANK

Lab Sample ID: 480-78924-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.5	J	10	3.0	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: WELL 1-2A (SAMPLE INFLUENT)

Lab Sample ID: 480-78924-1

Date Collected: 04/20/15 11:00

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			04/28/15 19:46	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/28/15 19:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/28/15 19:46	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/28/15 19:46	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			04/28/15 19:46	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/28/15 19:46	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/28/15 19:46	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/28/15 19:46	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/28/15 19:46	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/28/15 19:46	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/28/15 19:46	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/28/15 19:46	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/28/15 19:46	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/28/15 19:46	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/28/15 19:46	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/28/15 19:46	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/28/15 19:46	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			04/28/15 19:46	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/28/15 19:46	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/28/15 19:46	1
Acetone	10	U	10	3.0	ug/L			04/28/15 19:46	1
Benzene	1.0	U	1.0	0.41	ug/L			04/28/15 19:46	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/28/15 19:46	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/28/15 19:46	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/28/15 19:46	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/28/15 19:46	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/28/15 19:46	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/28/15 19:46	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/28/15 19:46	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/28/15 19:46	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/28/15 19:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/28/15 19:46	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/28/15 19:46	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/28/15 19:46	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/28/15 19:46	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/28/15 19:46	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/28/15 19:46	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/28/15 19:46	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			04/28/15 19:46	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/28/15 19:46	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/28/15 19:46	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/28/15 19:46	1
Styrene	1.0	U	1.0	0.73	ug/L			04/28/15 19:46	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/28/15 19:46	1
Toluene	1.0	U	1.0	0.51	ug/L			04/28/15 19:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/28/15 19:46	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/28/15 19:46	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/28/15 19:46	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/28/15 19:46	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: WELL 1-2A (SAMPLE INFLUENT)

Lab Sample ID: 480-78924-1

Date Collected: 04/20/15 11:00

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.90	ug/L			04/28/15 19:46	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/28/15 19:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		66 - 137					04/28/15 19:46	1
4-Bromofluorobenzene (Surr)	104		73 - 120					04/28/15 19:46	1
Dibromofluoromethane (Surr)	100		60 - 140					04/28/15 19:46	1
Toluene-d8 (Surr)	100		71 - 126					04/28/15 19:46	1

Client Sample ID: WELL 1-3 (SAMPLE INFLUENT)

Lab Sample ID: 480-78924-2

Date Collected: 04/20/15 11:10

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			04/28/15 19:22	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/28/15 19:22	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/28/15 19:22	1
1,1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/28/15 19:22	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			04/28/15 19:22	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/28/15 19:22	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/28/15 19:22	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/28/15 19:22	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/28/15 19:22	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/28/15 19:22	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/28/15 19:22	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/28/15 19:22	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/28/15 19:22	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/28/15 19:22	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/28/15 19:22	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/28/15 19:22	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/28/15 19:22	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			04/28/15 19:22	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/28/15 19:22	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/28/15 19:22	1
Acetone	10	U	10	3.0	ug/L			04/28/15 19:22	1
Benzene	1.0	U	1.0	0.41	ug/L			04/28/15 19:22	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/28/15 19:22	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/28/15 19:22	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/28/15 19:22	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/28/15 19:22	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/28/15 19:22	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/28/15 19:22	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/28/15 19:22	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/28/15 19:22	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/28/15 19:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/28/15 19:22	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/28/15 19:22	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/28/15 19:22	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/28/15 19:22	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: WELL 1-3 (SAMPLE INFLUENT)

Lab Sample ID: 480-78924-2

Date Collected: 04/20/15 11:10

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/28/15 19:22	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/28/15 19:22	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/28/15 19:22	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			04/28/15 19:22	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/28/15 19:22	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/28/15 19:22	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/28/15 19:22	1
Styrene	1.0	U	1.0	0.73	ug/L			04/28/15 19:22	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/28/15 19:22	1
Toluene	1.0	U	1.0	0.51	ug/L			04/28/15 19:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/28/15 19:22	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/28/15 19:22	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/28/15 19:22	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/28/15 19:22	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			04/28/15 19:22	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/28/15 19:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		66 - 137		04/28/15 19:22	1
4-Bromofluorobenzene (Surr)	103		73 - 120		04/28/15 19:22	1
Dibromofluoromethane (Surr)	100		60 - 140		04/28/15 19:22	1
Toluene-d8 (Surr)	99		71 - 126		04/28/15 19:22	1

Client Sample ID: 4009-9

Lab Sample ID: 480-78924-3

Date Collected: 04/20/15 14:30

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			04/28/15 18:58	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/28/15 18:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/28/15 18:58	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/28/15 18:58	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			04/28/15 18:58	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/28/15 18:58	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/28/15 18:58	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/28/15 18:58	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/28/15 18:58	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/28/15 18:58	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/28/15 18:58	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/28/15 18:58	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/28/15 18:58	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/28/15 18:58	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/28/15 18:58	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/28/15 18:58	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/28/15 18:58	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			04/28/15 18:58	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/28/15 18:58	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/28/15 18:58	1
Acetone	7.1	J	10	3.0	ug/L			04/28/15 18:58	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: 4009-9

Lab Sample ID: 480-78924-3

Date Collected: 04/20/15 14:30

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			04/28/15 18:58	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/28/15 18:58	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/28/15 18:58	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/28/15 18:58	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/28/15 18:58	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/28/15 18:58	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/28/15 18:58	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/28/15 18:58	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/28/15 18:58	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/28/15 18:58	1
cis-1,2-Dichloroethene	1.9		1.0	0.81	ug/L			04/28/15 18:58	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/28/15 18:58	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/28/15 18:58	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/28/15 18:58	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/28/15 18:58	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/28/15 18:58	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/28/15 18:58	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			04/28/15 18:58	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/28/15 18:58	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/28/15 18:58	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/28/15 18:58	1
Styrene	1.0	U	1.0	0.73	ug/L			04/28/15 18:58	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/28/15 18:58	1
Toluene	1.0	U	1.0	0.51	ug/L			04/28/15 18:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/28/15 18:58	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/28/15 18:58	1
Trichloroethene	0.52	J	1.0	0.46	ug/L			04/28/15 18:58	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/28/15 18:58	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			04/28/15 18:58	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/28/15 18:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		66 - 137					04/28/15 18:58	1
4-Bromofluorobenzene (Surr)	104		73 - 120					04/28/15 18:58	1
Dibromofluoromethane (Surr)	103		60 - 140					04/28/15 18:58	1
Toluene-d8 (Surr)	101		71 - 126					04/28/15 18:58	1

Client Sample ID: 4009-10

Lab Sample ID: 480-78924-4

Date Collected: 04/20/15 14:40

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			04/28/15 18:35	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/28/15 18:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/28/15 18:35	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/28/15 18:35	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			04/28/15 18:35	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/28/15 18:35	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/28/15 18:35	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: 4009-10

Lab Sample ID: 480-78924-4

Date Collected: 04/20/15 14:40

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/28/15 18:35	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/28/15 18:35	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/28/15 18:35	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/28/15 18:35	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/28/15 18:35	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/28/15 18:35	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/28/15 18:35	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/28/15 18:35	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/28/15 18:35	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/28/15 18:35	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			04/28/15 18:35	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/28/15 18:35	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/28/15 18:35	1
Acetone	9.2	J	10	3.0	ug/L			04/28/15 18:35	1
Benzene	1.0	U	1.0	0.41	ug/L			04/28/15 18:35	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/28/15 18:35	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/28/15 18:35	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/28/15 18:35	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/28/15 18:35	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/28/15 18:35	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/28/15 18:35	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/28/15 18:35	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/28/15 18:35	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/28/15 18:35	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/28/15 18:35	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/28/15 18:35	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/28/15 18:35	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/28/15 18:35	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/28/15 18:35	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/28/15 18:35	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/28/15 18:35	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			04/28/15 18:35	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/28/15 18:35	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/28/15 18:35	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/28/15 18:35	1
Styrene	1.0	U	1.0	0.73	ug/L			04/28/15 18:35	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/28/15 18:35	1
Toluene	1.0	U	1.0	0.51	ug/L			04/28/15 18:35	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/28/15 18:35	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/28/15 18:35	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/28/15 18:35	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/28/15 18:35	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			04/28/15 18:35	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/28/15 18:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		66 - 137		04/28/15 18:35	1
4-Bromofluorobenzene (Surr)	104		73 - 120		04/28/15 18:35	1
Dibromofluoromethane (Surr)	98		60 - 140		04/28/15 18:35	1
Toluene-d8 (Surr)	100		71 - 126		04/28/15 18:35	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: 4009-11

Date Collected: 04/20/15 14:50

Date Received: 04/22/15 09:00

Lab Sample ID: 480-78924-5

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	1.0	U	1.0	0.82	ug/L			04/28/15 18:11	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/28/15 18:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/28/15 18:11	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/28/15 18:11	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			04/28/15 18:11	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/28/15 18:11	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/28/15 18:11	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/28/15 18:11	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/28/15 18:11	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/28/15 18:11	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/28/15 18:11	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/28/15 18:11	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/28/15 18:11	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/28/15 18:11	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/28/15 18:11	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/28/15 18:11	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/28/15 18:11	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			04/28/15 18:11	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/28/15 18:11	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/28/15 18:11	1
Acetone	6.7	J	10	3.0	ug/L			04/28/15 18:11	1
Benzene	5.6		1.0	0.41	ug/L			04/28/15 18:11	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/28/15 18:11	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/28/15 18:11	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/28/15 18:11	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/28/15 18:11	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/28/15 18:11	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/28/15 18:11	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/28/15 18:11	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/28/15 18:11	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/28/15 18:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/28/15 18:11	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/28/15 18:11	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/28/15 18:11	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/28/15 18:11	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/28/15 18:11	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/28/15 18:11	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/28/15 18:11	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			04/28/15 18:11	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/28/15 18:11	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/28/15 18:11	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/28/15 18:11	1
Styrene	1.0	U	1.0	0.73	ug/L			04/28/15 18:11	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/28/15 18:11	1
Toluene	1.0		1.0	0.51	ug/L			04/28/15 18:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/28/15 18:11	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/28/15 18:11	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/28/15 18:11	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/28/15 18:11	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: 4009-11

Lab Sample ID: 480-78924-5

Date Collected: 04/20/15 14:50

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.90	ug/L			04/28/15 18:11	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/28/15 18:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		66 - 137					04/28/15 18:11	1
4-Bromofluorobenzene (Surr)	103		73 - 120					04/28/15 18:11	1
Dibromofluoromethane (Surr)	100		60 - 140					04/28/15 18:11	1
Toluene-d8 (Surr)	100		71 - 126					04/28/15 18:11	1

Client Sample ID: 4009-11A

Lab Sample ID: 480-78924-6

Date Collected: 04/20/15 14:55

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			04/28/15 17:47	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/28/15 17:47	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/28/15 17:47	1
1,1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/28/15 17:47	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			04/28/15 17:47	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/28/15 17:47	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/28/15 17:47	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/28/15 17:47	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/28/15 17:47	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/28/15 17:47	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/28/15 17:47	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/28/15 17:47	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/28/15 17:47	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/28/15 17:47	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/28/15 17:47	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/28/15 17:47	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/28/15 17:47	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			04/28/15 17:47	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/28/15 17:47	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/28/15 17:47	1
Acetone	7.6	J	10	3.0	ug/L			04/28/15 17:47	1
Benzene	1.0	U	1.0	0.41	ug/L			04/28/15 17:47	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/28/15 17:47	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/28/15 17:47	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/28/15 17:47	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/28/15 17:47	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/28/15 17:47	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/28/15 17:47	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/28/15 17:47	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/28/15 17:47	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/28/15 17:47	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/28/15 17:47	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/28/15 17:47	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/28/15 17:47	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/28/15 17:47	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: 4009-11A

Lab Sample ID: 480-78924-6

Date Collected: 04/20/15 14:55

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/28/15 17:47	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/28/15 17:47	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/28/15 17:47	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			04/28/15 17:47	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/28/15 17:47	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/28/15 17:47	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/28/15 17:47	1
Styrene	1.0	U	1.0	0.73	ug/L			04/28/15 17:47	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/28/15 17:47	1
Toluene	1.0	U	1.0	0.51	ug/L			04/28/15 17:47	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/28/15 17:47	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/28/15 17:47	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/28/15 17:47	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/28/15 17:47	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			04/28/15 17:47	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/28/15 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		66 - 137		04/28/15 17:47	1
4-Bromofluorobenzene (Surr)	103		73 - 120		04/28/15 17:47	1
Dibromofluoromethane (Surr)	100		60 - 140		04/28/15 17:47	1
Toluene-d8 (Surr)	100		71 - 126		04/28/15 17:47	1

Client Sample ID: 4009-12

Lab Sample ID: 480-78924-7

Date Collected: 04/20/15 12:00

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			04/29/15 01:33	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/29/15 01:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/29/15 01:33	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/29/15 01:33	1
1,1-Dichloroethane	1.8		1.0	0.38	ug/L			04/29/15 01:33	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/29/15 01:33	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/29/15 01:33	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/29/15 01:33	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/29/15 01:33	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/29/15 01:33	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/29/15 01:33	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/29/15 01:33	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/29/15 01:33	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/29/15 01:33	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/29/15 01:33	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/29/15 01:33	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/29/15 01:33	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			04/29/15 01:33	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/29/15 01:33	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/29/15 01:33	1
Acetone	7.1	J	10	3.0	ug/L			04/29/15 01:33	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: 4009-12

Lab Sample ID: 480-78924-7

Date Collected: 04/20/15 12:00

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.7		1.0	0.41	ug/L			04/29/15 01:33	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/29/15 01:33	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/29/15 01:33	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/29/15 01:33	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/29/15 01:33	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/29/15 01:33	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/29/15 01:33	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/29/15 01:33	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/29/15 01:33	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/29/15 01:33	1
cis-1,2-Dichloroethene	4.1		1.0	0.81	ug/L			04/29/15 01:33	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/29/15 01:33	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/29/15 01:33	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/29/15 01:33	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/29/15 01:33	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/29/15 01:33	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/29/15 01:33	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			04/29/15 01:33	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/29/15 01:33	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/29/15 01:33	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/29/15 01:33	1
Styrene	1.0	U	1.0	0.73	ug/L			04/29/15 01:33	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/29/15 01:33	1
Toluene	1.0	U	1.0	0.51	ug/L			04/29/15 01:33	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/29/15 01:33	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/29/15 01:33	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/29/15 01:33	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/29/15 01:33	1
Vinyl chloride	2.3		1.0	0.90	ug/L			04/29/15 01:33	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/29/15 01:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		66 - 137		04/29/15 01:33	1
4-Bromofluorobenzene (Surr)	104		73 - 120		04/29/15 01:33	1
Dibromofluoromethane (Surr)	102		60 - 140		04/29/15 01:33	1
Toluene-d8 (Surr)	102		71 - 126		04/29/15 01:33	1

Client Sample ID: 4009-13

Lab Sample ID: 480-78924-8

Date Collected: 04/20/15 14:10

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			04/28/15 16:59	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/28/15 16:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/28/15 16:59	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/28/15 16:59	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			04/28/15 16:59	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/28/15 16:59	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/28/15 16:59	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: 4009-13

Lab Sample ID: 480-78924-8

Date Collected: 04/20/15 14:10

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/28/15 16:59	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/28/15 16:59	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/28/15 16:59	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/28/15 16:59	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/28/15 16:59	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/28/15 16:59	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/28/15 16:59	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/28/15 16:59	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/28/15 16:59	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/28/15 16:59	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			04/28/15 16:59	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/28/15 16:59	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/28/15 16:59	1
Acetone	8.9	J	10	3.0	ug/L			04/28/15 16:59	1
Benzene	0.96	J	1.0	0.41	ug/L			04/28/15 16:59	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/28/15 16:59	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/28/15 16:59	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/28/15 16:59	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/28/15 16:59	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/28/15 16:59	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/28/15 16:59	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/28/15 16:59	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/28/15 16:59	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/28/15 16:59	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/28/15 16:59	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/28/15 16:59	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/28/15 16:59	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/28/15 16:59	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/28/15 16:59	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/28/15 16:59	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/28/15 16:59	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			04/28/15 16:59	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/28/15 16:59	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/28/15 16:59	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/28/15 16:59	1
Styrene	1.0	U	1.0	0.73	ug/L			04/28/15 16:59	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/28/15 16:59	1
Toluene	1.0	U	1.0	0.51	ug/L			04/28/15 16:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/28/15 16:59	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/28/15 16:59	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/28/15 16:59	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/28/15 16:59	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			04/28/15 16:59	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/28/15 16:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		66 - 137		04/28/15 16:59	1
4-Bromofluorobenzene (Surr)	104		73 - 120		04/28/15 16:59	1
Dibromofluoromethane (Surr)	103		60 - 140		04/28/15 16:59	1
Toluene-d8 (Surr)	99		71 - 126		04/28/15 16:59	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: 4009-13A

Lab Sample ID: 480-78924-9

Date Collected: 04/20/15 14:20

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			04/28/15 16:35	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/28/15 16:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/28/15 16:35	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/28/15 16:35	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			04/28/15 16:35	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/28/15 16:35	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/28/15 16:35	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/28/15 16:35	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/28/15 16:35	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/28/15 16:35	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/28/15 16:35	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/28/15 16:35	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/28/15 16:35	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/28/15 16:35	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/28/15 16:35	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/28/15 16:35	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/28/15 16:35	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			04/28/15 16:35	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/28/15 16:35	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/28/15 16:35	1
Acetone	6.8	J	10	3.0	ug/L			04/28/15 16:35	1
Benzene	1.0	U	1.0	0.41	ug/L			04/28/15 16:35	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/28/15 16:35	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/28/15 16:35	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/28/15 16:35	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/28/15 16:35	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/28/15 16:35	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/28/15 16:35	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/28/15 16:35	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/28/15 16:35	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/28/15 16:35	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/28/15 16:35	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/28/15 16:35	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/28/15 16:35	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/28/15 16:35	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/28/15 16:35	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/28/15 16:35	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/28/15 16:35	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			04/28/15 16:35	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/28/15 16:35	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/28/15 16:35	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/28/15 16:35	1
Styrene	1.0	U	1.0	0.73	ug/L			04/28/15 16:35	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/28/15 16:35	1
Toluene	1.0	U	1.0	0.51	ug/L			04/28/15 16:35	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/28/15 16:35	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/28/15 16:35	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/28/15 16:35	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/28/15 16:35	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: 4009-13A

Lab Sample ID: 480-78924-9

Date Collected: 04/20/15 14:20

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.90	ug/L			04/28/15 16:35	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/28/15 16:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		66 - 137					04/28/15 16:35	1
4-Bromofluorobenzene (Surr)	105		73 - 120					04/28/15 16:35	1
Dibromofluoromethane (Surr)	100		60 - 140					04/28/15 16:35	1
Toluene-d8 (Surr)	99		71 - 126					04/28/15 16:35	1

Client Sample ID: 4009-14

Lab Sample ID: 480-78924-10

Date Collected: 04/20/15 10:05

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			04/28/15 16:11	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/28/15 16:11	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/28/15 16:11	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/28/15 16:11	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			04/28/15 16:11	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/28/15 16:11	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/28/15 16:11	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/28/15 16:11	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/28/15 16:11	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/28/15 16:11	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/28/15 16:11	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/28/15 16:11	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/28/15 16:11	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/28/15 16:11	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/28/15 16:11	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/28/15 16:11	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/28/15 16:11	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			04/28/15 16:11	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/28/15 16:11	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/28/15 16:11	1
Acetone	7.1	J	10	3.0	ug/L			04/28/15 16:11	1
Benzene	1.2		1.0	0.41	ug/L			04/28/15 16:11	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/28/15 16:11	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/28/15 16:11	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/28/15 16:11	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/28/15 16:11	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/28/15 16:11	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/28/15 16:11	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/28/15 16:11	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/28/15 16:11	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/28/15 16:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/28/15 16:11	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/28/15 16:11	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/28/15 16:11	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/28/15 16:11	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: 4009-14

Lab Sample ID: 480-78924-10

Date Collected: 04/20/15 10:05

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/28/15 16:11	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/28/15 16:11	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/28/15 16:11	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			04/28/15 16:11	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/28/15 16:11	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/28/15 16:11	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/28/15 16:11	1
Styrene	1.0	U	1.0	0.73	ug/L			04/28/15 16:11	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/28/15 16:11	1
Toluene	1.0		1.0	0.51	ug/L			04/28/15 16:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/28/15 16:11	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/28/15 16:11	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/28/15 16:11	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/28/15 16:11	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			04/28/15 16:11	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/28/15 16:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		66 - 137		04/28/15 16:11	1
4-Bromofluorobenzene (Surr)	105		73 - 120		04/28/15 16:11	1
Dibromofluoromethane (Surr)	101		60 - 140		04/28/15 16:11	1
Toluene-d8 (Surr)	100		71 - 126		04/28/15 16:11	1

Client Sample ID: 4009-15

Lab Sample ID: 480-78924-11

Date Collected: 04/20/15 12:50

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			04/28/15 15:47	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/28/15 15:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/28/15 15:47	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/28/15 15:47	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			04/28/15 15:47	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/28/15 15:47	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/28/15 15:47	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/28/15 15:47	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/28/15 15:47	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/28/15 15:47	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/28/15 15:47	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/28/15 15:47	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/28/15 15:47	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/28/15 15:47	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/28/15 15:47	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/28/15 15:47	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/28/15 15:47	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			04/28/15 15:47	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/28/15 15:47	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/28/15 15:47	1
Acetone	5.8	J	10	3.0	ug/L			04/28/15 15:47	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: 4009-15

Lab Sample ID: 480-78924-11

Date Collected: 04/20/15 12:50

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.8		1.0	0.41	ug/L			04/28/15 15:47	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/28/15 15:47	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/28/15 15:47	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/28/15 15:47	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/28/15 15:47	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/28/15 15:47	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/28/15 15:47	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/28/15 15:47	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/28/15 15:47	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/28/15 15:47	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/28/15 15:47	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/28/15 15:47	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/28/15 15:47	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/28/15 15:47	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/28/15 15:47	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/28/15 15:47	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/28/15 15:47	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			04/28/15 15:47	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/28/15 15:47	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/28/15 15:47	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/28/15 15:47	1
Styrene	1.0	U	1.0	0.73	ug/L			04/28/15 15:47	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/28/15 15:47	1
Toluene	0.77 J		1.0	0.51	ug/L			04/28/15 15:47	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/28/15 15:47	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/28/15 15:47	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/28/15 15:47	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/28/15 15:47	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			04/28/15 15:47	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/28/15 15:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		66 - 137		04/28/15 15:47	1
4-Bromofluorobenzene (Surr)	103		73 - 120		04/28/15 15:47	1
Dibromofluoromethane (Surr)	98		60 - 140		04/28/15 15:47	1
Toluene-d8 (Surr)	99		71 - 126		04/28/15 15:47	1

Client Sample ID: 4009-16

Lab Sample ID: 480-78924-12

Date Collected: 04/20/15 11:30

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			04/28/15 15:23	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/28/15 15:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/28/15 15:23	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/28/15 15:23	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			04/28/15 15:23	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/28/15 15:23	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/28/15 15:23	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: 4009-16

Lab Sample ID: 480-78924-12

Date Collected: 04/20/15 11:30

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/28/15 15:23	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/28/15 15:23	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/28/15 15:23	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/28/15 15:23	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/28/15 15:23	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/28/15 15:23	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/28/15 15:23	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/28/15 15:23	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/28/15 15:23	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/28/15 15:23	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			04/28/15 15:23	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/28/15 15:23	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/28/15 15:23	1
Acetone	6.0	J	10	3.0	ug/L			04/28/15 15:23	1
Benzene	1.0	U	1.0	0.41	ug/L			04/28/15 15:23	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/28/15 15:23	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/28/15 15:23	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/28/15 15:23	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/28/15 15:23	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/28/15 15:23	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/28/15 15:23	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/28/15 15:23	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/28/15 15:23	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/28/15 15:23	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/28/15 15:23	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/28/15 15:23	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/28/15 15:23	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/28/15 15:23	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/28/15 15:23	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/28/15 15:23	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/28/15 15:23	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			04/28/15 15:23	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/28/15 15:23	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/28/15 15:23	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/28/15 15:23	1
Styrene	1.0	U	1.0	0.73	ug/L			04/28/15 15:23	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/28/15 15:23	1
Toluene	1.0	U	1.0	0.51	ug/L			04/28/15 15:23	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/28/15 15:23	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/28/15 15:23	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/28/15 15:23	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/28/15 15:23	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			04/28/15 15:23	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/28/15 15:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		66 - 137		04/28/15 15:23	1
4-Bromofluorobenzene (Surr)	104		73 - 120		04/28/15 15:23	1
Dibromofluoromethane (Surr)	98		60 - 140		04/28/15 15:23	1
Toluene-d8 (Surr)	98		71 - 126		04/28/15 15:23	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: 4009-16A

Lab Sample ID: 480-78924-13

Date Collected: 04/20/15 11:40

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			04/28/15 14:59	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/28/15 14:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/28/15 14:59	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/28/15 14:59	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			04/28/15 14:59	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/28/15 14:59	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/28/15 14:59	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/28/15 14:59	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/28/15 14:59	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/28/15 14:59	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/28/15 14:59	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/28/15 14:59	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/28/15 14:59	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/28/15 14:59	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/28/15 14:59	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/28/15 14:59	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/28/15 14:59	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			04/28/15 14:59	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/28/15 14:59	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/28/15 14:59	1
Acetone	6.4	J	10	3.0	ug/L			04/28/15 14:59	1
Benzene	5.7		1.0	0.41	ug/L			04/28/15 14:59	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/28/15 14:59	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/28/15 14:59	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/28/15 14:59	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/28/15 14:59	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/28/15 14:59	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/28/15 14:59	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/28/15 14:59	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/28/15 14:59	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/28/15 14:59	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/28/15 14:59	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/28/15 14:59	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/28/15 14:59	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/28/15 14:59	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/28/15 14:59	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/28/15 14:59	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/28/15 14:59	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			04/28/15 14:59	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/28/15 14:59	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/28/15 14:59	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/28/15 14:59	1
Styrene	1.0	U	1.0	0.73	ug/L			04/28/15 14:59	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/28/15 14:59	1
Toluene	1.0	U	1.0	0.51	ug/L			04/28/15 14:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/28/15 14:59	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/28/15 14:59	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/28/15 14:59	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/28/15 14:59	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: 4009-16A

Lab Sample ID: 480-78924-13

Date Collected: 04/20/15 11:40

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.90	ug/L			04/28/15 14:59	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/28/15 14:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		66 - 137					04/28/15 14:59	1
4-Bromofluorobenzene (Surr)	105		73 - 120					04/28/15 14:59	1
Dibromofluoromethane (Surr)	100		60 - 140					04/28/15 14:59	1
Toluene-d8 (Surr)	100		71 - 126					04/28/15 14:59	1

Client Sample ID: 4009-19

Lab Sample ID: 480-78924-15

Date Collected: 04/20/15 10:30

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			04/29/15 15:45	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/29/15 15:45	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/29/15 15:45	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/29/15 15:45	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			04/29/15 15:45	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/29/15 15:45	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/29/15 15:45	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/29/15 15:45	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/29/15 15:45	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/29/15 15:45	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/29/15 15:45	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/29/15 15:45	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/29/15 15:45	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/29/15 15:45	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/29/15 15:45	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/29/15 15:45	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/29/15 15:45	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			04/29/15 15:45	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/29/15 15:45	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/29/15 15:45	1
Acetone	8.5	J	10	3.0	ug/L			04/29/15 15:45	1
Benzene	2.7		1.0	0.41	ug/L			04/29/15 15:45	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/29/15 15:45	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/29/15 15:45	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/29/15 15:45	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/29/15 15:45	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/29/15 15:45	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/29/15 15:45	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/29/15 15:45	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/29/15 15:45	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/29/15 15:45	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/29/15 15:45	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/29/15 15:45	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/29/15 15:45	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/29/15 15:45	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: 4009-19

Lab Sample ID: 480-78924-15

Date Collected: 04/20/15 10:30

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/29/15 15:45	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/29/15 15:45	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/29/15 15:45	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			04/29/15 15:45	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/29/15 15:45	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/29/15 15:45	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/29/15 15:45	1
Styrene	1.0	U	1.0	0.73	ug/L			04/29/15 15:45	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/29/15 15:45	1
Toluene	1.0	U	1.0	0.51	ug/L			04/29/15 15:45	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/29/15 15:45	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/29/15 15:45	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/29/15 15:45	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/29/15 15:45	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			04/29/15 15:45	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/29/15 15:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		66 - 137		04/29/15 15:45	1
4-Bromofluorobenzene (Surr)	101		73 - 120		04/29/15 15:45	1
Dibromofluoromethane (Surr)	108		60 - 140		04/29/15 15:45	1
Toluene-d8 (Surr)	94		71 - 126		04/29/15 15:45	1

Client Sample ID: 4009-21

Lab Sample ID: 480-78924-16

Date Collected: 04/20/15 10:20

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			04/29/15 16:14	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/29/15 16:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/29/15 16:14	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/29/15 16:14	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			04/29/15 16:14	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/29/15 16:14	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/29/15 16:14	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/29/15 16:14	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/29/15 16:14	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/29/15 16:14	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/29/15 16:14	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/29/15 16:14	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/29/15 16:14	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/29/15 16:14	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/29/15 16:14	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/29/15 16:14	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/29/15 16:14	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			04/29/15 16:14	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/29/15 16:14	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/29/15 16:14	1
Acetone	7.9	J	10	3.0	ug/L			04/29/15 16:14	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: 4009-21

Lab Sample ID: 480-78924-16

Date Collected: 04/20/15 10:20

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			04/29/15 16:14	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/29/15 16:14	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/29/15 16:14	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/29/15 16:14	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/29/15 16:14	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/29/15 16:14	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/29/15 16:14	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/29/15 16:14	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/29/15 16:14	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/29/15 16:14	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/29/15 16:14	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/29/15 16:14	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/29/15 16:14	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/29/15 16:14	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/29/15 16:14	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/29/15 16:14	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/29/15 16:14	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			04/29/15 16:14	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/29/15 16:14	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/29/15 16:14	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/29/15 16:14	1
Styrene	1.0	U	1.0	0.73	ug/L			04/29/15 16:14	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/29/15 16:14	1
Toluene	1.0	U	1.0	0.51	ug/L			04/29/15 16:14	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/29/15 16:14	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/29/15 16:14	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/29/15 16:14	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/29/15 16:14	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			04/29/15 16:14	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/29/15 16:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		66 - 137		04/29/15 16:14	1
4-Bromofluorobenzene (Surr)	101		73 - 120		04/29/15 16:14	1
Dibromofluoromethane (Surr)	108		60 - 140		04/29/15 16:14	1
Toluene-d8 (Surr)	92		71 - 126		04/29/15 16:14	1

Client Sample ID: 4009-22

Lab Sample ID: 480-78924-17

Date Collected: 04/20/15 09:55

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			04/29/15 02:45	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/29/15 02:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/29/15 02:45	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/29/15 02:45	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			04/29/15 02:45	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/29/15 02:45	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/29/15 02:45	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: 4009-22

Lab Sample ID: 480-78924-17

Date Collected: 04/20/15 09:55

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/29/15 02:45	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/29/15 02:45	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/29/15 02:45	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/29/15 02:45	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/29/15 02:45	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/29/15 02:45	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/29/15 02:45	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/29/15 02:45	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/29/15 02:45	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/29/15 02:45	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			04/29/15 02:45	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/29/15 02:45	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/29/15 02:45	1
Acetone	6.5	J	10	3.0	ug/L			04/29/15 02:45	1
Benzene	1.2		1.0	0.41	ug/L			04/29/15 02:45	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/29/15 02:45	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/29/15 02:45	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/29/15 02:45	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/29/15 02:45	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/29/15 02:45	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/29/15 02:45	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/29/15 02:45	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/29/15 02:45	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/29/15 02:45	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/29/15 02:45	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/29/15 02:45	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/29/15 02:45	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/29/15 02:45	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/29/15 02:45	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/29/15 02:45	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/29/15 02:45	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			04/29/15 02:45	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/29/15 02:45	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/29/15 02:45	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/29/15 02:45	1
Styrene	1.0	U	1.0	0.73	ug/L			04/29/15 02:45	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/29/15 02:45	1
Toluene	0.93	J	1.0	0.51	ug/L			04/29/15 02:45	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/29/15 02:45	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/29/15 02:45	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/29/15 02:45	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/29/15 02:45	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			04/29/15 02:45	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/29/15 02:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		66 - 137		04/29/15 02:45	1
4-Bromofluorobenzene (Surr)	104		73 - 120		04/29/15 02:45	1
Dibromofluoromethane (Surr)	102		60 - 140		04/29/15 02:45	1
Toluene-d8 (Surr)	100		71 - 126		04/29/15 02:45	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: 4009-27S

Lab Sample ID: 480-78924-18

Date Collected: 04/20/15 13:40

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	61		1.0	0.82	ug/L			04/29/15 03:08	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/29/15 03:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.3		1.0	0.31	ug/L			04/29/15 03:08	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/29/15 03:08	1
1,1-Dichloroethane	2.6		1.0	0.38	ug/L			04/29/15 03:08	1
1,1-Dichloroethene	6.2		1.0	0.29	ug/L			04/29/15 03:08	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/29/15 03:08	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/29/15 03:08	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/29/15 03:08	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/29/15 03:08	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/29/15 03:08	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/29/15 03:08	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/29/15 03:08	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/29/15 03:08	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/29/15 03:08	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/29/15 03:08	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/29/15 03:08	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			04/29/15 03:08	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/29/15 03:08	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/29/15 03:08	1
Acetone	8.1	J	10	3.0	ug/L			04/29/15 03:08	1
Benzene	1.0	U	1.0	0.41	ug/L			04/29/15 03:08	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/29/15 03:08	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/29/15 03:08	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/29/15 03:08	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/29/15 03:08	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/29/15 03:08	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/29/15 03:08	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/29/15 03:08	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/29/15 03:08	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/29/15 03:08	1
cis-1,2-Dichloroethene	21		1.0	0.81	ug/L			04/29/15 03:08	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/29/15 03:08	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/29/15 03:08	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/29/15 03:08	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/29/15 03:08	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/29/15 03:08	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/29/15 03:08	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			04/29/15 03:08	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/29/15 03:08	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/29/15 03:08	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/29/15 03:08	1
Styrene	1.0	U	1.0	0.73	ug/L			04/29/15 03:08	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/29/15 03:08	1
Toluene	1.0	U	1.0	0.51	ug/L			04/29/15 03:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/29/15 03:08	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/29/15 03:08	1
Trichloroethene	25		1.0	0.46	ug/L			04/29/15 03:08	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: 4009-27S

Lab Sample ID: 480-78924-18

Date Collected: 04/20/15 13:40

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/29/15 03:08	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			04/29/15 03:08	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/29/15 03:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		66 - 137					04/29/15 03:08	1
4-Bromofluorobenzene (Surr)	103		73 - 120					04/29/15 03:08	1
Dibromofluoromethane (Surr)	103		60 - 140					04/29/15 03:08	1
Toluene-d8 (Surr)	101		71 - 126					04/29/15 03:08	1

Client Sample ID: 4009-27I

Lab Sample ID: 480-78924-19

Date Collected: 04/20/15 13:45

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			04/29/15 16:42	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/29/15 16:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/29/15 16:42	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/29/15 16:42	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			04/29/15 16:42	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/29/15 16:42	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/29/15 16:42	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/29/15 16:42	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/29/15 16:42	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/29/15 16:42	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/29/15 16:42	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/29/15 16:42	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/29/15 16:42	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/29/15 16:42	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/29/15 16:42	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/29/15 16:42	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/29/15 16:42	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			04/29/15 16:42	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/29/15 16:42	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/29/15 16:42	1
Acetone	9.3	J	10	3.0	ug/L			04/29/15 16:42	1
Benzene	1.0	U	1.0	0.41	ug/L			04/29/15 16:42	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/29/15 16:42	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/29/15 16:42	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/29/15 16:42	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/29/15 16:42	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/29/15 16:42	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/29/15 16:42	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/29/15 16:42	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/29/15 16:42	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/29/15 16:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/29/15 16:42	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/29/15 16:42	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/29/15 16:42	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: 4009-27I

Lab Sample ID: 480-78924-19

Date Collected: 04/20/15 13:45

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/29/15 16:42	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/29/15 16:42	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/29/15 16:42	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/29/15 16:42	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			04/29/15 16:42	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/29/15 16:42	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/29/15 16:42	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/29/15 16:42	1
Styrene	1.0	U	1.0	0.73	ug/L			04/29/15 16:42	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/29/15 16:42	1
Toluene	0.87	J	1.0	0.51	ug/L			04/29/15 16:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/29/15 16:42	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/29/15 16:42	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/29/15 16:42	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/29/15 16:42	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			04/29/15 16:42	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/29/15 16:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		66 - 137		04/29/15 16:42	1
4-Bromofluorobenzene (Surr)	99		73 - 120		04/29/15 16:42	1
Dibromofluoromethane (Surr)	107		60 - 140		04/29/15 16:42	1
Toluene-d8 (Surr)	94		71 - 126		04/29/15 16:42	1

Client Sample ID: 4009-27D

Lab Sample ID: 480-78924-20

Date Collected: 04/20/15 13:50

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			04/29/15 03:32	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/29/15 03:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/29/15 03:32	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/29/15 03:32	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			04/29/15 03:32	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/29/15 03:32	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/29/15 03:32	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/29/15 03:32	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/29/15 03:32	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/29/15 03:32	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/29/15 03:32	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/29/15 03:32	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/29/15 03:32	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/29/15 03:32	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/29/15 03:32	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/29/15 03:32	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/29/15 03:32	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			04/29/15 03:32	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/29/15 03:32	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/29/15 03:32	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: 4009-27D

Lab Sample ID: 480-78924-20

Date Collected: 04/20/15 13:50

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.1	J	10	3.0	ug/L			04/29/15 03:32	1
Benzene	1.0	U	1.0	0.41	ug/L			04/29/15 03:32	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/29/15 03:32	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/29/15 03:32	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/29/15 03:32	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/29/15 03:32	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/29/15 03:32	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/29/15 03:32	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/29/15 03:32	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/29/15 03:32	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/29/15 03:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/29/15 03:32	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/29/15 03:32	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/29/15 03:32	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/29/15 03:32	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/29/15 03:32	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/29/15 03:32	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/29/15 03:32	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			04/29/15 03:32	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/29/15 03:32	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/29/15 03:32	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/29/15 03:32	1
Styrene	1.0	U	1.0	0.73	ug/L			04/29/15 03:32	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/29/15 03:32	1
Toluene	1.0	U	1.0	0.51	ug/L			04/29/15 03:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/29/15 03:32	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/29/15 03:32	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/29/15 03:32	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/29/15 03:32	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			04/29/15 03:32	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/29/15 03:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		66 - 137		04/29/15 03:32	1
4-Bromofluorobenzene (Surr)	103		73 - 120		04/29/15 03:32	1
Dibromofluoromethane (Surr)	100		60 - 140		04/29/15 03:32	1
Toluene-d8 (Surr)	98		71 - 126		04/29/15 03:32	1

Client Sample ID: 4009-28

Lab Sample ID: 480-78924-21

Date Collected: 04/20/15 09:45

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.9		1.0	0.82	ug/L			04/29/15 03:56	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/29/15 03:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/29/15 03:56	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/29/15 03:56	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			04/29/15 03:56	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/29/15 03:56	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: 4009-28

Lab Sample ID: 480-78924-21

Date Collected: 04/20/15 09:45

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/29/15 03:56	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/29/15 03:56	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/29/15 03:56	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/29/15 03:56	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/29/15 03:56	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/29/15 03:56	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/29/15 03:56	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/29/15 03:56	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/29/15 03:56	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/29/15 03:56	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/29/15 03:56	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			04/29/15 03:56	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/29/15 03:56	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/29/15 03:56	1
Acetone	6.1	J	10	3.0	ug/L			04/29/15 03:56	1
Benzene	1.0	U	1.0	0.41	ug/L			04/29/15 03:56	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/29/15 03:56	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/29/15 03:56	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/29/15 03:56	1
Carbon disulfide	0.22	J	1.0	0.19	ug/L			04/29/15 03:56	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/29/15 03:56	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/29/15 03:56	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/29/15 03:56	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/29/15 03:56	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/29/15 03:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/29/15 03:56	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/29/15 03:56	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/29/15 03:56	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/29/15 03:56	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/29/15 03:56	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/29/15 03:56	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/29/15 03:56	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			04/29/15 03:56	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/29/15 03:56	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/29/15 03:56	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/29/15 03:56	1
Styrene	1.0	U	1.0	0.73	ug/L			04/29/15 03:56	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/29/15 03:56	1
Toluene	1.0	U	1.0	0.51	ug/L			04/29/15 03:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/29/15 03:56	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/29/15 03:56	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/29/15 03:56	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/29/15 03:56	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			04/29/15 03:56	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/29/15 03:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		66 - 137		04/29/15 03:56	1
4-Bromofluorobenzene (Surr)	104		73 - 120		04/29/15 03:56	1
Dibromofluoromethane (Surr)	105		60 - 140		04/29/15 03:56	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: 4009-28

Date Collected: 04/20/15 09:45

Date Received: 04/22/15 09:00

Lab Sample ID: 480-78924-21

Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		71 - 126		04/29/15 03:56	1

Client Sample ID: 4009-29S

Date Collected: 04/20/15 13:15

Date Received: 04/22/15 09:00

Lab Sample ID: 480-78924-22

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	830		20	16	ug/L			04/30/15 01:18	20
1,1,2,2-Tetrachloroethane	20	U	20	4.2	ug/L			04/30/15 01:18	20
1,1,2-Trichloro-1,2,2-trifluoroethane	8.7	J	20	6.2	ug/L			04/30/15 01:18	20
1,1,2-Trichloroethane	20	U	20	4.6	ug/L			04/30/15 01:18	20
1,1-Dichloroethane	38		20	7.6	ug/L			04/30/15 01:18	20
1,1-Dichloroethene	37		20	5.8	ug/L			04/30/15 01:18	20
1,2,3-Trimethylbenzene	20	U	20	5.2	ug/L			04/30/15 01:18	20
1,2,4-Trichlorobenzene	20	U	20	8.2	ug/L			04/30/15 01:18	20
1,2,4-Trimethylbenzene	20	U	20	15	ug/L			04/30/15 01:18	20
1,2-Dibromo-3-Chloropropane	20	U	20	7.8	ug/L			04/30/15 01:18	20
1,2-Dibromoethane	20	U	20	15	ug/L			04/30/15 01:18	20
1,2-Dichlorobenzene	20	U	20	16	ug/L			04/30/15 01:18	20
1,2-Dichloroethane	20	U	20	4.2	ug/L			04/30/15 01:18	20
1,2-Dichloropropane	20	U	20	14	ug/L			04/30/15 01:18	20
1,3,5-Trimethylbenzene	20	U	20	15	ug/L			04/30/15 01:18	20
1,3-Dichlorobenzene	20	U	20	16	ug/L			04/30/15 01:18	20
1,4-Dichlorobenzene	20	U	20	17	ug/L			04/30/15 01:18	20
2-Butanone (MEK)	200	U	200	26	ug/L			04/30/15 01:18	20
2-Hexanone	100	U	100	25	ug/L			04/30/15 01:18	20
4-Methyl-2-pentanone (MIBK)	100	U	100	42	ug/L			04/30/15 01:18	20
Acetone	200	U	200	60	ug/L			04/30/15 01:18	20
Benzene	20	U	20	8.2	ug/L			04/30/15 01:18	20
Bromodichloromethane	20	U	20	7.8	ug/L			04/30/15 01:18	20
Bromoform	20	U	20	5.2	ug/L			04/30/15 01:18	20
Bromomethane	20	U	20	14	ug/L			04/30/15 01:18	20
Carbon disulfide	20	U	20	3.8	ug/L			04/30/15 01:18	20
Carbon tetrachloride	20	U	20	5.4	ug/L			04/30/15 01:18	20
Chlorobenzene	20	U	20	15	ug/L			04/30/15 01:18	20
Chloroethane	20	U	20	6.4	ug/L			04/30/15 01:18	20
Chloroform	20	U	20	6.8	ug/L			04/30/15 01:18	20
Chloromethane	20	U	20	7.0	ug/L			04/30/15 01:18	20
cis-1,2-Dichloroethene	320		20	16	ug/L			04/30/15 01:18	20
cis-1,3-Dichloropropene	20	U	20	7.2	ug/L			04/30/15 01:18	20
Cyclohexane	20	U	20	3.6	ug/L			04/30/15 01:18	20
Dibromochloromethane	20	U	20	6.4	ug/L			04/30/15 01:18	20
Dichlorodifluoromethane	20	U	20	14	ug/L			04/30/15 01:18	20
Ethylbenzene	20	U	20	15	ug/L			04/30/15 01:18	20
Isopropylbenzene	20	U	20	16	ug/L			04/30/15 01:18	20
Methyl acetate	50	U	50	10	ug/L			04/30/15 01:18	20
Methyl tert-butyl ether	20	U	20	3.2	ug/L			04/30/15 01:18	20

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: 4009-29S

Lab Sample ID: 480-78924-22

Date Collected: 04/20/15 13:15

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	20	U	20	3.2	ug/L			04/30/15 01:18	20
Methylene Chloride	20	U	20	8.8	ug/L			04/30/15 01:18	20
Styrene	20	U	20	15	ug/L			04/30/15 01:18	20
Tetrachloroethene	20	U	20	7.2	ug/L			04/30/15 01:18	20
Toluene	20	U	20	10	ug/L			04/30/15 01:18	20
trans-1,2-Dichloroethene	20	U	20	18	ug/L			04/30/15 01:18	20
trans-1,3-Dichloropropene	20	U	20	7.4	ug/L			04/30/15 01:18	20
Trichloroethene	20	U	20	9.2	ug/L			04/30/15 01:18	20
Trichlorofluoromethane	20	U	20	18	ug/L			04/30/15 01:18	20
Vinyl chloride	24		20	18	ug/L			04/30/15 01:18	20
Xylenes, Total	40	U	40	13	ug/L			04/30/15 01:18	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		66 - 137		04/30/15 01:18	20
4-Bromofluorobenzene (Surr)	95		73 - 120		04/30/15 01:18	20
Dibromofluoromethane (Surr)	108		60 - 140		04/30/15 01:18	20
Toluene-d8 (Surr)	91		71 - 126		04/30/15 01:18	20

Client Sample ID: 4009-29I

Lab Sample ID: 480-78924-23

Date Collected: 04/20/15 13:20

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1500		40	33	ug/L			04/30/15 01:46	40
1,1,2,2-Tetrachloroethane	40	U	40	8.4	ug/L			04/30/15 01:46	40
1,1,2-Trichloro-1,2,2-trifluoroethane	15	J	40	12	ug/L			04/30/15 01:46	40
1,1,2-Trichloroethane	40	U	40	9.2	ug/L			04/30/15 01:46	40
1,1-Dichloroethane	100		40	15	ug/L			04/30/15 01:46	40
1,1-Dichloroethene	85		40	12	ug/L			04/30/15 01:46	40
1,2,3-Trimethylbenzene	40	U	40	10	ug/L			04/30/15 01:46	40
1,2,4-Trichlorobenzene	40	U	40	16	ug/L			04/30/15 01:46	40
1,2,4-Trimethylbenzene	40	U	40	30	ug/L			04/30/15 01:46	40
1,2-Dibromo-3-Chloropropane	40	U	40	16	ug/L			04/30/15 01:46	40
1,2-Dibromoethane	40	U	40	29	ug/L			04/30/15 01:46	40
1,2-Dichlorobenzene	40	U	40	32	ug/L			04/30/15 01:46	40
1,2-Dichloroethane	40	U	40	8.4	ug/L			04/30/15 01:46	40
1,2-Dichloropropane	40	U	40	29	ug/L			04/30/15 01:46	40
1,3,5-Trimethylbenzene	40	U	40	31	ug/L			04/30/15 01:46	40
1,3-Dichlorobenzene	40	U	40	31	ug/L			04/30/15 01:46	40
1,4-Dichlorobenzene	40	U	40	34	ug/L			04/30/15 01:46	40
2-Butanone (MEK)	400	U	400	53	ug/L			04/30/15 01:46	40
2-Hexanone	200	U	200	50	ug/L			04/30/15 01:46	40
4-Methyl-2-pentanone (MIBK)	200	U	200	84	ug/L			04/30/15 01:46	40
Acetone	400	U	400	120	ug/L			04/30/15 01:46	40
Benzene	40	U	40	16	ug/L			04/30/15 01:46	40
Bromodichloromethane	40	U	40	16	ug/L			04/30/15 01:46	40
Bromoform	40	U	40	10	ug/L			04/30/15 01:46	40
Bromomethane	40	U	40	28	ug/L			04/30/15 01:46	40

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: 4009-29I

Lab Sample ID: 480-78924-23

Date Collected: 04/20/15 13:20

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	40	U	40	7.6	ug/L			04/30/15 01:46	40
Carbon tetrachloride	40	U	40	11	ug/L			04/30/15 01:46	40
Chlorobenzene	40	U	40	30	ug/L			04/30/15 01:46	40
Chloroethane	40	U	40	13	ug/L			04/30/15 01:46	40
Chloroform	40	U	40	14	ug/L			04/30/15 01:46	40
Chloromethane	40	U	40	14	ug/L			04/30/15 01:46	40
cis-1,2-Dichloroethene	380		40	32	ug/L			04/30/15 01:46	40
cis-1,3-Dichloropropene	40	U	40	14	ug/L			04/30/15 01:46	40
Cyclohexane	40	U	40	7.2	ug/L			04/30/15 01:46	40
Dibromochloromethane	40	U	40	13	ug/L			04/30/15 01:46	40
Dichlorodifluoromethane	40	U	40	27	ug/L			04/30/15 01:46	40
Ethylbenzene	40	U	40	30	ug/L			04/30/15 01:46	40
Isopropylbenzene	40	U	40	32	ug/L			04/30/15 01:46	40
Methyl acetate	100	U	100	20	ug/L			04/30/15 01:46	40
Methyl tert-butyl ether	40	U	40	6.4	ug/L			04/30/15 01:46	40
Methylcyclohexane	40	U	40	6.4	ug/L			04/30/15 01:46	40
Methylene Chloride	18 J		40	18	ug/L			04/30/15 01:46	40
Styrene	40	U	40	29	ug/L			04/30/15 01:46	40
Tetrachloroethene	40	U	40	14	ug/L			04/30/15 01:46	40
Toluene	40	U	40	20	ug/L			04/30/15 01:46	40
trans-1,2-Dichloroethene	40	U	40	36	ug/L			04/30/15 01:46	40
trans-1,3-Dichloropropene	40	U	40	15	ug/L			04/30/15 01:46	40
Trichloroethene	410		40	18	ug/L			04/30/15 01:46	40
Trichlorofluoromethane	40	U	40	35	ug/L			04/30/15 01:46	40
Vinyl chloride	92		40	36	ug/L			04/30/15 01:46	40
Xylenes, Total	80	U	80	26	ug/L			04/30/15 01:46	40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		66 - 137		04/30/15 01:46	40
4-Bromofluorobenzene (Surr)	98		73 - 120		04/30/15 01:46	40
Dibromofluoromethane (Surr)	110		60 - 140		04/30/15 01:46	40
Toluene-d8 (Surr)	92		71 - 126		04/30/15 01:46	40

Client Sample ID: 4009-29D

Lab Sample ID: 480-78924-24

Date Collected: 04/20/15 13:25

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	290		5.0	4.1	ug/L			04/29/15 05:09	5
1,1,1,2,2-Tetrachloroethane	5.0	U	5.0	1.1	ug/L			04/29/15 05:09	5
1,1,2-Trichloro-1,2,2-trifluoroethane	3.6 J		5.0	1.6	ug/L			04/29/15 05:09	5
1,1,2-Trichloroethane	5.0	U	5.0	1.2	ug/L			04/29/15 05:09	5
1,1-Dichloroethane	51		5.0	1.9	ug/L			04/29/15 05:09	5
1,1-Dichloroethene	29		5.0	1.5	ug/L			04/29/15 05:09	5
1,2,3-Trimethylbenzene	5.0	U	5.0	1.3	ug/L			04/29/15 05:09	5
1,2,4-Trichlorobenzene	5.0	U	5.0	2.1	ug/L			04/29/15 05:09	5
1,2,4-Trimethylbenzene	5.0	U	5.0	3.8	ug/L			04/29/15 05:09	5
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.0	ug/L			04/29/15 05:09	5

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: 4009-29D

Lab Sample ID: 480-78924-24

Date Collected: 04/20/15 13:25

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	5.0	U	5.0	3.7	ug/L			04/29/15 05:09	5
1,2-Dichlorobenzene	5.0	U	5.0	4.0	ug/L			04/29/15 05:09	5
1,2-Dichloroethane	5.0	U	5.0	1.1	ug/L			04/29/15 05:09	5
1,2-Dichloropropane	5.0	U	5.0	3.6	ug/L			04/29/15 05:09	5
1,3,5-Trimethylbenzene	5.0	U	5.0	3.9	ug/L			04/29/15 05:09	5
1,3-Dichlorobenzene	5.0	U	5.0	3.9	ug/L			04/29/15 05:09	5
1,4-Dichlorobenzene	5.0	U	5.0	4.2	ug/L			04/29/15 05:09	5
2-Butanone (MEK)	50	U	50	6.6	ug/L			04/29/15 05:09	5
2-Hexanone	25	U	25	6.2	ug/L			04/29/15 05:09	5
4-Methyl-2-pentanone (MIBK)	25	U	25	11	ug/L			04/29/15 05:09	5
Acetone	50	U	50	15	ug/L			04/29/15 05:09	5
Benzene	5.0	U	5.0	2.1	ug/L			04/29/15 05:09	5
Bromodichloromethane	5.0	U	5.0	2.0	ug/L			04/29/15 05:09	5
Bromoform	5.0	U	5.0	1.3	ug/L			04/29/15 05:09	5
Bromomethane	5.0	U	5.0	3.5	ug/L			04/29/15 05:09	5
Carbon disulfide	5.0	U	5.0	0.95	ug/L			04/29/15 05:09	5
Carbon tetrachloride	5.0	U	5.0	1.4	ug/L			04/29/15 05:09	5
Chlorobenzene	5.0	U	5.0	3.8	ug/L			04/29/15 05:09	5
Chloroethane	2.5	J	5.0	1.6	ug/L			04/29/15 05:09	5
Chloroform	5.0	U	5.0	1.7	ug/L			04/29/15 05:09	5
Chloromethane	5.0	U	5.0	1.8	ug/L			04/29/15 05:09	5
cis-1,2-Dichloroethene	210		5.0	4.1	ug/L			04/29/15 05:09	5
cis-1,3-Dichloropropene	5.0	U	5.0	1.8	ug/L			04/29/15 05:09	5
Cyclohexane	5.0	U	5.0	0.90	ug/L			04/29/15 05:09	5
Dibromochloromethane	5.0	U	5.0	1.6	ug/L			04/29/15 05:09	5
Dichlorodifluoromethane	5.0	U	5.0	3.4	ug/L			04/29/15 05:09	5
Ethylbenzene	5.0	U	5.0	3.7	ug/L			04/29/15 05:09	5
Isopropylbenzene	5.0	U	5.0	4.0	ug/L			04/29/15 05:09	5
Methyl acetate	13	U	13	2.5	ug/L			04/29/15 05:09	5
Methyl tert-butyl ether	5.0	U	5.0	0.80	ug/L			04/29/15 05:09	5
Methylcyclohexane	5.0	U	5.0	0.80	ug/L			04/29/15 05:09	5
Methylene Chloride	5.0	U	5.0	2.2	ug/L			04/29/15 05:09	5
Styrene	5.0	U	5.0	3.7	ug/L			04/29/15 05:09	5
Tetrachloroethene	5.0	U	5.0	1.8	ug/L			04/29/15 05:09	5
Toluene	5.0	U	5.0	2.6	ug/L			04/29/15 05:09	5
trans-1,2-Dichloroethene	5.0	U	5.0	4.5	ug/L			04/29/15 05:09	5
trans-1,3-Dichloropropene	5.0	U	5.0	1.9	ug/L			04/29/15 05:09	5
Trichloroethene	20		5.0	2.3	ug/L			04/29/15 05:09	5
Trichlorofluoromethane	5.0	U	5.0	4.4	ug/L			04/29/15 05:09	5
Vinyl chloride	55		5.0	4.5	ug/L			04/29/15 05:09	5
Xylenes, Total	10	U	10	3.3	ug/L			04/29/15 05:09	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		66 - 137		04/29/15 05:09	5
4-Bromofluorobenzene (Surr)	103		73 - 120		04/29/15 05:09	5
Dibromofluoromethane (Surr)	105		60 - 140		04/29/15 05:09	5
Toluene-d8 (Surr)	99		71 - 126		04/29/15 05:09	5

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: 4009-30

Lab Sample ID: 480-78924-25

Date Collected: 04/20/15 11:45

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.98	J	1.0	0.82	ug/L			04/29/15 18:07	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/29/15 18:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/29/15 18:07	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/29/15 18:07	1
1,1-Dichloroethane	0.86	J	1.0	0.38	ug/L			04/29/15 18:07	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/29/15 18:07	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/29/15 18:07	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/29/15 18:07	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/29/15 18:07	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/29/15 18:07	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/29/15 18:07	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/29/15 18:07	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/29/15 18:07	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/29/15 18:07	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/29/15 18:07	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/29/15 18:07	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/29/15 18:07	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			04/29/15 18:07	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/29/15 18:07	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/29/15 18:07	1
Acetone	7.0	J	10	3.0	ug/L			04/29/15 18:07	1
Benzene	1.0	U	1.0	0.41	ug/L			04/29/15 18:07	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/29/15 18:07	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/29/15 18:07	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/29/15 18:07	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/29/15 18:07	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/29/15 18:07	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/29/15 18:07	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/29/15 18:07	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/29/15 18:07	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/29/15 18:07	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/29/15 18:07	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/29/15 18:07	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/29/15 18:07	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/29/15 18:07	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/29/15 18:07	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/29/15 18:07	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/29/15 18:07	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			04/29/15 18:07	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/29/15 18:07	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/29/15 18:07	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/29/15 18:07	1
Styrene	1.0	U	1.0	0.73	ug/L			04/29/15 18:07	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/29/15 18:07	1
Toluene	1.0	U	1.0	0.51	ug/L			04/29/15 18:07	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/29/15 18:07	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/29/15 18:07	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/29/15 18:07	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/29/15 18:07	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: 4009-30

Lab Sample ID: 480-78924-25

Date Collected: 04/20/15 11:45

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.90	ug/L			04/29/15 18:07	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/29/15 18:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		66 - 137					04/29/15 18:07	1
4-Bromofluorobenzene (Surr)	95		73 - 120					04/29/15 18:07	1
Dibromofluoromethane (Surr)	111		60 - 140					04/29/15 18:07	1
Toluene-d8 (Surr)	91		71 - 126					04/29/15 18:07	1

Client Sample ID: 4009-30A

Lab Sample ID: 480-78924-26

Date Collected: 04/20/15 11:50

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			04/29/15 18:35	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/29/15 18:35	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/29/15 18:35	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/29/15 18:35	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			04/29/15 18:35	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/29/15 18:35	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/29/15 18:35	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/29/15 18:35	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/29/15 18:35	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/29/15 18:35	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/29/15 18:35	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/29/15 18:35	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/29/15 18:35	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/29/15 18:35	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/29/15 18:35	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/29/15 18:35	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/29/15 18:35	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			04/29/15 18:35	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/29/15 18:35	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/29/15 18:35	1
Acetone	6.9	J	10	3.0	ug/L			04/29/15 18:35	1
Benzene	0.75	J	1.0	0.41	ug/L			04/29/15 18:35	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/29/15 18:35	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/29/15 18:35	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/29/15 18:35	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/29/15 18:35	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/29/15 18:35	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/29/15 18:35	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/29/15 18:35	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/29/15 18:35	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/29/15 18:35	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/29/15 18:35	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/29/15 18:35	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/29/15 18:35	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/29/15 18:35	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: 4009-30A

Lab Sample ID: 480-78924-26

Date Collected: 04/20/15 11:50

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/29/15 18:35	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/29/15 18:35	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/29/15 18:35	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			04/29/15 18:35	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/29/15 18:35	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/29/15 18:35	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/29/15 18:35	1
Styrene	1.0	U	1.0	0.73	ug/L			04/29/15 18:35	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/29/15 18:35	1
Toluene	1.0	U	1.0	0.51	ug/L			04/29/15 18:35	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/29/15 18:35	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/29/15 18:35	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/29/15 18:35	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/29/15 18:35	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			04/29/15 18:35	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/29/15 18:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		66 - 137		04/29/15 18:35	1
4-Bromofluorobenzene (Surr)	95		73 - 120		04/29/15 18:35	1
Dibromofluoromethane (Surr)	112		60 - 140		04/29/15 18:35	1
Toluene-d8 (Surr)	90		71 - 126		04/29/15 18:35	1

Client Sample ID: WELL 1-1

Lab Sample ID: 480-78924-27

Date Collected: 04/20/15 15:10

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	220		4.0	3.3	ug/L			04/29/15 19:03	4
1,1,2,2-Tetrachloroethane	4.0	U	4.0	0.84	ug/L			04/29/15 19:03	4
1,1,2-Trichloro-1,2,2-trifluoroethane	4.1		4.0	1.2	ug/L			04/29/15 19:03	4
1,1,2-Trichloroethane	4.0	U	4.0	0.92	ug/L			04/29/15 19:03	4
1,1-Dichloroethane	15		4.0	1.5	ug/L			04/29/15 19:03	4
1,1-Dichloroethene	10		4.0	1.2	ug/L			04/29/15 19:03	4
1,2,3-Trimethylbenzene	4.0	U	4.0	1.0	ug/L			04/29/15 19:03	4
1,2,4-Trichlorobenzene	4.0	U	4.0	1.6	ug/L			04/29/15 19:03	4
1,2,4-Trimethylbenzene	4.0	U	4.0	3.0	ug/L			04/29/15 19:03	4
1,2-Dibromo-3-Chloropropane	4.0	U	4.0	1.6	ug/L			04/29/15 19:03	4
1,2-Dibromoethane	4.0	U	4.0	2.9	ug/L			04/29/15 19:03	4
1,2-Dichlorobenzene	4.0	U	4.0	3.2	ug/L			04/29/15 19:03	4
1,2-Dichloroethane	4.0	U	4.0	0.84	ug/L			04/29/15 19:03	4
1,2-Dichloropropane	4.0	U	4.0	2.9	ug/L			04/29/15 19:03	4
1,3,5-Trimethylbenzene	4.0	U	4.0	3.1	ug/L			04/29/15 19:03	4
1,3-Dichlorobenzene	4.0	U	4.0	3.1	ug/L			04/29/15 19:03	4
1,4-Dichlorobenzene	4.0	U	4.0	3.4	ug/L			04/29/15 19:03	4
2-Butanone (MEK)	40	U	40	5.3	ug/L			04/29/15 19:03	4
2-Hexanone	20	U	20	5.0	ug/L			04/29/15 19:03	4
4-Methyl-2-pentanone (MIBK)	20	U	20	8.4	ug/L			04/29/15 19:03	4

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: WELL 1-1

Lab Sample ID: 480-78924-27

Date Collected: 04/20/15 15:10

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	40	U	40	12	ug/L			04/29/15 19:03	4
Benzene	4.0	U	4.0	1.6	ug/L			04/29/15 19:03	4
Bromodichloromethane	4.0	U	4.0	1.6	ug/L			04/29/15 19:03	4
Bromoform	4.0	U	4.0	1.0	ug/L			04/29/15 19:03	4
Bromomethane	4.0	U	4.0	2.8	ug/L			04/29/15 19:03	4
Carbon disulfide	4.0	U	4.0	0.76	ug/L			04/29/15 19:03	4
Carbon tetrachloride	4.0	U	4.0	1.1	ug/L			04/29/15 19:03	4
Chlorobenzene	4.0	U	4.0	3.0	ug/L			04/29/15 19:03	4
Chloroethane	4.0	U	4.0	1.3	ug/L			04/29/15 19:03	4
Chloroform	4.0	U	4.0	1.4	ug/L			04/29/15 19:03	4
Chloromethane	4.0	U	4.0	1.4	ug/L			04/29/15 19:03	4
cis-1,2-Dichloroethene	39		4.0	3.2	ug/L			04/29/15 19:03	4
cis-1,3-Dichloropropene	4.0	U	4.0	1.4	ug/L			04/29/15 19:03	4
Cyclohexane	4.0	U	4.0	0.72	ug/L			04/29/15 19:03	4
Dibromochloromethane	4.0	U	4.0	1.3	ug/L			04/29/15 19:03	4
Dichlorodifluoromethane	4.0	U	4.0	2.7	ug/L			04/29/15 19:03	4
Ethylbenzene	4.0	U	4.0	3.0	ug/L			04/29/15 19:03	4
Isopropylbenzene	4.0	U	4.0	3.2	ug/L			04/29/15 19:03	4
Methyl acetate	10	U	10	2.0	ug/L			04/29/15 19:03	4
Methyl tert-butyl ether	4.0	U	4.0	0.64	ug/L			04/29/15 19:03	4
Methylcyclohexane	4.0	U	4.0	0.64	ug/L			04/29/15 19:03	4
Methylene Chloride	4.0	U	4.0	1.8	ug/L			04/29/15 19:03	4
Styrene	4.0	U	4.0	2.9	ug/L			04/29/15 19:03	4
Tetrachloroethene	4.0	U	4.0	1.4	ug/L			04/29/15 19:03	4
Toluene	4.0	U	4.0	2.0	ug/L			04/29/15 19:03	4
trans-1,2-Dichloroethene	4.0	U	4.0	3.6	ug/L			04/29/15 19:03	4
trans-1,3-Dichloropropene	4.0	U	4.0	1.5	ug/L			04/29/15 19:03	4
Trichloroethene	41		4.0	1.8	ug/L			04/29/15 19:03	4
Trichlorofluoromethane	4.0	U	4.0	3.5	ug/L			04/29/15 19:03	4
Vinyl chloride	4.0	U	4.0	3.6	ug/L			04/29/15 19:03	4
Xylenes, Total	8.0	U	8.0	2.6	ug/L			04/29/15 19:03	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		66 - 137		04/29/15 19:03	4
4-Bromofluorobenzene (Surr)	97		73 - 120		04/29/15 19:03	4
Dibromofluoromethane (Surr)	111		60 - 140		04/29/15 19:03	4
Toluene-d8 (Surr)	92		71 - 126		04/29/15 19:03	4

Client Sample ID: DUP 1

Lab Sample ID: 480-78924-28

Date Collected: 04/20/15 00:00

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1200	E	10	8.2	ug/L			04/29/15 06:44	10
1,1,2,2-Tetrachloroethane	10	U	10	2.1	ug/L			04/29/15 06:44	10
1,1,2-Trichloro-1,2,2-trifluoroethane	20		10	3.1	ug/L			04/29/15 06:44	10
1,1,2-Trichloroethane	10	U	10	2.3	ug/L			04/29/15 06:44	10
1,1-Dichloroethane	90		10	3.8	ug/L			04/29/15 06:44	10

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: DUP 1

Lab Sample ID: 480-78924-28

Date Collected: 04/20/15 00:00

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	100		10	2.9	ug/L			04/29/15 06:44	10
1,2,3-Trimethylbenzene	10	U	10	2.6	ug/L			04/29/15 06:44	10
1,2,4-Trichlorobenzene	10	U	10	4.1	ug/L			04/29/15 06:44	10
1,2,4-Trimethylbenzene	10	U	10	7.5	ug/L			04/29/15 06:44	10
1,2-Dibromo-3-Chloropropane	10	U	10	3.9	ug/L			04/29/15 06:44	10
1,2-Dibromoethane	10	U	10	7.3	ug/L			04/29/15 06:44	10
1,2-Dichlorobenzene	10	U	10	7.9	ug/L			04/29/15 06:44	10
1,2-Dichloroethane	10	U	10	2.1	ug/L			04/29/15 06:44	10
1,2-Dichloropropane	10	U	10	7.2	ug/L			04/29/15 06:44	10
1,3,5-Trimethylbenzene	10	U	10	7.7	ug/L			04/29/15 06:44	10
1,3-Dichlorobenzene	10	U	10	7.8	ug/L			04/29/15 06:44	10
1,4-Dichlorobenzene	10	U	10	8.4	ug/L			04/29/15 06:44	10
2-Butanone (MEK)	100	U	100	13	ug/L			04/29/15 06:44	10
2-Hexanone	50	U	50	12	ug/L			04/29/15 06:44	10
4-Methyl-2-pentanone (MIBK)	50	U	50	21	ug/L			04/29/15 06:44	10
Acetone	100	U	100	30	ug/L			04/29/15 06:44	10
Benzene	10	U	10	4.1	ug/L			04/29/15 06:44	10
Bromodichloromethane	10	U	10	3.9	ug/L			04/29/15 06:44	10
Bromoform	10	U	10	2.6	ug/L			04/29/15 06:44	10
Bromomethane	10	U	10	6.9	ug/L			04/29/15 06:44	10
Carbon disulfide	10	U	10	1.9	ug/L			04/29/15 06:44	10
Carbon tetrachloride	10	U	10	2.7	ug/L			04/29/15 06:44	10
Chlorobenzene	10	U	10	7.5	ug/L			04/29/15 06:44	10
Chloroethane	10	U	10	3.2	ug/L			04/29/15 06:44	10
Chloroform	10	U	10	3.4	ug/L			04/29/15 06:44	10
Chloromethane	10	U	10	3.5	ug/L			04/29/15 06:44	10
cis-1,2-Dichloroethene	360		10	8.1	ug/L			04/29/15 06:44	10
cis-1,3-Dichloropropene	10	U	10	3.6	ug/L			04/29/15 06:44	10
Cyclohexane	10	U	10	1.8	ug/L			04/29/15 06:44	10
Dibromochloromethane	10	U	10	3.2	ug/L			04/29/15 06:44	10
Dichlorodifluoromethane	10	U	10	6.8	ug/L			04/29/15 06:44	10
Ethylbenzene	10	U	10	7.4	ug/L			04/29/15 06:44	10
Isopropylbenzene	10	U	10	7.9	ug/L			04/29/15 06:44	10
Methyl acetate	25	U	25	5.0	ug/L			04/29/15 06:44	10
Methyl tert-butyl ether	10	U	10	1.6	ug/L			04/29/15 06:44	10
Methylcyclohexane	10	U	10	1.6	ug/L			04/29/15 06:44	10
Methylene Chloride	10	U	10	4.4	ug/L			04/29/15 06:44	10
Styrene	10	U	10	7.3	ug/L			04/29/15 06:44	10
Tetrachloroethene	10	U	10	3.6	ug/L			04/29/15 06:44	10
Toluene	10	U	10	5.1	ug/L			04/29/15 06:44	10
trans-1,2-Dichloroethene	10	U	10	9.0	ug/L			04/29/15 06:44	10
trans-1,3-Dichloropropene	10	U	10	3.7	ug/L			04/29/15 06:44	10
Trichloroethene	410		10	4.6	ug/L			04/29/15 06:44	10
Trichlorofluoromethane	10	U	10	8.8	ug/L			04/29/15 06:44	10
Vinyl chloride	89		10	9.0	ug/L			04/29/15 06:44	10
Xylenes, Total	20	U	20	6.6	ug/L			04/29/15 06:44	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		66 - 137		04/29/15 06:44	10
4-Bromofluorobenzene (Surr)	102		73 - 120		04/29/15 06:44	10

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: DUP 1

Lab Sample ID: 480-78924-28

Date Collected: 04/20/15 00:00

Matrix: Water

Date Received: 04/22/15 09:00

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	104		60 - 140		04/29/15 06:44	10
Toluene-d8 (Surr)	100		71 - 126		04/29/15 06:44	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1700		25	21	ug/L			04/29/15 19:31	25
1,1,2,2-Tetrachloroethane	25	U	25	5.3	ug/L			04/29/15 19:31	25
1,1,2-Trichloro-1,2,2-trifluoroethane	20	J	25	7.8	ug/L			04/29/15 19:31	25
1,1,2-Trichloroethane	25	U	25	5.8	ug/L			04/29/15 19:31	25
1,1-Dichloroethane	110		25	9.5	ug/L			04/29/15 19:31	25
1,1-Dichloroethene	97		25	7.3	ug/L			04/29/15 19:31	25
1,2,3-Trimethylbenzene	25	U	25	6.5	ug/L			04/29/15 19:31	25
1,2,4-Trichlorobenzene	25	U	25	10	ug/L			04/29/15 19:31	25
1,2,4-Trimethylbenzene	25	U	25	19	ug/L			04/29/15 19:31	25
1,2-Dibromo-3-Chloropropane	25	U	25	9.8	ug/L			04/29/15 19:31	25
1,2-Dibromoethane	25	U	25	18	ug/L			04/29/15 19:31	25
1,2-Dichlorobenzene	25	U	25	20	ug/L			04/29/15 19:31	25
1,2-Dichloroethane	25	U	25	5.3	ug/L			04/29/15 19:31	25
1,2-Dichloropropane	25	U	25	18	ug/L			04/29/15 19:31	25
1,3,5-Trimethylbenzene	25	U	25	19	ug/L			04/29/15 19:31	25
1,3-Dichlorobenzene	25	U	25	20	ug/L			04/29/15 19:31	25
1,4-Dichlorobenzene	25	U	25	21	ug/L			04/29/15 19:31	25
2-Butanone (MEK)	250	U	250	33	ug/L			04/29/15 19:31	25
2-Hexanone	130	U	130	31	ug/L			04/29/15 19:31	25
4-Methyl-2-pentanone (MIBK)	130	U	130	53	ug/L			04/29/15 19:31	25
Acetone	250	U	250	75	ug/L			04/29/15 19:31	25
Benzene	25	U	25	10	ug/L			04/29/15 19:31	25
Bromodichloromethane	25	U	25	9.8	ug/L			04/29/15 19:31	25
Bromoform	25	U	25	6.5	ug/L			04/29/15 19:31	25
Bromomethane	25	U	25	17	ug/L			04/29/15 19:31	25
Carbon disulfide	25	U	25	4.8	ug/L			04/29/15 19:31	25
Carbon tetrachloride	25	U	25	6.8	ug/L			04/29/15 19:31	25
Chlorobenzene	25	U	25	19	ug/L			04/29/15 19:31	25
Chloroethane	25	U	25	8.0	ug/L			04/29/15 19:31	25
Chloroform	25	U	25	8.5	ug/L			04/29/15 19:31	25
Chloromethane	25	U	25	8.8	ug/L			04/29/15 19:31	25
cis-1,2-Dichloroethene	390		25	20	ug/L			04/29/15 19:31	25
cis-1,3-Dichloropropene	25	U	25	9.0	ug/L			04/29/15 19:31	25
Cyclohexane	25	U	25	4.5	ug/L			04/29/15 19:31	25
Dibromochloromethane	25	U	25	8.0	ug/L			04/29/15 19:31	25
Dichlorodifluoromethane	25	U	25	17	ug/L			04/29/15 19:31	25
Ethylbenzene	25	U	25	19	ug/L			04/29/15 19:31	25
Isopropylbenzene	25	U	25	20	ug/L			04/29/15 19:31	25
Methyl acetate	63	U	63	13	ug/L			04/29/15 19:31	25
Methyl tert-butyl ether	25	U	25	4.0	ug/L			04/29/15 19:31	25
Methylcyclohexane	25	U	25	4.0	ug/L			04/29/15 19:31	25
Methylene Chloride	25	U	25	11	ug/L			04/29/15 19:31	25
Styrene	25	U	25	18	ug/L			04/29/15 19:31	25

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: DUP 1

Lab Sample ID: 480-78924-28

Date Collected: 04/20/15 00:00

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	25	U	25	9.0	ug/L			04/29/15 19:31	25
Toluene	25	U	25	13	ug/L			04/29/15 19:31	25
trans-1,2-Dichloroethene	25	U	25	23	ug/L			04/29/15 19:31	25
trans-1,3-Dichloropropene	25	U	25	9.3	ug/L			04/29/15 19:31	25
Trichloroethene	450		25	12	ug/L			04/29/15 19:31	25
Trichlorofluoromethane	25	U	25	22	ug/L			04/29/15 19:31	25
Vinyl chloride	100		25	23	ug/L			04/29/15 19:31	25
Xylenes, Total	50	U	50	17	ug/L			04/29/15 19:31	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		66 - 137		04/29/15 19:31	25
4-Bromofluorobenzene (Surr)	100		73 - 120		04/29/15 19:31	25
Dibromofluoromethane (Surr)	112		60 - 140		04/29/15 19:31	25
Toluene-d8 (Surr)	92		71 - 126		04/29/15 19:31	25

Client Sample ID: DUP 2

Lab Sample ID: 480-78924-29

Date Collected: 04/20/15 00:00

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			04/29/15 20:00	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/29/15 20:00	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/29/15 20:00	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/29/15 20:00	1
1,1-Dichloroethane	1.8		1.0	0.38	ug/L			04/29/15 20:00	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/29/15 20:00	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/29/15 20:00	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/29/15 20:00	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/29/15 20:00	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/29/15 20:00	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/29/15 20:00	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/29/15 20:00	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/29/15 20:00	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/29/15 20:00	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/29/15 20:00	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/29/15 20:00	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/29/15 20:00	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			04/29/15 20:00	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/29/15 20:00	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/29/15 20:00	1
Acetone	9.0	J	10	3.0	ug/L			04/29/15 20:00	1
Benzene	2.6		1.0	0.41	ug/L			04/29/15 20:00	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/29/15 20:00	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/29/15 20:00	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/29/15 20:00	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/29/15 20:00	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/29/15 20:00	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/29/15 20:00	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/29/15 20:00	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: DUP 2

Lab Sample ID: 480-78924-29

Date Collected: 04/20/15 00:00

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	1.0	U	1.0	0.34	ug/L			04/29/15 20:00	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/29/15 20:00	1
cis-1,2-Dichloroethene	3.8		1.0	0.81	ug/L			04/29/15 20:00	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/29/15 20:00	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/29/15 20:00	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/29/15 20:00	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/29/15 20:00	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/29/15 20:00	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/29/15 20:00	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			04/29/15 20:00	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/29/15 20:00	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/29/15 20:00	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/29/15 20:00	1
Styrene	1.0	U	1.0	0.73	ug/L			04/29/15 20:00	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/29/15 20:00	1
Toluene	1.0	U	1.0	0.51	ug/L			04/29/15 20:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/29/15 20:00	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/29/15 20:00	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/29/15 20:00	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/29/15 20:00	1
Vinyl chloride	2.4		1.0	0.90	ug/L			04/29/15 20:00	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/29/15 20:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		66 - 137		04/29/15 20:00	1
4-Bromofluorobenzene (Surr)	94		73 - 120		04/29/15 20:00	1
Dibromofluoromethane (Surr)	110		60 - 140		04/29/15 20:00	1
Toluene-d8 (Surr)	88		71 - 126		04/29/15 20:00	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-78924-30

Date Collected: 04/20/15 00:00

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			04/29/15 07:32	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/29/15 07:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/29/15 07:32	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/29/15 07:32	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			04/29/15 07:32	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/29/15 07:32	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/29/15 07:32	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/29/15 07:32	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/29/15 07:32	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/29/15 07:32	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/29/15 07:32	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/29/15 07:32	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/29/15 07:32	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/29/15 07:32	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/29/15 07:32	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-78924-30

Date Collected: 04/20/15 00:00

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/29/15 07:32	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/29/15 07:32	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			04/29/15 07:32	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/29/15 07:32	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/29/15 07:32	1
Acetone	10	U	10	3.0	ug/L			04/29/15 07:32	1
Benzene	1.0	U	1.0	0.41	ug/L			04/29/15 07:32	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/29/15 07:32	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/29/15 07:32	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/29/15 07:32	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/29/15 07:32	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/29/15 07:32	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/29/15 07:32	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/29/15 07:32	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/29/15 07:32	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/29/15 07:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/29/15 07:32	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/29/15 07:32	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/29/15 07:32	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/29/15 07:32	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/29/15 07:32	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/29/15 07:32	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/29/15 07:32	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			04/29/15 07:32	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/29/15 07:32	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/29/15 07:32	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/29/15 07:32	1
Styrene	1.0	U	1.0	0.73	ug/L			04/29/15 07:32	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/29/15 07:32	1
Toluene	1.0	U	1.0	0.51	ug/L			04/29/15 07:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/29/15 07:32	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/29/15 07:32	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/29/15 07:32	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/29/15 07:32	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			04/29/15 07:32	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/29/15 07:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		66 - 137		04/29/15 07:32	1
4-Bromofluorobenzene (Surr)	101		73 - 120		04/29/15 07:32	1
Dibromofluoromethane (Surr)	101		60 - 140		04/29/15 07:32	1
Toluene-d8 (Surr)	99		71 - 126		04/29/15 07:32	1

Client Sample ID: FIELD BLANK

Lab Sample ID: 480-78924-31

Date Collected: 04/20/15 15:20

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			04/29/15 07:55	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: FIELD BLANK

Lab Sample ID: 480-78924-31

Date Collected: 04/20/15 15:20

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/29/15 07:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/29/15 07:55	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/29/15 07:55	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			04/29/15 07:55	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/29/15 07:55	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/29/15 07:55	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/29/15 07:55	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/29/15 07:55	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/29/15 07:55	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/29/15 07:55	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/29/15 07:55	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/29/15 07:55	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/29/15 07:55	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/29/15 07:55	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/29/15 07:55	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/29/15 07:55	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			04/29/15 07:55	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/29/15 07:55	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/29/15 07:55	1
Acetone	7.5	J	10	3.0	ug/L			04/29/15 07:55	1
Benzene	1.0	U	1.0	0.41	ug/L			04/29/15 07:55	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/29/15 07:55	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/29/15 07:55	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/29/15 07:55	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/29/15 07:55	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/29/15 07:55	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/29/15 07:55	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/29/15 07:55	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/29/15 07:55	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/29/15 07:55	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/29/15 07:55	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/29/15 07:55	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/29/15 07:55	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/29/15 07:55	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/29/15 07:55	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/29/15 07:55	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/29/15 07:55	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			04/29/15 07:55	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/29/15 07:55	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/29/15 07:55	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/29/15 07:55	1
Styrene	1.0	U	1.0	0.73	ug/L			04/29/15 07:55	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/29/15 07:55	1
Toluene	1.0	U	1.0	0.51	ug/L			04/29/15 07:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/29/15 07:55	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/29/15 07:55	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/29/15 07:55	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/29/15 07:55	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			04/29/15 07:55	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: FIELD BLANK

Lab Sample ID: 480-78924-31

Date Collected: 04/20/15 15:20

Matrix: Water

Date Received: 04/22/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/29/15 07:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		66 - 137		04/29/15 07:55	1
4-Bromofluorobenzene (Surr)	102		73 - 120		04/29/15 07:55	1
Dibromofluoromethane (Surr)	100		60 - 140		04/29/15 07:55	1
Toluene-d8 (Surr)	98		71 - 126		04/29/15 07:55	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

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)	BFB (73-120)	DBFM (60-140)	TOL (71-126)
480-78924-1	WELL 1-2A (SAMPLE INFLUENT)	101	104	100	100
480-78924-2	WELL 1-3 (SAMPLE INFLUENT)	99	103	100	99
480-78924-3	4009-9	100	104	103	101
480-78924-4	4009-10	100	104	98	100
480-78924-5	4009-11	99	103	100	100
480-78924-6	4009-11A	98	103	100	100
480-78924-7	4009-12	101	104	102	102
480-78924-8	4009-13	100	104	103	99
480-78924-9	4009-13A	100	105	100	99
480-78924-10	4009-14	99	105	101	100
480-78924-10 MS	4009-14	97	107	100	99
480-78924-10 MSD	4009-14	96	106	100	102
480-78924-11	4009-15	97	103	98	99
480-78924-12	4009-16	99	104	98	98
480-78924-13	4009-16A	99	105	100	100
480-78924-15	4009-19	108	101	108	94
480-78924-16	4009-21	104	101	108	92
480-78924-17	4009-22	100	104	102	100
480-78924-18	4009-27S	100	103	103	101
480-78924-19	4009-27I	105	99	107	94
480-78924-19 MS	4009-27I	101	98	101	97
480-78924-19 MSD	4009-27I	100	100	98	98
480-78924-20	4009-27D	101	103	100	98
480-78924-21	4009-28	103	104	105	100
480-78924-22	4009-29S	105	95	108	91
480-78924-22 MS	4009-29S	105	102	107	97
480-78924-22 MSD	4009-29S	112	106	107	102
480-78924-23	4009-29I	107	98	110	92
480-78924-24	4009-29D	102	103	105	99
480-78924-25	4009-30	107	95	111	91
480-78924-26	4009-30A	110	95	112	90
480-78924-27	WELL 1-1	110	97	111	92
480-78924-28	DUP 1	102	102	104	100
480-78924-28 - DL	DUP 1	105	100	112	92
480-78924-29	DUP 2	111	94	110	88
480-78924-30	TRIP BLANK	102	101	101	99
480-78924-31	FIELD BLANK	100	102	100	98
LCS 480-239009/5	Lab Control Sample	96	107	100	100
LCS 480-239249/4	Lab Control Sample	98	108	100	101
LCS 480-239404/4	Lab Control Sample	101	102	102	95
LCS 480-239512/4	Lab Control Sample	102	103	104	95
LCS 480-239987/5	Lab Control Sample	100	100	98	99
MB 480-239009/15	Method Blank	97	107	100	99
MB 480-239249/6	Method Blank	98	107	99	100
MB 480-239404/6	Method Blank	105	101	107	94
MB 480-239512/6	Method Blank	103	99	108	91
MB 480-239987/7	Method Blank	97	96	96	96

Surrogate Legend

TestAmerica Buffalo

Surrogate Summary

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

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

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

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QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

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

Lab Sample ID: MB 480-239009/15

Matrix: Water

Analysis Batch: 239009

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	1.0	U	1.0	0.82	ug/L			04/28/15 14:35	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/28/15 14:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/28/15 14:35	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/28/15 14:35	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			04/28/15 14:35	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/28/15 14:35	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/28/15 14:35	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/28/15 14:35	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/28/15 14:35	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/28/15 14:35	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/28/15 14:35	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/28/15 14:35	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/28/15 14:35	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/28/15 14:35	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/28/15 14:35	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/28/15 14:35	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/28/15 14:35	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			04/28/15 14:35	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/28/15 14:35	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/28/15 14:35	1
Acetone	10	U	10	3.0	ug/L			04/28/15 14:35	1
Benzene	1.0	U	1.0	0.41	ug/L			04/28/15 14:35	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/28/15 14:35	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/28/15 14:35	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/28/15 14:35	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/28/15 14:35	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/28/15 14:35	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/28/15 14:35	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/28/15 14:35	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/28/15 14:35	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/28/15 14:35	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/28/15 14:35	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/28/15 14:35	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/28/15 14:35	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/28/15 14:35	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/28/15 14:35	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/28/15 14:35	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/28/15 14:35	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			04/28/15 14:35	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/28/15 14:35	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/28/15 14:35	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/28/15 14:35	1
Styrene	1.0	U	1.0	0.73	ug/L			04/28/15 14:35	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/28/15 14:35	1
Toluene	1.0	U	1.0	0.51	ug/L			04/28/15 14:35	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/28/15 14:35	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/28/15 14:35	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/28/15 14:35	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

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

Lab Sample ID: MB 480-239009/15

Matrix: Water

Analysis Batch: 239009

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/28/15 14:35	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			04/28/15 14:35	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/28/15 14:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		66 - 137		04/28/15 14:35	1
4-Bromofluorobenzene (Surr)	107		73 - 120		04/28/15 14:35	1
Dibromofluoromethane (Surr)	100		60 - 140		04/28/15 14:35	1
Toluene-d8 (Surr)	99		71 - 126		04/28/15 14:35	1

Lab Sample ID: LCS 480-239009/5

Matrix: Water

Analysis Batch: 239009

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	23.9		ug/L		96	71 - 129
1,1-Dichloroethene	25.0	25.7		ug/L		103	58 - 121
1,2,4-Trimethylbenzene	25.0	25.4		ug/L		102	76 - 121
1,2-Dichlorobenzene	25.0	25.6		ug/L		102	80 - 124
1,2-Dichloroethane	25.0	24.3		ug/L		97	75 - 127
1,3,5-Trimethylbenzene	25.0	25.6		ug/L		102	77 - 121
Benzene	25.0	25.3		ug/L		101	71 - 124
Chlorobenzene	25.0	25.7		ug/L		103	72 - 120
cis-1,2-Dichloroethene	25.0	24.7		ug/L		99	74 - 124
Ethylbenzene	25.0	25.5		ug/L		102	77 - 123
Methyl tert-butyl ether	25.0	24.9		ug/L		99	64 - 127
Tetrachloroethene	25.0	27.5		ug/L		110	74 - 122
Toluene	25.0	25.6		ug/L		102	80 - 122
trans-1,2-Dichloroethene	25.0	25.6		ug/L		103	73 - 127
Trichloroethene	25.0	25.7		ug/L		103	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		66 - 137
4-Bromofluorobenzene (Surr)	107		73 - 120
Dibromofluoromethane (Surr)	100		60 - 140
Toluene-d8 (Surr)	100		71 - 126

Lab Sample ID: MB 480-239249/6

Matrix: Water

Analysis Batch: 239249

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	1.0	U	1.0	0.82	ug/L			04/29/15 00:08	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/29/15 00:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/29/15 00:08	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/29/15 00:08	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			04/29/15 00:08	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/29/15 00:08	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

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

Lab Sample ID: MB 480-239249/6

Matrix: Water

Analysis Batch: 239249

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/29/15 00:08	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/29/15 00:08	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/29/15 00:08	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/29/15 00:08	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/29/15 00:08	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/29/15 00:08	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/29/15 00:08	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/29/15 00:08	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/29/15 00:08	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/29/15 00:08	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/29/15 00:08	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			04/29/15 00:08	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/29/15 00:08	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/29/15 00:08	1
Acetone	10	U	10	3.0	ug/L			04/29/15 00:08	1
Benzene	1.0	U	1.0	0.41	ug/L			04/29/15 00:08	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/29/15 00:08	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/29/15 00:08	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/29/15 00:08	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/29/15 00:08	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/29/15 00:08	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/29/15 00:08	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/29/15 00:08	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/29/15 00:08	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/29/15 00:08	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/29/15 00:08	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/29/15 00:08	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/29/15 00:08	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/29/15 00:08	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/29/15 00:08	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/29/15 00:08	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/29/15 00:08	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			04/29/15 00:08	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/29/15 00:08	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/29/15 00:08	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/29/15 00:08	1
Styrene	1.0	U	1.0	0.73	ug/L			04/29/15 00:08	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/29/15 00:08	1
Toluene	1.0	U	1.0	0.51	ug/L			04/29/15 00:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/29/15 00:08	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/29/15 00:08	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/29/15 00:08	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/29/15 00:08	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			04/29/15 00:08	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/29/15 00:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		66 - 137		04/29/15 00:08	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

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

Lab Sample ID: MB 480-239249/6

Matrix: Water

Analysis Batch: 239249

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		73 - 120		04/29/15 00:08	1
Dibromofluoromethane (Surr)	99		60 - 140		04/29/15 00:08	1
Toluene-d8 (Surr)	100		71 - 126		04/29/15 00:08	1

Lab Sample ID: LCS 480-239249/4

Matrix: Water

Analysis Batch: 239249

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	23.8		ug/L		95	71 - 129
1,1-Dichloroethene	25.0	25.2		ug/L		101	58 - 121
1,2,4-Trimethylbenzene	25.0	24.2		ug/L		97	76 - 121
1,2-Dichlorobenzene	25.0	24.6		ug/L		98	80 - 124
1,2-Dichloroethane	25.0	24.1		ug/L		96	75 - 127
1,3,5-Trimethylbenzene	25.0	24.4		ug/L		97	77 - 121
Benzene	25.0	24.9		ug/L		100	71 - 124
Chlorobenzene	25.0	25.3		ug/L		101	72 - 120
cis-1,2-Dichloroethene	25.0	24.3		ug/L		97	74 - 124
Ethylbenzene	25.0	25.0		ug/L		100	77 - 123
Methyl tert-butyl ether	25.0	24.3		ug/L		97	64 - 127
Tetrachloroethene	25.0	27.3		ug/L		109	74 - 122
Toluene	25.0	25.3		ug/L		101	80 - 122
trans-1,2-Dichloroethene	25.0	25.5		ug/L		102	73 - 127
Trichloroethene	25.0	25.5		ug/L		102	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		66 - 137
4-Bromofluorobenzene (Surr)	108		73 - 120
Dibromofluoromethane (Surr)	100		60 - 140
Toluene-d8 (Surr)	101		71 - 126

Lab Sample ID: 480-78924-10 MS

Matrix: Water

Analysis Batch: 239249

Client Sample ID: 4009-14

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	1.0	U	25.0	29.2		ug/L		117	71 - 129
1,1-Dichloroethene	1.0	U	25.0	32.0	*	ug/L		128	58 - 121
1,2,4-Trimethylbenzene	1.0	U	25.0	29.1		ug/L		116	76 - 121
1,2-Dichlorobenzene	1.0	U	25.0	29.0		ug/L		116	80 - 124
1,2-Dichloroethane	1.0	U	25.0	28.4		ug/L		113	75 - 127
1,3,5-Trimethylbenzene	1.0	U	25.0	29.8		ug/L		119	77 - 121
Benzene	1.2		25.0	32.0		ug/L		123	71 - 124
Chlorobenzene	1.0	U	25.0	30.7	*	ug/L		123	72 - 120
cis-1,2-Dichloroethene	1.0	U	25.0	29.2		ug/L		117	74 - 124
Ethylbenzene	1.0	U	25.0	30.5		ug/L		122	77 - 123
Methyl tert-butyl ether	1.0	U	25.0	27.4		ug/L		110	64 - 127
Tetrachloroethene	1.0	U	25.0	33.3	*	ug/L		133	74 - 122

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

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

Lab Sample ID: 480-78924-10 MS

Matrix: Water

Analysis Batch: 239249

Client Sample ID: 4009-14

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	1.0		25.0	31.6		ug/L		122	80 - 122
trans-1,2-Dichloroethene	1.0	U	25.0	31.6		ug/L		126	73 - 127
Trichloroethene	1.0	U	25.0	31.8	*	ug/L		127	74 - 123
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	97		66 - 137						
4-Bromofluorobenzene (Surr)	107		73 - 120						
Dibromofluoromethane (Surr)	100		60 - 140						
Toluene-d8 (Surr)	99		71 - 126						

Lab Sample ID: 480-78924-10 MSD

Matrix: Water

Analysis Batch: 239249

Client Sample ID: 4009-14

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	1.0	U	25.0	29.6		ug/L		118	71 - 129	1	20
1,1-Dichloroethene	1.0	U	25.0	31.8	*	ug/L		127	58 - 121	1	16
1,2,4-Trimethylbenzene	1.0	U	25.0	29.8		ug/L		119	76 - 121	3	20
1,2-Dichlorobenzene	1.0	U	25.0	30.2		ug/L		121	80 - 124	4	20
1,2-Dichloroethane	1.0	U	25.0	29.0		ug/L		116	75 - 127	2	20
1,3,5-Trimethylbenzene	1.0	U	25.0	30.5	*	ug/L		122	77 - 121	2	20
Benzene	1.2		25.0	32.3		ug/L		124	71 - 124	1	13
Chlorobenzene	1.0	U	25.0	31.5	*	ug/L		126	72 - 120	2	25
cis-1,2-Dichloroethene	1.0	U	25.0	30.3		ug/L		121	74 - 124	4	15
Ethylbenzene	1.0	U	25.0	31.5	*	ug/L		126	77 - 123	3	15
Methyl tert-butyl ether	1.0	U	25.0	27.6		ug/L		110	64 - 127	1	37
Tetrachloroethene	1.0	U	25.0	34.6	*	ug/L		138	74 - 122	4	20
Toluene	1.0		25.0	32.2	*	ug/L		125	80 - 122	2	15
trans-1,2-Dichloroethene	1.0	U	25.0	32.1	*	ug/L		129	73 - 127	2	20
Trichloroethene	1.0	U	25.0	31.9	*	ug/L		128	74 - 123	0	16
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	96		66 - 137								
4-Bromofluorobenzene (Surr)	106		73 - 120								
Dibromofluoromethane (Surr)	100		60 - 140								
Toluene-d8 (Surr)	102		71 - 126								

Lab Sample ID: MB 480-239404/6

Matrix: Water

Analysis Batch: 239404

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	1.0	U	1.0	0.82	ug/L			04/29/15 14:36	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/29/15 14:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/29/15 14:36	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/29/15 14:36	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			04/29/15 14:36	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/29/15 14:36	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

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

Lab Sample ID: MB 480-239404/6

Matrix: Water

Analysis Batch: 239404

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/29/15 14:36	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/29/15 14:36	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/29/15 14:36	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/29/15 14:36	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/29/15 14:36	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/29/15 14:36	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/29/15 14:36	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/29/15 14:36	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/29/15 14:36	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/29/15 14:36	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/29/15 14:36	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			04/29/15 14:36	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/29/15 14:36	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/29/15 14:36	1
Acetone	10	U	10	3.0	ug/L			04/29/15 14:36	1
Benzene	1.0	U	1.0	0.41	ug/L			04/29/15 14:36	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/29/15 14:36	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/29/15 14:36	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/29/15 14:36	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/29/15 14:36	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/29/15 14:36	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/29/15 14:36	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/29/15 14:36	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/29/15 14:36	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/29/15 14:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/29/15 14:36	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/29/15 14:36	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/29/15 14:36	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/29/15 14:36	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/29/15 14:36	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/29/15 14:36	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/29/15 14:36	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			04/29/15 14:36	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/29/15 14:36	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/29/15 14:36	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/29/15 14:36	1
Styrene	1.0	U	1.0	0.73	ug/L			04/29/15 14:36	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/29/15 14:36	1
Toluene	1.0	U	1.0	0.51	ug/L			04/29/15 14:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/29/15 14:36	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/29/15 14:36	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/29/15 14:36	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/29/15 14:36	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			04/29/15 14:36	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/29/15 14:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		66 - 137		04/29/15 14:36	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

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

Lab Sample ID: MB 480-239404/6

Matrix: Water

Analysis Batch: 239404

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		73 - 120		04/29/15 14:36	1
Dibromofluoromethane (Surr)	107		60 - 140		04/29/15 14:36	1
Toluene-d8 (Surr)	94		71 - 126		04/29/15 14:36	1

Lab Sample ID: LCS 480-239404/4

Matrix: Water

Analysis Batch: 239404

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	23.6		ug/L		94	58 - 121
1,2,4-Trimethylbenzene	25.0	25.6		ug/L		102	76 - 121
1,2-Dichlorobenzene	25.0	25.0		ug/L		100	80 - 124
1,2-Dichloroethane	25.0	26.7		ug/L		107	75 - 127
1,3,5-Trimethylbenzene	25.0	25.0		ug/L		100	77 - 121
Benzene	25.0	23.3		ug/L		93	71 - 124
Chlorobenzene	25.0	24.3		ug/L		97	72 - 120
cis-1,2-Dichloroethene	25.0	24.0		ug/L		96	74 - 124
Ethylbenzene	25.0	23.3		ug/L		93	77 - 123
Methyl tert-butyl ether	25.0	26.0		ug/L		104	64 - 127
Tetrachloroethene	25.0	24.0		ug/L		96	74 - 122
Toluene	25.0	23.3		ug/L		93	80 - 122
trans-1,2-Dichloroethene	25.0	24.1		ug/L		96	73 - 127
Trichloroethene	25.0	24.4		ug/L		98	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		66 - 137
4-Bromofluorobenzene (Surr)	102		73 - 120
Dibromofluoromethane (Surr)	102		60 - 140
Toluene-d8 (Surr)	95		71 - 126

Lab Sample ID: MB 480-239512/6

Matrix: Water

Analysis Batch: 239512

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	1.0	U	1.0	0.82	ug/L			04/30/15 00:39	1
1,1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/30/15 00:39	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/30/15 00:39	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/30/15 00:39	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			04/30/15 00:39	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/30/15 00:39	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/30/15 00:39	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/30/15 00:39	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/30/15 00:39	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/30/15 00:39	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/30/15 00:39	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/30/15 00:39	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

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

Lab Sample ID: MB 480-239512/6

Matrix: Water

Analysis Batch: 239512

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	1.0	U	1.0	0.21	ug/L			04/30/15 00:39	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/30/15 00:39	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/30/15 00:39	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/30/15 00:39	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/30/15 00:39	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			04/30/15 00:39	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/30/15 00:39	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/30/15 00:39	1
Acetone	10	U	10	3.0	ug/L			04/30/15 00:39	1
Benzene	1.0	U	1.0	0.41	ug/L			04/30/15 00:39	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/30/15 00:39	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/30/15 00:39	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/30/15 00:39	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/30/15 00:39	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/30/15 00:39	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/30/15 00:39	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/30/15 00:39	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/30/15 00:39	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/30/15 00:39	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/30/15 00:39	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/30/15 00:39	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/30/15 00:39	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/30/15 00:39	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/30/15 00:39	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/30/15 00:39	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/30/15 00:39	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			04/30/15 00:39	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/30/15 00:39	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/30/15 00:39	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/30/15 00:39	1
Styrene	1.0	U	1.0	0.73	ug/L			04/30/15 00:39	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/30/15 00:39	1
Toluene	1.0	U	1.0	0.51	ug/L			04/30/15 00:39	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/30/15 00:39	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/30/15 00:39	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/30/15 00:39	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/30/15 00:39	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			04/30/15 00:39	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/30/15 00:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		66 - 137		04/30/15 00:39	1
4-Bromofluorobenzene (Surr)	99		73 - 120		04/30/15 00:39	1
Dibromofluoromethane (Surr)	108		60 - 140		04/30/15 00:39	1
Toluene-d8 (Surr)	91		71 - 126		04/30/15 00:39	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

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

Lab Sample ID: LCS 480-239512/4

Matrix: Water

Analysis Batch: 239512

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	24.5		ug/L		98	58 - 121
1,2,4-Trimethylbenzene	25.0	24.7		ug/L		99	76 - 121
1,2-Dichlorobenzene	25.0	23.9		ug/L		96	80 - 124
1,2-Dichloroethane	25.0	26.4		ug/L		106	75 - 127
1,3,5-Trimethylbenzene	25.0	24.2		ug/L		97	77 - 121
Benzene	25.0	23.0		ug/L		92	71 - 124
Chlorobenzene	25.0	23.7		ug/L		95	72 - 120
cis-1,2-Dichloroethene	25.0	23.8		ug/L		95	74 - 124
Ethylbenzene	25.0	23.3		ug/L		93	77 - 123
Methyl tert-butyl ether	25.0	25.2		ug/L		101	64 - 127
Tetrachloroethene	25.0	23.8		ug/L		95	74 - 122
Toluene	25.0	22.7		ug/L		91	80 - 122
trans-1,2-Dichloroethene	25.0	24.0		ug/L		96	73 - 127
Trichloroethene	25.0	24.2		ug/L		97	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		66 - 137
4-Bromofluorobenzene (Surr)	103		73 - 120
Dibromofluoromethane (Surr)	104		60 - 140
Toluene-d8 (Surr)	95		71 - 126

Lab Sample ID: 480-78924-22 MS

Matrix: Water

Analysis Batch: 239512

Client Sample ID: 4009-29S

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	38		500	565		ug/L		105	71 - 129
1,1-Dichloroethene	37		500	545		ug/L		102	58 - 121
1,2,4-Trimethylbenzene	20	U	500	496		ug/L		99	76 - 121
1,2-Dichlorobenzene	20	U	500	478		ug/L		96	80 - 124
1,2-Dichloroethane	20	U	500	572		ug/L		114	75 - 127
1,3,5-Trimethylbenzene	20	U	500	499		ug/L		100	77 - 121
Benzene	20	U	500	485		ug/L		97	71 - 124
Chlorobenzene	20	U	500	493		ug/L		99	72 - 120
cis-1,2-Dichloroethene	320		500	782		ug/L		92	74 - 124
Ethylbenzene	20	U	500	492		ug/L		98	77 - 123
Methyl tert-butyl ether	20	U	500	492		ug/L		98	64 - 127
Tetrachloroethene	20	U	500	515		ug/L		103	74 - 122
Toluene	20	U	500	480		ug/L		96	80 - 122
trans-1,2-Dichloroethene	20	U	500	506		ug/L		101	73 - 127
Trichloroethene	20	U	500	515		ug/L		103	74 - 123

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		66 - 137
4-Bromofluorobenzene (Surr)	102		73 - 120
Dibromofluoromethane (Surr)	107		60 - 140

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

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

Lab Sample ID: 480-78924-22 MS

Matrix: Water

Analysis Batch: 239512

Client Sample ID: 4009-29S

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	97		71 - 126

Lab Sample ID: 480-78924-22 MSD

Matrix: Water

Analysis Batch: 239512

Client Sample ID: 4009-29S

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	38		500	527		ug/L		98	71 - 129	7	20
1,1-Dichloroethene	37		500	510		ug/L		95	58 - 121	7	16
1,2,4-Trimethylbenzene	20	U	500	491		ug/L		98	76 - 121	1	20
1,2-Dichlorobenzene	20	U	500	478		ug/L		96	80 - 124	0	20
1,2-Dichloroethane	20	U	500	539		ug/L		108	75 - 127	6	20
1,3,5-Trimethylbenzene	20	U	500	490		ug/L		98	77 - 121	2	20
Benzene	20	U	500	461		ug/L		92	71 - 124	5	13
Chlorobenzene	20	U	500	480		ug/L		96	72 - 120	3	25
cis-1,2-Dichloroethene	320		500	735		ug/L		82	74 - 124	6	15
Ethylbenzene	20	U	500	469		ug/L		94	77 - 123	5	15
Methyl tert-butyl ether	20	U	500	480		ug/L		96	64 - 127	2	37
Tetrachloroethene	20	U	500	488		ug/L		98	74 - 122	5	20
Toluene	20	U	500	466		ug/L		93	80 - 122	3	15
trans-1,2-Dichloroethene	20	U	500	482		ug/L		96	73 - 127	5	20
Trichloroethene	20	U	500	484		ug/L		97	74 - 123	6	16

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	112		66 - 137
4-Bromofluorobenzene (Surr)	106		73 - 120
Dibromofluoromethane (Surr)	107		60 - 140
Toluene-d8 (Surr)	102		71 - 126

Lab Sample ID: MB 480-239987/7

Matrix: Water

Analysis Batch: 239987

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	1.0	U	1.0	0.82	ug/L			05/01/15 13:43	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			05/01/15 13:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			05/01/15 13:43	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			05/01/15 13:43	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			05/01/15 13:43	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			05/01/15 13:43	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			05/01/15 13:43	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			05/01/15 13:43	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			05/01/15 13:43	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			05/01/15 13:43	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			05/01/15 13:43	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			05/01/15 13:43	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			05/01/15 13:43	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			05/01/15 13:43	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

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

Lab Sample ID: MB 480-239987/7

Matrix: Water

Analysis Batch: 239987

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			05/01/15 13:43	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			05/01/15 13:43	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			05/01/15 13:43	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			05/01/15 13:43	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			05/01/15 13:43	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			05/01/15 13:43	1
Acetone	10	U	10	3.0	ug/L			05/01/15 13:43	1
Benzene	1.0	U	1.0	0.41	ug/L			05/01/15 13:43	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			05/01/15 13:43	1
Bromoform	1.0	U	1.0	0.26	ug/L			05/01/15 13:43	1
Bromomethane	1.0	U	1.0	0.69	ug/L			05/01/15 13:43	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			05/01/15 13:43	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			05/01/15 13:43	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			05/01/15 13:43	1
Chloroethane	1.0	U	1.0	0.32	ug/L			05/01/15 13:43	1
Chloroform	1.0	U	1.0	0.34	ug/L			05/01/15 13:43	1
Chloromethane	1.0	U	1.0	0.35	ug/L			05/01/15 13:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			05/01/15 13:43	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			05/01/15 13:43	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			05/01/15 13:43	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			05/01/15 13:43	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			05/01/15 13:43	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			05/01/15 13:43	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			05/01/15 13:43	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			05/01/15 13:43	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			05/01/15 13:43	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			05/01/15 13:43	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			05/01/15 13:43	1
Styrene	1.0	U	1.0	0.73	ug/L			05/01/15 13:43	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			05/01/15 13:43	1
Toluene	1.0	U	1.0	0.51	ug/L			05/01/15 13:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			05/01/15 13:43	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			05/01/15 13:43	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			05/01/15 13:43	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			05/01/15 13:43	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			05/01/15 13:43	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			05/01/15 13:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		66 - 137		05/01/15 13:43	1
4-Bromofluorobenzene (Surr)	96		73 - 120		05/01/15 13:43	1
Dibromofluoromethane (Surr)	96		60 - 140		05/01/15 13:43	1
Toluene-d8 (Surr)	96		71 - 126		05/01/15 13:43	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

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

Lab Sample ID: LCS 480-239987/5

Matrix: Water

Analysis Batch: 239987

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	22.6		ug/L		90	58 - 121
1,2,4-Trimethylbenzene	25.0	23.9		ug/L		96	76 - 121
1,2-Dichlorobenzene	25.0	23.6		ug/L		94	80 - 124
1,2-Dichloroethane	25.0	24.5		ug/L		98	75 - 127
1,3,5-Trimethylbenzene	25.0	23.8		ug/L		95	77 - 121
Benzene	25.0	23.8		ug/L		95	71 - 124
Chlorobenzene	25.0	23.5		ug/L		94	72 - 120
cis-1,2-Dichloroethene	25.0	23.5		ug/L		94	74 - 124
Ethylbenzene	25.0	23.8		ug/L		95	77 - 123
Methyl tert-butyl ether	25.0	24.6		ug/L		98	64 - 127
Tetrachloroethene	25.0	23.1		ug/L		92	74 - 122
Toluene	25.0	23.2		ug/L		93	80 - 122
trans-1,2-Dichloroethene	25.0	23.4		ug/L		93	73 - 127
Trichloroethene	25.0	23.5		ug/L		94	74 - 123

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

Lab Sample ID: 480-78924-19 MS

Matrix: Water

Analysis Batch: 239987

Client Sample ID: 4009-271

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	1.0	U	25.0	23.1		ug/L		93	71 - 129
1,1-Dichloroethene	1.0	U	25.0	22.5		ug/L		90	58 - 121
1,2,4-Trimethylbenzene	1.0	U	25.0	22.5		ug/L		90	76 - 121
1,2-Dichlorobenzene	1.0	U	25.0	22.0		ug/L		88	80 - 124
1,2-Dichloroethane	1.0	U	25.0	23.3		ug/L		93	75 - 127
1,3,5-Trimethylbenzene	1.0	U	25.0	22.5		ug/L		90	77 - 121
Benzene	1.0	U	25.0	22.9		ug/L		92	71 - 124
Chlorobenzene	1.0	U	25.0	21.5		ug/L		86	72 - 120
cis-1,2-Dichloroethene	1.0	U	25.0	22.5		ug/L		90	74 - 124
Ethylbenzene	1.0	U	25.0	22.3		ug/L		89	77 - 123
Methyl tert-butyl ether	1.0	U	25.0	22.9		ug/L		92	64 - 127
Tetrachloroethene	1.0	U	25.0	21.8		ug/L		87	74 - 122
Toluene	0.87	J	25.0	22.4		ug/L		86	80 - 122
trans-1,2-Dichloroethene	1.0	U	25.0	22.5		ug/L		90	73 - 127
Trichloroethene	1.0	U	25.0	22.8		ug/L		91	74 - 123

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

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

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

Lab Sample ID: 480-78924-19 MS

Matrix: Water

Analysis Batch: 239987

Client Sample ID: 4009-271

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	97		71 - 126

Lab Sample ID: 480-78924-19 MSD

Matrix: Water

Analysis Batch: 239987

Client Sample ID: 4009-271

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	1.0	U	25.0	26.1		ug/L		104	71 - 129	12	20
1,1-Dichloroethene	1.0	U	25.0	25.3		ug/L		101	58 - 121	12	16
1,2,4-Trimethylbenzene	1.0	U	25.0	25.8		ug/L		103	76 - 121	13	20
1,2-Dichlorobenzene	1.0	U	25.0	24.8		ug/L		99	80 - 124	12	20
1,2-Dichloroethane	1.0	U	25.0	25.9		ug/L		104	75 - 127	11	20
1,3,5-Trimethylbenzene	1.0	U	25.0	25.9		ug/L		104	77 - 121	14	20
Benzene	1.0	U	25.0	25.9		ug/L		104	71 - 124	12	13
Chlorobenzene	1.0	U	25.0	24.9		ug/L		99	72 - 120	15	25
cis-1,2-Dichloroethene	1.0	U	25.0	25.0		ug/L		100	74 - 124	11	15
Ethylbenzene	1.0	U	25.0	25.7		ug/L		103	77 - 123	14	15
Methyl tert-butyl ether	1.0	U	25.0	25.3		ug/L		101	64 - 127	10	37
Tetrachloroethene	1.0	U	25.0	25.2		ug/L		101	74 - 122	14	20
Toluene	0.87	J	25.0	25.9		ug/L		100	80 - 122	14	15
trans-1,2-Dichloroethene	1.0	U	25.0	25.1		ug/L		100	73 - 127	11	20
Trichloroethene	1.0	U	25.0	25.8		ug/L		103	74 - 123	12	16

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

TestAmerica Buffalo

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

GC/MS VOA

Analysis Batch: 239009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-78924-1	WELL 1-2A (SAMPLE INFLUENT)	Total/NA	Water	8260C	
480-78924-2	WELL 1-3 (SAMPLE INFLUENT)	Total/NA	Water	8260C	
480-78924-3	4009-9	Total/NA	Water	8260C	
480-78924-4	4009-10	Total/NA	Water	8260C	
480-78924-5	4009-11	Total/NA	Water	8260C	
480-78924-6	4009-11A	Total/NA	Water	8260C	
480-78924-8	4009-13	Total/NA	Water	8260C	
480-78924-9	4009-13A	Total/NA	Water	8260C	
480-78924-10	4009-14	Total/NA	Water	8260C	
480-78924-11	4009-15	Total/NA	Water	8260C	
480-78924-12	4009-16	Total/NA	Water	8260C	
480-78924-13	4009-16A	Total/NA	Water	8260C	
LCS 480-239009/5	Lab Control Sample	Total/NA	Water	8260C	
MB 480-239009/15	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 239249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-78924-7	4009-12	Total/NA	Water	8260C	
480-78924-10 MS	4009-14	Total/NA	Water	8260C	
480-78924-10 MSD	4009-14	Total/NA	Water	8260C	
480-78924-17	4009-22	Total/NA	Water	8260C	
480-78924-18	4009-27S	Total/NA	Water	8260C	
480-78924-20	4009-27D	Total/NA	Water	8260C	
480-78924-21	4009-28	Total/NA	Water	8260C	
480-78924-24	4009-29D	Total/NA	Water	8260C	
480-78924-28	DUP 1	Total/NA	Water	8260C	
480-78924-30	TRIP BLANK	Total/NA	Water	8260C	
480-78924-31	FIELD BLANK	Total/NA	Water	8260C	
LCS 480-239249/4	Lab Control Sample	Total/NA	Water	8260C	
MB 480-239249/6	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 239404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-78924-15	4009-19	Total/NA	Water	8260C	
480-78924-16	4009-21	Total/NA	Water	8260C	
480-78924-19	4009-27I	Total/NA	Water	8260C	
480-78924-25	4009-30	Total/NA	Water	8260C	
480-78924-26	4009-30A	Total/NA	Water	8260C	
480-78924-27	WELL 1-1	Total/NA	Water	8260C	
480-78924-28 - DL	DUP 1	Total/NA	Water	8260C	
480-78924-29	DUP 2	Total/NA	Water	8260C	
LCS 480-239404/4	Lab Control Sample	Total/NA	Water	8260C	
MB 480-239404/6	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 239512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-78924-22	4009-29S	Total/NA	Water	8260C	
480-78924-22 MS	4009-29S	Total/NA	Water	8260C	
480-78924-22 MSD	4009-29S	Total/NA	Water	8260C	
480-78924-23	4009-29I	Total/NA	Water	8260C	
LCS 480-239512/4	Lab Control Sample	Total/NA	Water	8260C	

TestAmerica Buffalo

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

GC/MS VOA (Continued)

Analysis Batch: 239512 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-239512/6	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 239987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-78924-19 MS	4009-27I	Total/NA	Water	8260C	
480-78924-19 MSD	4009-27I	Total/NA	Water	8260C	
LCS 480-239987/5	Lab Control Sample	Total/NA	Water	8260C	
MB 480-239987/7	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: WELL 1-2A (SAMPLE INFLUENT)

Lab Sample ID: 480-78924-1

Date Collected: 04/20/15 11:00

Matrix: Water

Date Received: 04/22/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	239009	04/28/15 19:46	GTG	TAL BUF

Client Sample ID: WELL 1-3 (SAMPLE INFLUENT)

Lab Sample ID: 480-78924-2

Date Collected: 04/20/15 11:10

Matrix: Water

Date Received: 04/22/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	239009	04/28/15 19:22	GTG	TAL BUF

Client Sample ID: 4009-9

Lab Sample ID: 480-78924-3

Date Collected: 04/20/15 14:30

Matrix: Water

Date Received: 04/22/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	239009	04/28/15 18:58	GTG	TAL BUF

Client Sample ID: 4009-10

Lab Sample ID: 480-78924-4

Date Collected: 04/20/15 14:40

Matrix: Water

Date Received: 04/22/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	239009	04/28/15 18:35	GTG	TAL BUF

Client Sample ID: 4009-11

Lab Sample ID: 480-78924-5

Date Collected: 04/20/15 14:50

Matrix: Water

Date Received: 04/22/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	239009	04/28/15 18:11	GTG	TAL BUF

Client Sample ID: 4009-11A

Lab Sample ID: 480-78924-6

Date Collected: 04/20/15 14:55

Matrix: Water

Date Received: 04/22/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	239009	04/28/15 17:47	GTG	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: 4009-12

Lab Sample ID: 480-78924-7

Date Collected: 04/20/15 12:00

Matrix: Water

Date Received: 04/22/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	239249	04/29/15 01:33	JWG	TAL BUF

Client Sample ID: 4009-13

Lab Sample ID: 480-78924-8

Date Collected: 04/20/15 14:10

Matrix: Water

Date Received: 04/22/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	239009	04/28/15 16:59	GTG	TAL BUF

Client Sample ID: 4009-13A

Lab Sample ID: 480-78924-9

Date Collected: 04/20/15 14:20

Matrix: Water

Date Received: 04/22/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	239009	04/28/15 16:35	GTG	TAL BUF

Client Sample ID: 4009-14

Lab Sample ID: 480-78924-10

Date Collected: 04/20/15 10:05

Matrix: Water

Date Received: 04/22/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	239009	04/28/15 16:11	GTG	TAL BUF

Client Sample ID: 4009-15

Lab Sample ID: 480-78924-11

Date Collected: 04/20/15 12:50

Matrix: Water

Date Received: 04/22/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	239009	04/28/15 15:47	GTG	TAL BUF

Client Sample ID: 4009-16

Lab Sample ID: 480-78924-12

Date Collected: 04/20/15 11:30

Matrix: Water

Date Received: 04/22/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	239009	04/28/15 15:23	GTG	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: 4009-16A

Lab Sample ID: 480-78924-13

Date Collected: 04/20/15 11:40

Matrix: Water

Date Received: 04/22/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	239009	04/28/15 14:59	GTG	TAL BUF

Client Sample ID: 4009-19

Lab Sample ID: 480-78924-15

Date Collected: 04/20/15 10:30

Matrix: Water

Date Received: 04/22/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	239404	04/29/15 15:45	EDB	TAL BUF

Client Sample ID: 4009-21

Lab Sample ID: 480-78924-16

Date Collected: 04/20/15 10:20

Matrix: Water

Date Received: 04/22/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	239404	04/29/15 16:14	EDB	TAL BUF

Client Sample ID: 4009-22

Lab Sample ID: 480-78924-17

Date Collected: 04/20/15 09:55

Matrix: Water

Date Received: 04/22/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	239249	04/29/15 02:45	JWG	TAL BUF

Client Sample ID: 4009-27S

Lab Sample ID: 480-78924-18

Date Collected: 04/20/15 13:40

Matrix: Water

Date Received: 04/22/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	239249	04/29/15 03:08	JWG	TAL BUF

Client Sample ID: 4009-27I

Lab Sample ID: 480-78924-19

Date Collected: 04/20/15 13:45

Matrix: Water

Date Received: 04/22/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	239404	04/29/15 16:42	EDB	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: 4009-27D

Lab Sample ID: 480-78924-20

Date Collected: 04/20/15 13:50

Matrix: Water

Date Received: 04/22/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	239249	04/29/15 03:32	JWG	TAL BUF

Client Sample ID: 4009-28

Lab Sample ID: 480-78924-21

Date Collected: 04/20/15 09:45

Matrix: Water

Date Received: 04/22/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	239249	04/29/15 03:56	JWG	TAL BUF

Client Sample ID: 4009-29S

Lab Sample ID: 480-78924-22

Date Collected: 04/20/15 13:15

Matrix: Water

Date Received: 04/22/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	239512	04/30/15 01:18	JWG	TAL BUF

Client Sample ID: 4009-29I

Lab Sample ID: 480-78924-23

Date Collected: 04/20/15 13:20

Matrix: Water

Date Received: 04/22/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		40	239512	04/30/15 01:46	JWG	TAL BUF

Client Sample ID: 4009-29D

Lab Sample ID: 480-78924-24

Date Collected: 04/20/15 13:25

Matrix: Water

Date Received: 04/22/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	239249	04/29/15 05:09	JWG	TAL BUF

Client Sample ID: 4009-30

Lab Sample ID: 480-78924-25

Date Collected: 04/20/15 11:45

Matrix: Water

Date Received: 04/22/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	239404	04/29/15 18:07	EDB	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Client Sample ID: 4009-30A

Lab Sample ID: 480-78924-26

Date Collected: 04/20/15 11:50

Matrix: Water

Date Received: 04/22/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	239404	04/29/15 18:35	EDB	TAL BUF

Client Sample ID: WELL 1-1

Lab Sample ID: 480-78924-27

Date Collected: 04/20/15 15:10

Matrix: Water

Date Received: 04/22/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	239404	04/29/15 19:03	EDB	TAL BUF

Client Sample ID: DUP 1

Lab Sample ID: 480-78924-28

Date Collected: 04/20/15 00:00

Matrix: Water

Date Received: 04/22/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C	DL	25	239404	04/29/15 19:31	EDB	TAL BUF
Total/NA	Analysis	8260C		10	239249	04/29/15 06:44	JWG	TAL BUF

Client Sample ID: DUP 2

Lab Sample ID: 480-78924-29

Date Collected: 04/20/15 00:00

Matrix: Water

Date Received: 04/22/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	239404	04/29/15 20:00	EDB	TAL BUF

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-78924-30

Date Collected: 04/20/15 00:00

Matrix: Water

Date Received: 04/22/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	239249	04/29/15 07:32	JWG	TAL BUF

Client Sample ID: FIELD BLANK

Lab Sample ID: 480-78924-31

Date Collected: 04/20/15 15:20

Matrix: Water

Date Received: 04/22/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	239249	04/29/15 07:55	JWG	TAL BUF

Laboratory References:

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

TestAmerica Buffalo

Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

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

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	1,2,3-Trimethylbenzene

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

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: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-78924-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-78924-1	WELL 1-2A (SAMPLE INFLUENT)	Water	04/20/15 11:00	04/22/15 09:00
480-78924-2	WELL 1-3 (SAMPLE INFLUENT)	Water	04/20/15 11:10	04/22/15 09:00
480-78924-3	4009-9	Water	04/20/15 14:30	04/22/15 09:00
480-78924-4	4009-10	Water	04/20/15 14:40	04/22/15 09:00
480-78924-5	4009-11	Water	04/20/15 14:50	04/22/15 09:00
480-78924-6	4009-11A	Water	04/20/15 14:55	04/22/15 09:00
480-78924-7	4009-12	Water	04/20/15 12:00	04/22/15 09:00
480-78924-8	4009-13	Water	04/20/15 14:10	04/22/15 09:00
480-78924-9	4009-13A	Water	04/20/15 14:20	04/22/15 09:00
480-78924-10	4009-14	Water	04/20/15 10:05	04/22/15 09:00
480-78924-11	4009-15	Water	04/20/15 12:50	04/22/15 09:00
480-78924-12	4009-16	Water	04/20/15 11:30	04/22/15 09:00
480-78924-13	4009-16A	Water	04/20/15 11:40	04/22/15 09:00
480-78924-15	4009-19	Water	04/20/15 10:30	04/22/15 09:00
480-78924-16	4009-21	Water	04/20/15 10:20	04/22/15 09:00
480-78924-17	4009-22	Water	04/20/15 09:55	04/22/15 09:00
480-78924-18	4009-27S	Water	04/20/15 13:40	04/22/15 09:00
480-78924-19	4009-27I	Water	04/20/15 13:45	04/22/15 09:00
480-78924-20	4009-27D	Water	04/20/15 13:50	04/22/15 09:00
480-78924-21	4009-28	Water	04/20/15 09:45	04/22/15 09:00
480-78924-22	4009-29S	Water	04/20/15 13:15	04/22/15 09:00
480-78924-23	4009-29I	Water	04/20/15 13:20	04/22/15 09:00
480-78924-24	4009-29D	Water	04/20/15 13:25	04/22/15 09:00
480-78924-25	4009-30	Water	04/20/15 11:45	04/22/15 09:00
480-78924-26	4009-30A	Water	04/20/15 11:50	04/22/15 09:00
480-78924-27	WELL 1-1	Water	04/20/15 15:10	04/22/15 09:00
480-78924-28	DUP 1	Water	04/20/15 00:00	04/22/15 09:00
480-78924-29	DUP 2	Water	04/20/15 00:00	04/22/15 09:00
480-78924-30	TRIP BLANK	Water	04/20/15 00:00	04/22/15 09:00
480-78924-31	FIELD BLANK	Water	04/20/15 15:20	04/22/15 09:00

TestAmerica Buffalo

Chain of Custody Record

TestAmerica



480-78924 Chain of Custody

Client Information		Lab PM:		Carrier							
Company: ARCADIS U.S. Inc.		Stone, Judy L									
Address: 855 Route 146 Suite 210		E-Mail: judy.stone@testamericainc.com									
City: Clifton Park											
State, Zip: NY, 12065											
Phone: 518-250-7300(Tel)											
Email: katie.bidwell@arcadis-us.com											
Project Name: NYSDEC-Standby VESTAL											
Site: Vestal											
Due Date Requested:		Analysis Requested									
TAT Requested (days): standard											
PO #: Project 00266401.0000											
WO #: Contract D007618											
Project #: 48005198											
SSOW#:											
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/oil, ST=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - (MOD) TCL list OL.M04.2 + TMB	Total Number of Containers	Preservation Codes:	Special Instructions/Note:	
Well 1-2A (sample influent)	4/20/15	11:00	G	Water	N	X		X	A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		
Well 1-3 (sample influent)	4/20/15	11:10		Water	N			X			
4009-9	4/20/15	14:30		Water	N			X			
4009-10	4/20/15	14:40		Water	N			X			
4009-11	4/20/15	14:50		Water	N			X			
4009-11A	4/20/15	14:55		Water	N			X			
4009-12	4/20/15	12:00		Water	N			X			
4009-13	4/20/15	14:10		Water	N			X			
4009-13A	4/20/15	14:20		Water	N			X			
4009-14	4/20/15	10:05		Water	N			X			
4009-15	4/20/15	12:50		Water	N			X			
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)											
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months											
Special Instructions/IOC Requirements:											
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:					
Relinquished by: <i>Katie Bidwell</i>		Date/Time: 04/20/15 16:45		Company: ARCADIS		Received by: <i>Judy L Stone</i>		Date/Time: 4/22/15 09:00		Company: TA 358	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks: # 1 3.4					

Chain of Custody Record

Client Information		Lab PM		Carrier Tracking No(s)		COC No			
Client Contact: Ms. Katie Bidwell		Stone, Judy L				480-56262-16826.2			
Company: ARCADIS U.S. Inc		E-Mail: judy.stone@testamericainc.com				Page: Page 2 of 4			
Address: 855 Route 146 Suite 210 City: Clifton Park State, Zip: NY, 12065		Due Date Requested: TAT Requested (days): Standard		Analysis Requested		Job #:			
Phone: 518-250-7300(Tel)		PO #: Project 00268401.0000				Preservation Codes:			
Email: katie.bidwell@arcadis-us.com		WO #: Contract D007618				A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)			
Project Name: NYSDEC-Standby VESTAL		Project #: 48005198				Other:			
Site: VESTAL		SSOW#:							
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=biological, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - (MOD) TCL list OL.M04.2 + TMB	Total Number of containers	Special Instructions/Note:
4009-16	4/20/15	11:30	G	Water	N	N		X	
4009-16A	4/20/15	11:40		Water	N	N		M	
4009-18	4/20/15	11:40		Water	N	N		M	
4009-19	4/20/15	10:30		Water	N	N		M	
4009-21	4/20/15	10:20		Water	N	N		M	
4009-22	09:55	11:41/15		Water	N	N		M	
4009-27S	4/20/15	13:40		Water	N	N		M	
4009-27I	4/20/15	13:45		Water	N	N		M	
4009-27D	4/20/15	13:50		Water	N	N		M	
4009-28	09:45	11:41/15		Water	N	N		M	
4009-29S	4/20/15	13:15		Water	N	N		M	
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological									
Deliverable Requested: ☒ I, III, IV, Other (specify)									
Empty Kit Relinquished by:									
Relinquished by: <i>Katie Bidwell</i> Date/Time: 4/20/15 11:45 Company: ARCADIS									
Relinquished by: <i>Judy Stone</i> Date/Time: 4/20/15 09:00 Company: TIA									
Relinquished by: <i>Judy Stone</i> Date/Time: 4/20/15 09:00 Company: TIA									
Custody Seals Intact: ☒ Yes ☐ No									
Custody Seal No.: #1 3.4									

Chain of Custody Record

Client Information		Sampler: <u>A. Goodman</u>		Lab PM: <u>Stone, Judy L</u>		Carrier Tracking No(s):		COC No: <u>480-66262-16826.3</u>	
Client Contact:		Phone: <u>518-250-7300</u>		E-Mail: <u>judy.stone@testamericainc.com</u>		Page: <u>3 of 4</u>		Job #:	
Company:		ARCADIS U.S. Inc		Due Date Requested:		Analysis Requested		Preservation Codes:	
Address:		855 Route 146 Suite 210		TAT Requested (days):				A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4.5 Z - other (specify)	
City:		Clifton Park		PO #:					
State, Zip:		NY, 12065		WO #:					
Phone:		518-250-7300(Tel)		Project 00268401 0000					
Email:		katie.bidwell@arcadis-us.com		Contract D007618					
Project Name:		NYSDEC-Standby VESTAL		Project #:					
Site:		Vestal		SSOW#:					

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - (MOD) TCL list OL.M04.2	Total Number of containers	Special Instructions/Note:
4009-29I	4/20/15	13:20	G	Water	XX	XX	+	3	
4009-29D	4/20/15	13:25		Water	XX	XX		3	
4009-30	4/20/15	11:45		Water	XX	XX		3	
4009-30A	4/20/15	11:50		Water	XX	XX		3	
Well 1-1	4/20/15	15:10		Water	XX	XX		3	
Dup 1				Water	XX	XX		3	
Dup 2				Water	XX	XX		3	
MS-4009-14-MS	4/20/15	10:05		Water	XX	XX		3	DUPLICATE
MS-4009-14-MSD	4/20/15	10:05		Water	XX	XX		3	DUPLICATE
MS-4009-27E-MS	4/20/15	13:45		Water	XX	XX		3	MS/MSD
MS-4009-27E-MSD	4/20/15	13:45		Water	XX	XX		3	MS/MSD

Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
☐ Non-Hazard	☐ Flammable	☒ Return To Client	☐ Archive For _____ Months
☐ Skin Irritant	☐ Poison B	☒ Disposal By Lab	
Deliverable Requested: I (I)/III, IV, Other (specify)		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Method of Shipment:	
Relinquished by: <u>Quinn</u>		Date/Time: <u>4/22/15 0900</u>	
Relinquished by:		Date/Time:	
Relinquished by:		Date/Time:	
Custody Seals Intact: <u>Yes</u>		Cooler Temperature(s) °C and Other Remarks: <u>#1 3.4</u>	

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-78924-1

Login Number: 78924

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.	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	arcadis
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: 480-80043-1

Client Project/Site: NYSDEC-Standby VESTAL

For:

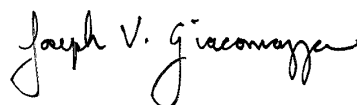
ARCADIS U.S. Inc

855 Route 146

Suite 210

Clifton Park, New York 12065

Attn: Jeremy Wyckoff



Authorized for release by:

5/26/2015 9:33:27 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: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-80043-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.
J	Indicates an estimated 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: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-80043-1

Job ID: 480-80043-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-80043-1

Receipt

The samples were received on 5/8/2015 3:30 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 continuing calibration verification (CCV) associated with batch 242921 recovered outside acceptance criteria, low biased, for Carbon Disulfide, Chlorodibromomethane. A reporting limit (RL) standard was analyzed, and the target analytes were detected. Since the associated samples were non-detect for these analytes, the data have been reported. WELL 1-2A (480-80043-1), WELL 1-3 (480-80043-2), 4009-18 (480-80043-3) and TRIP BLANK (480-80043-4)

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

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-80043-1

Client Sample ID: WELL 1-2A

Lab Sample ID: 480-80043-1

No Detections.

Client Sample ID: WELL 1-3

Lab Sample ID: 480-80043-2

No Detections.

Client Sample ID: 4009-18

Lab Sample ID: 480-80043-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.86	J	1.0	0.82	ug/L	1		8260C	Total/NA
2-Butanone (MEK)	3.3	J	10	1.3	ug/L	1		8260C	Total/NA
Acetone	10		10	3.0	ug/L	1		8260C	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-80043-4

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-80043-1

Client Sample ID: WELL 1-2A

Date Collected: 05/06/15 10:30

Date Received: 05/08/15 15:30

Lab Sample ID: 480-80043-1

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	1.0	U	1.0	0.82	ug/L			05/17/15 16:19	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			05/17/15 16:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			05/17/15 16:19	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			05/17/15 16:19	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			05/17/15 16:19	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			05/17/15 16:19	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			05/17/15 16:19	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			05/17/15 16:19	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			05/17/15 16:19	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			05/17/15 16:19	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			05/17/15 16:19	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			05/17/15 16:19	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			05/17/15 16:19	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			05/17/15 16:19	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			05/17/15 16:19	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			05/17/15 16:19	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			05/17/15 16:19	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			05/17/15 16:19	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			05/17/15 16:19	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			05/17/15 16:19	1
Acetone	10	U	10	3.0	ug/L			05/17/15 16:19	1
Benzene	1.0	U	1.0	0.41	ug/L			05/17/15 16:19	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			05/17/15 16:19	1
Bromoform	1.0	U	1.0	0.26	ug/L			05/17/15 16:19	1
Bromomethane	1.0	U	1.0	0.69	ug/L			05/17/15 16:19	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			05/17/15 16:19	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			05/17/15 16:19	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			05/17/15 16:19	1
Chloroethane	1.0	U	1.0	0.32	ug/L			05/17/15 16:19	1
Chloroform	1.0	U	1.0	0.34	ug/L			05/17/15 16:19	1
Chloromethane	1.0	U	1.0	0.35	ug/L			05/17/15 16:19	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			05/17/15 16:19	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			05/17/15 16:19	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			05/17/15 16:19	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			05/17/15 16:19	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			05/17/15 16:19	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			05/17/15 16:19	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			05/17/15 16:19	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			05/17/15 16:19	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			05/17/15 16:19	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			05/17/15 16:19	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			05/17/15 16:19	1
Styrene	1.0	U	1.0	0.73	ug/L			05/17/15 16:19	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			05/17/15 16:19	1
Toluene	1.0	U	1.0	0.51	ug/L			05/17/15 16:19	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			05/17/15 16:19	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			05/17/15 16:19	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			05/17/15 16:19	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			05/17/15 16:19	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-80043-1

Client Sample ID: WELL 1-2A

Date Collected: 05/06/15 10:30

Date Received: 05/08/15 15:30

Lab Sample ID: 480-80043-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.90	ug/L			05/17/15 16:19	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			05/17/15 16:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		66 - 137					05/17/15 16:19	1
4-Bromofluorobenzene (Surr)	99		73 - 120					05/17/15 16:19	1
Dibromofluoromethane (Surr)	92		60 - 140					05/17/15 16:19	1
Toluene-d8 (Surr)	96		71 - 126					05/17/15 16:19	1

Client Sample ID: WELL 1-3

Date Collected: 05/06/15 10:35

Date Received: 05/08/15 15:30

Lab Sample ID: 480-80043-2

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	1.0	U	1.0	0.82	ug/L			05/17/15 16:41	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			05/17/15 16:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			05/17/15 16:41	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			05/17/15 16:41	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			05/17/15 16:41	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			05/17/15 16:41	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			05/17/15 16:41	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			05/17/15 16:41	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			05/17/15 16:41	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			05/17/15 16:41	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			05/17/15 16:41	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			05/17/15 16:41	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			05/17/15 16:41	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			05/17/15 16:41	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			05/17/15 16:41	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			05/17/15 16:41	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			05/17/15 16:41	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			05/17/15 16:41	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			05/17/15 16:41	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			05/17/15 16:41	1
Acetone	10	U	10	3.0	ug/L			05/17/15 16:41	1
Benzene	1.0	U	1.0	0.41	ug/L			05/17/15 16:41	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			05/17/15 16:41	1
Bromoform	1.0	U	1.0	0.26	ug/L			05/17/15 16:41	1
Bromomethane	1.0	U	1.0	0.69	ug/L			05/17/15 16:41	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			05/17/15 16:41	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			05/17/15 16:41	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			05/17/15 16:41	1
Chloroethane	1.0	U	1.0	0.32	ug/L			05/17/15 16:41	1
Chloroform	1.0	U	1.0	0.34	ug/L			05/17/15 16:41	1
Chloromethane	1.0	U	1.0	0.35	ug/L			05/17/15 16:41	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			05/17/15 16:41	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			05/17/15 16:41	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			05/17/15 16:41	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			05/17/15 16:41	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-80043-1

Client Sample ID: WELL 1-3

Lab Sample ID: 480-80043-2

Date Collected: 05/06/15 10:35

Matrix: Water

Date Received: 05/08/15 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			05/17/15 16:41	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			05/17/15 16:41	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			05/17/15 16:41	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			05/17/15 16:41	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			05/17/15 16:41	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			05/17/15 16:41	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			05/17/15 16:41	1
Styrene	1.0	U	1.0	0.73	ug/L			05/17/15 16:41	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			05/17/15 16:41	1
Toluene	1.0	U	1.0	0.51	ug/L			05/17/15 16:41	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			05/17/15 16:41	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			05/17/15 16:41	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			05/17/15 16:41	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			05/17/15 16:41	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			05/17/15 16:41	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			05/17/15 16:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		66 - 137		05/17/15 16:41	1
4-Bromofluorobenzene (Surr)	99		73 - 120		05/17/15 16:41	1
Dibromofluoromethane (Surr)	97		60 - 140		05/17/15 16:41	1
Toluene-d8 (Surr)	98		71 - 126		05/17/15 16:41	1

Client Sample ID: 4009-18

Lab Sample ID: 480-80043-3

Date Collected: 05/06/15 10:40

Matrix: Water

Date Received: 05/08/15 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.86	J	1.0	0.82	ug/L			05/17/15 17:04	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			05/17/15 17:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			05/17/15 17:04	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			05/17/15 17:04	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			05/17/15 17:04	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			05/17/15 17:04	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			05/17/15 17:04	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			05/17/15 17:04	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			05/17/15 17:04	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			05/17/15 17:04	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			05/17/15 17:04	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			05/17/15 17:04	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			05/17/15 17:04	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			05/17/15 17:04	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			05/17/15 17:04	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			05/17/15 17:04	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			05/17/15 17:04	1
2-Butanone (MEK)	3.3	J	10	1.3	ug/L			05/17/15 17:04	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			05/17/15 17:04	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			05/17/15 17:04	1
Acetone	10		10	3.0	ug/L			05/17/15 17:04	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-80043-1

Client Sample ID: 4009-18

Date Collected: 05/06/15 10:40

Date Received: 05/08/15 15:30

Lab Sample ID: 480-80043-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			05/17/15 17:04	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			05/17/15 17:04	1
Bromoform	1.0	U	1.0	0.26	ug/L			05/17/15 17:04	1
Bromomethane	1.0	U	1.0	0.69	ug/L			05/17/15 17:04	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			05/17/15 17:04	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			05/17/15 17:04	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			05/17/15 17:04	1
Chloroethane	1.0	U	1.0	0.32	ug/L			05/17/15 17:04	1
Chloroform	1.0	U	1.0	0.34	ug/L			05/17/15 17:04	1
Chloromethane	1.0	U	1.0	0.35	ug/L			05/17/15 17:04	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			05/17/15 17:04	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			05/17/15 17:04	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			05/17/15 17:04	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			05/17/15 17:04	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			05/17/15 17:04	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			05/17/15 17:04	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			05/17/15 17:04	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			05/17/15 17:04	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			05/17/15 17:04	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			05/17/15 17:04	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			05/17/15 17:04	1
Styrene	1.0	U	1.0	0.73	ug/L			05/17/15 17:04	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			05/17/15 17:04	1
Toluene	1.0	U	1.0	0.51	ug/L			05/17/15 17:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			05/17/15 17:04	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			05/17/15 17:04	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			05/17/15 17:04	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			05/17/15 17:04	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			05/17/15 17:04	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			05/17/15 17:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		66 - 137		05/17/15 17:04	1
4-Bromofluorobenzene (Surr)	100		73 - 120		05/17/15 17:04	1
Dibromofluoromethane (Surr)	92		60 - 140		05/17/15 17:04	1
Toluene-d8 (Surr)	97		71 - 126		05/17/15 17:04	1

Client Sample ID: TRIP BLANK

Date Collected: 05/06/15 00:00

Date Received: 05/08/15 15:30

Lab Sample ID: 480-80043-4

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	1.0	U	1.0	0.82	ug/L			05/17/15 11:21	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			05/17/15 11:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			05/17/15 11:21	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			05/17/15 11:21	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			05/17/15 11:21	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			05/17/15 11:21	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			05/17/15 11:21	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-80043-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-80043-4

Date Collected: 05/06/15 00:00

Matrix: Water

Date Received: 05/08/15 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			05/17/15 11:21	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			05/17/15 11:21	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			05/17/15 11:21	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			05/17/15 11:21	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			05/17/15 11:21	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			05/17/15 11:21	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			05/17/15 11:21	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			05/17/15 11:21	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			05/17/15 11:21	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			05/17/15 11:21	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			05/17/15 11:21	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			05/17/15 11:21	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			05/17/15 11:21	1
Acetone	10	U	10	3.0	ug/L			05/17/15 11:21	1
Benzene	1.0	U	1.0	0.41	ug/L			05/17/15 11:21	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			05/17/15 11:21	1
Bromoform	1.0	U	1.0	0.26	ug/L			05/17/15 11:21	1
Bromomethane	1.0	U	1.0	0.69	ug/L			05/17/15 11:21	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			05/17/15 11:21	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			05/17/15 11:21	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			05/17/15 11:21	1
Chloroethane	1.0	U	1.0	0.32	ug/L			05/17/15 11:21	1
Chloroform	1.0	U	1.0	0.34	ug/L			05/17/15 11:21	1
Chloromethane	1.0	U	1.0	0.35	ug/L			05/17/15 11:21	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			05/17/15 11:21	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			05/17/15 11:21	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			05/17/15 11:21	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			05/17/15 11:21	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			05/17/15 11:21	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			05/17/15 11:21	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			05/17/15 11:21	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			05/17/15 11:21	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			05/17/15 11:21	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			05/17/15 11:21	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			05/17/15 11:21	1
Styrene	1.0	U	1.0	0.73	ug/L			05/17/15 11:21	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			05/17/15 11:21	1
Toluene	1.0	U	1.0	0.51	ug/L			05/17/15 11:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			05/17/15 11:21	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			05/17/15 11:21	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			05/17/15 11:21	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			05/17/15 11:21	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			05/17/15 11:21	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			05/17/15 11:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		66 - 137		05/17/15 11:21	1
4-Bromofluorobenzene (Surr)	101		73 - 120		05/17/15 11:21	1
Dibromofluoromethane (Surr)	92		60 - 140		05/17/15 11:21	1
Toluene-d8 (Surr)	97		71 - 126		05/17/15 11:21	1

TestAmerica Buffalo

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-80043-1

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)	BFB (73-120)	DBFM (60-140)	TOL (71-126)
480-80043-1	WELL 1-2A	104	99	92	96
480-80043-2	WELL 1-3	107	99	97	98
480-80043-3	4009-18	104	100	92	97
480-80043-4	TRIP BLANK	99	101	92	97
LCS 480-242921/5	Lab Control Sample	100	103	98	98
MB 480-242921/7	Method Blank	103	99	94	96

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-80043-1

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

Lab Sample ID: MB 480-242921/7

Matrix: Water

Analysis Batch: 242921

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	1.0	U	1.0	0.82	ug/L			05/17/15 10:34	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			05/17/15 10:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			05/17/15 10:34	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			05/17/15 10:34	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			05/17/15 10:34	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			05/17/15 10:34	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			05/17/15 10:34	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			05/17/15 10:34	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			05/17/15 10:34	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			05/17/15 10:34	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			05/17/15 10:34	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			05/17/15 10:34	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			05/17/15 10:34	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			05/17/15 10:34	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			05/17/15 10:34	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			05/17/15 10:34	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			05/17/15 10:34	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			05/17/15 10:34	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			05/17/15 10:34	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			05/17/15 10:34	1
Acetone	10	U	10	3.0	ug/L			05/17/15 10:34	1
Benzene	1.0	U	1.0	0.41	ug/L			05/17/15 10:34	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			05/17/15 10:34	1
Bromoform	1.0	U	1.0	0.26	ug/L			05/17/15 10:34	1
Bromomethane	1.0	U	1.0	0.69	ug/L			05/17/15 10:34	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			05/17/15 10:34	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			05/17/15 10:34	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			05/17/15 10:34	1
Chloroethane	1.0	U	1.0	0.32	ug/L			05/17/15 10:34	1
Chloroform	1.0	U	1.0	0.34	ug/L			05/17/15 10:34	1
Chloromethane	1.0	U	1.0	0.35	ug/L			05/17/15 10:34	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			05/17/15 10:34	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			05/17/15 10:34	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			05/17/15 10:34	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			05/17/15 10:34	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			05/17/15 10:34	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			05/17/15 10:34	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			05/17/15 10:34	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			05/17/15 10:34	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			05/17/15 10:34	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			05/17/15 10:34	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			05/17/15 10:34	1
Styrene	1.0	U	1.0	0.73	ug/L			05/17/15 10:34	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			05/17/15 10:34	1
Toluene	1.0	U	1.0	0.51	ug/L			05/17/15 10:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			05/17/15 10:34	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			05/17/15 10:34	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			05/17/15 10:34	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-80043-1

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

Lab Sample ID: MB 480-242921/7

Matrix: Water

Analysis Batch: 242921

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			05/17/15 10:34	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			05/17/15 10:34	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			05/17/15 10:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		66 - 137		05/17/15 10:34	1
4-Bromofluorobenzene (Surr)	99		73 - 120		05/17/15 10:34	1
Dibromofluoromethane (Surr)	94		60 - 140		05/17/15 10:34	1
Toluene-d8 (Surr)	96		71 - 126		05/17/15 10:34	1

Lab Sample ID: LCS 480-242921/5

Matrix: Water

Analysis Batch: 242921

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	22.3		ug/L		89	71 - 129
1,1-Dichloroethene	25.0	19.8		ug/L		79	58 - 121
1,2,4-Trimethylbenzene	25.0	21.5		ug/L		86	76 - 121
1,2-Dichlorobenzene	25.0	21.9		ug/L		88	80 - 124
1,2-Dichloroethane	25.0	21.6		ug/L		86	75 - 127
1,3,5-Trimethylbenzene	25.0	21.2		ug/L		85	77 - 121
Benzene	25.0	21.9		ug/L		87	71 - 124
Chlorobenzene	25.0	22.6		ug/L		90	72 - 120
cis-1,2-Dichloroethene	25.0	22.6		ug/L		90	74 - 124
Ethylbenzene	25.0	21.9		ug/L		88	77 - 123
Methyl tert-butyl ether	25.0	22.6		ug/L		91	64 - 127
Tetrachloroethene	25.0	22.1		ug/L		88	74 - 122
Toluene	25.0	21.3		ug/L		85	80 - 122
trans-1,2-Dichloroethene	25.0	22.5		ug/L		90	73 - 127
Trichloroethene	25.0	22.1		ug/L		89	74 - 123

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

TestAmerica Buffalo

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-80043-1

GC/MS VOA

Analysis Batch: 242921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-80043-1	WELL 1-2A	Total/NA	Water	8260C	
480-80043-2	WELL 1-3	Total/NA	Water	8260C	
480-80043-3	4009-18	Total/NA	Water	8260C	
480-80043-4	TRIP BLANK	Total/NA	Water	8260C	
LCS 480-242921/5	Lab Control Sample	Total/NA	Water	8260C	
MB 480-242921/7	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-80043-1

Client Sample ID: WELL 1-2A

Date Collected: 05/06/15 10:30

Date Received: 05/08/15 15:30

Lab Sample ID: 480-80043-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	242921	05/17/15 16:19	GTG	TAL BUF

Client Sample ID: WELL 1-3

Date Collected: 05/06/15 10:35

Date Received: 05/08/15 15:30

Lab Sample ID: 480-80043-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	242921	05/17/15 16:41	GTG	TAL BUF

Client Sample ID: 4009-18

Date Collected: 05/06/15 10:40

Date Received: 05/08/15 15:30

Lab Sample ID: 480-80043-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	242921	05/17/15 17:04	GTG	TAL BUF

Client Sample ID: TRIP BLANK

Date Collected: 05/06/15 00:00

Date Received: 05/08/15 15:30

Lab Sample ID: 480-80043-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	242921	05/17/15 11:21	GTG	TAL BUF

Laboratory References:

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

Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-80043-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

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

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	1,2,3-Trimethylbenzene

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-80043-1

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: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-80043-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-80043-1	WELL 1-2A	Water	05/06/15 10:30	05/08/15 15:30
480-80043-2	WELL 1-3	Water	05/06/15 10:35	05/08/15 15:30
480-80043-3	4009-18	Water	05/06/15 10:40	05/08/15 15:30
480-80043-4	TRIP BLANK	Water	05/06/15 00:00	05/08/15 15:30

Chain of Custody Record

Client Information Client Contact: Ms. Katie Bidwell Company: ARCADIS U.S. Inc. Address: 855 Route 146 Suite 210 City: Clifton Park State/Zip: NY, 12065 Phone: 518-250-7300(Tel) Email: katie.bidwell@arcadis-us.com Project Name: NYSDEC-Standby VESTAL Site: Vestal Water Supply		Sampler: A.G./B.Q. Lab PM: Stone, Judy L Phone: 518-250-7300 E-Mail: judy.stone@testamericainc.com		Carrier Tracking No(s): 480-67185-15761.1 Page: 1 of 1 Job #:	
Due Date Requested: Standard TAT Requested (days):		Analysis Requested			
PO #: Project 00266401.0000 WO #: Contract D007618 Project #: 48005198 SOW#:		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify) Other:			
Sample Identification Well 1-2A Well 1-3 4009-18 Trip Blank		Sample Date 5/6/15 ↓ ↓ —	Sample Time 10:30 10:35 10:40 —	Sample Type G-grab ↓ ↓ ↓	Matrix (W=water, S=solid, O=other) Water Water Water WATER
Total Number of Containers		Special Instructions/Note:			
480-80043 Chain of Custody					
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)					
Sample Disposal (A fee may be assessed if samples are returned) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months					
Special Instructions/QC Requirements:					
Empty Kit Relinquished by:		Date:		Method of Shipment:	
Relinquished by: <i>Amber Davidson</i> Date/Time: 5/15/15 1:00 Relinquished by: Date/Time: Relinquished by: Date/Time:		Received by: <i>Ady</i> Date/Time: 5/15/15 1530 Received by: Date/Time: Received by: Date/Time:		Company: Company: Company:	
Custody Seals Intact: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks: 210 #			

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-80043-1

Login Number: 80043

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl M

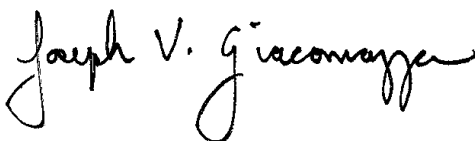
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature 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.	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.	False	
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

Job Number: 480-83014-1

Job Description: NYSDEC-Standby VESTAL

For:
ARCADIS U.S. Inc
855 Route 146
Suite 210
Clifton Park, NY 12065
Attention: Jeremy Wyckoff



Approved for release.
Joe V Giacomazza
Project Management Assistant II
7/6/2015 3:16 PM

Designee for
Judy L Stone, Senior Project Manager
10 Hazelwood Drive, Amherst, NY, 14228-2298
(484)685-0868
judy.stone@testamericainc.com
07/06/2015

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report. TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

TestAmerica Laboratories, Inc.

TestAmerica Buffalo 10 Hazelwood Drive, Amherst, NY 14228-2298

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Job Narrative
480-83014-1

Receipt

The samples were received on 6/27/2015 2:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.3° C.

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-251083 recovered above the upper control limit for Tetrachloroethane, 1,1,2-Trichloro,1,2,2-Trifluoroethane and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: WELL-1-3 (480-83014-1), WELL-1-2A (480-83014-2) and TRIP BLANK 6/25/15 (480-83014-3).

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

SAMPLE SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 480-83014-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-83014-1	WELL-1-3	Water	06/25/2015 0800	06/27/2015 0200
480-83014-2	WELL-1-2A	Water	06/25/2015 0805	06/27/2015 0200
480-83014-3	TRIP BLANK 6/25/15	Water	06/25/2015 0000	06/27/2015 0200

EXECUTIVE SUMMARY - Detections

Client: ARCADIS U.S. Inc

Job Number: 480-83014-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method

No Detections

METHOD SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 480-83014-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS	TAL BUF	SW846 8260C	
Purge and Trap	TAL BUF		SW846 5030C

Lab References:

TAL BUF = TestAmerica Buffalo

Method References:

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

METHOD / ANALYST SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 480-83014-1

Method	Analyst	Analyst ID
SW846 8260C	Feldman, Lance J	LJF

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-83014-1

Client Sample ID: WELL-1-3

Lab Sample ID: 480-83014-1

Date Sampled: 06/25/2015 0800

Client Matrix: Water

Date Received: 06/27/2015 0200

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-251083	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S0126.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/01/2015 0446			Final Weight/Volume:	5 mL
Prep Date:	07/01/2015 0446				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.82	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.31	1.0
1,1,2-Trichloroethane	1.0	U	0.23	1.0
1,1-Dichloroethane	1.0	U	0.38	1.0
1,1-Dichloroethene	1.0	U	0.29	1.0
1,2,3-Trimethylbenzene	1.0	U	0.26	1.0
1,2,4-Trichlorobenzene	1.0	U	0.41	1.0
1,2,4-Trimethylbenzene	1.0	U	0.75	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.39	1.0
1,2-Dibromoethane	1.0	U	0.73	1.0
1,2-Dichlorobenzene	1.0	U	0.79	1.0
1,2-Dichloroethane	1.0	U	0.21	1.0
1,2-Dichloropropane	1.0	U	0.72	1.0
1,3,5-Trimethylbenzene	1.0	U	0.77	1.0
1,3-Dichlorobenzene	1.0	U	0.78	1.0
1,4-Dichlorobenzene	1.0	U	0.84	1.0
2-Butanone (MEK)	10	U	1.3	10
2-Hexanone	5.0	U	1.2	5.0
4-Methyl-2-pentanone (MIBK)	5.0	U	2.1	5.0
Acetone	10	U	3.0	10
Benzene	1.0	U	0.41	1.0
Bromodichloromethane	1.0	U	0.39	1.0
Bromoform	1.0	U	0.26	1.0
Bromomethane	1.0	U	0.69	1.0
Carbon disulfide	1.0	U	0.19	1.0
Carbon tetrachloride	1.0	U	0.27	1.0
Chlorobenzene	1.0	U	0.75	1.0
Chloroethane	1.0	U	0.32	1.0
Chloroform	1.0	U	0.34	1.0
Chloromethane	1.0	U	0.35	1.0
cis-1,2-Dichloroethene	1.0	U	0.81	1.0
cis-1,3-Dichloropropene	1.0	U	0.36	1.0
Cyclohexane	1.0	U	0.18	1.0
Dibromochloromethane	1.0	U	0.32	1.0
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U	0.50	2.5
Methyl tert-butyl ether	1.0	U	0.16	1.0
Methylcyclohexane	1.0	U	0.16	1.0
Methylene Chloride	1.0	U	0.44	1.0
Styrene	1.0	U	0.73	1.0
Tetrachloroethene	1.0	U	0.36	1.0
Toluene	1.0	U	0.51	1.0
trans-1,2-Dichloroethene	1.0	U	0.90	1.0

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-83014-1

Client Sample ID: WELL-1-3

Lab Sample ID: 480-83014-1

Client Matrix: Water

Date Sampled: 06/25/2015 0800

Date Received: 06/27/2015 0200

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-251083	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S0126.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/01/2015 0446			Final Weight/Volume:	5 mL
Prep Date:	07/01/2015 0446				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	1.0	U	0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	1.0	U	0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	120		66 - 137
4-Bromofluorobenzene (Surr)	104		73 - 120
Dibromofluoromethane (Surr)	122		60 - 140
Toluene-d8 (Surr)	89		71 - 126

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-83014-1

Client Sample ID: WELL-1-2A

Lab Sample ID: 480-83014-2

Date Sampled: 06/25/2015 0805

Client Matrix: Water

Date Received: 06/27/2015 0200

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 480-251083

Instrument ID: HP5973S

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: S0127.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/01/2015 0509

Final Weight/Volume: 5 mL

Prep Date: 07/01/2015 0509

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.82	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.31	1.0
1,1,2-Trichloroethane	1.0	U	0.23	1.0
1,1-Dichloroethane	1.0	U	0.38	1.0
1,1-Dichloroethene	1.0	U	0.29	1.0
1,2,3-Trimethylbenzene	1.0	U	0.26	1.0
1,2,4-Trichlorobenzene	1.0	U	0.41	1.0
1,2,4-Trimethylbenzene	1.0	U	0.75	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.39	1.0
1,2-Dibromoethane	1.0	U	0.73	1.0
1,2-Dichlorobenzene	1.0	U	0.79	1.0
1,2-Dichloroethane	1.0	U	0.21	1.0
1,2-Dichloropropane	1.0	U	0.72	1.0
1,3,5-Trimethylbenzene	1.0	U	0.77	1.0
1,3-Dichlorobenzene	1.0	U	0.78	1.0
1,4-Dichlorobenzene	1.0	U	0.84	1.0
2-Butanone (MEK)	10	U	1.3	10
2-Hexanone	5.0	U	1.2	5.0
4-Methyl-2-pentanone (MIBK)	5.0	U	2.1	5.0
Acetone	10	U	3.0	10
Benzene	1.0	U	0.41	1.0
Bromodichloromethane	1.0	U	0.39	1.0
Bromoform	1.0	U	0.26	1.0
Bromomethane	1.0	U	0.69	1.0
Carbon disulfide	1.0	U	0.19	1.0
Carbon tetrachloride	1.0	U	0.27	1.0
Chlorobenzene	1.0	U	0.75	1.0
Chloroethane	1.0	U	0.32	1.0
Chloroform	1.0	U	0.34	1.0
Chloromethane	1.0	U	0.35	1.0
cis-1,2-Dichloroethene	1.0	U	0.81	1.0
cis-1,3-Dichloropropene	1.0	U	0.36	1.0
Cyclohexane	1.0	U	0.18	1.0
Dibromochloromethane	1.0	U	0.32	1.0
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U	0.50	2.5
Methyl tert-butyl ether	1.0	U	0.16	1.0
Methylcyclohexane	1.0	U	0.16	1.0
Methylene Chloride	1.0	U	0.44	1.0
Styrene	1.0	U	0.73	1.0
Tetrachloroethene	1.0	U	0.36	1.0
Toluene	1.0	U	0.51	1.0
trans-1,2-Dichloroethene	1.0	U	0.90	1.0

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-83014-1

Client Sample ID: WELL-1-2A

Lab Sample ID: 480-83014-2

Client Matrix: Water

Date Sampled: 06/25/2015 0805

Date Received: 06/27/2015 0200

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-251083	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S0127.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/01/2015 0509			Final Weight/Volume:	5 mL
Prep Date:	07/01/2015 0509				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	1.0	U	0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	1.0	U	0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	123		66 - 137
4-Bromofluorobenzene (Surr)	109		73 - 120
Dibromofluoromethane (Surr)	118		60 - 140
Toluene-d8 (Surr)	97		71 - 126

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-83014-1

Client Sample ID: TRIP BLANK 6/25/15

Lab Sample ID: 480-83014-3

Date Sampled: 06/25/2015 0000

Client Matrix: Water

Date Received: 06/27/2015 0200

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 480-251083

Instrument ID: HP5973S

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: S0128.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 07/01/2015 0532

Final Weight/Volume: 5 mL

Prep Date: 07/01/2015 0532

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.82	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.31	1.0
1,1,2-Trichloroethane	1.0	U	0.23	1.0
1,1-Dichloroethane	1.0	U	0.38	1.0
1,1-Dichloroethene	1.0	U	0.29	1.0
1,2,3-Trimethylbenzene	1.0	U	0.26	1.0
1,2,4-Trichlorobenzene	1.0	U	0.41	1.0
1,2,4-Trimethylbenzene	1.0	U	0.75	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.39	1.0
1,2-Dibromoethane	1.0	U	0.73	1.0
1,2-Dichlorobenzene	1.0	U	0.79	1.0
1,2-Dichloroethane	1.0	U	0.21	1.0
1,2-Dichloropropane	1.0	U	0.72	1.0
1,3,5-Trimethylbenzene	1.0	U	0.77	1.0
1,3-Dichlorobenzene	1.0	U	0.78	1.0
1,4-Dichlorobenzene	1.0	U	0.84	1.0
2-Butanone (MEK)	10	U	1.3	10
2-Hexanone	5.0	U	1.2	5.0
4-Methyl-2-pentanone (MIBK)	5.0	U	2.1	5.0
Acetone	10	U	3.0	10
Benzene	1.0	U	0.41	1.0
Bromodichloromethane	1.0	U	0.39	1.0
Bromoform	1.0	U	0.26	1.0
Bromomethane	1.0	U	0.69	1.0
Carbon disulfide	1.0	U	0.19	1.0
Carbon tetrachloride	1.0	U	0.27	1.0
Chlorobenzene	1.0	U	0.75	1.0
Chloroethane	1.0	U	0.32	1.0
Chloroform	1.0	U	0.34	1.0
Chloromethane	1.0	U	0.35	1.0
cis-1,2-Dichloroethene	1.0	U	0.81	1.0
cis-1,3-Dichloropropene	1.0	U	0.36	1.0
Cyclohexane	1.0	U	0.18	1.0
Dibromochloromethane	1.0	U	0.32	1.0
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U	0.50	2.5
Methyl tert-butyl ether	1.0	U	0.16	1.0
Methylcyclohexane	1.0	U	0.16	1.0
Methylene Chloride	1.0	U	0.44	1.0
Styrene	1.0	U	0.73	1.0
Tetrachloroethene	1.0	U	0.36	1.0
Toluene	1.0	U	0.51	1.0
trans-1,2-Dichloroethene	1.0	U	0.90	1.0

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-83014-1

Client Sample ID: TRIP BLANK 6/25/15

Lab Sample ID: 480-83014-3

Client Matrix: Water

Date Sampled: 06/25/2015 0000

Date Received: 06/27/2015 0200

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-251083	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S0128.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/01/2015 0532			Final Weight/Volume:	5 mL
Prep Date:	07/01/2015 0532				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	1.0	U	0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	1.0	U	0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	115		66 - 137
4-Bromofluorobenzene (Surr)	113		73 - 120
Dibromofluoromethane (Surr)	118		60 - 140
Toluene-d8 (Surr)	91		71 - 126

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-83014-1

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
480-83014-1	WELL-1-3	122	120	89	104
480-83014-2	WELL-1-2A	118	123	97	109
480-83014-3	TRIP BLANK 6/25/15	118	115	91	113
MB 480-251083/7		110	103	95	104
LCS 480-251083/5		109	106	102	113

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	60-140
DCA = 1,2-Dichloroethane-d4 (Surr)	66-137
TOL = Toluene-d8 (Surr)	71-126
BFB = 4-Bromofluorobenzene (Surr)	73-120

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-83014-1

Method Blank - Batch: 480-251083

Method: 8260C

Preparation: 5030C

Lab Sample ID: MB 480-251083/7
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/30/2015 2256
Prep Date: 06/30/2015 2256
Leach Date: N/A

Analysis Batch: 480-251083
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: HP5973S
Lab File ID: S0112.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.82	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.31	1.0
1,1,2-Trichloroethane	1.0	U	0.23	1.0
1,1-Dichloroethane	1.0	U	0.38	1.0
1,1-Dichloroethene	1.0	U	0.29	1.0
1,2,3-Trimethylbenzene	1.0	U	0.26	1.0
1,2,4-Trichlorobenzene	1.0	U	0.41	1.0
1,2,4-Trimethylbenzene	1.0	U	0.75	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.39	1.0
1,2-Dibromoethane	1.0	U	0.73	1.0
1,2-Dichlorobenzene	1.0	U	0.79	1.0
1,2-Dichloroethane	1.0	U	0.21	1.0
1,2-Dichloropropane	1.0	U	0.72	1.0
1,3,5-Trimethylbenzene	1.0	U	0.77	1.0
1,3-Dichlorobenzene	1.0	U	0.78	1.0
1,4-Dichlorobenzene	1.0	U	0.84	1.0
2-Butanone (MEK)	10	U	1.3	10
2-Hexanone	5.0	U	1.2	5.0
4-Methyl-2-pentanone (MIBK)	5.0	U	2.1	5.0
Acetone	10	U	3.0	10
Benzene	1.0	U	0.41	1.0
Bromodichloromethane	1.0	U	0.39	1.0
Bromoform	1.0	U	0.26	1.0
Bromomethane	1.0	U	0.69	1.0
Carbon disulfide	1.0	U	0.19	1.0
Carbon tetrachloride	1.0	U	0.27	1.0
Chlorobenzene	1.0	U	0.75	1.0
Chloroethane	1.0	U	0.32	1.0
Chloroform	1.0	U	0.34	1.0
Chloromethane	1.0	U	0.35	1.0
cis-1,2-Dichloroethene	1.0	U	0.81	1.0
cis-1,3-Dichloropropene	1.0	U	0.36	1.0
Cyclohexane	1.0	U	0.18	1.0
Dibromochloromethane	1.0	U	0.32	1.0
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U	0.50	2.5
Methyl tert-butyl ether	1.0	U	0.16	1.0
Methylcyclohexane	1.0	U	0.16	1.0
Methylene Chloride	1.0	U	0.44	1.0
Styrene	1.0	U	0.73	1.0
Tetrachloroethene	1.0	U	0.36	1.0
Toluene	1.0	U	0.51	1.0

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-83014-1

Method Blank - Batch: 480-251083

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 480-251083/7	Analysis Batch:	480-251083	Instrument ID:	HP5973S
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	S0112.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/30/2015 2256	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	06/30/2015 2256				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
trans-1,2-Dichloroethene	1.0	U	0.90	1.0
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	1.0	U	0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	1.0	U	0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103	66 - 137
4-Bromofluorobenzene (Surr)	104	73 - 120
Dibromofluoromethane (Surr)	110	60 - 140
Toluene-d8 (Surr)	95	71 - 126

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-83014-1

Lab Control Sample - Batch: 480-251083

Method: 8260C

Preparation: 5030C

Lab Sample ID:	LCS 480-251083/5	Analysis Batch:	480-251083	Instrument ID:	HP5973S
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	S0110.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/30/2015 2155	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	06/30/2015 2155				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	25.0	25.6	103	71 - 129	
1,1-Dichloroethene	25.0	25.6	102	58 - 121	
1,2,4-Trimethylbenzene	25.0	21.1	85	76 - 121	
1,2-Dichlorobenzene	25.0	22.4	90	80 - 124	
1,2-Dichloroethane	25.0	24.3	97	75 - 127	
1,3,5-Trimethylbenzene	25.0	20.7	83	77 - 121	
Benzene	25.0	24.6	99	71 - 124	
Chlorobenzene	25.0	25.0	100	72 - 120	
cis-1,2-Dichloroethene	25.0	24.4	98	74 - 124	
Ethylbenzene	25.0	23.9	95	77 - 123	
Methyl tert-butyl ether	25.0	23.9	96	64 - 127	
Tetrachloroethene	25.0	28.0	112	74 - 122	
Toluene	25.0	23.2	93	80 - 122	
trans-1,2-Dichloroethene	25.0	26.2	105	73 - 127	
Trichloroethene	25.0	24.1	96	74 - 123	
Surrogate	% Rec		Acceptance Limits		
1,2-Dichloroethane-d4 (Surr)	106		66 - 137		
4-Bromofluorobenzene (Surr)	113		73 - 120		
Dibromofluoromethane (Surr)	109		60 - 140		
Toluene-d8 (Surr)	102		71 - 126		

DATA REPORTING QUALIFIERS

Client: ARCADIS U.S. Inc

Job Number: 480-83014-1

Lab Section	Qualifier	Description
GC/MS VOA	U	Analyzed for but not detected.

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-83014-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:480-251083					
LCS 480-251083/5	Lab Control Sample	T	Water	8260C	
MB 480-251083/7	Method Blank	T	Water	8260C	
480-83014-1	WELL-1-3	T	Water	8260C	
480-83014-2	WELL-1-2A	T	Water	8260C	
480-83014-3	TRIP BLANK 6/25/15	T	Water	8260C	

Report Basis

T = Total

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-83014-1

Laboratory Chronicle

Lab ID: 480-83014-1

Client ID: WELL-1-3

Sample Date/Time: 06/25/2015 08:00 Received Date/Time: 06/27/2015 02:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-83014-A-1		480-251083		07/01/2015 04:46	1	TAL BUF	LJF
A:8260C	480-83014-A-1		480-251083		07/01/2015 04:46	1	TAL BUF	LJF

Lab ID: 480-83014-2

Client ID: WELL-1-2A

Sample Date/Time: 06/25/2015 08:05 Received Date/Time: 06/27/2015 02:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-83014-A-2		480-251083		07/01/2015 05:09	1	TAL BUF	LJF
A:8260C	480-83014-A-2		480-251083		07/01/2015 05:09	1	TAL BUF	LJF

Lab ID: 480-83014-3

Client ID: TRIP BLANK 6/25/15

Sample Date/Time: 06/25/2015 00:00 Received Date/Time: 06/27/2015 02:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-83014-A-3		480-251083		07/01/2015 05:32	1	TAL BUF	LJF
A:8260C	480-83014-A-3		480-251083		07/01/2015 05:32	1	TAL BUF	LJF

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	MB 480-251083/7		480-251083		06/30/2015 22:56	1	TAL BUF	LJF
A:8260C	MB 480-251083/7		480-251083		06/30/2015 22:56	1	TAL BUF	LJF

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	LCS 480-251083/5		480-251083		06/30/2015 21:55	1	TAL BUF	LJF
A:8260C	LCS 480-251083/5		480-251083		06/30/2015 21:55	1	TAL BUF	LJF

Lab References:

TAL BUF = TestAmerica Buffalo

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-83014-1
SDG No.: _____
Matrix: Water Level: Low
GC Column (1): ZB-624 (60) ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
WELL-1-3	480-83014-1	122	120	89	104
WELL-1-2A	480-83014-2	118	123	97	109
TRIP BLANK 6/25/15	480-83014-3	118	115	91	113
	MB 480-251083/7	110	103	95	104
	LCS 480-251083/5	109	106	102	113

DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

QC LIMITS
60-140
66-137
71-126
73-120

Column to be used to flag recovery values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-83014-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: S0110.D
 Lab ID: LCS 480-251083/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethane	25.0	25.6	103	71-129	
1,1-Dichloroethene	25.0	25.6	102	58-121	
1,2,4-Trimethylbenzene	25.0	21.1	85	76-121	
1,2-Dichlorobenzene	25.0	22.4	90	80-124	
1,2-Dichloroethane	25.0	24.3	97	75-127	
1,3,5-Trimethylbenzene	25.0	20.7	83	77-121	
Benzene	25.0	24.6	99	71-124	
Chlorobenzene	25.0	25.0	100	72-120	
cis-1,2-Dichloroethene	25.0	24.4	98	74-124	
Ethylbenzene	25.0	23.9	95	77-123	
Methyl tert-butyl ether	25.0	23.9	96	64-127	
Tetrachloroethene	25.0	28.0	112	74-122	
Toluene	25.0	23.2	93	80-122	
trans-1,2-Dichloroethene	25.0	26.2	105	73-127	
Trichloroethene	25.0	24.1	96	74-123	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-83014-1
SDG No.: _____
Lab File ID: S0112.D Lab Sample ID: MB 480-251083/7
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: HP5973S Date Analyzed: 06/30/2015 22:56
GC Column: ZB-624 (60) ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-251083/5	S0110.D	06/30/2015 21:55
WELL-1-3	480-83014-1	S0126.D	07/01/2015 04:46
WELL-1-2A	480-83014-2	S0127.D	07/01/2015 05:09
TRIP BLANK 6/25/15	480-83014-3	S0128.D	07/01/2015 05:32

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-83014-1
 SDG No.: _____
 Lab File ID: S8213.D BFB Injection Date: 05/08/2015
 Instrument ID: HP5973S BFB Injection Time: 14:09
 Analysis Batch No.: 241387

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	23.8
75	30.0 - 60.0 % of mass 95	51.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.8
173	Less than 2.0 % of mass 174	0.1 (0.2)1
174	50.0 - 120.00 % of mass 95	76.0
175	5.0 - 9.0 % of mass 174	4.4 (5.8)1
176	95.0 - 101.0 % of mass 174	74.9 (98.5)1
177	5.0 - 9.0 % of mass 176	4.7 (6.2)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-241387/5	S8215.D	05/08/2015	14:56
	IC 480-241387/6	S8216.D	05/08/2015	15:19
	IC 480-241387/7	S8217.D	05/08/2015	15:42
	IC 480-241387/8	S8218.D	05/08/2015	16:05
	IC 480-241387/9	S8219.D	05/08/2015	16:27
	ICIS 480-241387/10	S8220.D	05/08/2015	16:50
	IC 480-241387/11	S8221.D	05/08/2015	17:13
	IC 480-241387/12	S8222.D	05/08/2015	17:36
	IC 480-241387/16	S8226.D	05/08/2015	19:07
	IC 480-241387/17	S8227.D	05/08/2015	19:29
	IC 480-241387/18	S8228.D	05/08/2015	19:52
	IC 480-241387/19	S8229.D	05/08/2015	20:15
	IC 480-241387/20	S8230.D	05/08/2015	20:38
	IC 480-241387/21	S8231.D	05/08/2015	21:01
	IC 480-241387/22	S8232.D	05/08/2015	21:23

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-83014-1
 SDG No.: _____
 Lab File ID: S0107.D BFB Injection Date: 06/30/2015
 Instrument ID: HP5973S BFB Injection Time: 20:37
 Analysis Batch No.: 251083

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	22.3
75	30.0 - 60.0 % of mass 95	54.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.1
173	Less than 2.0 % of mass 174	0.4 (0.5)1
174	50.0 - 120.00 % of mass 95	83.6
175	5.0 - 9.0 % of mass 174	5.1 (6.1)1
176	95.0 - 101.0 % of mass 174	82.2 (98.2)1
177	5.0 - 9.0 % of mass 176	6.3 (7.7)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-251083/3	S0108.D	06/30/2015	21:10
	CCV 480-251083/4	S0109.D	06/30/2015	21:32
	LCS 480-251083/5	S0110.D	06/30/2015	21:55
	MB 480-251083/7	S0112.D	06/30/2015	22:56
WELL-1-3	480-83014-1	S0126.D	07/01/2015	04:46
WELL-1-2A	480-83014-2	S0127.D	07/01/2015	05:09
TRIP BLANK 6/25/15	480-83014-3	S0128.D	07/01/2015	05:32

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-83014-1
 SDG No.: _____
 Sample No.: ICIS 480-241387/10 Date Analyzed: 05/08/2015 16:50
 Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm)
 Lab File ID (Standard): S8220.D Heated Purge: (Y/N) N
 Calibration ID: 23328

	FB		CBZ		DCB	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	129413	5.66	248676	8.67	239970	11.03
UPPER LIMIT	258826	6.16	497352	9.17	479940	11.53
LOWER LIMIT	64707	5.16	124338	8.17	119985	10.53
LAB SAMPLE ID	CLIENT SAMPLE ID					
CCVIS 480-251083/3		81890	5.66	149613	8.67	181706
						11.03

FB = Fluorobenzene (IS)
 CBZ = Chlorobenzene-d5
 DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-83014-1
 SDG No.: _____
 Sample No.: CCVIS 480-251083/3 Date Analyzed: 06/30/2015 21:10
 Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm)
 Lab File ID (Standard): S0108.D Heated Purge: (Y/N) N
 Calibration ID: 23331

	FB		CBZ		DCB	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	81890	5.66	149613	8.67	181706	11.03
UPPER LIMIT	163780	6.16	299226	9.17	363412	11.53
LOWER LIMIT	40945	5.16	74807	8.17	90853	10.53
LAB SAMPLE ID	CLIENT SAMPLE ID					
CCV 480-251083/4		80219	5.66	162853	8.67	182491
LCS 480-251083/5		78582	5.66	149547	8.67	180494
MB 480-251083/7		72204	5.66	148390	8.67	157751
480-83014-1	WELL-1-3	48627	5.66	103030	8.67	115353
480-83014-2	WELL-1-2A	47686	5.66	95965	8.67	114478
480-83014-3	TRIP BLANK 6/25/15	47631	5.66	97963	8.67	117374

FB = Fluorobenzene (IS)
 CBZ = Chlorobenzene-d5
 DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-83014-1</u>
SDG No.: _____	
Client Sample ID: <u>WELL-1-3</u>	Lab Sample ID: <u>480-83014-1</u>
Matrix: <u>Water</u>	Lab File ID: <u>S0126.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>06/25/2015 08:00</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>07/01/2015 04:46</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>251083</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.38
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.29
526-73-8	1,2,3-Trimethylbenzene	1.0	U	1.0	0.26
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.79
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.77
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.78
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	1.0	U	1.0	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	1.0	U	1.0	3.0
71-43-2	Benzene	1.0	U	1.0	0.41
75-27-4	Bromodichloromethane	1.0	U	1.0	0.39
75-25-2	Bromoform	1.0	U	1.0	0.26
74-83-9	Bromomethane	1.0	U	1.0	0.69
75-15-0	Carbon disulfide	1.0	U	1.0	0.19
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.27
108-90-7	Chlorobenzene	1.0	U	1.0	0.75
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.34
74-87-3	Chloromethane	1.0	U	1.0	0.35
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36
110-82-7	Cyclohexane	1.0	U	1.0	0.18
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-83014-1
 SDG No.: _____
 Client Sample ID: WELL-1-3 Lab Sample ID: 480-83014-1
 Matrix: Water Lab File ID: S0126.D
 Analysis Method: 8260C Date Collected: 06/25/2015 08:00
 Sample wt/vol: 5 (mL) Date Analyzed: 07/01/2015 04:46
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 251083 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	0.50
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	120		66-137
460-00-4	4-Bromofluorobenzene (Surr)	104		73-120
1868-53-7	Dibromofluoromethane (Surr)	122		60-140
2037-26-5	Toluene-d8 (Surr)	89		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20150630-44028.b\S0126.D
 Lims ID: 480-83014-A-1 Lab Sample ID: 480-83014-1
 Client ID: WELL-1-3
 Sample Type: Client
 Inject. Date: 01-Jul-2015 04:46:30 ALS Bottle#: 20 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-83014-A-1
 Misc. Info.: 480-0044028-023
 Operator ID: JG Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20150630-44028.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Jul-2015 10:00:46 Calib Date: 08-May-2015 21:23:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20150508-42209.b\S8232.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK050

First Level Reviewer: feldmanl

Date: 01-Jul-2015 10:02:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.658	5.658	0.000	97	48627	25.0	
* 2 Chlorobenzene-d5	82	8.665	8.665	0.000	84	103030	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.028	11.028	0.000	93	115353	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.055	5.049	0.006	55	70742	33.2	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.366	5.366	0.000	0	45891	32.6	
\$ 5 Toluene-d8 (Surr)	98	7.180	7.180	0.000	92	219890	24.2	
\$ 6 4-Bromofluorobenzene (Surr	174	9.907	9.907	0.000	91	81644	28.3	
10 Dichlorodifluoromethane	85		1.360				ND	
12 Chloromethane	50		1.524				ND	
13 Vinyl chloride	62		1.640				ND	
14 Bromomethane	94		1.957				ND	
15 Chloroethane	64		2.072				ND	
17 Trichlorofluoromethane	101		2.328				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.851				ND	
22 1,1-Dichloroethene	96		2.858				ND	
23 Acetone	43		2.943				ND	
26 Carbon disulfide	76		3.071				ND	
27 Methyl acetate	43		3.259				ND	
30 Methylene Chloride	84		3.387				ND	
32 Methyl tert-butyl ether	73		3.588				ND	
34 trans-1,2-Dichloroethene	96		3.600				ND	
39 1,1-Dichloroethane	63		4.020				ND	
45 cis-1,2-Dichloroethene	96		4.586				ND	
43 2-Butanone (MEK)	43		4.605				ND	
50 Chloroform	83		4.897				ND	
51 1,1,1-Trichloroethane	97		5.031				ND	
52 Cyclohexane	56		5.055				ND	
55 Carbon tetrachloride	117		5.177				ND	
57 Benzene	78		5.384				ND	
58 1,2-Dichloroethane	62		5.439				ND	
62 Trichloroethene	95		5.999				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		6.145				ND	
65 1,2-Dichloropropane	63		6.230				ND	
68 Dichlorobromomethane	83		6.516				ND	
72 cis-1,3-Dichloropropene	75		6.942				ND	
73 4-Methyl-2-pentanone (MIBK)	43		7.076				ND	
74 Toluene	92		7.247				ND	
77 trans-1,3-Dichloropropene	75		7.503				ND	
79 1,1,2-Trichloroethane	83		7.691				ND	
81 Tetrachloroethene	166		7.789				ND	
80 2-Hexanone	43		7.923				ND	
83 Chlorodibromomethane	129		8.099				ND	
84 Ethylene Dibromide	107		8.209				ND	
87 Chlorobenzene	112		8.696				ND	
88 Ethylbenzene	91		8.787				ND	
90 m-Xylene & p-Xylene	106		8.915				ND	
91 o-Xylene	106		9.341				ND	
92 Styrene	104		9.365				ND	
95 Bromoform	173		9.597				ND	
94 Isopropylbenzene	105		9.719				ND	
97 1,1,2,2-Tetrachloroethane	83		10.084				ND	
102 1,3,5-Trimethylbenzene	105		10.309				ND	
107 1,2,4-Trimethylbenzene	105		10.674				ND	
111 1,3-Dichlorobenzene	146		10.960				ND	
113 1,4-Dichlorobenzene	146		11.046				ND	
112 1,2,3-Trimethylbenzene	105		11.076				ND	
116 1,2-Dichlorobenzene	146		11.393				ND	
117 1,2-Dibromo-3-Chloropropan	75		12.111				ND	
119 1,2,4-Trichlorobenzene	180		12.793				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_Surr_00106

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_IS_00101

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20150630-44028.b\S0126.D

Injection Date: 01-Jul-2015 04:46:30

Instrument ID: HP5973S

Operator ID: JG

Lims ID: 480-83014-A-1

Lab Sample ID: 480-83014-1

Worklist Smp#: 23

Client ID: WELL-1-3

Purge Vol: 5.000 mL

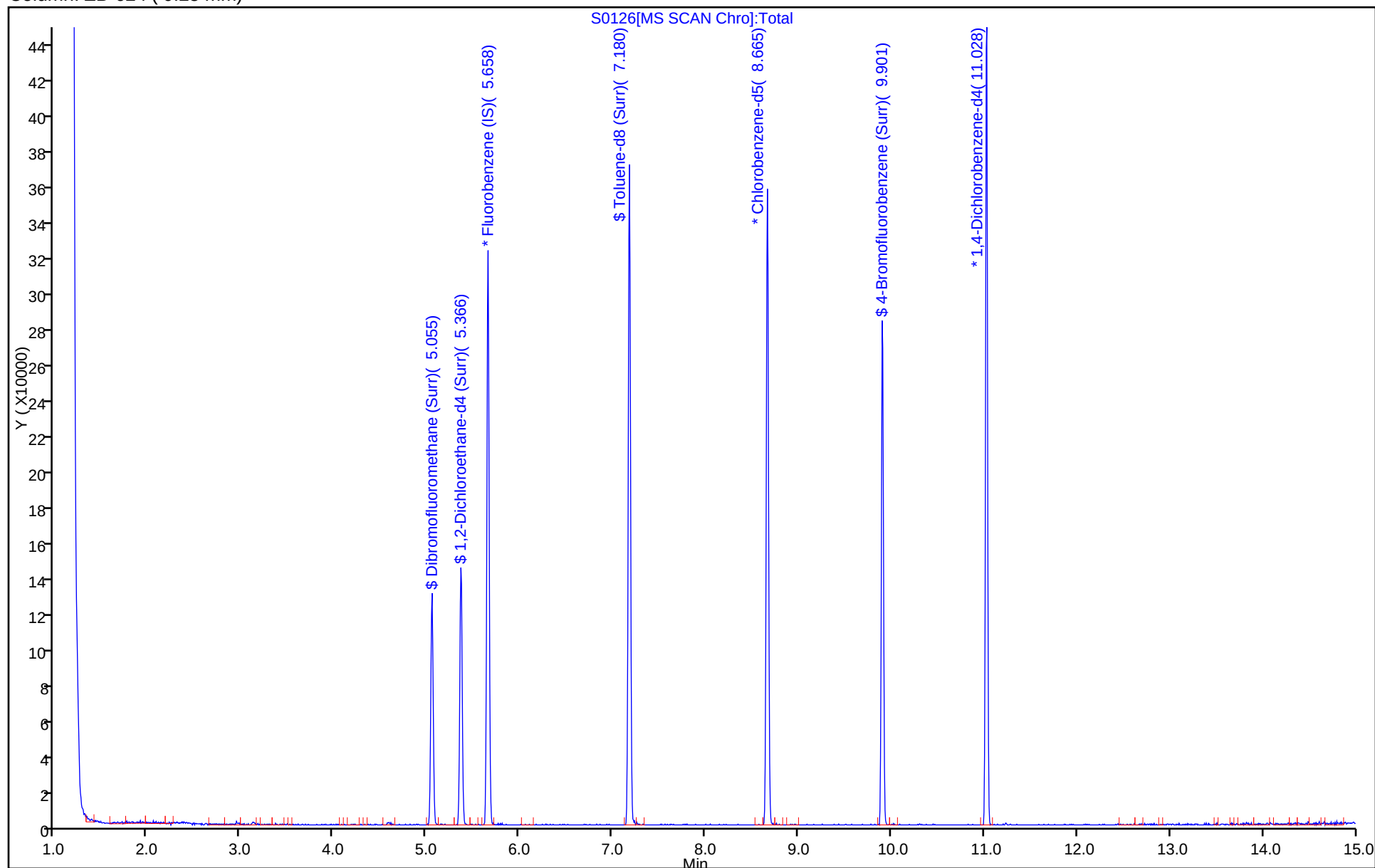
Dil. Factor: 1.0000

ALS Bottle#: 20

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-83014-1</u>
SDG No.: _____	
Client Sample ID: <u>WELL-1-2A</u>	Lab Sample ID: <u>480-83014-2</u>
Matrix: <u>Water</u>	Lab File ID: <u>S0127.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>06/25/2015 08:05</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>07/01/2015 05:09</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>251083</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.38
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.29
526-73-8	1,2,3-Trimethylbenzene	1.0	U	1.0	0.26
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.79
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.77
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.78
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	1.0	U	1.0	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	1.0	U	1.0	3.0
71-43-2	Benzene	1.0	U	1.0	0.41
75-27-4	Bromodichloromethane	1.0	U	1.0	0.39
75-25-2	Bromoform	1.0	U	1.0	0.26
74-83-9	Bromomethane	1.0	U	1.0	0.69
75-15-0	Carbon disulfide	1.0	U	1.0	0.19
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.27
108-90-7	Chlorobenzene	1.0	U	1.0	0.75
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.34
74-87-3	Chloromethane	1.0	U	1.0	0.35
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36
110-82-7	Cyclohexane	1.0	U	1.0	0.18
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-83014-1
 SDG No.: _____
 Client Sample ID: WELL-1-2A Lab Sample ID: 480-83014-2
 Matrix: Water Lab File ID: S0127.D
 Analysis Method: 8260C Date Collected: 06/25/2015 08:05
 Sample wt/vol: 5 (mL) Date Analyzed: 07/01/2015 05:09
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 251083 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	0.50
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	123		66-137
460-00-4	4-Bromofluorobenzene (Surr)	109		73-120
1868-53-7	Dibromofluoromethane (Surr)	118		60-140
2037-26-5	Toluene-d8 (Surr)	97		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20150630-44028.b\S0127.D
 Lims ID: 480-83014-A-2 Lab Sample ID: 480-83014-2
 Client ID: WELL-1-2A
 Sample Type: Client
 Inject. Date: 01-Jul-2015 05:09:30 ALS Bottle#: 21 Worklist Smp#: 24
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-83014-A-2
 Misc. Info.: 480-0044028-024
 Operator ID: JG Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20150630-44028.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Jul-2015 10:00:46 Calib Date: 08-May-2015 21:23:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20150508-42209.b\S8232.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK050

First Level Reviewer: feldmanl

Date: 01-Jul-2015 10:02:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.658	5.658	0.000	97	47686	25.0	
* 2 Chlorobenzene-d5	82	8.665	8.665	0.000	81	95965	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.027	11.028	-0.001	96	114478	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.055	5.049	0.006	54	66907	32.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.366	5.366	0.000	0	46231	33.5	
\$ 5 Toluene-d8 (Surr)	98	7.180	7.180	0.000	89	222346	26.3	
\$ 6 4-Bromofluorobenzene (Surr	174	9.901	9.907	-0.006	85	79835	29.7	
10 Dichlorodifluoromethane	85		1.360				ND	
12 Chloromethane	50		1.524				ND	
13 Vinyl chloride	62		1.640				ND	
14 Bromomethane	94		1.957				ND	
15 Chloroethane	64		2.072				ND	
17 Trichlorofluoromethane	101		2.328				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.851				ND	
22 1,1-Dichloroethene	96		2.858				ND	
23 Acetone	43		2.943				ND	
26 Carbon disulfide	76		3.071				ND	
27 Methyl acetate	43		3.259				ND	
30 Methylene Chloride	84		3.387				ND	
32 Methyl tert-butyl ether	73		3.588				ND	
34 trans-1,2-Dichloroethene	96		3.600				ND	
39 1,1-Dichloroethane	63		4.020				ND	
45 cis-1,2-Dichloroethene	96		4.586				ND	
43 2-Butanone (MEK)	43		4.605				ND	
50 Chloroform	83		4.897				ND	
51 1,1,1-Trichloroethane	97		5.031				ND	
52 Cyclohexane	56		5.055				ND	
55 Carbon tetrachloride	117		5.177				ND	
57 Benzene	78		5.384				ND	
58 1,2-Dichloroethane	62		5.439				ND	
62 Trichloroethene	95		5.999				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		6.145				ND	
65 1,2-Dichloropropane	63		6.230				ND	
68 Dichlorobromomethane	83		6.516				ND	
72 cis-1,3-Dichloropropene	75		6.942				ND	
73 4-Methyl-2-pentanone (MIBK)	43		7.076				ND	
74 Toluene	92		7.247				ND	
77 trans-1,3-Dichloropropene	75		7.503				ND	
79 1,1,2-Trichloroethane	83		7.691				ND	
81 Tetrachloroethene	166		7.789				ND	
80 2-Hexanone	43		7.923				ND	
83 Chlorodibromomethane	129		8.099				ND	
84 Ethylene Dibromide	107		8.209				ND	
87 Chlorobenzene	112		8.696				ND	
88 Ethylbenzene	91		8.787				ND	
90 m-Xylene & p-Xylene	106		8.915				ND	
91 o-Xylene	106		9.341				ND	
92 Styrene	104		9.365				ND	
95 Bromoform	173		9.597				ND	
94 Isopropylbenzene	105		9.719				ND	
97 1,1,2,2-Tetrachloroethane	83		10.084				ND	
102 1,3,5-Trimethylbenzene	105		10.309				ND	
107 1,2,4-Trimethylbenzene	105		10.674				ND	
111 1,3-Dichlorobenzene	146		10.960				ND	
113 1,4-Dichlorobenzene	146		11.046				ND	
112 1,2,3-Trimethylbenzene	105		11.076				ND	
116 1,2-Dichlorobenzene	146		11.393				ND	
117 1,2-Dibromo-3-Chloropropan	75		12.111				ND	
119 1,2,4-Trichlorobenzene	180		12.793				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_Surr_00106

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_IS_00101

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20150630-44028.b\S0127.D

Injection Date: 01-Jul-2015 05:09:30

Instrument ID: HP5973S

Operator ID: JG

Lims ID: 480-83014-A-2

Lab Sample ID: 480-83014-2

Worklist Smp#: 24

Client ID: WELL-1-2A

Purge Vol: 5.000 mL

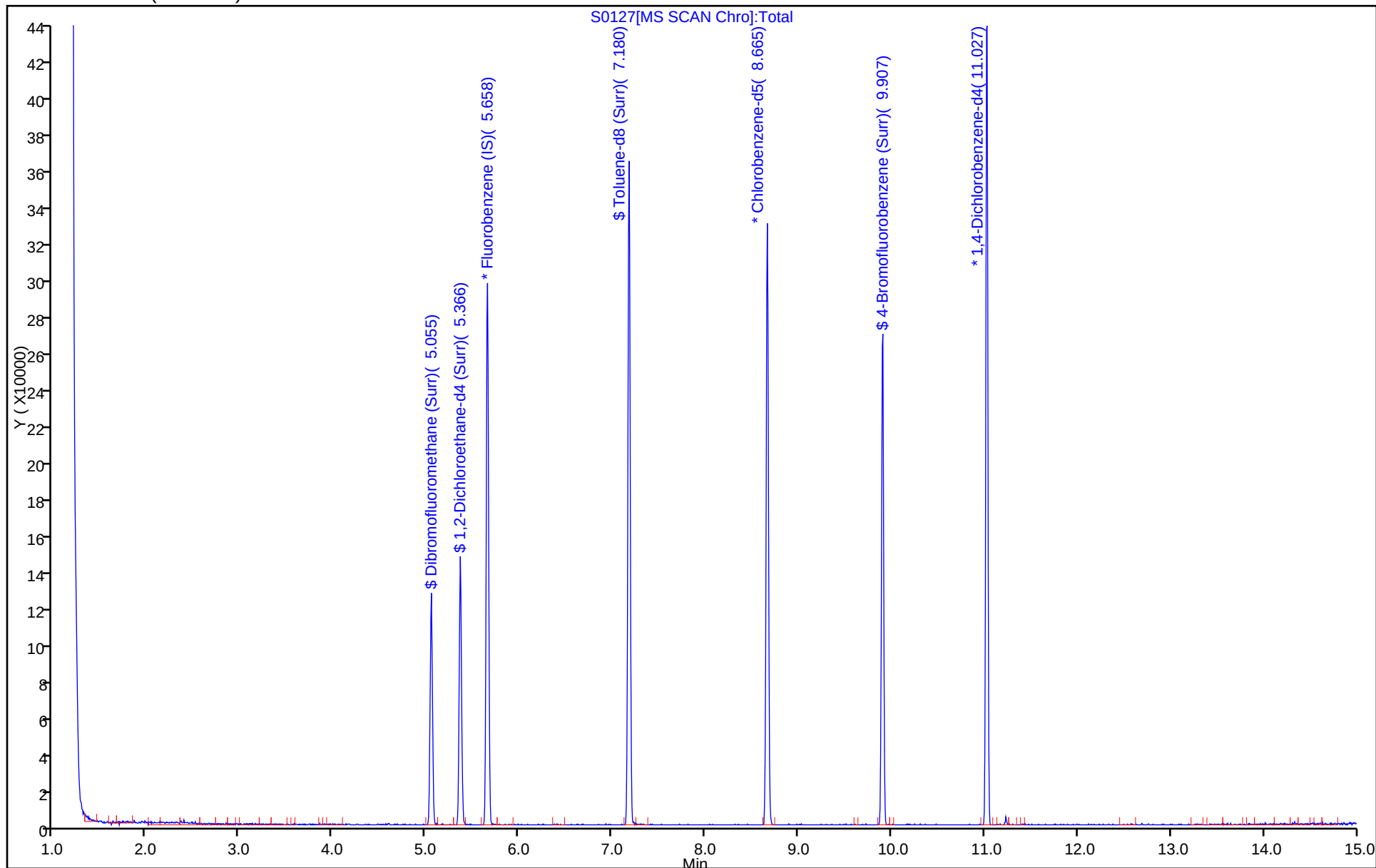
Dil. Factor: 1.0000

ALS Bottle#: 21

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-83014-1

SDG No.: _____

Client Sample ID: TRIP BLANK 6/25/15 Lab Sample ID: 480-83014-3

Matrix: Water Lab File ID: S0128.D

Analysis Method: 8260C Date Collected: 06/25/2015 00:00

Sample wt/vol: 5 (mL) Date Analyzed: 07/01/2015 05:32

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 251083 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.38
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.29
526-73-8	1,2,3-Trimethylbenzene	1.0	U	1.0	0.26
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.79
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.77
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.78
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	1.0	U	1.0	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	1.0	U	1.0	3.0
71-43-2	Benzene	1.0	U	1.0	0.41
75-27-4	Bromodichloromethane	1.0	U	1.0	0.39
75-25-2	Bromoform	1.0	U	1.0	0.26
74-83-9	Bromomethane	1.0	U	1.0	0.69
75-15-0	Carbon disulfide	1.0	U	1.0	0.19
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.27
108-90-7	Chlorobenzene	1.0	U	1.0	0.75
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.34
74-87-3	Chloromethane	1.0	U	1.0	0.35
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36
110-82-7	Cyclohexane	1.0	U	1.0	0.18
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-83014-1
 SDG No.: _____
 Client Sample ID: TRIP BLANK 6/25/15 Lab Sample ID: 480-83014-3
 Matrix: Water Lab File ID: S0128.D
 Analysis Method: 8260C Date Collected: 06/25/2015 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 07/01/2015 05:32
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 251083 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	0.50
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	115		66-137
460-00-4	4-Bromofluorobenzene (Surr)	113		73-120
1868-53-7	Dibromofluoromethane (Surr)	118		60-140
2037-26-5	Toluene-d8 (Surr)	91		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20150630-44028.b\S0128.D
 Lims ID: 480-83014-A-3 Lab Sample ID: 480-83014-3
 Client ID: TRIP BLANK 6/25/15
 Sample Type: Client
 Inject. Date: 01-Jul-2015 05:32:30 ALS Bottle#: 22 Worklist Smp#: 25
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-83014-A-3
 Misc. Info.: 480-0044028-025
 Operator ID: JG Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20150630-44028.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Jul-2015 10:00:46 Calib Date: 08-May-2015 21:23:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20150508-42209.b\S8232.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK050

First Level Reviewer: feldmanl

Date: 01-Jul-2015 10:02:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.664	5.658	0.006	97	47631	25.0	
* 2 Chlorobenzene-d5	82	8.665	8.665	0.000	83	97963	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.027	11.028	-0.001	94	117374	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.055	5.049	0.006	55	67094	32.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.366	5.366	0.000	0	42925	31.1	
\$ 5 Toluene-d8 (Surr)	98	7.180	7.180	0.000	94	214508	24.8	
\$ 6 4-Bromofluorobenzene (Surr	174	9.907	9.907	0.000	92	83918	30.6	
10 Dichlorodifluoromethane	85		1.360				ND	
12 Chloromethane	50		1.524				ND	
13 Vinyl chloride	62		1.640				ND	
14 Bromomethane	94		1.957				ND	
15 Chloroethane	64		2.072				ND	
17 Trichlorofluoromethane	101		2.328				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.851				ND	
22 1,1-Dichloroethene	96		2.858				ND	
23 Acetone	43		2.943				ND	
26 Carbon disulfide	76		3.071				ND	
27 Methyl acetate	43		3.259				ND	
30 Methylene Chloride	84		3.387				ND	
32 Methyl tert-butyl ether	73		3.588				ND	
34 trans-1,2-Dichloroethene	96		3.600				ND	
39 1,1-Dichloroethane	63		4.020				ND	
45 cis-1,2-Dichloroethene	96		4.586				ND	
43 2-Butanone (MEK)	43		4.605				ND	
50 Chloroform	83		4.897				ND	
51 1,1,1-Trichloroethane	97		5.031				ND	
52 Cyclohexane	56		5.055				ND	
55 Carbon tetrachloride	117		5.177				ND	
57 Benzene	78		5.384				ND	
58 1,2-Dichloroethane	62		5.439				ND	
62 Trichloroethene	95		5.999				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		6.145				ND	
65 1,2-Dichloropropane	63		6.230				ND	
68 Dichlorobromomethane	83		6.516				ND	
72 cis-1,3-Dichloropropene	75		6.942				ND	
73 4-Methyl-2-pentanone (MIBK)	43		7.076				ND	
74 Toluene	92		7.247				ND	
77 trans-1,3-Dichloropropene	75		7.503				ND	
79 1,1,2-Trichloroethane	83		7.691				ND	
81 Tetrachloroethene	166		7.789				ND	
80 2-Hexanone	43		7.923				ND	
83 Chlorodibromomethane	129		8.099				ND	
84 Ethylene Dibromide	107		8.209				ND	
87 Chlorobenzene	112		8.696				ND	
88 Ethylbenzene	91		8.787				ND	
90 m-Xylene & p-Xylene	106		8.915				ND	
91 o-Xylene	106		9.341				ND	
92 Styrene	104		9.365				ND	
95 Bromoform	173		9.597				ND	
94 Isopropylbenzene	105		9.719				ND	
97 1,1,2,2-Tetrachloroethane	83		10.084				ND	
102 1,3,5-Trimethylbenzene	105		10.309				ND	
107 1,2,4-Trimethylbenzene	105		10.674				ND	
111 1,3-Dichlorobenzene	146		10.960				ND	
113 1,4-Dichlorobenzene	146		11.046				ND	
112 1,2,3-Trimethylbenzene	105		11.076				ND	
116 1,2-Dichlorobenzene	146		11.393				ND	
117 1,2-Dibromo-3-Chloropropan	75		12.111				ND	
119 1,2,4-Trichlorobenzene	180		12.793				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_Surr_00106

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_IS_00101

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20150630-44028.b\S0128.D

Injection Date: 01-Jul-2015 05:32:30

Instrument ID: HP5973S

Operator ID: JG

Lims ID: 480-83014-A-3

Lab Sample ID: 480-83014-3

Worklist Smp#: 25

Client ID: TRIP BLANK 6/25/15

Purge Vol: 5.000 mL

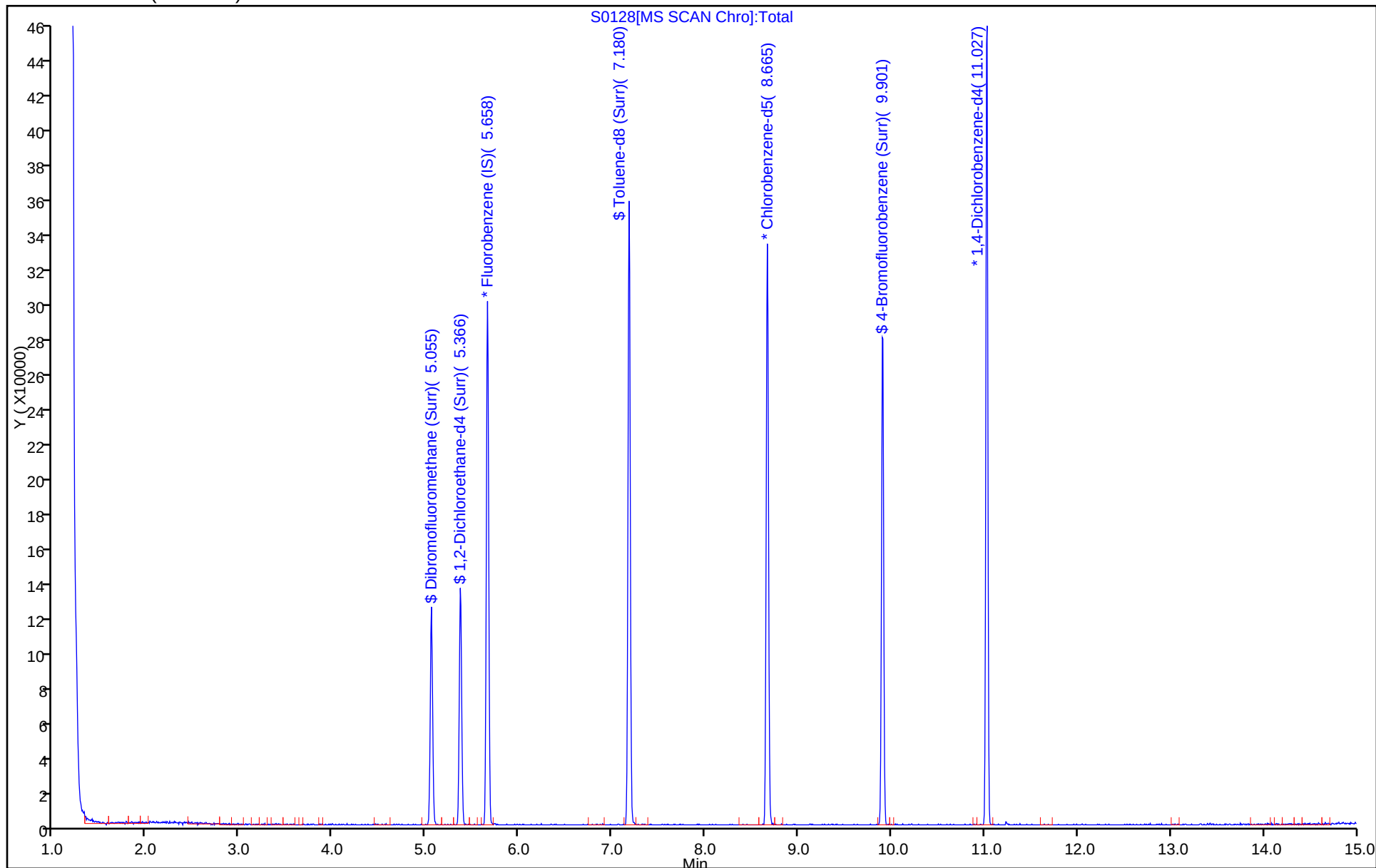
Dil. Factor: 1.0000

ALS Bottle#: 22

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-83014-1 Analy Batch No.: 241387

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2015 14:56 Calibration End Date: 05/08/2015 17:36 Calibration ID: 23328

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-241387/5	S8215.D
Level 2	IC 480-241387/6	S8216.D
Level 3	IC 480-241387/7	S8217.D
Level 4	IC 480-241387/8	S8218.D
Level 5	IC 480-241387/9	S8219.D
Level 6	ICIS 480-241387/10	S8220.D
Level 7	IC 480-241387/11	S8221.D
Level 8	IC 480-241387/12	S8222.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	+++++ 1.2004	0.9466 1.2838	1.2350 1.2438	1.2339	1.1942	Ave		1.1911			0.1000	9.4		20.0			
Chloromethane	1.1974 1.2271	0.9524 1.3963	1.2887 1.3321	1.2324	1.3056	Ave		1.2415			0.1000	10.7		20.0			
Vinyl chloride	1.0528 1.0153	0.8951 1.1001	1.1207 1.0544	1.0541	1.1021	Ave		1.0493			0.1000	6.8		20.0			
Butadiene	1.1982 1.1683	1.0115 1.1933	1.2627 1.1484	1.2373	1.2066	Ave		1.1783				6.5		20.0			
Bromomethane	+++++ 0.2422	0.3209 0.2790	0.2858 0.3507	0.2967	0.2575	Ave		0.2904			0.1000	12.7		20.0			
Chloroethane	+++++ 0.5235	0.3939 0.5412	0.5941 0.5302	0.5729	0.5471	Ave		0.5290			0.1000	12.2		20.0			
Dichlorofluoromethane	+++++ 0.8449	0.3859 1.0016	0.6890 1.0408	0.6645	0.7519	Lin1	-0.889	1.0057							0.9930		0.9900
Trichlorofluoromethane	+++++ 1.1590	0.4851 1.3217	0.9584 1.3021	1.0166	1.1171	Lin1	-0.920	1.2973			0.1000				0.9980		0.9900
Ethyl ether	0.9364 1.0108	1.1029 1.0518	0.9957 1.0082	1.1075	1.0951	Ave		1.0385				5.9		20.0			
Acrolein	0.1114 0.1098	0.1445 0.1154	0.1085 0.1140	0.1253	0.1240	Ave		0.1191				10.1		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.9517 0.9690	0.7604 1.0434	0.8562 0.9986	1.0294	0.9917	Ave		0.9501			0.1000	10.1		20.0			
1,1-Dichloroethene	0.9293 0.9169	0.9139 0.9745	0.8821 0.9178	1.0022	0.9506	Ave		0.9359			0.1000	4.1		20.0			
Acetone	+++++ 0.4143	0.4914 0.4361	0.5027 0.4110	0.4571	0.4694	Ave		0.4546			0.1000	7.9		20.0			
Iodomethane	1.1900 1.3983	1.1314 1.3966	1.3812 1.3063	1.4683	1.4650	Ave		1.3421				9.2		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-83014-1 Analy Batch No.: 241387
SDG No.: _____
Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 05/08/2015 14:56 Calibration End Date: 05/08/2015 17:36 Calibration ID: 23328

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Carbon disulfide	2.6281 2.6723	2.4018 2.9024	2.4613 2.8099	2.7265	2.7031	Ave		2.6632			0.1000	6.3		20.0			
Allyl chloride	++++ 1.7761	2.0113 1.8188	1.9856 1.7715	1.8338	1.8554	Ave		1.8646				5.2		20.0			
Methyl acetate	1.0444 1.0243	1.1604 1.0732	1.0889 1.0022	1.1092	1.1566	Ave		1.0824			0.1000	5.4		20.0			
Methylene Chloride	2.6828 0.9769	1.8280 1.0207	1.5524 0.9535	1.2643	1.1533	Lin1	0.9529	0.9680			0.1000				0.9980		0.9900
2-Methyl-2-propanol	0.1468 0.1596	0.1576 0.1717	0.1634 0.1609	0.1654	0.1802	Ave		0.1632				6.1		20.0			
Methyl tert-butyl ether	3.2712 3.1057	3.4402 3.2241	3.3050 3.0089	3.4311	3.4539	Ave		3.2800			0.1000	5.0		20.0			
trans-1,2-Dichloroethene	++++ 0.9676	0.9422 1.0187	0.8744 0.9540	1.1129	1.0437	Ave		0.9877			0.1000	7.9		20.0			
Acrylonitrile	0.4890 0.4695	0.4933 0.4964	0.5130 0.4636	0.5269	0.5202	Ave		0.4965				4.6		20.0			
Hexane	1.9353 1.7594	1.4498 1.8673	1.6559 1.8104	1.9511	1.8956	Ave		1.7906				9.4		20.0			
1,1-Dichloroethane	2.0340 1.9543	1.8246 2.0606	1.8657 2.0159	2.1171	2.1439	Ave		2.0020			0.2000	5.7		20.0			
Vinyl acetate	2.6103 2.4525	2.4337 2.6417	2.3552 2.5039	2.5763	2.6984	Ave		2.5340				4.6		20.0			
2,2-Dichloropropane	1.1448 1.0350	0.9275 1.0543	1.0646 0.9924	1.0962	1.0871	Ave		1.0502				6.4		20.0			
cis-1,2-Dichloroethene	1.2256 1.0819	1.0759 1.1236	0.9216 1.0616	1.2027	1.1611	Ave		1.1068			0.1000	8.7		20.0			
2-Butanone (MEK)	0.7098 0.6250	0.6538 0.6589	0.6751 0.6169	0.6873	0.6919	Ave		0.6648			0.1000	4.9		20.0			
Chlorobromomethane	++++ 0.5538	0.4613 0.5857	0.4243 0.5550	0.5518	0.5797	Ave		0.5302				11.7		20.0			
Tetrahydrofuran	++++ 0.4103	0.4034 0.4387	0.4356 0.4141	0.4607	0.4656	Ave		0.4326				5.7		20.0			
Chloroform	++++ 1.8265	1.9152 1.8896	1.8912 1.8049	1.9922	1.9443	Ave		1.8948			0.2000	3.4		20.0			
1,1,1-Trichloroethane	1.2567 1.4056	1.0242 1.4903	1.2976 1.4215	1.4187	1.4632	Ave		1.3472			0.1000	11.3		20.0			
Cyclohexane	2.1657 1.9734	1.7531 2.1241	1.7651 1.9971	2.1192	2.0139	Ave		1.9890			0.1000	7.9		20.0			
Carbon tetrachloride	++++ 1.3884	1.2447 1.5201	1.2836 1.4719	1.4639	1.4360	Ave		1.4012			0.1000	7.3		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-83014-1 Analy Batch No.: 241387
SDG No.: _____
Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 05/08/2015 14:56 Calibration End Date: 05/08/2015 17:36 Calibration ID: 23328

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,1-Dichloropropene	1.3358 1.4146	1.3872 1.5123	1.3774 1.4410	1.5652	1.5474	Ave		1.4476				5.8		20.0			
Isobutyl alcohol	0.0636 0.0659	0.0688 0.0706	0.0655 0.0658	0.0658	0.0729	Ave		0.0674				4.6		20.0			
Benzene	4.3028 4.0845	4.0229 4.2875	4.0686 3.9926	4.4989	4.4241	Ave		4.2102			0.5000	4.6		20.0			
1,2-Dichloroethane	2.0360 1.6254	1.9639 1.7312	1.7926 1.6286	1.8197	1.8823	Ave		1.8100			0.1000	8.2		20.0			
n-Heptane	1.8206 1.7336	1.7172 1.8577	1.6343 1.8271	1.9689	1.8432	Ave		1.8003				5.7		20.0			
Trichloroethene	1.0851 1.0769	0.9741 1.1378	1.0733 1.0765	1.1561	1.1408	Ave		1.0901			0.2000	5.3		20.0			
Methylcyclohexane	1.9855 1.8162	1.4237 1.9325	1.5537 1.8552	1.9179	1.9074	Ave		1.7990			0.1000	11.2		20.0			
1,2-Dichloropropane	1.0545 1.0346	1.0386 1.1269	1.1023 1.0606	1.0860	1.1407	Ave		1.0805			0.1000	3.7		20.0			
Dibromomethane	0.5473 0.6350	0.5904 0.6654	0.6485 0.6219	0.6611	0.6974	Ave		0.6334			0.1000	7.4		20.0			
1,4-Dioxane	++++ 0.0052	0.0054 0.0057	0.0054 0.0052	0.0046	0.0056	Ave		0.0053				7.3		20.0			
Bromodichloromethane	1.3246 1.3364	1.0564 1.4248	1.2245 1.4092	1.3514	1.3599	Ave		1.3109			0.2000	9.1		20.0			
2-Chloroethyl vinyl ether	0.7798 0.7106	0.6022 0.7665	0.7254 0.7561	0.7235	0.7837	Ave		0.7310				8.0		20.0			
cis-1,3-Dichloropropene	1.4705 1.6562	1.4265 1.8060	1.4652 1.7373	1.6988	1.7749	Ave		1.6294			0.2000	9.4		20.0			
4-Methyl-2-pentanone (MIBK)	0.7595 0.6475	0.7363 0.6825	0.7667 0.6167	0.7428	0.7425	Ave		0.7118			0.1000	7.8		20.0			
Toluene	1.5021 1.3576	1.3358 1.3940	1.3597 1.3161	1.4095	1.4245	Ave		1.3874			0.4000	4.3		20.0			
trans-1,3-Dichloropropene	0.6791 0.7990	0.6967 0.8796	0.6825 0.8527	0.7740	0.8368	Ave		0.7751			0.1000	10.4		20.0			
Ethyl methacrylate	0.7960 0.7207	0.7432 0.7615	0.7591 0.7187	0.7437	0.7667	Ave		0.7512				3.4		20.0			
1,1,2-Trichloroethane	0.3556 0.3845	0.2866 0.4045	0.3609 0.3869	0.4200	0.3937	Ave		0.3741			0.1000	11.0		20.0			
Tetrachloroethene	++++ 0.6139	0.5599 0.6535	0.6213 0.6237	0.6405	0.6659	Ave		0.6255			0.2000	5.5		20.0			
1,3-Dichloropropane	0.8761 0.8599	0.8895 0.9029	0.8114 0.8473	0.8528	0.8988	Ave		0.8673				3.5		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-83014-1 Analy Batch No.: 241387
SDG No.: _____
Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 05/08/2015 14:56 Calibration End Date: 05/08/2015 17:36 Calibration ID: 23328

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2-Hexanone	0.5535 0.4836	0.5335 0.5012	0.5318 0.4434	0.5224	0.5428	Ave		0.5140			0.1000	7.1		20.0			
Dibromochloromethane	0.4030 0.4975	0.3974 0.5514	0.4604 0.5585	0.4725	0.4897	Ave		0.4788			0.1000	12.4		20.0			
1,2-Dibromoethane	0.4656 0.5078	0.4293 0.5365	0.5016 0.5146	0.5291	0.5308	Ave		0.5019				7.4		20.0			
Chlorobenzene	1.6920 1.5695	1.5744 1.6798	1.5914 1.5773	1.6305	1.6833	Ave		1.6248			0.5000	3.3		20.0			
1,1,1,2-Tetrachloroethane	0.4803 0.5308	0.4914 0.5657	0.5022 0.5433	0.5251	0.5473	Ave		0.5233				5.7		20.0			
Ethylbenzene	2.6868 2.4597	2.5390 2.6051	2.4117 2.3801	2.6453	2.6721	Ave		2.5500			0.1000	4.7		20.0			
m,p-Xylene	++++ 0.9940	0.9308 1.0555	0.9926 1.0096	1.0081	1.0416	Ave		1.0046			0.1000	4.0		20.0			
o-Xylene	1.1208 0.9792	0.9672 1.0459	0.9602 0.9786	1.0048	1.0899	Ave		1.0183			0.3000	5.9		20.0			
Styrene	1.6143 1.6677	1.6318 1.7851	1.6551 1.6580	1.7453	1.8157	Ave		1.6966			0.3000	4.4		20.0			
Bromoform	++++ 0.2794	0.2102 0.3268	0.2198 0.3354	0.2508	0.2710	Ave		0.2705			0.1000	17.9		20.0			
Isopropylbenzene	2.8260 2.6508	2.3877 2.7361	2.4935 2.6342	2.8193	2.8083	Ave		2.6695			0.1000	6.0		20.0			
Bromobenzene	0.6671 0.6558	0.5720 0.6911	0.6433 0.6661	0.7054	0.7031	Ave		0.6630				6.5		20.0			
1,1,2,2-Tetrachloroethane	0.5848 0.6236	0.5809 0.6562	0.5909 0.6356	0.6379	0.6378	Ave		0.6185			0.3000	4.7		20.0			
1,2,3-Trichloropropane	++++ 0.2176	0.1147 0.2140	0.2225 0.2062	0.2220	0.2289	Ave		0.2037				19.6		20.0			
trans-1,4-Dichloro-2-butene	++++ 0.2499	0.1828 0.2539	0.1937 0.2530	0.2336	0.2402	Ave		0.2296				12.8		20.0			
N-Propylbenzene	3.0815 2.9619	2.9335 3.0730	2.9136 2.9080	3.2193	3.1875	Ave		3.0348				4.1		20.0			
2-Chlorotoluene	0.6310 0.6408	0.5730 0.6595	0.6265 0.6509	0.6540	0.7171	Ave		0.6441				6.2		20.0			
1,3,5-Trimethylbenzene	2.3665 2.2997	2.0735 2.3571	2.2899 2.2371	2.5049	2.4888	Ave		2.3272				6.0		20.0			
4-Chlorotoluene	0.7451 0.6672	0.6113 0.7010	0.6553 0.6768	0.7316	0.7060	Ave		0.6868				6.3		20.0			
tert-Butylbenzene	0.5900 0.5852	0.4165 0.5983	0.5068 0.5621	0.5825	0.6054	Ave		0.5559				11.5		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-83014-1 Analy Batch No.: 241387
SDG No.: _____
Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 05/08/2015 14:56 Calibration End Date: 05/08/2015 17:36 Calibration ID: 23328

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trimethylbenzene	2.3690 2.3295	2.1869 2.3951	2.2553 2.2544	2.4857	2.5674	Ave		2.3554				5.4		20.0			
sec-Butylbenzene	2.8287 2.9223	2.7180 3.0081	2.6614 2.8459	3.0060	3.0627	Ave		2.8816				5.0		20.0			
1,3-Dichlorobenzene	1.3143 1.2369	1.1933 1.2755	1.2244 1.2117	1.3749	1.3823	Ave		1.2767			0.6000	5.7		20.0			
4-Isopropyltoluene	2.3403 2.5430	2.0991 2.6295	2.4597 2.4279	2.7243	2.7393	Ave		2.4954				8.6		20.0			
1,4-Dichlorobenzene	++++ 1.2752	1.3231 1.3137	1.3095 1.2809	1.3224	1.3856	Ave		1.3158			0.5000	2.8		20.0			
n-Butylbenzene	2.1104 2.1860	2.0136 2.2283	2.1064 2.1124	2.3717	2.4240	Ave		2.1941				6.4		20.0			
1,2-Dichlorobenzene	1.3788 1.2453	1.2086 1.2718	1.2719 1.2090	1.2766	1.3542	Ave		1.2770			0.4000	4.8		20.0			
1,2-Dibromo-3-Chloropropane	++++ 0.1275	0.1285 0.1400	0.1190 0.1395	0.1324	0.1349	Ave		0.1317			0.0500	5.6		20.0			
1,2,4-Trichlorobenzene	++++ 0.9814	0.9234 1.0343	0.9814 0.9426	1.0522	1.0621	Ave		0.9968			0.2000	5.4		20.0			
Hexachlorobutadiene	0.5308 0.4774	0.3813 0.4948	0.4224 0.4668	0.4891	0.4963	Ave		0.4698				10.0		20.0			
Naphthalene	2.1692 2.4762	2.0141 2.5263	2.2641 2.3835	2.4273	2.5784	Ave		2.3549				8.2		20.0			
1,2,3-Trichlorobenzene	0.8605 0.9248	0.8662 0.9564	0.9005 0.9145	0.9623	1.0365	Ave		0.9277				6.2		20.0			
Dibromofluoromethane (Surr)	1.1352 1.0779	1.0822 1.1201	1.0556 1.0574	1.1075	1.1307	Ave		1.0958				2.9		20.0			
1,2-Dichloroethane-d4 (Surr)	0.7621 0.7090	0.7271 0.7026	0.7177 0.6860	0.7370	0.7455	Ave		0.7234				3.4		20.0			
Toluene-d8 (Surr)	2.2740 2.1991	2.2009 2.2706	2.1343 2.1921	2.1599	2.2128	Ave		2.2055				2.2		20.0			
4-Bromofluorobenzene (Surr)	0.7247 0.6976	0.7071 0.7324	0.6740 0.6933	0.6724	0.6976	Ave		0.6999				3.1		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-83014-1 Analy Batch No.: 241387

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2015 14:56 Calibration End Date: 05/08/2015 17:36 Calibration ID: 23328

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-241387/5	S8215.D
Level 2	IC 480-241387/6	S8216.D
Level 3	IC 480-241387/7	S8217.D
Level 4	IC 480-241387/8	S8218.D
Level 5	IC 480-241387/9	S8219.D
Level 6	ICIS 480-241387/10	S8220.D
Level 7	IC 480-241387/11	S8221.D
Level 8	IC 480-241387/12	S8222.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	++++ 155342	4744 320184	12800 649989	30993	60097	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloromethane	FB	Ave	2890 158804	4773 348240	13356 696124	30954	65701	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl chloride	FB	Ave	2541 131392	4486 274364	11615 550978	26476	55462	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Butadiene	FB	Ave	2892 151196	5069 297614	13087 600106	31077	60720	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromomethane	FB	Ave	++++ 31342	1608 69578	2962 183246	7452	12958	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloroethane	FB	Ave	++++ 67742	1974 134968	6157 277056	14391	27531	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Dichlorofluoromethane	FB	Lin1	++++ 109345	1934 249809	7141 543888	16691	37836	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichlorofluoromethane	FB	Lin1	++++ 149995	2431 329624	9933 680467	25534	56218	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl ether	FB	Ave	2260 130809	5527 262318	10320 526874	27817	55109	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrolein	FB	Ave	1344 71034	3622 143860	5621 297756	15732	31205	2.50 125	5.00 250	10.0 500	25.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	2297 125398	3811 260228	8874 521839	25857	49903	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethene	FB	Ave	2243 118664	4580 243036	9142 479639	25172	47836	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Acetone	FB	Ave	++++ 268082	12313 543796	26051 1073938	57405	118111	++++ 125	5.00 250	10.0 500	25.0	50.0
Iodomethane	FB	Ave	2872 180958	5670 348321	14315 682616	36880	73724	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon disulfide	FB	Ave	6343 345829	12037 723865	25510 1468365	68483	136027	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-83014-1 Analy Batch No.: 241387

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2015 14:56 Calibration End Date: 05/08/2015 17:36 Calibration ID: 23328

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Allyl chloride	FB	Ave	+++++ 229845	10080 453617	20579 925726	46060	93367	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Methyl acetate	FB	Ave	12604 662817	29076 1338314	56427 2618491	139308	291019	2.50 125	5.00 250	10.0 500	25.0	50.0
Methylene Chloride	FB	Lin1	6475 126430	9161 254564	16089 498277	31756	58039	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Methyl-2-propanol	FB	Ave	3543 206506	7897 428264	16939 841002	41540	90692	5.00 250	10.0 500	20.0 1000	50.0	100
Methyl tert-butyl ether	FB	Ave	7895 401918	17241 804081	34254 1572376	86180	173810	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,2-Dichloroethene	FB	Ave	+++++ 125218	4722 254057	9063 498556	27954	52520	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrylonitrile	FB	Ave	11802 607587	24721 1238078	53171 2422891	132347	261798	5.00 250	10.0 500	20.0 1000	50.0	100
Hexane	FB	Ave	4671 227688	7266 465697	17162 946041	49006	95394	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethane	FB	Ave	4909 252907	9144 513909	19337 1053433	53177	107888	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl acetate	FB	Ave	12600 634771	24393 1317664	48819 2616949	129423	271578	1.00 50.0	2.00 100	4.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	2763 133947	4648 262936	11034 518592	27533	54708	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	2958 140016	5392 280224	9552 554781	30208	58428	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Butanone (MEK)	FB	Ave	8565 404442	16384 821598	34986 1611940	86321	174082	2.50 125	5.00 250	10.0 500	25.0	50.0
Chlorobromomethane	FB	Ave	+++++ 71674	2312 146070	4398 290005	13861	29171	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrahydrofuran	FB	Ave	+++++ 106199	4043 218847	9030 432843	23144	46862	+++++ 50.0	2.00 100	4.00 200	10.0	20.0
Chloroform	FB	Ave	+++++ 236374	9598 471257	19601 943183	50040	97841	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1-Trichloroethane	FB	Ave	3033 181899	5133 371683	13449 742843	35635	73630	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Cyclohexane	FB	Ave	5227 255383	8786 529761	18294 1043627	53229	101345	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon tetrachloride	FB	Ave	+++++ 179676	6238 379112	13304 769179	36769	72265	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloropropene	FB	Ave	3224 183072	6952 377162	14276 753050	39314	77868	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Isobutyl alcohol	FB	Ave	3839 213265	8617 440438	16972 860181	41326	91663	12.5 625	25.0 1250	50.0 2500	125	250

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-83014-1 Analy Batch No.: 241387

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2015 14:56 Calibration End Date: 05/08/2015 17:36 Calibration ID: 23328

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Benzene	FB	Ave	10385 528593	20161 1069304	42168 2086416	113001	222633	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloroethane	FB	Ave	4914 210353	9842 431771	18579 851037	45706	94721	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Heptane	FB	Ave	4394 224345	8606 463304	16938 954774	49455	92757	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichloroethene	FB	Ave	2619 139367	4882 283768	11124 562566	29039	57409	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Methylcyclohexane	FB	Ave	4792 235044	7135 481972	16103 969474	48174	95985	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloropropane	FB	Ave	2545 133885	5205 281046	11424 554251	27277	57404	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromomethane	FB	Ave	1321 82176	2959 165941	6721 324964	16604	35097	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dioxane	CBZ	Ave	++++ 25766	1042 54384	2150 103730	4558	11136	++++ 500	20.0 1000	40.0 2000	100	200
Bromodichloromethane	FB	Ave	3197 172950	5294 355357	12691 736420	33943	68436	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chloroethyl vinyl ether	FB	Ave	1882 91962	3018 191165	7518 395130	18173	39438	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,3-Dichloropropene	FB	Ave	3549 214338	7149 450422	15186 907842	42671	89316	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Methyl-2-pentanone (MIBK)	CBZ	Ave	17538 805115	35294 1619689	76503 3080806	185732	366305	2.50 125	5.00 250	10.0 500	25.0	50.0
Toluene	CBZ	Ave	6937 337614	12806 661667	27136 1315079	70488	140553	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,3-Dichloropropene	CBZ	Ave	3136 198700	6679 417509	13621 852029	38710	82564	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl methacrylate	CBZ	Ave	3676 179222	7125 361435	15149 718109	37192	75655	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloroethane	CBZ	Ave	1642 95620	2747 191991	7202 386560	21004	38844	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrachloroethene	CBZ	Ave	++++ 152670	5367 310156	12400 623237	32032	65703	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichloropropane	CBZ	Ave	4046 213838	8527 428535	16194 846640	42649	88686	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Hexanone	CBZ	Ave	12780 601256	25570 1189462	53064 2215029	130630	267793	2.50 125	5.00 250	10.0 500	25.0	50.0
Dibromochloromethane	CBZ	Ave	1861 123720	3810 261704	9188 558066	23628	48322	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromoethane	CBZ	Ave	2150 126271	4115 254656	10011 514151	26462	52376	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-83014-1 Analy Batch No.: 241387

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2015 14:56 Calibration End Date: 05/08/2015 17:36 Calibration ID: 23328

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chlorobenzene	CBZ	Ave	7814 390287	15093 797309	31760 1576061	81543	166088	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	2218 131991	4711 268526	10022 542839	26261	54001	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethylbenzene	CBZ	Ave	12408 611675	24340 1236486	48132 2378174	132291	263658	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
m,p-Xylene	CBZ	Ave	++++ 247172	8923 500974	19810 1008770	50413	102776	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
o-Xylene	CBZ	Ave	5176 243496	9272 496403	19163 977818	50248	107539	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Styrene	CBZ	Ave	7455 414716	15643 847272	33031 1656628	87285	179154	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromoform	CBZ	Ave	++++ 69481	2015 155110	4386 335085	12543	26740	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Isopropylbenzene	DCB	Ave	13593 636122	23817 1264122	49636 2469884	136042	267797	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromobenzene	DCB	Ave	3209 157361	5706 319295	12806 624555	34039	67046	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2,2-Tetrachloroethane	DCB	Ave	2813 149643	5794 303196	11763 595908	30783	60821	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichloropropane	DCB	Ave	++++ 52211	1144 98851	4430 193290	10710	21830	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,4-Dichloro-2-butene	DCB	Ave	++++ 59964	1823 117318	3855 237207	11273	22902	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
N-Propylbenzene	DCB	Ave	14822 710756	29261 1419777	57997 2726585	155343	303965	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chlorotoluene	DCB	Ave	3035 153762	5716 304717	12472 610265	31557	68386	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3,5-Trimethylbenzene	DCB	Ave	11383 551862	20683 1089009	45582 2097578	120871	237336	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Chlorotoluene	DCB	Ave	3584 160113	6098 323890	13044 634609	35302	67320	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
tert-Butylbenzene	DCB	Ave	2838 140431	4155 276422	10089 527025	28107	57727	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trimethylbenzene	DCB	Ave	11395 559003	21814 1106561	44893 2113741	119943	244830	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
sec-Butylbenzene	DCB	Ave	13606 701266	27112 1389806	52978 2668379	145051	292062	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichlorobenzene	DCB	Ave	6322 296830	11903 589316	24372 1136092	66344	131815	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Isopropyltoluene	DCB	Ave	11257 610255	20938 1214865	48962 2276481	131456	261222	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-83014-1 Analy Batch No.: 241387

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2015 14:56 Calibration End Date: 05/08/2015 17:36 Calibration ID: 23328

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dichlorobenzene	DCB	Ave	+++++ 306012	13198 606966	26067 1201004	63809	132130	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Butylbenzene	DCB	Ave	10151 524572	20085 1029487	41930 1980641	114444	231150	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichlorobenzene	DCB	Ave	6632 298842	12056 587605	25318 1133572	61601	129135	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	+++++ 30602	1282 64665	2368 130840	6388	12864	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trichlorobenzene	DCB	Ave	+++++ 235515	9211 477867	19535 883774	50774	101284	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Hexachlorobutadiene	DCB	Ave	2553 114555	3803 228592	8408 437650	23600	47326	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Naphthalene	DCB	Ave	10434 594220	20090 1167178	45068 2234775	117126	245876	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichlorobenzene	DCB	Ave	4139 221921	8640 441886	17926 857425	46434	98846	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromofluoromethane (Surr)	FB	Ave	148898 151626	147373 151818	148642 150156	151180	154621	27.2 27.2	27.2 27.2	27.2 27.2	27.2	27.2
1,2-Dichloroethane-d4 (Surr)	FB	Ave	99962 99730	99017 95229	101062 97411	100609	101948	27.2 27.2	27.2 27.2	27.2 27.2	27.2	27.2
Toluene-d8 (Surr)	CBZ	Ave	570747 594411	573334 585713	578740 595199	587042	593305	27.2 27.2	27.2 27.2	27.2 27.2	27.2	27.2
4-Bromofluorobenzene (Surr)	CBZ	Ave	181894 188570	184211 188937	182770 188252	182756	187056	27.2 27.2	27.2 27.2	27.2 27.2	27.2	27.2

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8215.D
 Lims ID: IC 0.5
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 08-May-2015 14:56:30 ALS Bottle#: 43 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 0.5
 Misc. Info.: 480-0042209-005
 Operator ID: EB Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 12-May-2015 17:14:24 Calib Date: 08-May-2015 21:23:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8232.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: feldmanl

Date: 11-May-2015 15:20:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.652	5.658	-0.006	98	120676	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.665	8.665	0.000	85	230907	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.028	11.028	0.000	95	240502	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.049	5.055	-0.006	77	148898	27.2	28.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.366	5.366	0.000	0	99962	27.2	28.6	
\$ 5 Toluene-d8 (Surr)	98	7.180	7.180	0.000	93	570747	27.2	28.0	
\$ 6 4-Bromofluorobenzene (Surr	174	9.907	9.907	0.000	87	181894	27.2	28.1	
10 Dichlorodifluoromethane	85	1.360	1.360	0.000	1	2114	0.5000	0.3677	
12 Chloromethane	50	1.518	1.524	-0.006	39	2890	0.5000	0.4822	
13 Vinyl chloride	62	1.634	1.640	-0.006	21	2541	0.5000	0.5017	
151 Butadiene	54	1.664	1.664	0.000	70	2892	0.5000	0.5085	
14 Bromomethane	94	1.969	1.957	0.012	11	1312	0.5000	0.9360	
15 Chloroethane	64		2.078				ND	ND	
16 Dichlorofluoromethane	67	2.304	2.310	-0.006	1	1527	0.5000	1.20	
17 Trichlorofluoromethane	101	2.328	2.334	-0.006	0	981	0.5000	0.8660	M
18 Ethyl ether	59	2.614	2.620	-0.006	60	2260	0.5000	0.4508	
20 Acrolein	56	2.785	2.785	0.000	46	1344	2.50	2.34	
21 1,1,2-Trichloro-1,2,2-trif	101	2.864	2.858	0.006	1	2297	0.5000	0.5009	
22 1,1-Dichloroethene	96	2.858	2.864	-0.006	60	2243	0.5000	0.4965	
23 Acetone	43	2.949	2.949	0.000	90	6709	2.50	3.06	
25 Iodomethane	142	3.028	3.028	0.000	50	2872	0.5000	0.4433	
26 Carbon disulfide	76	3.071	3.071	0.000	62	6343	0.5000	0.4934	
28 3-Chloro-1-propene	41	3.217	3.217	0.000	51	7595	0.5000	0.8438	
27 Methyl acetate	43	3.259	3.259	0.000	69	12604	2.50	2.41	
30 Methylene Chloride	84	3.375	3.387	-0.012	66	6475	0.5000	0.4014	
31 2-Methyl-2-propanol	59	3.521	3.521	0.000	59	3543	5.00	4.50	M
32 Methyl tert-butyl ether	73	3.594	3.594	0.000	53	7895	0.5000	0.4987	
34 trans-1,2-Dichloroethene	96	3.600	3.600	0.000	47	1970	0.5000	0.4132	
33 Acrylonitrile	53	3.637	3.631	0.006	83	11802	5.00	4.92	
35 Hexane	57	3.826	3.826	0.000	70	4671	0.5000	0.5404	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	4.027	4.027	0.000	1	4909	0.5000	0.5080	
37 Vinyl acetate	43	4.081	4.075	0.006	90	12600	1.00	1.03	
44 2,2-Dichloropropane	77	4.550	4.562	-0.012	11	2763	0.5000	0.5450	
45 cis-1,2-Dichloroethene	96	4.574	4.587	-0.013	1	2958	0.5000	0.5537	
43 2-Butanone (MEK)	43	4.617	4.611	0.006	84	8565	2.50	2.67	
48 Chlorobromomethane	128	4.818	4.824	-0.006	46	1559	0.5000	0.6091	
49 Tetrahydrofuran	42	4.867	4.848	0.019	73	2944	1.00	1.41	
50 Chloroform	83	4.891	4.897	-0.006	29	5673	0.5000	0.6202	
51 1,1,1-Trichloroethane	97	5.031	5.031	0.000	1	3033	0.5000	0.4664	
52 Cyclohexane	56	5.049	5.055	-0.006	1	5227	0.5000	0.5444	
55 Carbon tetrachloride	117	5.171	5.177	-0.006	4	2755	0.5000	0.4073	M
54 1,1-Dichloropropene	75	5.183	5.183	0.000	9	3224	0.5000	0.4614	
53 Isobutyl alcohol	43	5.372	5.366	0.006	5	3839	12.5	11.8	
57 Benzene	78	5.384	5.384	0.000	49	10385	0.5000	0.5110	
58 1,2-Dichloroethane	62	5.439	5.439	0.000	47	4914	0.5000	0.5625	
59 n-Heptane	43	5.585	5.585	0.000	74	4394	0.5000	0.5056	
62 Trichloroethene	95	5.999	6.005	-0.006	44	2619	0.5000	0.4977	
64 Methylcyclohexane	83	6.151	6.145	0.006	22	4792	0.5000	0.5518	
65 1,2-Dichloropropane	63	6.230	6.236	-0.006	29	2545	0.5000	0.4880	
67 Dibromomethane	93	6.376	6.364	0.012	21	1321	0.5000	0.4321	
66 1,4-Dioxane	88		6.370				ND	ND	
68 Dichlorobromomethane	83	6.529	6.523	0.006	1	3197	0.5000	0.5052	M
69 2-Chloroethyl vinyl ether	63	6.803	6.797	0.006	1	1882	0.5000	0.5334	
72 cis-1,3-Dichloropropene	75	6.943	6.943	0.000	42	3549	0.5000	0.4512	
73 4-Methyl-2-pentanone (MIBK)	43	7.089	7.077	0.012	82	17538	2.50	2.67	
74 Toluene	92	7.241	7.247	-0.006	49	6937	0.5000	0.5413	
77 trans-1,3-Dichloropropene	75	7.509	7.503	0.006	31	3136	0.5000	0.4381	
75 Ethyl methacrylate	69	7.557	7.558	-0.001	16	3676	0.5000	0.5298	
79 1,1,2-Trichloroethane	83	7.697	7.691	0.006	15	1642	0.5000	0.4753	
81 Tetrachloroethene	166	7.789	7.789	0.000	59	3487	0.5000	0.6035	
82 1,3-Dichloropropane	76	7.862	7.862	0.000	31	4046	0.5000	0.5051	
80 2-Hexanone	43	7.923	7.923	0.000	75	12780	2.50	2.69	
83 Chlorodibromomethane	129	8.105	8.099	0.006	1	1861	0.5000	0.4208	
84 Ethylene Dibromide	107	8.203	8.209	-0.006	33	2150	0.5000	0.4638	
87 Chlorobenzene	112	8.696	8.696	0.000	18	7814	0.5000	0.5207	
89 1,1,1,2-Tetrachloroethane	131	8.787	8.787	0.000	1	2218	0.5000	0.4589	
88 Ethylbenzene	91	8.787	8.793	-0.006	46	12408	0.5000	0.5268	
90 m-Xylene & p-Xylene	106	8.915	8.915	0.000	0	5468	0.5000	0.5893	
91 o-Xylene	106	9.335	9.341	-0.006	51	5176	0.5000	0.5503	
92 Styrene	104	9.359	9.366	-0.007	16	7455	0.5000	0.4757	
95 Bromoform	173		9.603				ND	ND	
94 Isopropylbenzene	105	9.719	9.719	0.000	45	13593	0.5000	0.5293	
101 Bromobenzene	156	10.053	10.054	-0.001	48	3209	0.5000	0.5031	
97 1,1,2,2-Tetrachloroethane	83	10.078	10.084	-0.006	1	2813	0.5000	0.4728	
100 1,2,3-Trichloropropane	110	10.120	10.120	0.000	2	1349	0.5000	0.6885	
98 trans-1,4-Dichloro-2-buten	53	10.127	10.133	-0.006	1	769	0.5000	0.3482	
99 N-Propylbenzene	91	10.139	10.139	0.000	67	14822	0.5000	0.5077	
103 2-Chlorotoluene	126	10.236	10.236	0.000	54	3035	0.5000	0.4898	
102 1,3,5-Trimethylbenzene	105	10.315	10.309	0.006	40	11383	0.5000	0.5084	
105 4-Chlorotoluene	126	10.340	10.346	-0.006	31	3584	0.5000	0.5425	
106 tert-Butylbenzene	134	10.626	10.626	0.000	37	2838	0.5000	0.5307	
107 1,2,4-Trimethylbenzene	105	10.674	10.674	0.000	44	11395	0.5000	0.5029	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.833	10.833	0.000	27	13606	0.5000	0.4908	
111 1,3-Dichlorobenzene	146	10.961	10.961	0.000	17	6322	0.5000	0.5148	
110 4-Isopropyltoluene	119	10.967	10.967	0.000	52	11257	0.5000	0.4689	
113 1,4-Dichlorobenzene	146	11.046	11.046	0.000	4	7607	0.5000	0.6010	
115 n-Butylbenzene	91	11.350	11.350	0.000	66	10151	0.5000	0.4809	
116 1,2-Dichlorobenzene	146	11.393	11.393	0.000	41	6632	0.5000	0.5398	
117 1,2-Dibromo-3-Chloropropan	75		12.111				ND	ND	
119 1,2,4-Trichlorobenzene	180	12.793	12.793	0.000	21	3865	0.5000	0.4031	
120 Hexachlorobutadiene	225	12.909	12.909	0.000	10	2553	0.5000	0.5648	
121 Naphthalene	128	13.000	13.000	0.000	56	10434	0.5000	0.4606	
122 1,2,3-Trichlorobenzene	180	13.201	13.201	0.000	31	4139	0.5000	0.4638	
S 125 1,2-Dichloroethene, Total	1				0			0.9669	
S 126 1,3-Dichloropropene, Total	1				0			0.8893	
S 123 Total BTEX	1				0			2.72	
S 124 Xylenes, Total	1				0			1.14	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00039

Amount Added: 0.50

Units: uL

GAS CORP mix_00086

Amount Added: 0.50

Units: uL

S_8260_IS_00099

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00105

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8215.D

Injection Date: 08-May-2015 14:56:30

Instrument ID: HP5973S

Operator ID: EB

Lims ID: IC 0.5

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

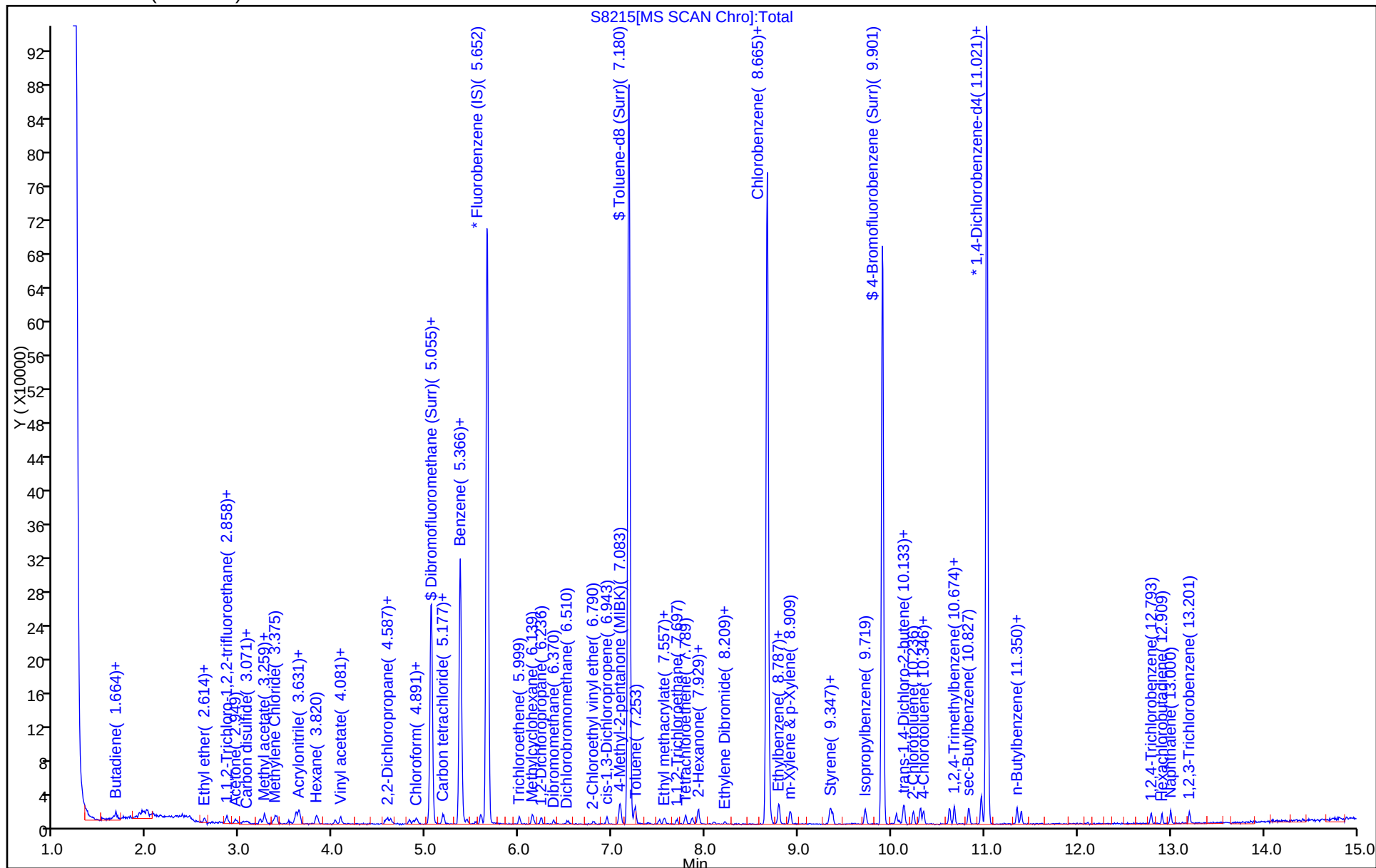
Dil. Factor: 1.0000

ALS Bottle#: 43

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8215.D

Injection Date: 08-May-2015 14:56:30

Instrument ID: HP5973S

Lims ID: IC 0.5

Client ID:

Operator ID: EB

ALS Bottle#:

43

Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: S-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector

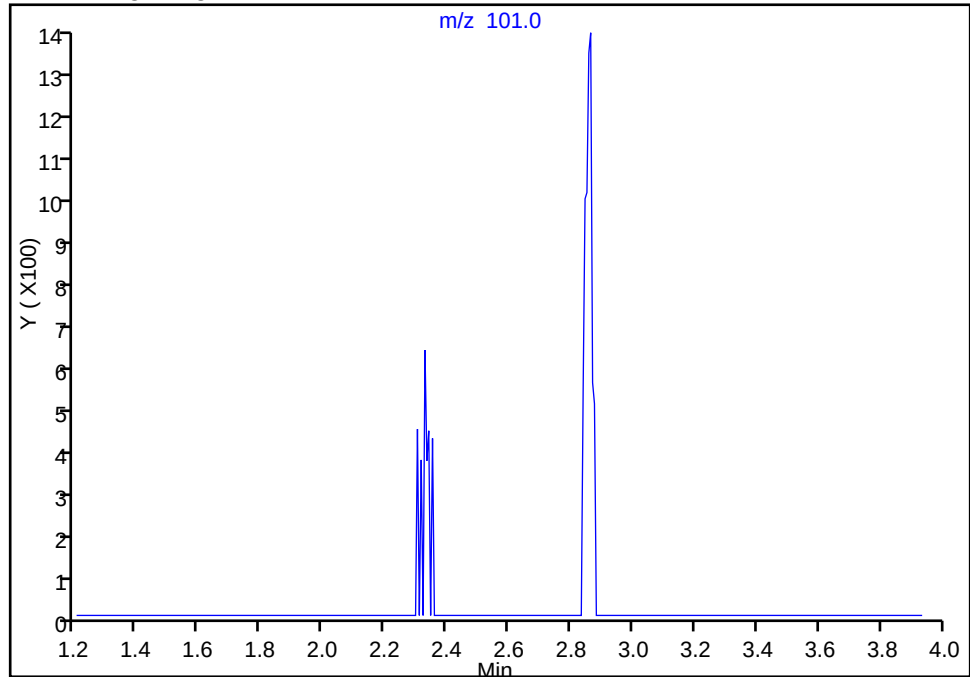
MS SCAN

17 Trichlorofluoromethane, CAS: 75-69-4

Not Detected

Expected RT: 2.33

Processing Integration Results



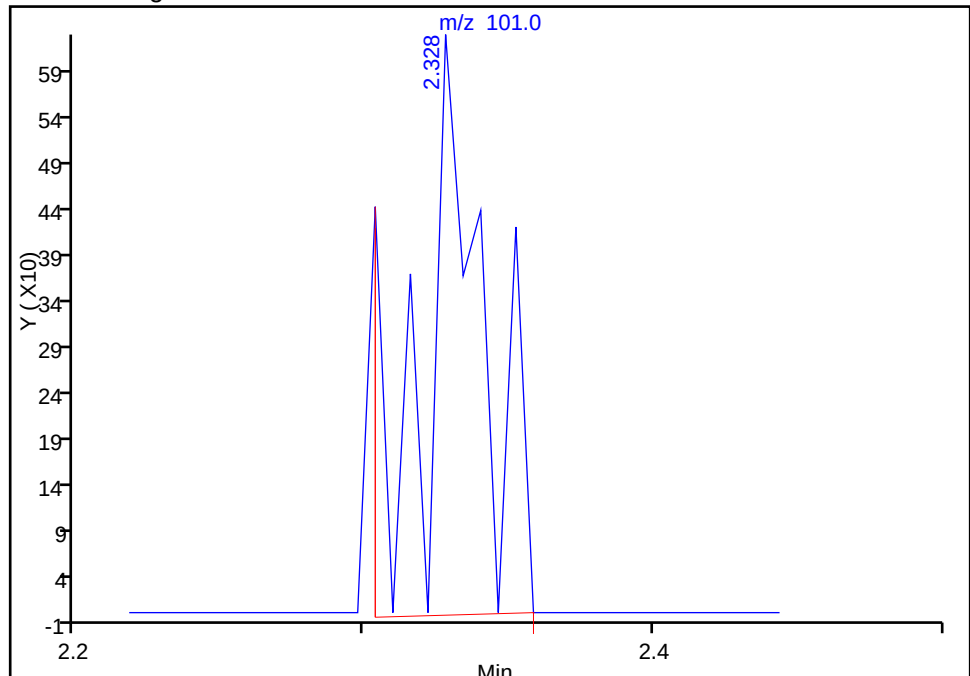
RT: 2.33

Area: 981

Amount: 0.866010

Amount Units: ug/L

Manual Integration Results



Reviewer: feldmanl, 11-May-2015 09:18:05

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8215.D

Injection Date: 08-May-2015 14:56:30

Instrument ID: HP5973S

Lims ID: IC 0.5

Client ID:

Operator ID: EB

ALS Bottle#:

43

Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

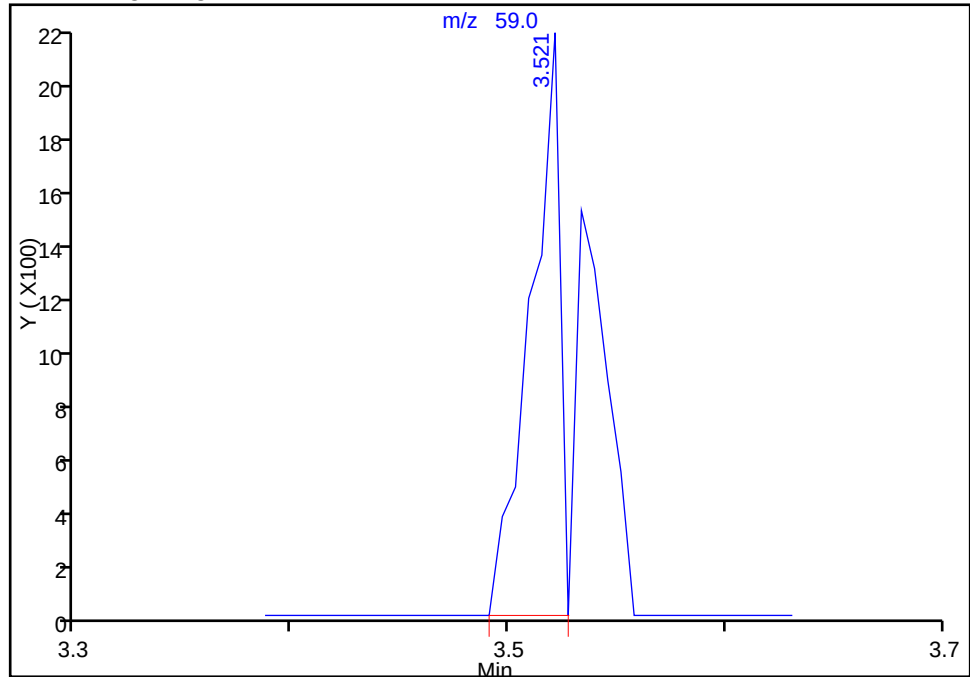
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

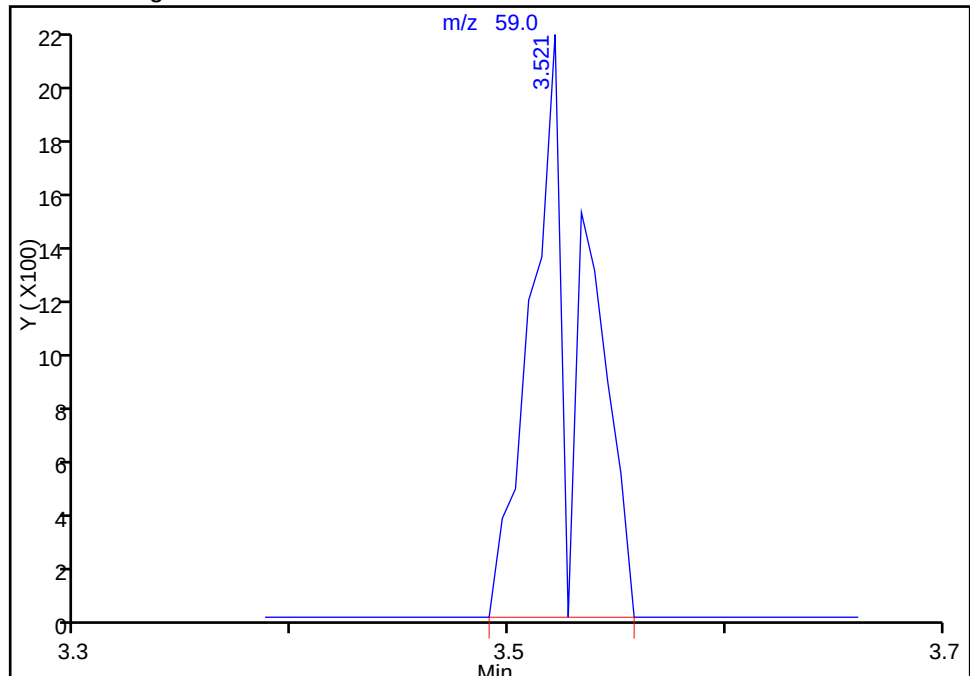
RT: 3.52
Area: 2013
Amount: 2.685628
Amount Units: ug/L

Processing Integration Results



RT: 3.52
Area: 3543
Amount: 4.497360
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 10-May-2015 11:01:25
Audit Action: Manually Integrated
Audit Reason: Missed Peak

TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8215.D

Injection Date: 08-May-2015 14:56:30

Instrument ID: HP5973S

Lims ID: IC 0.5

Client ID:

Operator ID: EB

ALS Bottle#:

43

Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: S-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

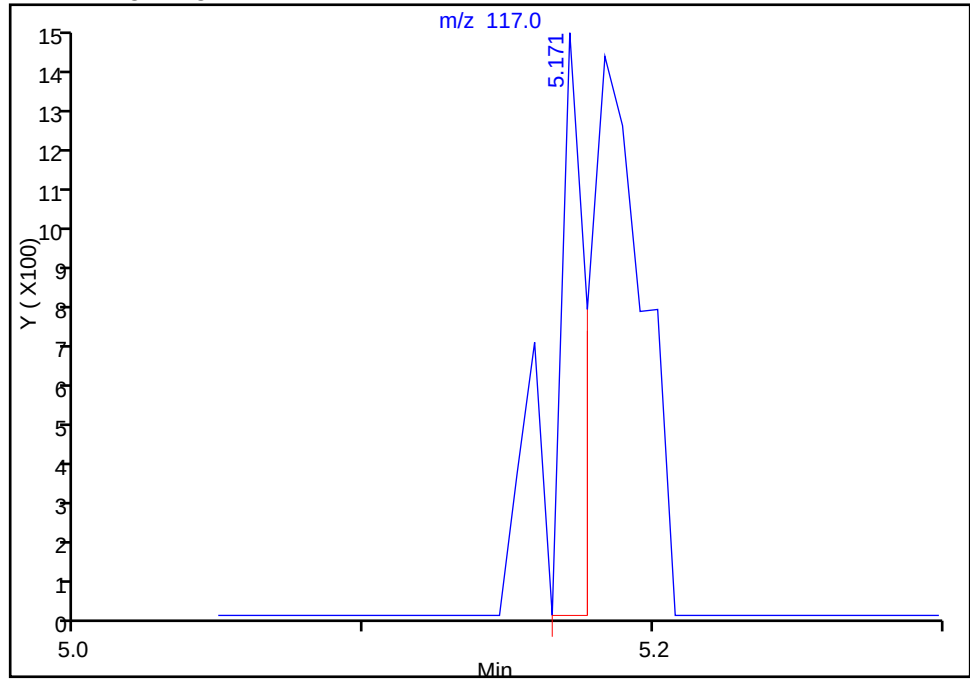
Detector

MS SCAN

55 Carbon tetrachloride, CAS: 56-23-5

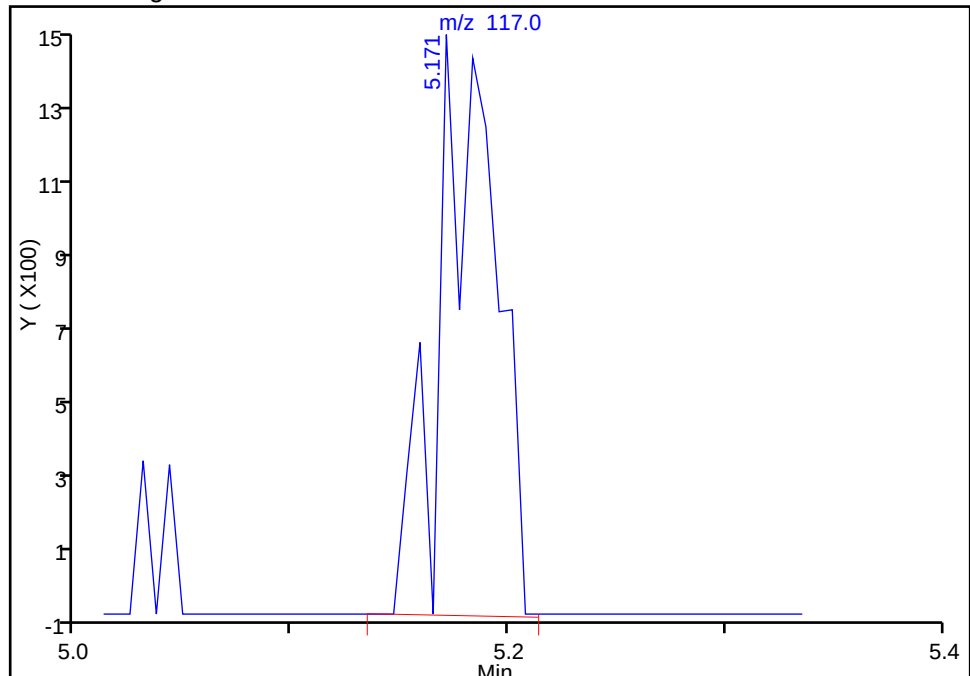
RT: 5.17
Area: 821
Amount: 0.121381
Amount Units: ug/L

Processing Integration Results



RT: 5.17
Area: 2755
Amount: 0.407313
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 10-May-2015 11:01:25

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8215.D

Injection Date: 08-May-2015 14:56:30

Instrument ID: HP5973S

Lims ID: IC 0.5

Client ID:

Operator ID: EB

ALS Bottle#:

43

Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

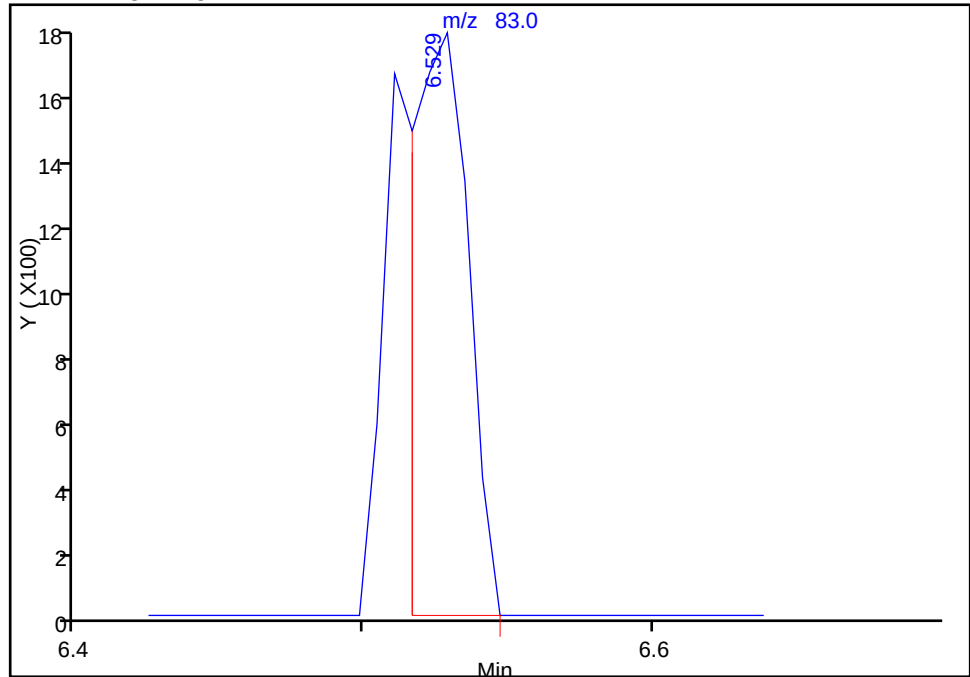
Column: ZB-624 (0.25 mm)

Detector MS SCAN

68 Dichlorobromomethane, CAS: 75-27-4

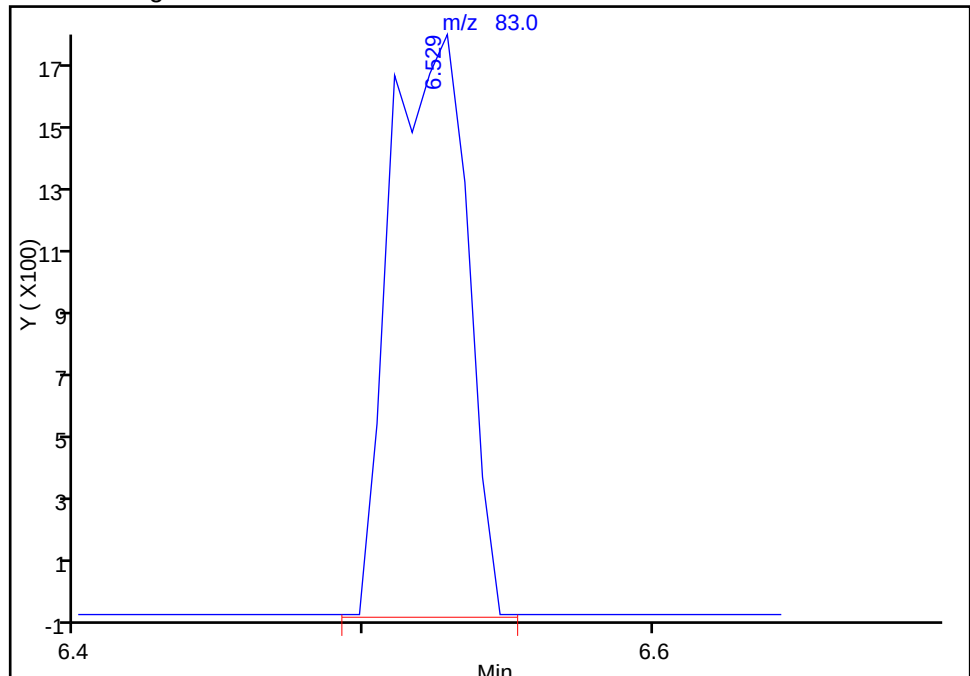
RT: 6.53
Area: 2368
Amount: 0.386893
Amount Units: ug/L

Processing Integration Results



RT: 6.53
Area: 3197
Amount: 0.505230
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 10-May-2015 11:01:25

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8216.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 08-May-2015 15:19:30 ALS Bottle#: 44 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 480-0042209-006
 Operator ID: EB Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 12-May-2015 17:14:59 Calib Date: 08-May-2015 21:23:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8232.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: HillL

Date: 10-May-2015 12:02:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.658	5.658	0.000	98	125289	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.665	8.665	0.000	85	239661	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.028	11.028	0.000	96	249372	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.055	5.055	0.000	70	147373	27.2	26.8	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.366	5.366	0.000	0	99017	27.2	27.3	
\$ 5 Toluene-d8 (Surr)	98	7.180	7.180	0.000	92	573334	27.2	27.1	
\$ 6 4-Bromofluorobenzene (Surr	174	9.907	9.907	0.000	88	184211	27.2	27.5	
10 Dichlorodifluoromethane	85	1.354	1.360	-0.006	28	4744	1.00	0.7947	
12 Chloromethane	50	1.524	1.524	0.000	54	4773	1.00	0.7671	
13 Vinyl chloride	62	1.634	1.640	-0.006	48	4486	1.00	0.8531	
151 Butadiene	54	1.664	1.664	0.000	94	5069	1.00	0.8584	
14 Bromomethane	94	1.951	1.957	-0.006	24	1608	1.00	1.10	
15 Chloroethane	64	2.084	2.078	0.006	1	1974	1.00	0.7446	
16 Dichlorofluoromethane	67	2.304	2.310	-0.006	1	1934	1.00	1.27	
17 Trichlorofluoromethane	101	2.316	2.334	-0.018	1	2431	1.00	1.08	
18 Ethyl ether	59	2.620	2.620	0.000	79	5527	1.00	1.06	
20 Acrolein	56	2.785	2.785	0.000	35	3622	5.00	6.07	
21 1,1,2-Trichloro-1,2,2-trif	101	2.852	2.858	-0.006	5	3811	1.00	0.8004	
22 1,1-Dichloroethene	96	2.858	2.864	-0.006	38	4580	1.00	0.9765	
23 Acetone	43	2.943	2.949	-0.006	86	12313	5.00	5.40	
25 Iodomethane	142	3.028	3.028	0.000	51	5670	1.00	0.8430	
26 Carbon disulfide	76	3.071	3.071	0.000	77	12037	1.00	0.9019	
28 3-Chloro-1-propene	41	3.211	3.217	-0.006	32	10080	1.00	1.08	
27 Methyl acetate	43	3.266	3.259	0.007	94	29076	5.00	5.36	
30 Methylene Chloride	84	3.381	3.387	-0.006	76	9161	1.00	0.9040	
31 2-Methyl-2-propanol	59	3.521	3.521	0.000	79	7897	10.0	9.66	
32 Methyl tert-butyl ether	73	3.594	3.594	0.000	82	17241	1.00	1.05	
34 trans-1,2-Dichloroethene	96	3.606	3.600	0.006	65	4722	1.00	0.9540	
33 Acrylonitrile	53	3.637	3.631	0.006	95	24721	10.0	9.94	
35 Hexane	57	3.820	3.826	-0.006	78	7266	1.00	0.8097	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	4.026	4.027	-0.001	1	9144	1.00	0.9114	
37 Vinyl acetate	43	4.081	4.075	0.006	94	24393	2.00	1.92	
44 2,2-Dichloropropane	77	4.550	4.562	-0.012	10	4648	1.00	0.8831	
45 cis-1,2-Dichloroethene	96	4.587	4.587	0.000	23	5392	1.00	0.9721	
43 2-Butanone (MEK)	43	4.611	4.611	0.000	83	16384	5.00	4.92	
48 Chlorobromomethane	128	4.830	4.824	0.006	1	2312	1.00	0.8700	M
49 Tetrahydrofuran	42	4.854	4.848	0.006	53	4043	2.00	1.86	
50 Chloroform	83	4.897	4.897	0.000	40	9598	1.00	1.01	
51 1,1,1-Trichloroethane	97	5.031	5.031	0.000	12	5133	1.00	0.7603	
52 Cyclohexane	56	5.068	5.055	0.013	18	8786	1.00	0.8814	
55 Carbon tetrachloride	117	5.177	5.177	0.000	60	6238	1.00	0.8883	
54 1,1-Dichloropropene	75	5.183	5.183	0.000	43	6952	1.00	0.9583	
53 Isobutyl alcohol	43	5.372	5.366	0.006	12	8617	25.0	25.5	
57 Benzene	78	5.384	5.384	0.000	86	20161	1.00	0.9555	
58 1,2-Dichloroethane	62	5.439	5.439	0.000	48	9842	1.00	1.09	
59 n-Heptane	43	5.591	5.585	0.006	80	8606	1.00	0.9538	
62 Trichloroethene	95	5.999	6.005	-0.006	57	4882	1.00	0.8936	
64 Methylcyclohexane	83	6.151	6.145	0.006	60	7135	1.00	0.7914	
65 1,2-Dichloropropane	63	6.242	6.236	0.006	33	5205	1.00	0.9612	
67 Dibromomethane	93	6.370	6.364	0.006	62	2959	1.00	0.9322	
66 1,4-Dioxane	88	6.382	6.370	0.012	1	1042	20.0	20.5	
68 Dichlorobromomethane	83	6.510	6.523	-0.013	11	5294	1.00	0.8058	
69 2-Chloroethyl vinyl ether	63	6.796	6.797	-0.001	34	3018	1.00	0.8238	
72 cis-1,3-Dichloropropene	75	6.943	6.943	0.000	36	7149	1.00	0.8755	
73 4-Methyl-2-pentanone (MIBK)	43	7.083	7.077	0.006	88	35294	5.00	5.17	
74 Toluene	92	7.241	7.247	-0.006	76	12806	1.00	0.9628	
77 trans-1,3-Dichloropropene	75	7.503	7.503	0.000	19	6679	1.00	0.8989	
75 Ethyl methacrylate	69	7.557	7.558	-0.001	43	7125	1.00	0.9894	
79 1,1,2-Trichloroethane	83	7.697	7.691	0.006	51	2747	1.00	0.7660	
81 Tetrachloroethene	166	7.789	7.789	0.000	49	5367	1.00	0.8950	
82 1,3-Dichloropropane	76	7.856	7.862	-0.006	61	8527	1.00	1.03	
80 2-Hexanone	43	7.923	7.923	0.000	93	25570	5.00	5.19	
83 Chlorodibromomethane	129	8.093	8.099	-0.006	17	3810	1.00	0.8301	
84 Ethylene Dibromide	107	8.209	8.209	0.000	46	4115	1.00	0.8552	
87 Chlorobenzene	112	8.696	8.696	0.000	43	15093	1.00	0.9690	
89 1,1,1,2-Tetrachloroethane	131	8.787	8.787	0.000	8	4711	1.00	0.9392	
88 Ethylbenzene	91	8.793	8.793	0.000	72	24340	1.00	1.00	
90 m-Xylene & p-Xylene	106	8.909	8.915	-0.006	0	8923	1.00	0.9265	
91 o-Xylene	106	9.341	9.341	0.000	83	9272	1.00	0.9498	
92 Styrene	104	9.366	9.366	0.000	76	15643	1.00	0.9618	
95 Bromoform	173	9.603	9.603	0.000	18	2015	1.00	0.7771	
94 Isopropylbenzene	105	9.719	9.719	0.000	68	23817	1.00	0.8944	
101 Bromobenzene	156	10.053	10.054	-0.001	67	5706	1.00	0.8628	
97 1,1,2,2-Tetrachloroethane	83	10.078	10.084	-0.006	10	5794	1.00	0.9392	
100 1,2,3-Trichloropropane	110	10.114	10.120	-0.006	37	1144	1.00	0.5631	
98 trans-1,4-Dichloro-2-buten	53	10.133	10.133	0.000	3	1823	1.00	0.7961	
99 N-Propylbenzene	91	10.133	10.139	-0.006	89	29261	1.00	0.9666	
103 2-Chlorotoluene	126	10.236	10.236	0.000	76	5716	1.00	0.8897	
102 1,3,5-Trimethylbenzene	105	10.309	10.309	0.000	74	20683	1.00	0.8910	
105 4-Chlorotoluene	126	10.346	10.346	0.000	70	6098	1.00	0.8901	
106 tert-Butylbenzene	134	10.626	10.626	0.000	58	4155	1.00	0.7494	
107 1,2,4-Trimethylbenzene	105	10.674	10.674	0.000	51	21814	1.00	0.9285	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.833	10.833	0.000	68	27112	1.00	0.9432	
111 1,3-Dichlorobenzene	146	10.961	10.961	0.000	57	11903	1.00	0.9347	
110 4-Isopropyltoluene	119	10.973	10.967	0.006	69	20938	1.00	0.8412	
113 1,4-Dichlorobenzene	146	11.046	11.046	0.000	10	13198	1.00	1.01	
115 n-Butylbenzene	91	11.350	11.350	0.000	71	20085	1.00	0.9177	
116 1,2-Dichlorobenzene	146	11.393	11.393	0.000	69	12056	1.00	0.9464	
117 1,2-Dibromo-3-Chloropropan	75	12.105	12.111	-0.006	1	1282	1.00	0.9760	
119 1,2,4-Trichlorobenzene	180	12.787	12.793	-0.006	50	9211	1.00	0.9264	
120 Hexachlorobutadiene	225	12.909	12.909	0.000	34	3803	1.00	0.8115	
121 Naphthalene	128	13.000	13.000	0.000	79	20090	1.00	0.8553	
122 1,2,3-Trichlorobenzene	180	13.201	13.201	0.000	43	8640	1.00	0.9337	
S 125 1,2-Dichloroethene, Total	1				0			1.93	
S 126 1,3-Dichloropropene, Total	1				0			1.77	
S 123 Total BTEX	1				0			4.79	
S 124 Xylenes, Total	1				0			1.88	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00039

Amount Added: 1.00

Units: uL

GAS CORP mix_00086

Amount Added: 1.00

Units: uL

S_8260_IS_00099

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00105

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8216.D

Injection Date: 08-May-2015 15:19:30

Instrument ID: HP5973S

Operator ID: EB

Lims ID: IC

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

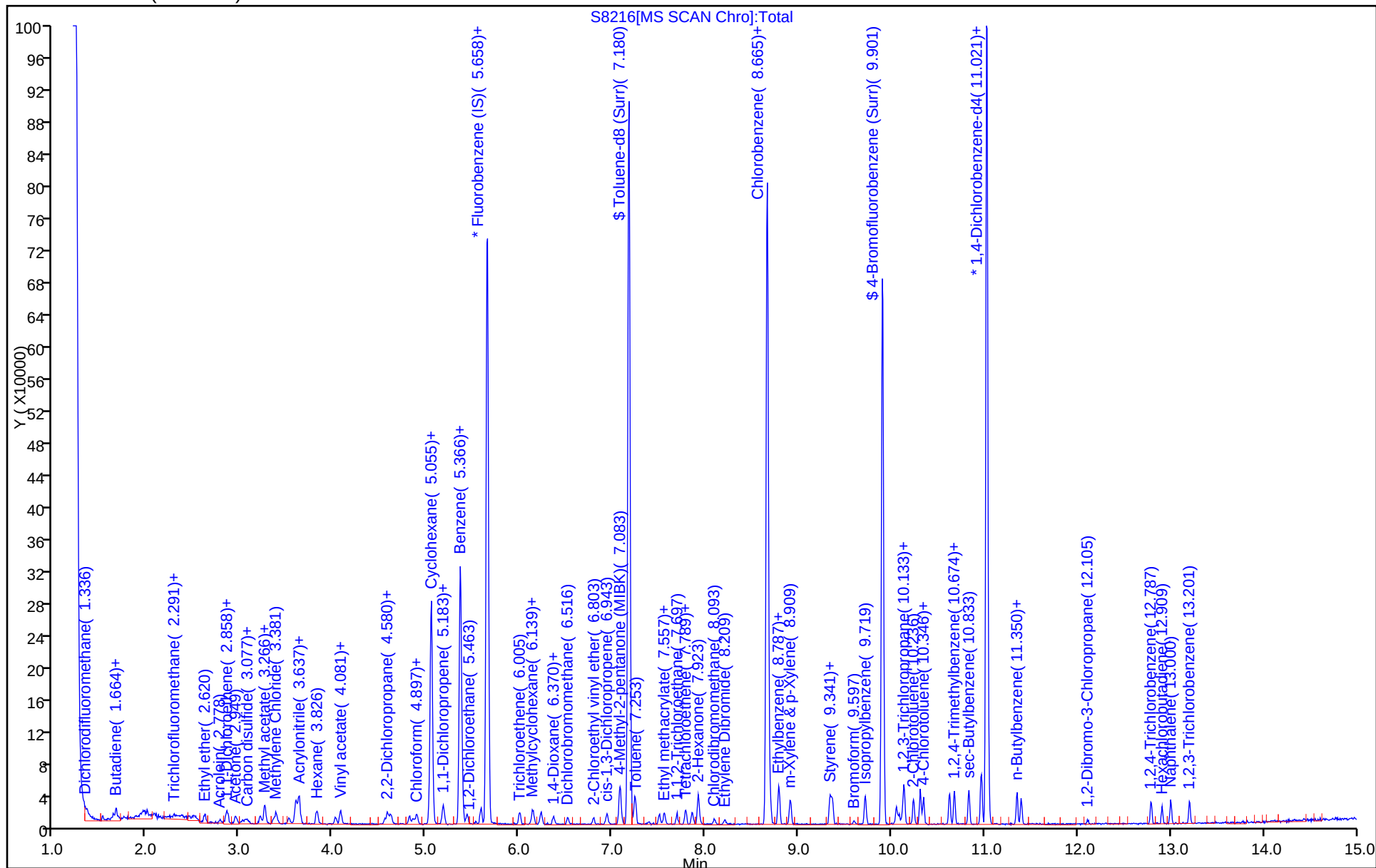
Dil. Factor: 1.0000

ALS Bottle#: 44

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8216.D

Injection Date: 08-May-2015 15:19:30

Instrument ID: HP5973S

Lims ID: IC

Client ID:

Operator ID: EB

ALS Bottle#:

44

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

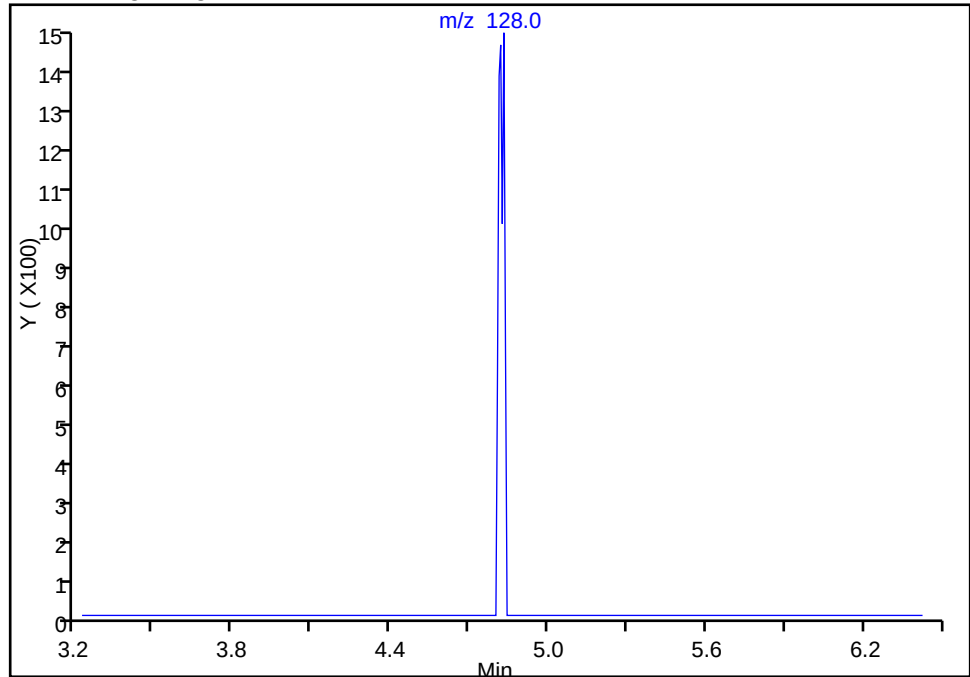
Detector: MS SCAN

48 Chlorobromomethane, CAS: 74-97-5

Not Detected

Expected RT: 4.82

Processing Integration Results



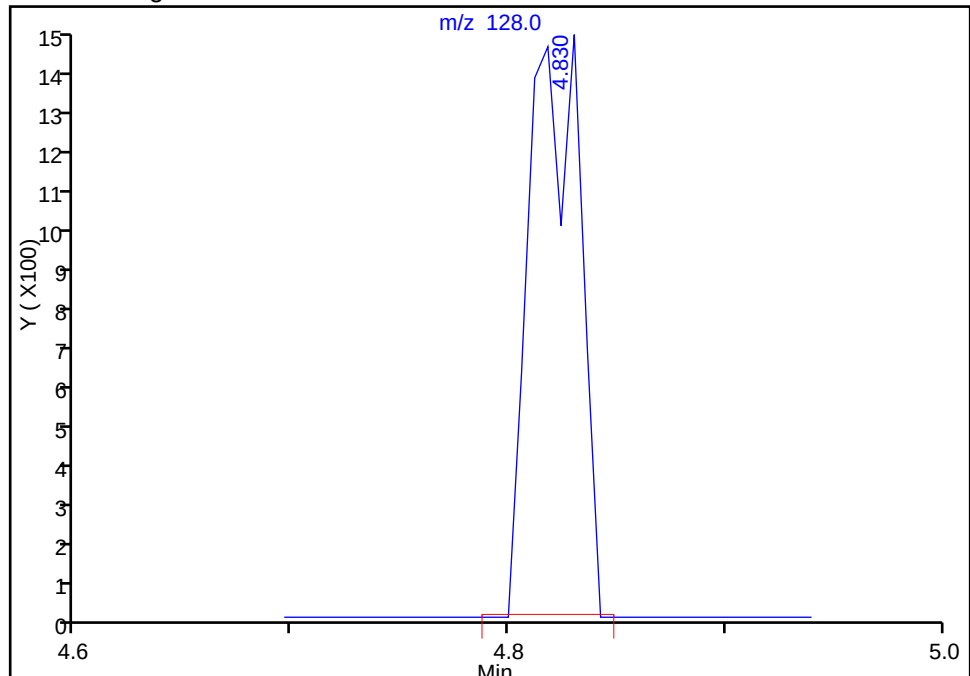
RT: 4.83

Area: 2312

Amount: 0.870046

Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 10-May-2015 11:03:51

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8217.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 08-May-2015 15:42:30 ALS Bottle#: 45 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 2
 Misc. Info.: 480-0042209-007
 Operator ID: EB Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 12-May-2015 17:15:16 Calib Date: 08-May-2015 21:23:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8232.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: HillL

Date: 10-May-2015 12:03:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.658	5.658	0.000	98	129553	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.665	8.665	0.000	87	249468	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.028	11.028	0.000	96	248823	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.049	5.055	-0.006	79	148642	27.2	26.2	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.366	5.366	0.000	0	101062	27.2	27.0	
\$ 5 Toluene-d8 (Surr)	98	7.180	7.180	0.000	92	578740	27.2	26.3	
\$ 6 4-Bromofluorobenzene (Surr	174	9.907	9.907	0.000	86	182770	27.2	26.2	
10 Dichlorodifluoromethane	85	1.360	1.360	0.000	69	12800	2.00	2.07	
12 Chloromethane	50	1.518	1.524	-0.006	69	13356	2.00	2.08	
13 Vinyl chloride	62	1.634	1.640	-0.006	64	11615	2.00	2.14	
151 Butadiene	54	1.664	1.664	0.000	89	13087	2.00	2.14	
14 Bromomethane	94	1.951	1.957	-0.006	65	2962	2.00	1.97	
15 Chloroethane	64	2.072	2.078	-0.006	35	6157	2.00	2.25	M
16 Dichlorofluoromethane	67	2.310	2.310	0.000	4	7141	2.00	2.25	
17 Trichlorofluoromethane	101	2.328	2.334	-0.006	54	9933	2.00	2.19	
18 Ethyl ether	59	2.620	2.620	0.000	80	10320	2.00	1.92	
20 Acrolein	56	2.785	2.785	0.000	69	5621	10.0	9.11	
21 1,1,2-Trichloro-1,2,2-trif	101	2.858	2.858	0.000	14	8874	2.00	1.80	
22 1,1-Dichloroethene	96	2.858	2.864	-0.006	73	9142	2.00	1.88	
23 Acetone	43	2.949	2.949	0.000	94	26051	10.0	11.1	
25 Iodomethane	142	3.022	3.028	-0.006	72	14315	2.00	2.06	
26 Carbon disulfide	76	3.071	3.071	0.000	79	25510	2.00	1.85	
28 3-Chloro-1-propene	41	3.217	3.217	0.000	64	20579	2.00	2.13	
27 Methyl acetate	43	3.259	3.259	0.000	96	56427	10.0	10.1	
30 Methylene Chloride	84	3.393	3.387	0.006	74	16089	2.00	2.22	
31 2-Methyl-2-propanol	59	3.527	3.521	0.006	78	16939	20.0	20.0	
32 Methyl tert-butyl ether	73	3.594	3.594	0.000	86	34254	2.00	2.02	
34 trans-1,2-Dichloroethene	96	3.600	3.600	0.000	45	9063	2.00	1.77	
33 Acrylonitrile	53	3.631	3.631	0.000	98	53171	20.0	20.7	
35 Hexane	57	3.826	3.826	0.000	90	17162	2.00	1.85	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	4.020	4.027	-0.007	52	19337	2.00	1.86	
37 Vinyl acetate	43	4.081	4.075	0.006	94	48819	4.00	3.72	
44 2,2-Dichloropropane	77	4.556	4.562	-0.006	57	11034	2.00	2.03	
45 cis-1,2-Dichloroethene	96	4.587	4.587	0.000	49	9552	2.00	1.67	M
43 2-Butanone (MEK)	43	4.611	4.611	0.000	88	34986	10.0	10.2	
48 Chlorobromomethane	128	4.824	4.824	0.000	70	4398	2.00	1.60	
49 Tetrahydrofuran	42	4.855	4.848	0.006	75	9030	4.00	4.03	
50 Chloroform	83	4.897	4.897	0.000	69	19601	2.00	2.00	
51 1,1,1-Trichloroethane	97	5.031	5.031	0.000	35	13449	2.00	1.93	
52 Cyclohexane	56	5.055	5.055	0.000	27	18294	2.00	1.77	
55 Carbon tetrachloride	117	5.177	5.177	0.000	62	13304	2.00	1.83	
54 1,1-Dichloropropene	75	5.183	5.183	0.000	53	14276	2.00	1.90	
53 Isobutyl alcohol	43	5.366	5.366	0.000	31	16972	50.0	48.6	
57 Benzene	78	5.390	5.384	0.006	94	42168	2.00	1.93	
58 1,2-Dichloroethane	62	5.439	5.439	0.000	55	18579	2.00	1.98	
59 n-Heptane	43	5.585	5.585	0.000	86	16938	2.00	1.82	
62 Trichloroethene	95	5.999	6.005	-0.006	78	11124	2.00	1.97	
64 Methylcyclohexane	83	6.145	6.145	0.000	76	16103	2.00	1.73	
65 1,2-Dichloropropane	63	6.230	6.236	-0.006	59	11424	2.00	2.04	
67 Dibromomethane	93	6.370	6.364	0.006	76	6721	2.00	2.05	
66 1,4-Dioxane	88	6.370	6.370	0.000	2	2150	40.0	40.6	
68 Dichlorobromomethane	83	6.516	6.523	-0.007	55	12691	2.00	1.87	
69 2-Chloroethyl vinyl ether	63	6.797	6.797	0.000	65	7518	2.00	1.98	
72 cis-1,3-Dichloropropene	75	6.943	6.943	0.000	62	15186	2.00	1.80	
73 4-Methyl-2-pentanone (MIBK)	43	7.083	7.077	0.006	97	76503	10.0	10.8	
74 Toluene	92	7.241	7.247	-0.006	76	27136	2.00	1.96	
77 trans-1,3-Dichloropropene	75	7.503	7.503	0.000	71	13621	2.00	1.76	
75 Ethyl methacrylate	69	7.558	7.558	0.000	81	15149	2.00	2.02	
79 1,1,2-Trichloroethane	83	7.698	7.691	0.007	63	7202	2.00	1.93	
81 Tetrachloroethene	166	7.789	7.789	0.000	75	12400	2.00	1.99	
82 1,3-Dichloropropane	76	7.862	7.862	0.000	76	16194	2.00	1.87	
80 2-Hexanone	43	7.923	7.923	0.000	94	53064	10.0	10.3	
83 Chlorodibromomethane	129	8.099	8.099	0.000	49	9188	2.00	1.92	
84 Ethylene Dibromide	107	8.203	8.209	-0.006	58	10011	2.00	2.00	
87 Chlorobenzene	112	8.696	8.696	0.000	44	31760	2.00	1.96	
89 1,1,1,2-Tetrachloroethane	131	8.787	8.787	0.000	26	10022	2.00	1.92	
88 Ethylbenzene	91	8.793	8.793	0.000	89	48132	2.00	1.89	
90 m-Xylene & p-Xylene	106	8.909	8.915	-0.006	0	19810	2.00	1.98	
91 o-Xylene	106	9.341	9.341	0.000	90	19163	2.00	1.89	
92 Styrene	104	9.366	9.366	0.000	78	33031	2.00	1.95	
95 Bromoform	173	9.597	9.603	-0.006	49	4386	2.00	1.63	
94 Isopropylbenzene	105	9.725	9.719	0.006	80	49636	2.00	1.87	
101 Bromobenzene	156	10.054	10.054	0.000	92	12806	2.00	1.94	
97 1,1,2,2-Tetrachloroethane	83	10.078	10.084	-0.006	64	11763	2.00	1.91	
100 1,2,3-Trichloropropane	110	10.120	10.120	0.000	46	4430	2.00	2.19	
98 trans-1,4-Dichloro-2-buten	53	10.139	10.133	0.006	26	3855	2.00	1.69	
99 N-Propylbenzene	91	10.133	10.139	-0.006	89	57997	2.00	1.92	
103 2-Chlorotoluene	126	10.236	10.236	0.000	82	12472	2.00	1.95	
102 1,3,5-Trimethylbenzene	105	10.309	10.309	0.000	87	45582	2.00	1.97	
105 4-Chlorotoluene	126	10.346	10.346	0.000	75	13044	2.00	1.91	
106 tert-Butylbenzene	134	10.626	10.626	0.000	82	10089	2.00	1.82	
107 1,2,4-Trimethylbenzene	105	10.674	10.674	0.000	51	44893	2.00	1.91	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.833	10.833	0.000	81	52978	2.00	1.85	
111 1,3-Dichlorobenzene	146	10.961	10.961	0.000	74	24372	2.00	1.92	
110 4-Isopropyltoluene	119	10.967	10.967	0.000	88	48962	2.00	1.97	
113 1,4-Dichlorobenzene	146	11.046	11.046	0.000	71	26067	2.00	1.99	
115 n-Butylbenzene	91	11.350	11.350	0.000	90	41930	2.00	1.92	
116 1,2-Dichlorobenzene	146	11.399	11.393	0.006	78	25318	2.00	1.99	
117 1,2-Dibromo-3-Chloropropan	75	12.117	12.111	0.006	1	2368	2.00	1.81	
119 1,2,4-Trichlorobenzene	180	12.793	12.793	0.000	77	19535	2.00	1.97	
120 Hexachlorobutadiene	225	12.909	12.909	0.000	60	8408	2.00	1.80	
121 Naphthalene	128	13.000	13.000	0.000	80	45068	2.00	1.92	
122 1,2,3-Trichlorobenzene	180	13.207	13.201	0.006	70	17926	2.00	1.94	
S 125 1,2-Dichloroethene, Total	1				0			3.44	
S 126 1,3-Dichloropropene, Total	1				0			3.56	
S 123 Total BTEX	1				0			9.65	
S 124 Xylenes, Total	1				0			3.86	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00039

Amount Added: 2.00

Units: uL

GAS CORP mix_00086

Amount Added: 2.00

Units: uL

S_8260_IS_00099

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00105

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8217.D

Injection Date: 08-May-2015 15:42:30

Instrument ID: HP5973S

Operator ID: EB

Lims ID: IC 2

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

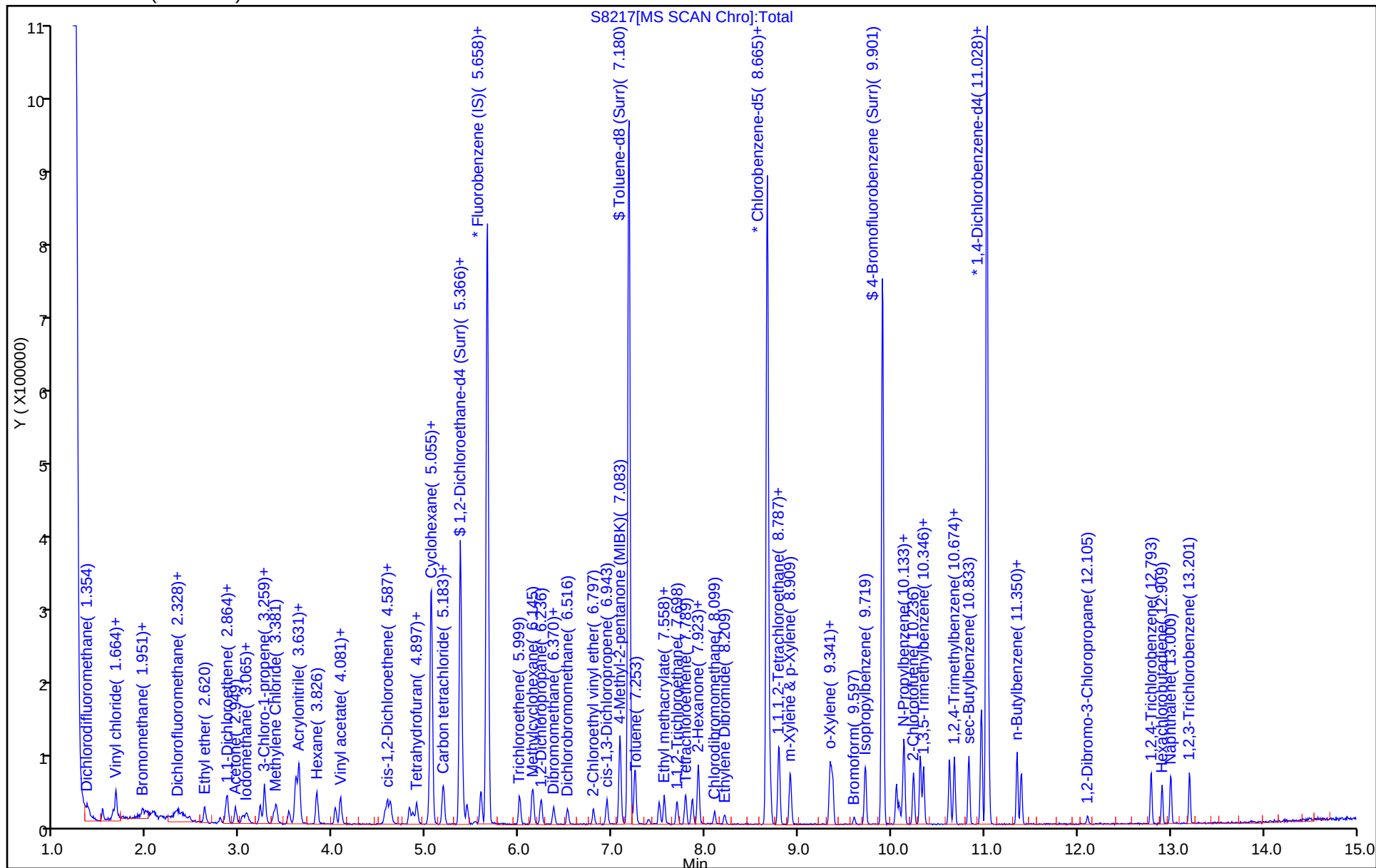
Dil. Factor: 1.0000

ALS Bottle#: 45

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8217.D

Injection Date: 08-May-2015 15:42:30

Instrument ID: HP5973S

Lims ID: IC 2

Client ID:

Operator ID: EB

ALS Bottle#:

45

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

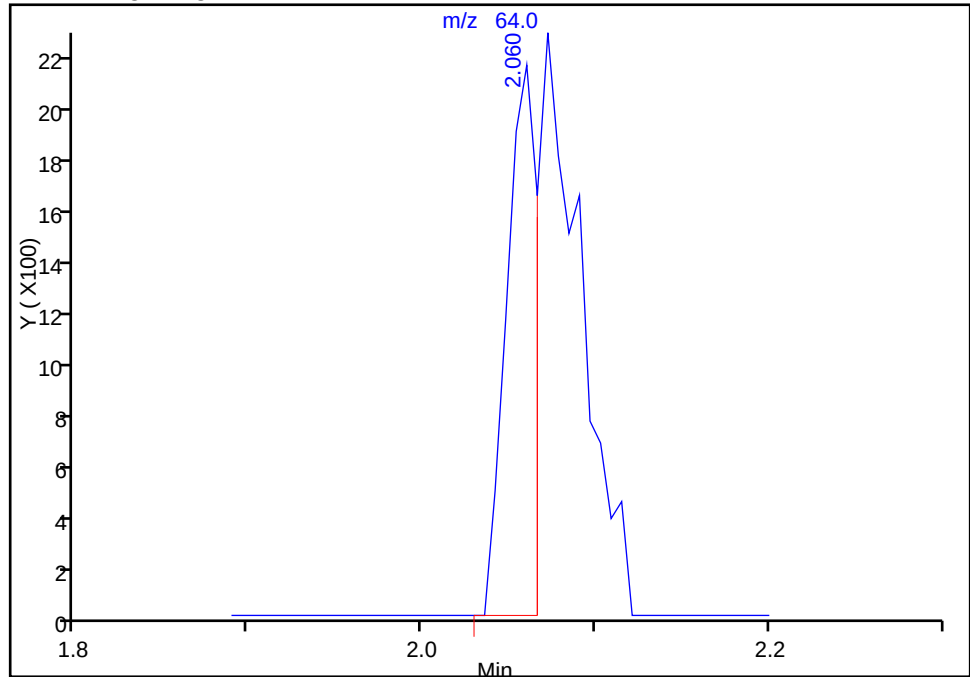
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3

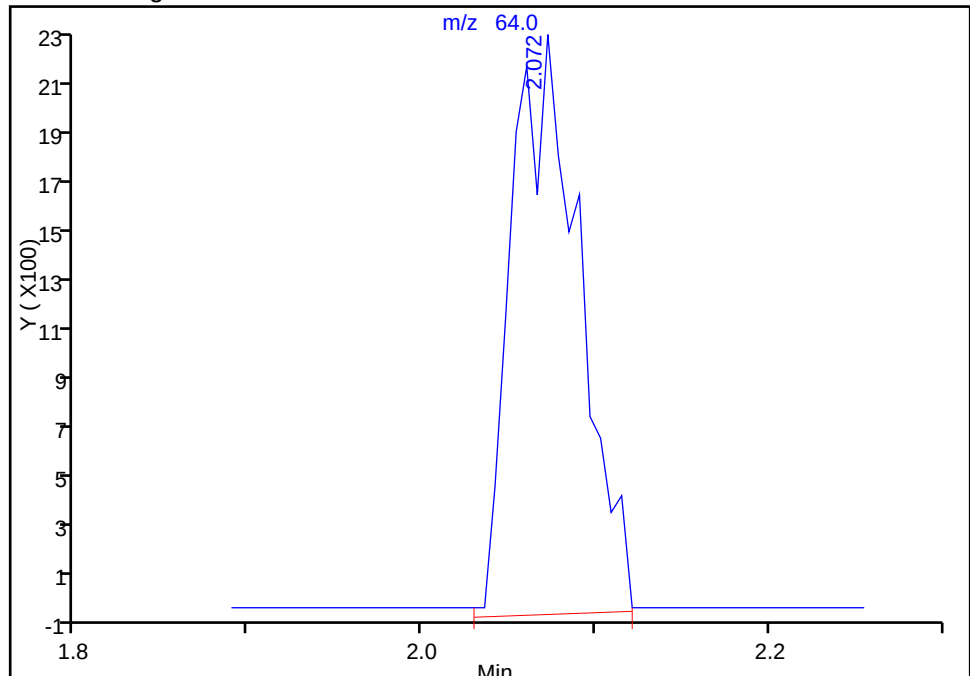
RT: 2.06
Area: 2622
Amount: 1.287355
Amount Units: ug/L

Processing Integration Results



RT: 2.07
Area: 6157
Amount: 2.246109
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 10-May-2015 11:05:42

Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8217.D

Injection Date: 08-May-2015 15:42:30

Instrument ID: HP5973S

Lims ID: IC 2

Client ID:

Operator ID: EB

ALS Bottle#:

45

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

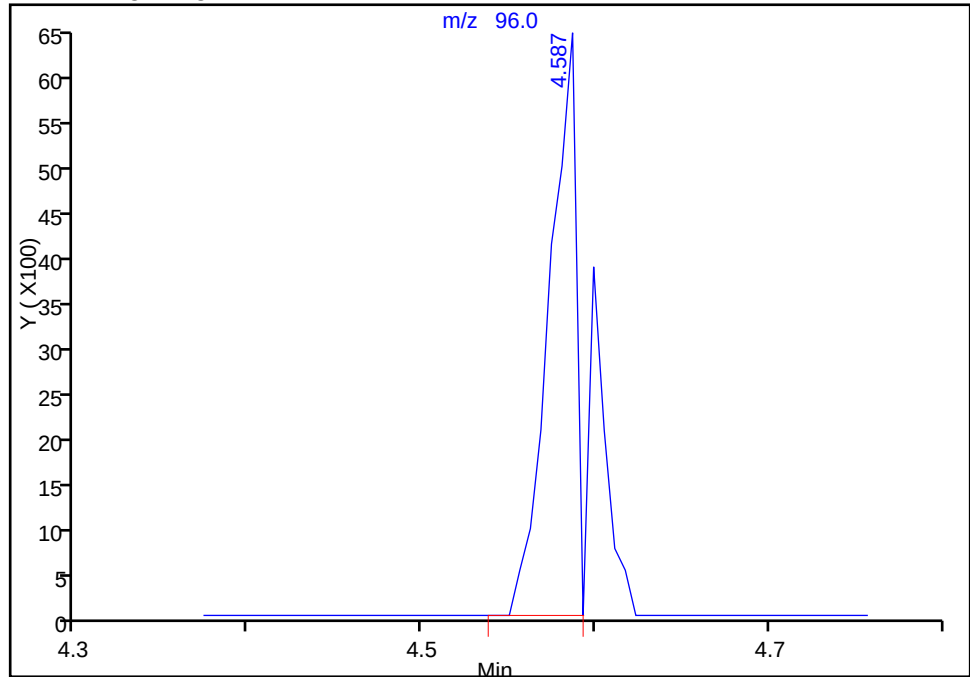
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

45 cis-1,2-Dichloroethene, CAS: 156-59-2

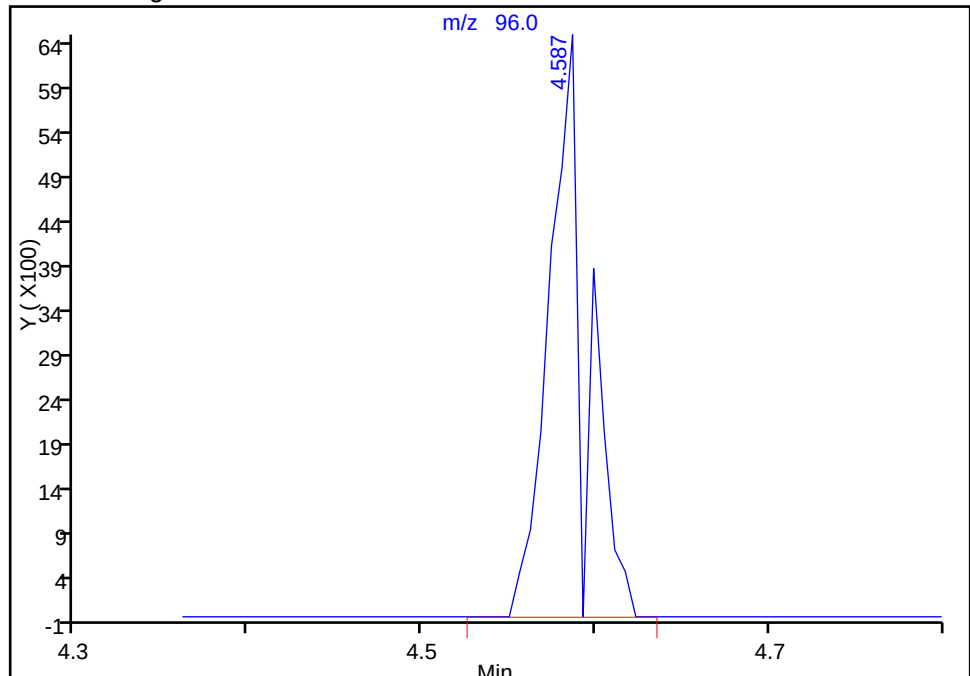
RT: 4.59
Area: 6919
Amount: 1.242020
Amount Units: ug/L

Processing Integration Results



RT: 4.59
Area: 9552
Amount: 1.665467
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 10-May-2015 11:05:42

Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8218.D
 Lims ID: IC 3
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 08-May-2015 16:05:30 ALS Bottle#: 46 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 3
 Misc. Info.: 480-0042209-008
 Operator ID: EB Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 11-May-2015 09:35:26 Calib Date: 08-May-2015 21:23:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8232.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK036

First Level Reviewer: HillL

Date: 10-May-2015 12:03:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.652	5.652	0.000	97	125588	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.665	8.665	0.000	86	250052	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.027	11.027	0.000	95	241270	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.055	5.055	0.000	82	151180	27.2	27.5	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.366	5.366	0.000	0	100609	27.2	27.7	
\$ 5 Toluene-d8 (Surr)	98	7.180	7.180	0.000	93	587042	27.2	26.6	
\$ 6 4-Bromofluorobenzene (Surr	174	9.907	9.907	0.000	87	182756	27.2	26.1	
10 Dichlorodifluoromethane	85	1.360	1.360	0.000	71	30993	5.00	5.18	
12 Chloromethane	50	1.518	1.518	0.000	85	30954	5.00	4.96	
13 Vinyl chloride	62	1.634	1.634	0.000	71	26476	5.00	5.02	
151 Butadiene	54	1.664	1.664	0.000	92	31077	5.00	5.25	
14 Bromomethane	94	1.951	1.951	0.000	68	7452	5.00	5.11	
15 Chloroethane	64	2.078	2.078	0.000	66	14391	5.00	5.42	
16 Dichlorofluoromethane	67	2.310	2.310	0.000	57	16691	5.00	4.19	
17 Trichlorofluoromethane	101	2.328	2.328	0.000	53	25534	5.00	4.45	
18 Ethyl ether	59	2.620	2.620	0.000	94	27817	5.00	5.33	
20 Acrolein	56	2.785	2.785	0.000	85	15732	25.0	26.3	
21 1,1,2-Trichloro-1,2,2-trif	101	2.858	2.858	0.000	33	25857	5.00	5.42	
22 1,1-Dichloroethene	96	2.858	2.858	0.000	81	25172	5.00	5.35	
23 Acetone	43	2.943	2.943	0.000	93	57405	25.0	25.1	
25 Iodomethane	142	3.028	3.028	0.000	93	36880	5.00	5.47	
26 Carbon disulfide	76	3.065	3.065	0.000	99	68483	5.00	5.12	
28 3-Chloro-1-propene	41	3.217	3.217	0.000	79	46060	5.00	4.92	
27 Methyl acetate	43	3.259	3.259	0.000	96	139308	25.0	25.6	
30 Methylene Chloride	84	3.381	3.381	0.000	87	31756	5.00	5.55	
31 2-Methyl-2-propanol	59	3.521	3.521	0.000	95	41540	50.0	50.7	
32 Methyl tert-butyl ether	73	3.594	3.594	0.000	92	86180	5.00	5.23	
34 trans-1,2-Dichloroethene	96	3.600	3.600	0.000	68	27954	5.00	5.63	
33 Acrylonitrile	53	3.631	3.631	0.000	95	132347	50.0	53.1	
35 Hexane	57	3.819	3.819	0.000	93	49006	5.00	5.45	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	4.020	4.020	0.000	69	53177	5.00	5.29	
37 Vinyl acetate	43	4.075	4.075	0.000	96	129423	10.0	10.2	
44 2,2-Dichloropropane	77	4.556	4.556	0.000	87	27533	5.00	5.22	
45 cis-1,2-Dichloroethene	96	4.587	4.587	0.000	69	30208	5.00	5.43	
43 2-Butanone (MEK)	43	4.617	4.617	0.000	91	86321	25.0	25.8	
48 Chlorobromomethane	128	4.824	4.824	0.000	86	13861	5.00	5.20	
49 Tetrahydrofuran	42	4.861	4.861	0.000	87	23144	10.0	10.6	
50 Chloroform	83	4.897	4.897	0.000	69	50040	5.00	5.26	
51 1,1,1-Trichloroethane	97	5.025	5.025	0.000	85	35635	5.00	5.27	
52 Cyclohexane	56	5.055	5.055	0.000	46	53229	5.00	5.33	
55 Carbon tetrachloride	117	5.177	5.177	0.000	73	36769	5.00	5.22	
54 1,1-Dichloropropene	75	5.189	5.189	0.000	87	39314	5.00	5.41	
53 Isobutyl alcohol	43	5.366	5.366	0.000	38	41326	125.0	122.1	
57 Benzene	78	5.390	5.390	0.000	93	113001	5.00	5.34	
58 1,2-Dichloroethane	62	5.439	5.439	0.000	58	45706	5.00	5.03	
59 n-Heptane	43	5.591	5.591	0.000	90	49455	5.00	5.47	
62 Trichloroethene	95	6.005	6.005	0.000	84	29039	5.00	5.30	
64 Methylcyclohexane	83	6.145	6.145	0.000	90	48174	5.00	5.33	
65 1,2-Dichloropropane	63	6.236	6.236	0.000	82	27277	5.00	5.03	
67 Dibromomethane	93	6.370	6.370	0.000	85	16604	5.00	5.22	
66 1,4-Dioxane	88	6.376	6.376	0.000	49	4558	100.0	85.9	M
68 Dichlorobromomethane	83	6.516	6.516	0.000	83	33943	5.00	5.15	
69 2-Chloroethyl vinyl ether	63	6.796	6.796	0.000	78	18173	5.00	4.95	
72 cis-1,3-Dichloropropene	75	6.943	6.943	0.000	69	42671	5.00	5.21	
73 4-Methyl-2-pentanone (MIBK)	43	7.083	7.083	0.000	98	185732	25.0	26.1	
74 Toluene	92	7.247	7.247	0.000	91	70488	5.00	5.08	
77 trans-1,3-Dichloropropene	75	7.503	7.503	0.000	87	38710	5.00	4.99	
75 Ethyl methacrylate	69	7.557	7.557	0.000	85	37192	5.00	4.95	
79 1,1,2-Trichloroethane	83	7.697	7.697	0.000	81	21004	5.00	5.61	
81 Tetrachloroethene	166	7.783	7.783	0.000	87	32032	5.00	4.99	
82 1,3-Dichloropropane	76	7.862	7.862	0.000	91	42649	5.00	4.92	
80 2-Hexanone	43	7.923	7.923	0.000	95	130630	25.0	25.4	
83 Chlorodibromomethane	129	8.099	8.099	0.000	77	23628	5.00	4.93	
84 Ethylene Dibromide	107	8.209	8.209	0.000	86	26462	5.00	5.27	
87 Chlorobenzene	112	8.696	8.696	0.000	69	81543	5.00	5.02	
89 1,1,1,2-Tetrachloroethane	131	8.787	8.787	0.000	30	26261	5.00	5.02	
88 Ethylbenzene	91	8.787	8.787	0.000	96	132291	5.00	5.19	
90 m-Xylene & p-Xylene	106	8.909	8.909	0.000	0	50413	5.00	4.91	
91 o-Xylene	106	9.341	9.341	0.000	95	50248	5.00	4.93	
92 Styrene	104	9.366	9.366	0.000	94	87285	5.00	5.14	
95 Bromoform	173	9.597	9.597	0.000	68	12543	5.00	4.64	
94 Isopropylbenzene	105	9.719	9.719	0.000	95	136042	5.00	5.28	
101 Bromobenzene	156	10.053	10.053	0.000	92	34039	5.00	5.32	
97 1,1,2,2-Tetrachloroethane	83	10.084	10.084	0.000	81	30783	5.00	5.16	
100 1,2,3-Trichloropropane	110	10.120	10.120	0.000	54	10710	5.00	5.45	
98 trans-1,4-Dichloro-2-buten	53	10.133	10.133	0.000	35	11273	5.00	5.09	
99 N-Propylbenzene	91	10.139	10.139	0.000	97	155343	5.00	5.30	
103 2-Chlorotoluene	126	10.236	10.236	0.000	91	31557	5.00	5.08	
102 1,3,5-Trimethylbenzene	105	10.309	10.309	0.000	92	120871	5.00	5.38	
105 4-Chlorotoluene	126	10.346	10.346	0.000	76	35302	5.00	5.33	
106 tert-Butylbenzene	134	10.626	10.626	0.000	88	28107	5.00	5.24	
107 1,2,4-Trimethylbenzene	105	10.674	10.674	0.000	48	119943	5.00	5.28	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.833	10.833	0.000	92	145051	5.00	5.22	
111 1,3-Dichlorobenzene	146	10.967	10.967	0.000	64	66344	5.00	5.38	
110 4-Isopropyltoluene	119	10.967	10.967	0.000	94	131456	5.00	5.46	
113 1,4-Dichlorobenzene	146	11.046	11.046	0.000	77	63809	5.00	4.90	
115 n-Butylbenzene	91	11.350	11.350	0.000	95	114444	5.00	5.40	
116 1,2-Dichlorobenzene	146	11.393	11.393	0.000	86	61601	5.00	5.00	
117 1,2-Dibromo-3-Chloropropan	75	12.105	12.105	0.000	25	6388	5.00	5.03	
119 1,2,4-Trichlorobenzene	180	12.787	12.787	0.000	84	50774	5.00	5.41	
120 Hexachlorobutadiene	225	12.909	12.909	0.000	87	23600	5.00	5.20	
121 Naphthalene	128	13.000	13.000	0.000	92	117126	5.00	5.15	
122 1,2,3-Trichlorobenzene	180	13.207	13.207	0.000	89	46434	5.00	5.19	
S 123 Total BTEX	1				0			25.5	
S 124 Xylenes, Total	1				0			9.84	
S 125 1,2-Dichloroethene, Total	1				0			11.1	
S 126 1,3-Dichloropropene, Total	1				0			10.2	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00039

Amount Added: 5.00

Units: uL

GAS CORP mix_00086

Amount Added: 5.00

Units: uL

S_8260_IS_00099

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00105

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\lg6\\Buffalo\\ChromData\\HP5973S\\20150508-42209.b\\S8218.D

Injection Date: 08-May-2015 16:05:30

Instrument ID: HP5973S

Operator ID: EB

Lims ID: IC 3

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

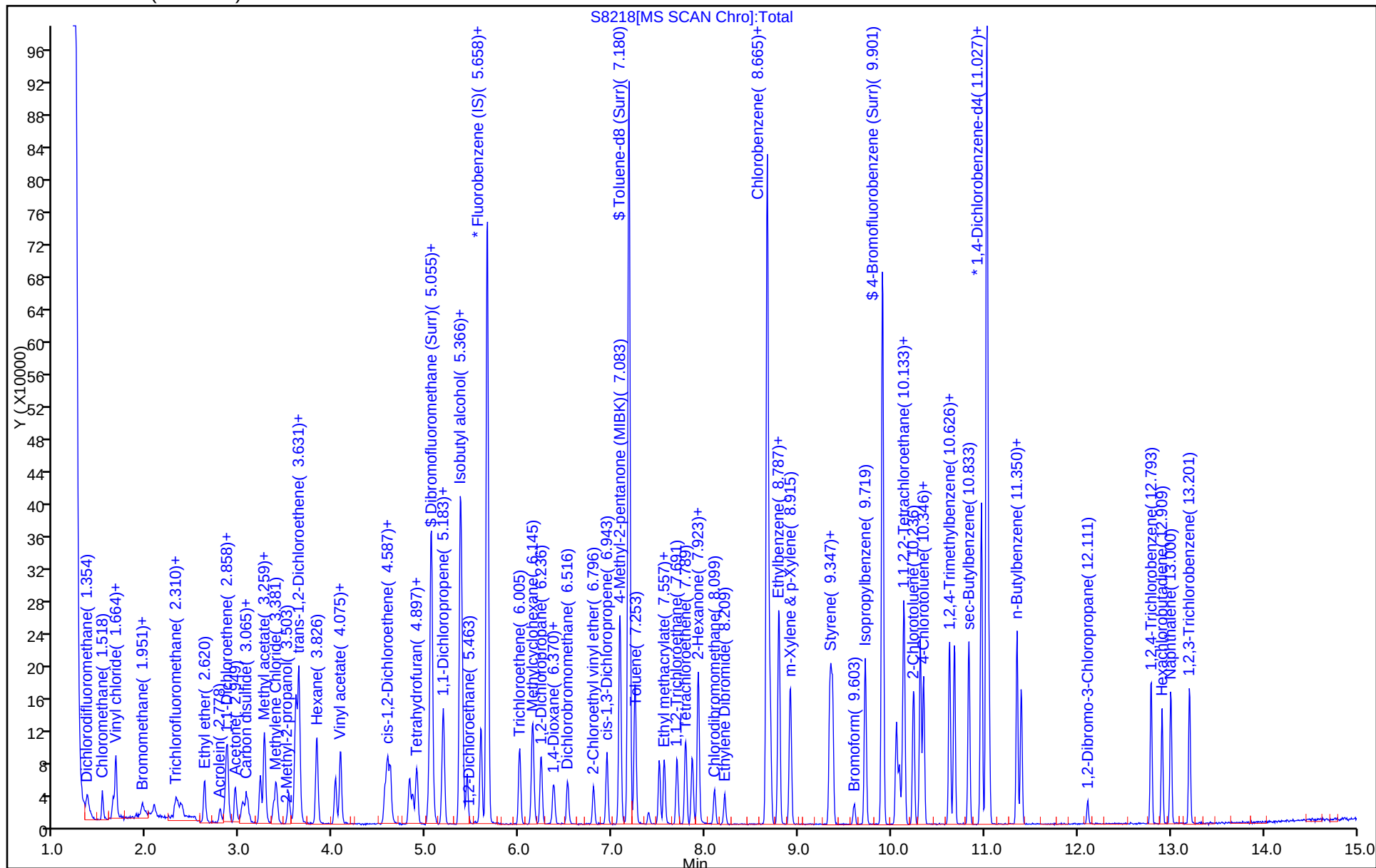
Dil. Factor: 1.0000

ALS Bottle#: 46

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8218.D

Injection Date: 08-May-2015 16:05:30

Instrument ID: HP5973S

Lims ID: IC 3

Client ID:

Operator ID: EB

ALS Bottle#:

46

Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

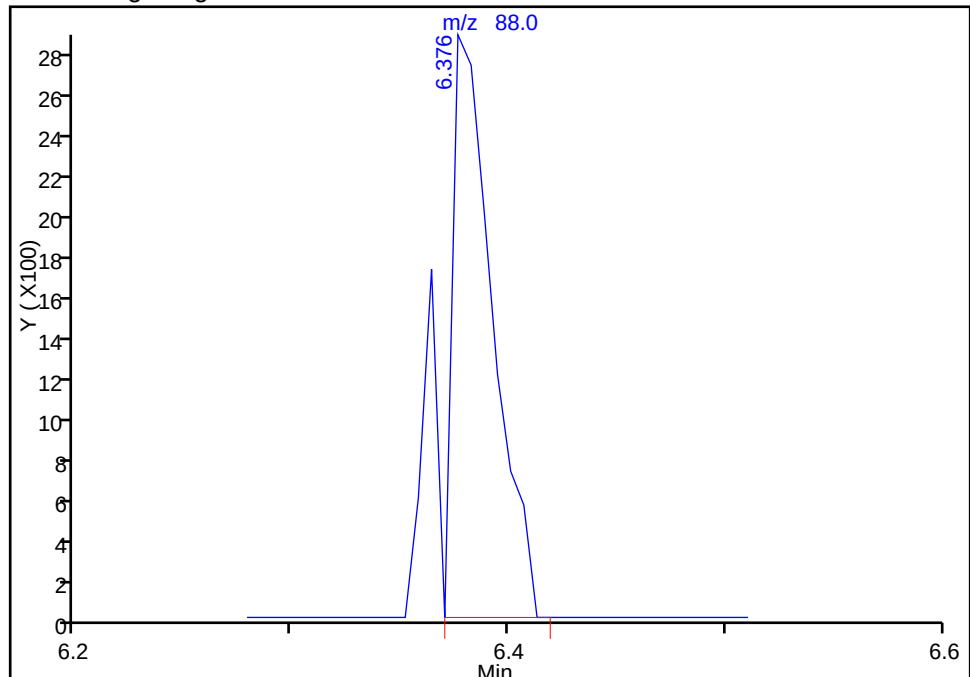
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

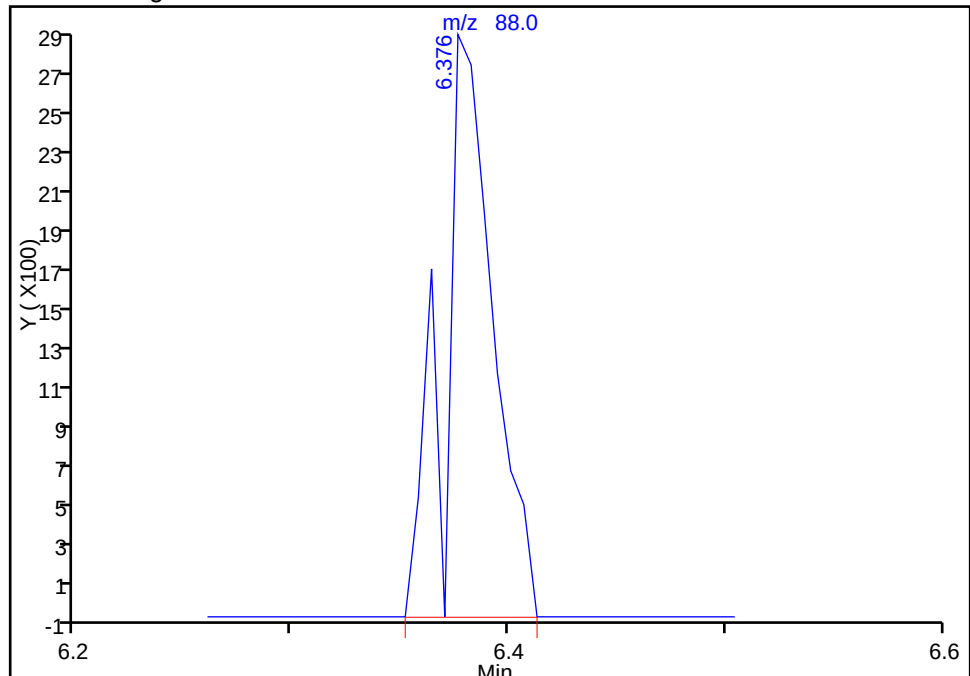
RT: 6.38
Area: 3701
Amount: 71.423586
Amount Units: ug/L

Processing Integration Results



RT: 6.38
Area: 4558
Amount: 85.932061
Amount Units: ug/L

Manual Integration Results



Reviewer: feldmanl, 11-May-2015 09:35:25

Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8219.D
 Lims ID: IC 4
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 08-May-2015 16:27:30 ALS Bottle#: 47 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 4
 Misc. Info.: 480-0042209-009
 Operator ID: EB Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 11-May-2015 09:42:25 Calib Date: 08-May-2015 21:23:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8232.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK036

First Level Reviewer: HillL

Date: 10-May-2015 12:03:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.652	5.652	0.000	97	125807	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.665	8.665	0.000	86	246675	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.028	11.027	0.001	89	238402	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.055	5.055	0.000	79	154621	27.2	28.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.366	5.366	0.000	0	101948	27.2	28.0	
\$ 5 Toluene-d8 (Surr)	98	7.180	7.180	0.000	90	593305	27.2	27.3	
\$ 6 4-Bromofluorobenzene (Surr	174	9.907	9.907	0.000	87	187056	27.2	27.1	
10 Dichlorodifluoromethane	85	1.354	1.360	-0.006	81	60097	10.0	10.0	
12 Chloromethane	50	1.518	1.518	0.000	88	65701	10.0	10.5	
13 Vinyl chloride	62	1.634	1.634	0.000	81	55462	10.0	10.5	
151 Butadiene	54	1.664	1.664	0.000	91	60720	10.0	10.2	
14 Bromomethane	94	1.951	1.951	0.001	81	12958	10.0	8.87	
15 Chloroethane	64	2.066	2.078	-0.012	66	27531	10.0	10.3	
16 Dichlorofluoromethane	67	2.304	2.310	-0.006	73	37836	10.0	8.36	
17 Trichlorofluoromethane	101	2.322	2.328	-0.006	76	56218	10.0	9.18	
18 Ethyl ether	59	2.614	2.620	-0.006	91	55109	10.0	10.5	
20 Acrolein	56	2.785	2.785	0.000	83	31205	50.0	52.1	
21 1,1,2-Trichloro-1,2,2-trif	101	2.852	2.858	-0.006	56	49903	10.0	10.4	
22 1,1-Dichloroethene	96	2.864	2.858	0.006	81	47836	10.0	10.2	
23 Acetone	43	2.943	2.943	0.000	98	118111	50.0	51.6	
25 Iodomethane	142	3.022	3.028	-0.006	98	73724	10.0	10.9	
26 Carbon disulfide	76	3.065	3.065	0.000	98	136027	10.0	10.1	
28 3-Chloro-1-propene	41	3.217	3.217	0.000	86	93367	10.0	9.95	
27 Methyl acetate	43	3.259	3.259	0.000	96	291019	50.0	53.4	
30 Methylene Chloride	84	3.387	3.381	0.006	87	58039	10.0	10.9	
31 2-Methyl-2-propanol	59	3.521	3.521	0.000	95	90692	100.0	110.4	
32 Methyl tert-butyl ether	73	3.594	3.594	0.000	89	173810	10.0	10.5	
34 trans-1,2-Dichloroethene	96	3.600	3.600	0.000	72	52520	10.0	10.6	
33 Acrylonitrile	53	3.631	3.631	0.000	97	261798	100.0	104.8	
35 Hexane	57	3.820	3.819	0.001	93	95394	10.0	10.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	4.020	4.020	0.000	82	107888	10.0	10.7	
37 Vinyl acetate	43	4.075	4.075	0.000	97	271578	20.0	21.3	
44 2,2-Dichloropropane	77	4.556	4.556	0.000	88	54708	10.0	10.4	
45 cis-1,2-Dichloroethene	96	4.587	4.587	0.000	69	58428	10.0	10.5	
43 2-Butanone (MEK)	43	4.611	4.617	-0.006	93	174082	50.0	52.0	
48 Chlorobromomethane	128	4.818	4.824	-0.006	86	29171	10.0	10.9	
49 Tetrahydrofuran	42	4.848	4.861	-0.012	80	46862	20.0	21.5	
50 Chloroform	83	4.903	4.897	0.006	80	97841	10.0	10.3	
51 1,1,1-Trichloroethane	97	5.025	5.025	0.000	86	73630	10.0	10.9	
52 Cyclohexane	56	5.055	5.055	0.000	65	101345	10.0	10.1	
55 Carbon tetrachloride	117	5.171	5.177	-0.006	75	72265	10.0	10.2	
54 1,1-Dichloropropene	75	5.183	5.189	-0.006	85	77868	10.0	10.7	
53 Isobutyl alcohol	43	5.366	5.366	0.000	56	91663	250.0	270.4	
57 Benzene	78	5.384	5.390	-0.006	97	222633	10.0	10.5	
58 1,2-Dichloroethane	62	5.439	5.439	0.000	72	94721	10.0	10.4	
59 n-Heptane	43	5.585	5.591	-0.006	92	92757	10.0	10.2	
62 Trichloroethene	95	6.005	6.005	0.000	90	57409	10.0	10.5	
64 Methylcyclohexane	83	6.145	6.145	0.000	90	95985	10.0	10.6	
65 1,2-Dichloropropane	63	6.230	6.236	-0.006	85	57404	10.0	10.6	
67 Dibromomethane	93	6.364	6.370	-0.006	88	35097	10.0	11.0	
66 1,4-Dioxane	88	6.370	6.376	-0.006	36	11136	200.0	212.8	
68 Dichlorobromomethane	83	6.516	6.516	0.000	89	68436	10.0	10.4	
69 2-Chloroethyl vinyl ether	63	6.790	6.796	-0.006	84	39438	10.0	10.7	
72 cis-1,3-Dichloropropene	75	6.943	6.943	0.000	80	89316	10.0	10.9	
73 4-Methyl-2-pentanone (MIBK)	43	7.076	7.083	-0.007	99	366305	50.0	52.2	
74 Toluene	92	7.247	7.247	0.000	93	140553	10.0	10.3	
77 trans-1,3-Dichloropropene	75	7.503	7.503	0.000	93	82564	10.0	10.8	
75 Ethyl methacrylate	69	7.557	7.557	0.000	85	75655	10.0	10.2	
79 1,1,2-Trichloroethane	83	7.691	7.697	-0.006	88	38844	10.0	10.5	
81 Tetrachloroethene	166	7.789	7.783	0.006	89	65703	10.0	10.4	
82 1,3-Dichloropropane	76	7.862	7.862	0.000	93	88686	10.0	10.4	
80 2-Hexanone	43	7.923	7.923	0.000	97	267793	50.0	52.8	
83 Chlorodibromomethane	129	8.099	8.099	0.000	81	48322	10.0	10.2	
84 Ethylene Dibromide	107	8.209	8.209	0.000	96	52376	10.0	10.6	
87 Chlorobenzene	112	8.696	8.696	0.000	84	166088	10.0	10.4	
89 1,1,1,2-Tetrachloroethane	131	8.793	8.787	0.006	38	54001	10.0	10.5	
88 Ethylbenzene	91	8.787	8.787	0.000	99	263658	10.0	10.5	
90 m-Xylene & p-Xylene	106	8.915	8.909	0.006	0	102776	10.0	10.1	
91 o-Xylene	106	9.341	9.341	0.000	98	107539	10.0	10.7	
92 Styrene	104	9.366	9.366	0.000	94	179154	10.0	10.7	
95 Bromoform	173	9.597	9.597	0.000	85	26740	10.0	10.0	
94 Isopropylbenzene	105	9.719	9.719	0.000	95	267797	10.0	10.5	
101 Bromobenzene	156	10.053	10.053	0.000	96	67046	10.0	10.6	
97 1,1,2,2-Tetrachloroethane	83	10.084	10.084	0.000	79	60821	10.0	10.3	
100 1,2,3-Trichloropropane	110	10.120	10.120	0.000	63	21830	10.0	11.2	
98 trans-1,4-Dichloro-2-buten	53	10.133	10.133	0.000	37	22902	10.0	10.5	
99 N-Propylbenzene	91	10.139	10.139	0.000	97	303965	10.0	10.5	
103 2-Chlorotoluene	126	10.236	10.236	0.000	96	68386	10.0	11.1	
102 1,3,5-Trimethylbenzene	105	10.309	10.309	0.000	93	237336	10.0	10.7	
105 4-Chlorotoluene	126	10.346	10.346	0.000	79	67320	10.0	10.3	
106 tert-Butylbenzene	134	10.626	10.626	0.000	88	57727	10.0	10.9	
107 1,2,4-Trimethylbenzene	105	10.674	10.674	0.000	67	244830	10.0	10.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.833	10.833	0.000	94	292062	10.0	10.6	
111 1,3-Dichlorobenzene	146	10.961	10.967	-0.006	81	131815	10.0	10.8	
110 4-Isopropyltoluene	119	10.967	10.967	0.000	96	261222	10.0	11.0	
113 1,4-Dichlorobenzene	146	11.046	11.046	0.000	91	132130	10.0	10.3	
115 n-Butylbenzene	91	11.350	11.350	0.000	96	231150	10.0	11.0	
116 1,2-Dichlorobenzene	146	11.393	11.393	0.000	91	129135	10.0	10.6	
117 1,2-Dibromo-3-Chloropropan	75	12.105	12.105	0.000	45	12864	10.0	10.2	
119 1,2,4-Trichlorobenzene	180	12.793	12.787	0.006	92	101284	10.0	10.9	
120 Hexachlorobutadiene	225	12.909	12.909	0.000	89	47326	10.0	10.6	
121 Naphthalene	128	13.000	13.000	0.000	98	245876	10.0	10.9	
122 1,2,3-Trichlorobenzene	180	13.201	13.207	-0.006	93	98846	10.0	11.2	
S 125 1,2-Dichloroethene, Total	1				0			21.1	
S 126 1,3-Dichloropropene, Total	1				0			21.7	
S 123 Total BTEX	1				0			52.1	
S 124 Xylenes, Total	1				0			20.8	

Reagents:

8260 CORP mix_00039	Amount Added: 5.00	Units: uL	
GAS CORP mix_00086	Amount Added: 5.00	Units: uL	
S_8260_IS_00099	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00105	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\lg6\\Buffalo\\ChromData\\HP5973S\\20150508-42209.b\\S8219.D

Injection Date: 08-May-2015 16:27:30

Instrument ID: HP5973S

Operator ID: EB

Lims ID: IC 4

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

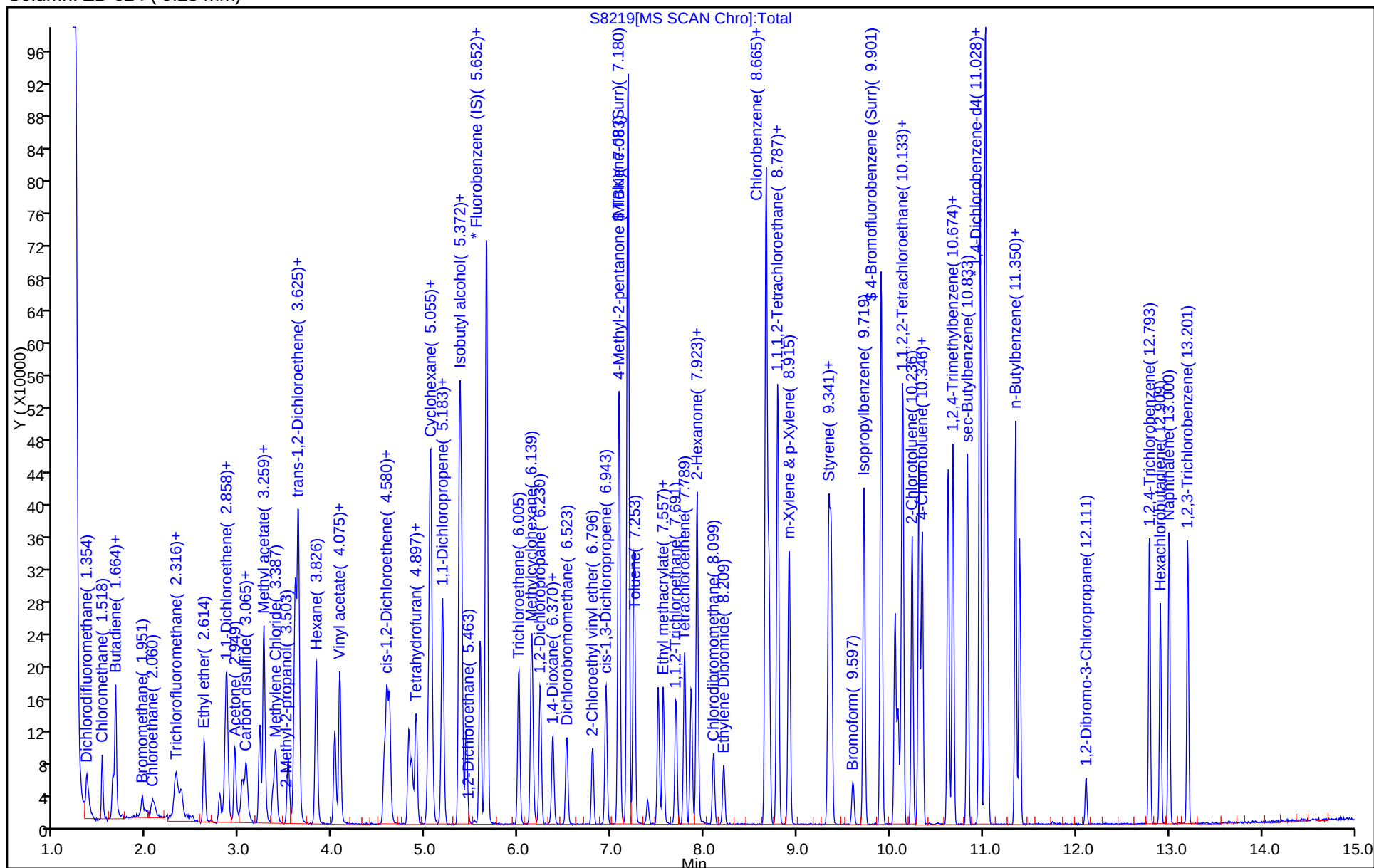
Dil. Factor: 1.0000

ALS Bottle#: 47

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8220.D
 Lims ID: ICIS 5
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 08-May-2015 16:50:30 ALS Bottle#: 48 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICIS 5
 Misc. Info.: 480-0042209-010
 Operator ID: EB Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 12-May-2015 17:13:47 Calib Date: 08-May-2015 21:23:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8232.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: HillL

Date: 11-May-2015 11:55:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.658	5.658	0.000	97	129413	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.665	8.665	0.000	85	248676	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.028	11.028	0.000	74	239970	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.055	5.055	0.000	67	151626	27.2	26.7	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.366	5.366	0.000	0	99730	27.2	26.6	
\$ 5 Toluene-d8 (Surr)	98	7.180	7.180	0.000	92	594411	27.2	27.1	
\$ 6 4-Bromofluorobenzene (Surr	174	9.907	9.907	0.000	89	188570	27.2	27.1	
10 Dichlorodifluoromethane	85	1.360	1.360	0.000	84	155342	25.0	25.2	
12 Chloromethane	50	1.524	1.524	0.000	89	158804	25.0	24.7	
13 Vinyl chloride	62	1.640	1.640	0.000	81	131392	25.0	24.2	
151 Butadiene	54	1.664	1.664	0.000	91	151196	25.0	24.8	
14 Bromomethane	94	1.957	1.957	0.000	85	31342	25.0	20.9	
15 Chloroethane	64	2.078	2.078	0.000	87	67742	25.0	24.7	
16 Dichlorofluoromethane	67	2.310	2.310	0.000	81	109345	25.0	21.9	
17 Trichlorofluoromethane	101	2.334	2.334	0.000	85	149995	25.0	23.0	
18 Ethyl ether	59	2.620	2.620	0.000	95	130809	25.0	24.3	
20 Acrolein	56	2.785	2.785	0.000	89	71034	125.0	115.2	
21 1,1,2-Trichloro-1,2,2-trif	101	2.858	2.858	0.000	60	125398	25.0	25.5	
22 1,1-Dichloroethene	96	2.864	2.864	0.000	83	118664	25.0	24.5	
23 Acetone	43	2.949	2.949	0.000	98	268082	125.0	113.9	
25 Iodomethane	142	3.028	3.028	0.000	98	180958	25.0	26.0	
26 Carbon disulfide	76	3.071	3.071	0.000	100	345829	25.0	25.1	
28 3-Chloro-1-propene	41	3.217	3.217	0.000	62	229845	25.0	23.8	
27 Methyl acetate	43	3.259	3.259	0.000	96	662817	125.0	118.3	
30 Methylene Chloride	84	3.387	3.387	0.000	85	126430	25.0	24.2	
31 2-Methyl-2-propanol	59	3.521	3.521	0.000	97	206506	250.0	244.4	
32 Methyl tert-butyl ether	73	3.594	3.594	0.000	90	401918	25.0	23.7	
34 trans-1,2-Dichloroethene	96	3.600	3.600	0.000	67	125218	25.0	24.5	
33 Acrylonitrile	53	3.631	3.631	0.000	95	607587	250.0	236.4	
35 Hexane	57	3.826	3.826	0.000	95	227688	25.0	24.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	4.027	4.027	0.000	85	252907	25.0	24.4	
37 Vinyl acetate	43	4.075	4.075	0.000	97	634771	50.0	48.4	
44 2,2-Dichloropropane	77	4.562	4.562	0.000	89	133947	25.0	24.6	
45 cis-1,2-Dichloroethene	96	4.587	4.587	0.000	72	140016	25.0	24.4	
43 2-Butanone (MEK)	43	4.611	4.611	0.000	94	404442	125.0	117.5	
48 Chlorobromomethane	128	4.824	4.824	0.000	92	71674	25.0	26.1	
49 Tetrahydrofuran	42	4.848	4.848	0.000	90	106199	50.0	47.4	
50 Chloroform	83	4.897	4.897	0.000	82	236374	25.0	24.1	
51 1,1,1-Trichloroethane	97	5.031	5.031	0.000	92	181899	25.0	26.1	
52 Cyclohexane	56	5.055	5.055	0.000	93	255383	25.0	24.8	
55 Carbon tetrachloride	117	5.177	5.177	0.000	79	179676	25.0	24.8	
54 1,1-Dichloropropene	75	5.183	5.183	0.000	88	183072	25.0	24.4	
53 Isobutyl alcohol	43	5.366	5.366	0.000	91	213265	625.0	611.5	
57 Benzene	78	5.384	5.384	0.000	97	528593	25.0	24.3	
58 1,2-Dichloroethane	62	5.439	5.439	0.000	73	210353	25.0	22.5	
59 n-Heptane	43	5.585	5.585	0.000	93	224345	25.0	24.1	
62 Trichloroethene	95	6.005	6.005	0.000	88	139367	25.0	24.7	
64 Methylcyclohexane	83	6.145	6.145	0.000	93	235044	25.0	25.2	
65 1,2-Dichloropropane	63	6.236	6.236	0.000	87	133885	25.0	23.9	
67 Dibromomethane	93	6.364	6.364	0.000	91	82176	25.0	25.1	
66 1,4-Dioxane	88	6.370	6.370	0.000	43	25766	500.0	488.5	
68 Dichlorobromomethane	83	6.523	6.523	0.000	91	172950	25.0	25.5	
69 2-Chloroethyl vinyl ether	63	6.797	6.797	0.000	92	91962	25.0	24.3	
72 cis-1,3-Dichloropropene	75	6.943	6.943	0.000	82	214338	25.0	25.4	
73 4-Methyl-2-pentanone (MIBK)	43	7.077	7.077	0.000	98	805115	125.0	113.7	
74 Toluene	92	7.247	7.247	0.000	95	337614	25.0	24.5	
77 trans-1,3-Dichloropropene	75	7.503	7.503	0.000	94	198700	25.0	25.8	
75 Ethyl methacrylate	69	7.558	7.558	0.000	84	179222	25.0	24.0	
79 1,1,2-Trichloroethane	83	7.691	7.691	0.000	88	95620	25.0	25.7	
81 Tetrachloroethene	166	7.789	7.789	0.000	90	152670	25.0	24.5	
82 1,3-Dichloropropane	76	7.862	7.862	0.000	95	213838	25.0	24.8	
80 2-Hexanone	43	7.923	7.923	0.000	97	601256	125.0	117.6	
83 Chlorodibromomethane	129	8.099	8.099	0.000	87	123720	25.0	26.0	
84 Ethylene Dibromide	107	8.209	8.209	0.000	97	126271	25.0	25.3	
87 Chlorobenzene	112	8.696	8.696	0.000	91	390287	25.0	24.1	
89 1,1,1,2-Tetrachloroethane	131	8.787	8.787	0.000	40	131991	25.0	25.4	
88 Ethylbenzene	91	8.793	8.793	0.000	99	611675	25.0	24.1	
90 m-Xylene & p-Xylene	106	8.915	8.915	0.000	0	247172	25.0	24.7	
91 o-Xylene	106	9.341	9.341	0.000	96	243496	25.0	24.0	
92 Styrene	104	9.366	9.366	0.000	94	414716	25.0	24.6	
95 Bromoform	173	9.603	9.603	0.000	95	69481	25.0	25.8	
94 Isopropylbenzene	105	9.719	9.719	0.000	96	636122	25.0	24.8	
101 Bromobenzene	156	10.054	10.054	0.000	96	157361	25.0	24.7	
97 1,1,2,2-Tetrachloroethane	83	10.084	10.084	0.000	88	149643	25.0	25.2	
100 1,2,3-Trichloropropane	110	10.120	10.120	0.000	63	52211	25.0	26.7	
98 trans-1,4-Dichloro-2-buten	53	10.133	10.133	0.000	35	59964	25.0	27.2	
99 N-Propylbenzene	91	10.139	10.139	0.000	97	710756	25.0	24.4	
103 2-Chlorotoluene	126	10.236	10.236	0.000	95	153762	25.0	24.9	
102 1,3,5-Trimethylbenzene	105	10.309	10.309	0.000	95	551862	25.0	24.7	
105 4-Chlorotoluene	126	10.346	10.346	0.000	95	160113	25.0	24.3	
106 tert-Butylbenzene	134	10.626	10.626	0.000	92	140431	25.0	26.3	
107 1,2,4-Trimethylbenzene	105	10.674	10.674	0.000	68	559003	25.0	24.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.833	10.833	0.000	93	701266	25.0	25.4	
111 1,3-Dichlorobenzene	146	10.961	10.961	0.000	80	296830	25.0	24.2	
110 4-Isopropyltoluene	119	10.967	10.967	0.000	96	610255	25.0	25.5	
113 1,4-Dichlorobenzene	146	11.046	11.046	0.000	93	306012	25.0	24.2	
115 n-Butylbenzene	91	11.350	11.350	0.000	97	524572	25.0	24.9	
116 1,2-Dichlorobenzene	146	11.393	11.393	0.000	91	298842	25.0	24.4	
117 1,2-Dibromo-3-Chloropropan	75	12.111	12.111	0.000	72	30602	25.0	24.2	
119 1,2,4-Trichlorobenzene	180	12.793	12.793	0.000	93	235515	25.0	24.6	
120 Hexachlorobutadiene	225	12.909	12.909	0.000	93	114555	25.0	25.4	
121 Naphthalene	128	13.000	13.000	0.000	97	594220	25.0	26.3	
122 1,2,3-Trichlorobenzene	180	13.201	13.201	0.000	93	221921	25.0	24.9	

Reagents:

8260 CORP mix_00039	Amount Added: 12.50	Units: uL	
GAS CORP mix_00086	Amount Added: 12.50	Units: uL	
S_8260_IS_00099	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00105	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8220.D

Injection Date: 08-May-2015 16:50:30

Instrument ID: HP5973S

Operator ID: EB

Lims ID: ICIS 5

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

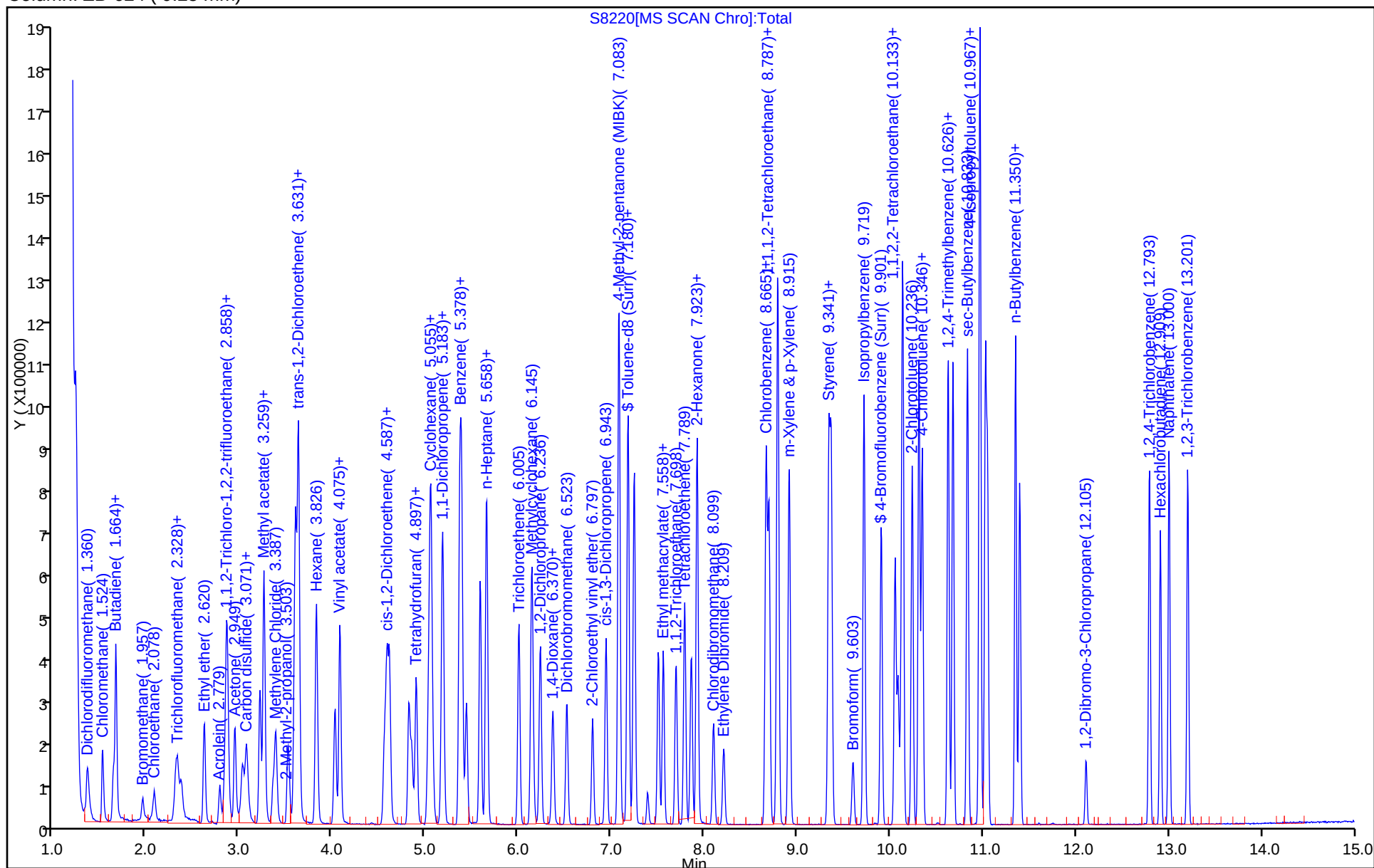
Dil. Factor: 1.0000

ALS Bottle#: 48

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8221.D
 Lims ID: IC 6
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 08-May-2015 17:13:30 ALS Bottle#: 49 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 6
 Misc. Info.: 480-0042209-011
 Operator ID: EB Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 11-May-2015 09:45:57 Calib Date: 08-May-2015 21:23:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8232.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK036

First Level Reviewer: HillL

Date: 10-May-2015 12:05:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.658	5.658	0.000	98	124700	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.665	8.665	0.000	86	237320	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.027	11.028	-0.001	65	231007	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.055	5.055	0.000	44	151818	27.2	27.8	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.366	5.366	0.000	0	95229	27.2	26.4	
\$ 5 Toluene-d8 (Surr)	98	7.180	7.180	0.000	92	585713	27.2	28.0	
\$ 6 4-Bromofluorobenzene (Surr	174	9.901	9.907	-0.006	87	188937	27.2	28.4	
10 Dichlorodifluoromethane	85	1.360	1.360	0.000	86	320184	50.0	53.9	
12 Chloromethane	50	1.524	1.524	0.000	89	348240	50.0	56.2	
13 Vinyl chloride	62	1.640	1.640	0.000	84	274364	50.0	52.4	
151 Butadiene	54	1.670	1.664	0.006	91	297614	50.0	50.6	
14 Bromomethane	94	1.957	1.957	0.000	89	69578	50.0	48.0	
15 Chloroethane	64	2.078	2.078	0.000	94	134968	50.0	51.2	
16 Dichlorofluoromethane	67	2.316	2.310	0.006	80	249809	50.0	50.7	
17 Trichlorofluoromethane	101	2.334	2.334	0.000	85	329624	50.0	51.8	
18 Ethyl ether	59	2.614	2.620	-0.006	96	262318	50.0	50.6	
20 Acrolein	56	2.785	2.785	0.000	94	143860	250.0	242.2	
21 1,1,2-Trichloro-1,2,2-trif	101	2.858	2.858	0.000	60	260228	50.0	54.9	
22 1,1-Dichloroethene	96	2.864	2.864	0.000	84	243036	50.0	52.1	
23 Acetone	43	2.943	2.949	-0.006	98	543796	250.0	239.8	
25 Iodomethane	142	3.028	3.028	0.000	99	348321	50.0	52.0	
26 Carbon disulfide	76	3.071	3.071	0.000	100	723865	50.0	54.5	
28 3-Chloro-1-propene	41	3.217	3.217	0.000	61	453617	50.0	48.8	
27 Methyl acetate	43	3.259	3.259	0.000	96	1338314	250.0	247.9	
30 Methylene Chloride	84	3.387	3.387	0.000	94	254564	50.0	51.7	
31 2-Methyl-2-propanol	59	3.521	3.521	0.000	98	428264	500.0	526.1	
32 Methyl tert-butyl ether	73	3.594	3.594	0.000	87	804081	50.0	49.1	
34 trans-1,2-Dichloroethene	96	3.606	3.600	0.006	84	254057	50.0	51.6	
33 Acrylonitrile	53	3.631	3.631	0.000	96	1238078	500.0	499.9	
35 Hexane	57	3.826	3.826	0.000	94	465697	50.0	52.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	4.026	4.027	-0.001	86	513909	50.0	51.5	
37 Vinyl acetate	43	4.075	4.075	0.000	97	1317664	100.0	104.2	
44 2,2-Dichloropropane	77	4.562	4.562	0.000	89	262936	50.0	50.2	
45 cis-1,2-Dichloroethene	96	4.587	4.587	0.000	72	280224	50.0	50.8	
43 2-Butanone (MEK)	43	4.611	4.611	0.000	94	821598	250.0	247.7	
48 Chlorobromomethane	128	4.818	4.824	-0.006	92	146070	50.0	55.2	
49 Tetrahydrofuran	42	4.848	4.848	0.000	88	218847	100.0	101.4	
50 Chloroform	83	4.897	4.897	0.000	82	471257	50.0	49.9	
51 1,1,1-Trichloroethane	97	5.031	5.031	0.000	91	371683	50.0	55.3	
52 Cyclohexane	56	5.061	5.055	0.006	94	529761	50.0	53.4	
55 Carbon tetrachloride	117	5.177	5.177	0.000	81	379112	50.0	54.2	
54 1,1-Dichloropropene	75	5.183	5.183	0.000	88	377162	50.0	52.2	
53 Isobutyl alcohol	43	5.366	5.366	0.000	92	440438	1250.0	1310.6	
57 Benzene	78	5.390	5.384	0.006	99	1069304	50.0	50.9	
58 1,2-Dichloroethane	62	5.439	5.439	0.000	78	431771	50.0	47.8	
59 n-Heptane	43	5.585	5.585	0.000	95	463304	50.0	51.6	
62 Trichloroethene	95	6.005	6.005	0.000	90	283768	50.0	52.2	
64 Methylcyclohexane	83	6.145	6.145	0.000	94	481972	50.0	53.7	
65 1,2-Dichloropropane	63	6.236	6.236	0.000	89	281046	50.0	52.1	
67 Dibromomethane	93	6.370	6.364	0.006	89	165941	50.0	52.5	
66 1,4-Dioxane	88	6.376	6.370	0.006	45	54384	1000.0	1080.3	
68 Dichlorobromomethane	83	6.522	6.523	-0.001	92	355357	50.0	54.3	
69 2-Chloroethyl vinyl ether	63	6.796	6.797	-0.001	92	191165	50.0	52.4	
72 cis-1,3-Dichloropropene	75	6.943	6.943	0.000	85	450422	50.0	55.4	
73 4-Methyl-2-pentanone (MIBK)	43	7.083	7.077	0.006	98	1619689	250.0	239.7	
74 Toluene	92	7.247	7.247	0.000	95	661667	50.0	50.2	
77 trans-1,3-Dichloropropene	75	7.503	7.503	0.000	95	417509	50.0	56.7	
75 Ethyl methacrylate	69	7.557	7.558	-0.001	74	361435	50.0	50.7	
79 1,1,2-Trichloroethane	83	7.697	7.691	0.006	88	191991	50.0	54.1	
81 Tetrachloroethene	166	7.789	7.789	0.000	91	310156	50.0	50.9	
82 1,3-Dichloropropane	76	7.862	7.862	0.000	92	428535	50.0	52.0	
80 2-Hexanone	43	7.923	7.923	0.000	95	1189462	250.0	243.8	
83 Chlorodibromomethane	129	8.099	8.099	0.000	89	261704	50.0	57.6	
84 Ethylene Dibromide	107	8.209	8.209	0.000	98	254656	50.0	53.4	
87 Chlorobenzene	112	8.696	8.696	0.000	92	797309	50.0	51.7	
89 1,1,1,2-Tetrachloroethane	131	8.787	8.787	0.000	41	268526	50.0	54.1	
88 Ethylbenzene	91	8.793	8.793	0.000	98	1236486	50.0	51.1	
90 m-Xylene & p-Xylene	106	8.915	8.915	0.000	0	500974	50.0	51.4	
91 o-Xylene	106	9.341	9.341	0.000	97	496403	50.0	51.4	
92 Styrene	104	9.366	9.366	0.000	95	847272	50.0	52.6	
95 Bromoform	173	9.603	9.603	0.000	96	155110	50.0	60.4	
94 Isopropylbenzene	105	9.719	9.719	0.000	97	1264122	50.0	51.2	
101 Bromobenzene	156	10.053	10.054	-0.001	97	319295	50.0	52.1	
97 1,1,2,2-Tetrachloroethane	83	10.084	10.084	0.000	86	303196	50.0	53.1	
100 1,2,3-Trichloropropane	110	10.120	10.120	0.000	62	98851	50.0	52.5	
98 trans-1,4-Dichloro-2-buten	53	10.133	10.133	0.000	38	117318	50.0	55.3	
99 N-Propylbenzene	91	10.133	10.139	-0.006	97	1419777	50.0	50.6	
103 2-Chlorotoluene	126	10.236	10.236	0.000	95	304717	50.0	51.2	
102 1,3,5-Trimethylbenzene	105	10.309	10.309	0.000	95	1089009	50.0	50.6	
105 4-Chlorotoluene	126	10.346	10.346	0.000	94	323890	50.0	51.0	
106 tert-Butylbenzene	134	10.626	10.626	0.000	92	276422	50.0	53.8	
107 1,2,4-Trimethylbenzene	105	10.674	10.674	0.000	67	1106561	50.0	50.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.833	10.833	0.000	95	1389806	50.0	52.2	
111 1,3-Dichlorobenzene	146	10.961	10.961	-0.001	84	589316	50.0	50.0	
110 4-Isopropyltoluene	119	10.967	10.967	0.000	96	1214865	50.0	52.7	
113 1,4-Dichlorobenzene	146	11.046	11.046	0.000	91	606966	50.0	48.7	
115 n-Butylbenzene	91	11.350	11.350	0.000	96	1029487	50.0	50.8	
116 1,2-Dichlorobenzene	146	11.393	11.393	0.000	91	587605	50.0	49.8	
117 1,2-Dibromo-3-Chloropropan	75	12.105	12.111	-0.006	73	64665	50.0	53.1	
119 1,2,4-Trichlorobenzene	180	12.793	12.793	0.000	93	477867	50.0	53.2	
120 Hexachlorobutadiene	225	12.909	12.909	0.000	95	228592	50.0	52.7	
121 Naphthalene	128	13.000	13.000	0.000	98	1167178	50.0	53.6	
122 1,2,3-Trichlorobenzene	180	13.201	13.201	0.000	93	441886	50.0	51.5	
S 125 1,2-Dichloroethene, Total	1				0			102.3	
S 126 1,3-Dichloropropene, Total	1				0			112.2	
S 123 Total BTEX	1				0			255.0	
S 124 Xylenes, Total	1				0			102.7	

Reagents:

8260 CORP mix_00039	Amount Added: 25.00	Units: uL	
GAS CORP mix_00086	Amount Added: 25.00	Units: uL	
S_8260_IS_00099	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00105	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8221.D

Injection Date: 08-May-2015 17:13:30

Instrument ID: HP5973S

Operator ID: EB

Lims ID: IC 6

Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL

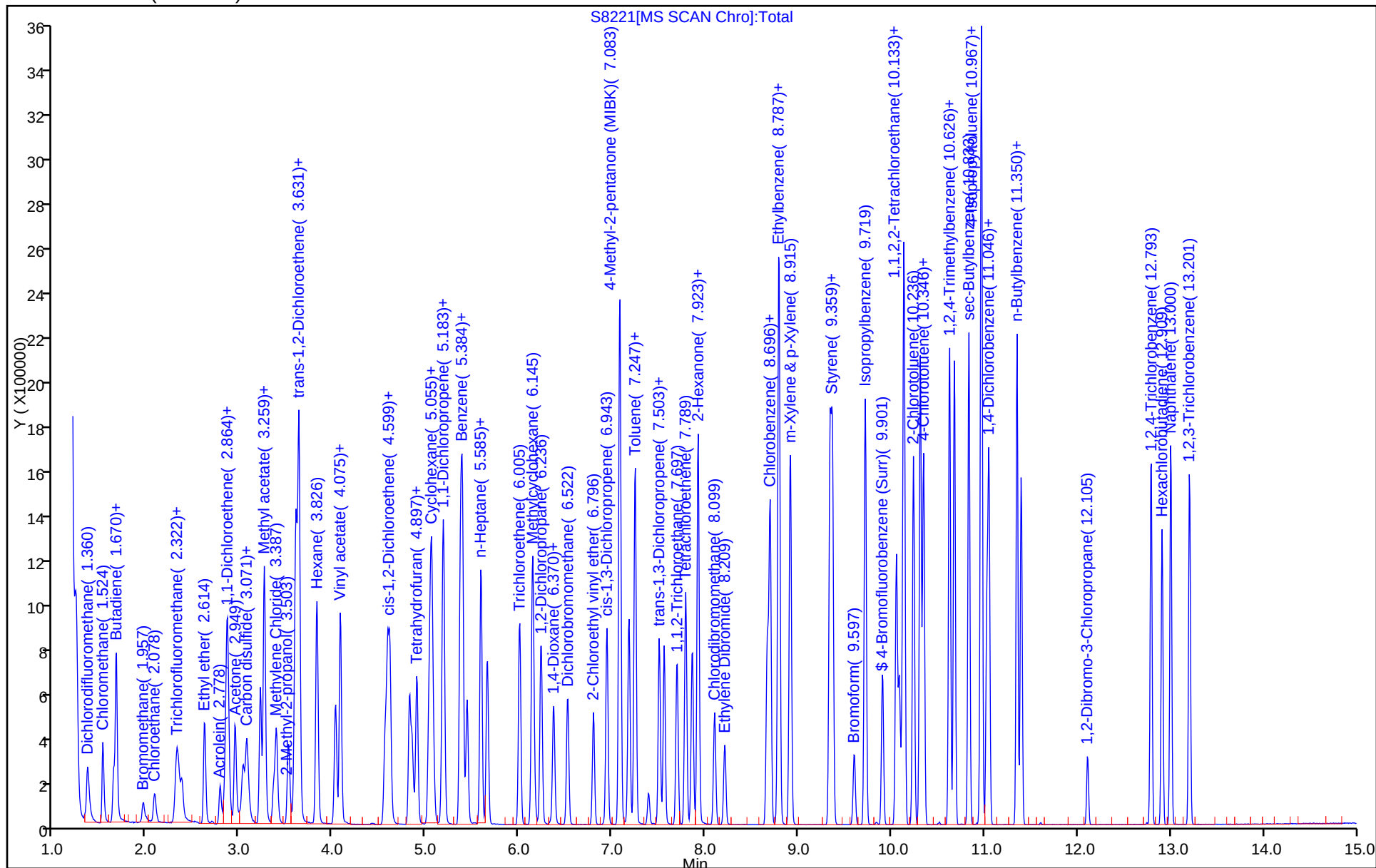
Dil. Factor: 1.0000

ALS Bottle#: 49

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8222.D
 Lims ID: IC 7
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 08-May-2015 17:36:30 ALS Bottle#: 50 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 7
 Misc. Info.: 480-0042209-012
 Operator ID: EB Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 11-May-2015 09:47:13 Calib Date: 08-May-2015 21:23:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8232.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK036

First Level Reviewer: HillL

Date: 10-May-2015 12:05:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.658	5.658	0.000	93	130643	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.665	8.665	0.000	86	249799	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.028	11.028	0.000	71	234404	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.055	5.055	0.000	32	150156	27.2	26.2	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.366	5.366	0.000	0	97411	27.2	25.8	
\$ 5 Toluene-d8 (Surr)	98	7.180	7.180	0.000	91	595199	27.2	27.0	
\$ 6 4-Bromofluorobenzene (Surr	174	9.901	9.907	-0.006	86	188252	27.2	26.9	
10 Dichlorodifluoromethane	85	1.360	1.360	0.000	87	649989	100.0	104.4	
12 Chloromethane	50	1.524	1.524	0.000	89	696124	100.0	107.3	
13 Vinyl chloride	62	1.640	1.640	0.000	83	550978	100.0	100.5	
151 Butadiene	54	1.671	1.664	0.007	90	600106	100.0	97.5	
14 Bromomethane	94	1.975	1.957	0.018	91	183246	100.0	120.8	
15 Chloroethane	64	2.078	2.078	0.000	95	277056	100.0	100.2	
16 Dichlorofluoromethane	67	2.316	2.310	0.006	81	543888	100.0	104.4	
17 Trichlorofluoromethane	101	2.334	2.334	0.000	86	680467	100.0	101.5	
18 Ethyl ether	59	2.614	2.620	-0.006	96	526874	100.0	97.1	
20 Acrolein	56	2.785	2.785	0.000	95	297756	500.0	478.4	
21 1,1,2-Trichloro-1,2,2-trif	101	2.852	2.858	-0.006	69	521839	100.0	105.1	
22 1,1-Dichloroethene	96	2.864	2.864	0.000	81	479639	100.0	98.1	
23 Acetone	43	2.943	2.949	-0.006	98	1073938	500.0	452.1	
25 Iodomethane	142	3.028	3.028	0.000	97	682616	100.0	97.3	
26 Carbon disulfide	76	3.071	3.071	0.000	100	1468365	100.0	105.5	
28 3-Chloro-1-propene	41	3.217	3.217	0.000	61	925726	100.0	95.0	
27 Methyl acetate	43	3.259	3.259	0.000	96	2618491	500.0	462.9	
30 Methylene Chloride	84	3.387	3.387	0.000	93	498277	100.0	97.5	
31 2-Methyl-2-propanol	59	3.515	3.521	-0.006	98	841002	1000.0	986.1	
32 Methyl tert-butyl ether	73	3.594	3.594	0.000	88	1572376	100.0	91.7	
34 trans-1,2-Dichloroethene	96	3.606	3.600	0.006	89	498556	100.0	96.6	
33 Acrylonitrile	53	3.631	3.631	0.000	96	2422891	1000.0	933.8	
35 Hexane	57	3.826	3.826	0.000	94	946041	100.0	101.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	4.027	4.027	0.000	85	1053433	100.0	100.7	
37 Vinyl acetate	43	4.075	4.075	0.000	97	2616949	200.0	197.6	
44 2,2-Dichloropropane	77	4.556	4.562	-0.006	93	518592	100.0	94.5	
45 cis-1,2-Dichloroethene	96	4.587	4.587	0.000	71	554781	100.0	95.9	
43 2-Butanone (MEK)	43	4.605	4.611	-0.006	93	1611940	500.0	464.0	
48 Chlorobromomethane	128	4.824	4.824	0.000	94	290005	100.0	104.7	
49 Tetrahydrofuran	42	4.848	4.848	0.000	89	432843	200.0	191.4	
50 Chloroform	83	4.897	4.897	0.000	72	943183	100.0	95.3	
51 1,1,1-Trichloroethane	97	5.031	5.031	0.000	91	742843	100.0	105.5	
52 Cyclohexane	56	5.061	5.055	0.006	94	1043627	100.0	100.4	
55 Carbon tetrachloride	117	5.177	5.177	0.000	85	769179	100.0	105.0	
54 1,1-Dichloropropene	75	5.183	5.183	0.000	88	753050	100.0	99.5	
53 Isobutyl alcohol	43	5.366	5.366	0.000	93	860181	2500.0	2443.2	
57 Benzene	78	5.390	5.384	0.006	98	2086416	100.0	94.8	
58 1,2-Dichloroethane	62	5.439	5.439	0.000	78	851037	100.0	90.0	
59 n-Heptane	43	5.585	5.585	0.000	96	954774	100.0	101.5	
62 Trichloroethene	95	6.005	6.005	0.000	91	562566	100.0	98.8	
64 Methylcyclohexane	83	6.145	6.145	0.000	94	969474	100.0	103.1	
65 1,2-Dichloropropane	63	6.236	6.236	0.000	90	554251	100.0	98.2	
67 Dibromomethane	93	6.364	6.364	0.000	92	324964	100.0	98.2	
66 1,4-Dioxane	88	6.370	6.370	0.000	41	103730	2000.0	1957.6	
68 Dichlorobromomethane	83	6.523	6.523	0.000	92	736420	100.0	107.5	
69 2-Chloroethyl vinyl ether	63	6.797	6.797	-0.001	92	395130	100.0	103.4	
72 cis-1,3-Dichloropropene	75	6.943	6.943	0.000	86	907842	100.0	106.6	
73 4-Methyl-2-pentanone (MIBK)	43	7.083	7.077	0.006	97	3080806	500.0	433.2	
74 Toluene	92	7.247	7.247	0.000	97	1315079	100.0	94.9	
77 trans-1,3-Dichloropropene	75	7.503	7.503	0.000	95	852029	100.0	110.0	
75 Ethyl methacrylate	69	7.557	7.558	-0.001	74	718109	100.0	95.7	
79 1,1,2-Trichloroethane	83	7.698	7.691	0.007	89	386560	100.0	103.4	
81 Tetrachloroethene	166	7.789	7.789	0.000	91	623237	100.0	97.2	
82 1,3-Dichloropropane	76	7.862	7.862	0.000	94	846640	100.0	97.7	
80 2-Hexanone	43	7.923	7.923	0.000	81	2215029	500.0	431.3	
83 Chlorodibromomethane	129	8.099	8.099	0.000	89	558066	100.0	116.6	
84 Ethylene Dibromide	107	8.209	8.209	0.000	98	514151	100.0	102.5	
87 Chlorobenzene	112	8.696	8.696	0.000	93	1576061	100.0	97.1	
89 1,1,1,2-Tetrachloroethane	131	8.787	8.787	0.000	42	542839	100.0	103.8	
88 Ethylbenzene	91	8.793	8.793	0.000	98	2378174	100.0	93.3	
90 m-Xylene & p-Xylene	106	8.915	8.915	0.000	0	1008770	100.0	98.3	
91 o-Xylene	106	9.341	9.341	0.000	97	977818	100.0	96.1	
92 Styrene	104	9.366	9.366	0.000	95	1656628	100.0	97.7	
95 Bromoform	173	9.603	9.603	0.000	97	335085	100.0	124.0	
94 Isopropylbenzene	105	9.719	9.719	0.000	96	2469884	100.0	98.7	
101 Bromobenzene	156	10.054	10.054	0.000	97	624555	100.0	100.5	
97 1,1,2,2-Tetrachloroethane	83	10.084	10.084	0.000	88	595908	100.0	102.8	
100 1,2,3-Trichloropropane	110	10.120	10.120	0.000	53	193290	100.0	101.2	
98 trans-1,4-Dichloro-2-buten	53	10.133	10.133	0.000	39	237207	100.0	110.2	
99 N-Propylbenzene	91	10.139	10.139	0.000	97	2726585	100.0	95.8	
103 2-Chlorotoluene	126	10.236	10.236	0.000	95	610265	100.0	101.1	
102 1,3,5-Trimethylbenzene	105	10.309	10.309	0.000	95	2097578	100.0	96.1	
105 4-Chlorotoluene	126	10.346	10.346	0.000	96	634609	100.0	98.5	
106 tert-Butylbenzene	134	10.626	10.626	0.000	92	527025	100.0	101.1	
107 1,2,4-Trimethylbenzene	105	10.674	10.674	0.000	66	2113741	100.0	95.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.833	10.833	0.000	95	2668379	100.0	98.8	
111 1,3-Dichlorobenzene	146	10.961	10.961	0.000	86	1136092	100.0	94.9	
110 4-Isopropyltoluene	119	10.973	10.967	0.006	96	2276481	100.0	97.3	
113 1,4-Dichlorobenzene	146	11.046	11.046	0.000	92	1201004	100.0	95.0	
115 n-Butylbenzene	91	11.350	11.350	0.000	97	1980641	100.0	96.3	
116 1,2-Dichlorobenzene	146	11.393	11.393	0.000	90	1133572	100.0	94.7	
117 1,2-Dibromo-3-Chloropropan	75	12.105	12.111	-0.006	78	130840	100.0	106.0	
119 1,2,4-Trichlorobenzene	180	12.793	12.793	0.000	94	883774	100.0	96.9	
120 Hexachlorobutadiene	225	12.909	12.909	0.000	95	437650	100.0	99.3	
121 Naphthalene	128	13.000	13.000	0.000	98	2234775	100.0	101.2	
122 1,2,3-Trichlorobenzene	180	13.207	13.201	0.006	94	857425	100.0	98.6	
S 123 Total BTEX	1				0			477.4	
S 124 Xylenes, Total	1				0			194.4	
S 125 1,2-Dichloroethene, Total	1				0			192.5	
S 126 1,3-Dichloropropene, Total	1				0			216.6	

Reagents:

8260 CORP mix_00039	Amount Added: 50.00	Units: uL	
GAS CORP mix_00086	Amount Added: 50.00	Units: uL	
S_8260_IS_00099	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00105	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8222.D

Injection Date: 08-May-2015 17:36:30

Instrument ID: HP5973S

Operator ID: EB

Lims ID: IC 7

Worklist Smp#: 12

Client ID:

Purge Vol: 5.000 mL

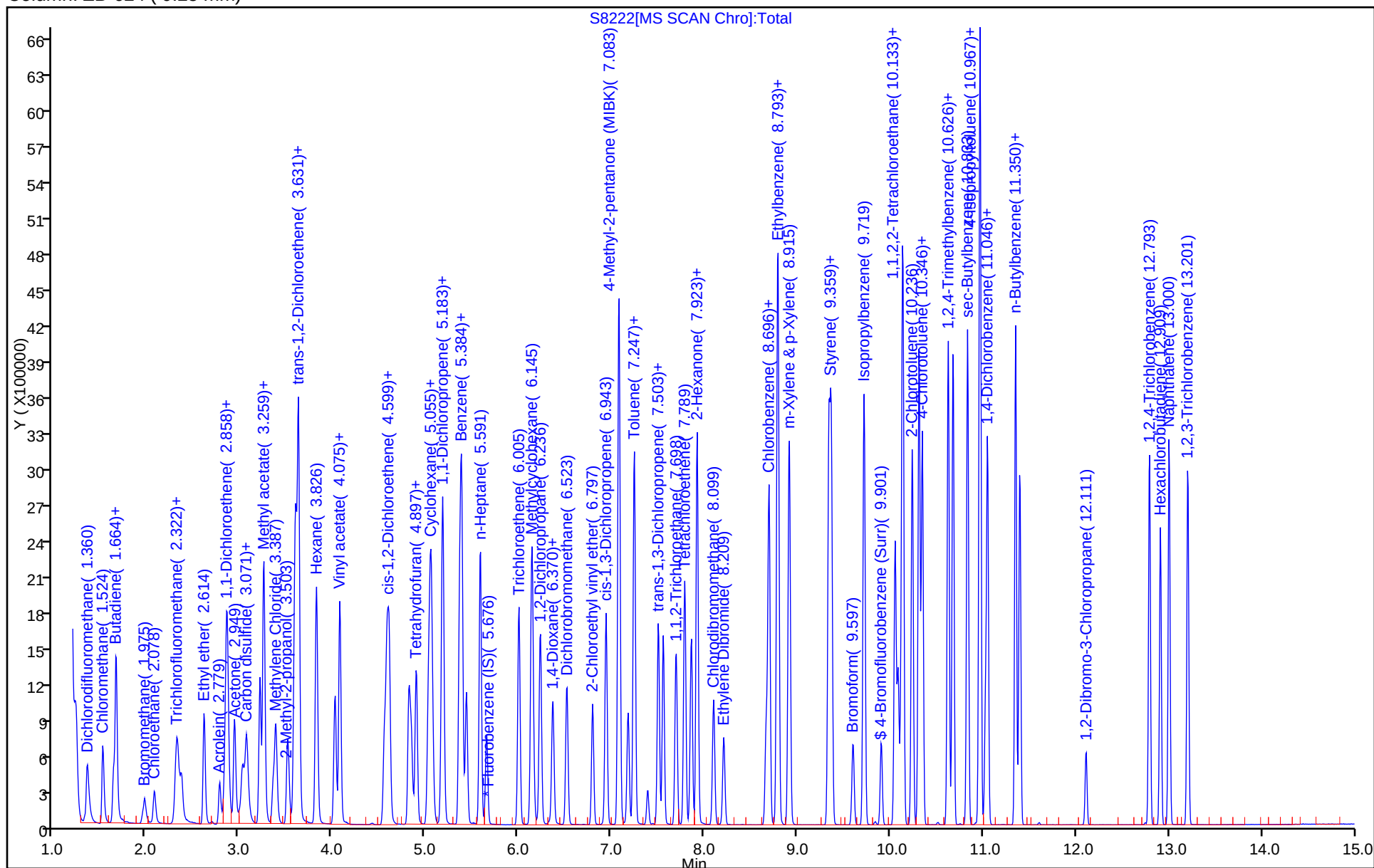
Dil. Factor: 1.0000

ALS Bottle#: 50

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-83014-1 Analy Batch No.: 241387

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2015 19:07 Calibration End Date: 05/08/2015 21:23 Calibration ID: 23331

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-241387/16	S8226.D
Level 2	IC 480-241387/17	S8227.D
Level 3	IC 480-241387/18	S8228.D
Level 4	IC 480-241387/19	S8229.D
Level 5	IC 480-241387/20	S8230.D
Level 6	IC 480-241387/21	S8231.D
Level 7	IC 480-241387/22	S8232.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorodifluoromethane	+++++ 0.9321	0.3846 0.9312	0.7323	0.7645	0.8706	Lin1	-0.698	0.9287							0.9990		0.9900
Ethanol	+++++ 0.0158	0.0118 0.0137	0.0133	0.0163	0.0149	Ave		0.0143				11.8		20.0			
Isopropyl alcohol	0.0974 0.1036	0.1021 0.0918	0.0903	0.1054	0.1013	Ave		0.0988				5.9		20.0			
Acetonitrile	+++++ 0.0900	0.1258 0.0797	0.1018	0.0951	0.0894	Ave		0.0970				16.4		20.0			
Isopropyl ether	3.7835 3.7625	4.0690 3.5013	3.9545	3.9175	3.8466	Ave		3.8335				4.7		20.0			
Chloroprene	1.7348 1.9158	1.4353 1.7527	1.9504	1.8549	1.8965	Ave		1.7915				9.9		20.0			
1,1-Dimethoxyethane	0.2243 0.2315	0.2373 0.2165	0.2257	0.2364	0.2314	Ave		0.2290				3.2		20.0			
Tert-butyl ethyl ether	3.4724 3.7846	4.2420 3.5115	4.0605	3.8774	3.8037	Ave		3.8218				7.2		20.0			
Ethyl acetate	1.3569 1.2485	1.4369 1.1414	1.2976	1.2936	1.2820	Ave		1.2939				7.0		20.0			
Propionitrile	0.1751 0.2017	0.2062 0.1842	0.2065	0.2138	0.1964	Ave		0.1977				6.9		20.0			
Methacrylonitrile	0.8821 0.7741	0.9000 0.6695	0.8602	0.8285	0.8047	Ave		0.8170				9.6		20.0			
Isooctane	3.5838 3.7363	3.3775 3.2791	3.7214	3.5961	3.6493	Ave		3.5634				4.8		20.0			
t-Amyl alcohol	0.1502 0.1557	0.1465 0.1350	0.1410	0.1555	0.1529	Ave		0.1481				5.3		15.0			
Tert-amyl methyl ether	3.9807 3.2646	4.4300 3.4664	3.8928	3.8494	3.8347	Ave		3.8170				9.8		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo

Job No.: 480-83014-1

Analy Batch No.: 241387

SDG No.: _____

Instrument ID: HP5973S

GC Column: ZB-624 (60) ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2015 19:07

Calibration End Date: 05/08/2015 21:23

Calibration ID: 23331

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,4-Difluorobenzene	3.2346 3.3081	3.0937 3.0688	3.4484	3.2888	3.3281	Ave		3.2529				4.1		20.0			
n-Butanol	++++ 0.0460	0.0343 0.0415	0.0345	0.0418	0.0432	Ave		0.0402				11.9		20.0			
Ethyl acrylate	1.5618 1.7120	1.7308 1.5539	1.7181	1.7421	1.7163	Ave		1.6764				4.9		20.0			
Methyl methacrylate	1.2542 1.1514	1.3103 1.0206	1.2052	1.2221	1.1768	Ave		1.1915				7.7		20.0			
2-Nitropropane	0.1597 0.2080	0.1260 0.2056	0.1565	0.1699	0.1841	Ave		0.1728				16.8		20.0			
Epichlorohydrin	0.1269 0.1299	0.1451 0.1195	0.1263	0.1321	0.1282	Ave		0.1297				6.0		20.0			
2-Methylthiophene	1.5930 1.6946	1.3941 1.5693	1.6740	1.6275	1.6178	Ave		1.5957				6.2		20.0			
3-Methylthiophene	1.7840 1.7455	1.5145 1.6191	1.7521	1.7147	1.6743	Ave		1.6863				5.5		20.0			
n-Butyl acetate	++++ 1.9852	2.1766 1.7295	2.0389	2.0558	2.0933	Ave		2.0132			0.1000	7.6		20.0			
1-Chlorohexane	1.6149 0.5630	1.0593 0.5050	0.6514	0.6333	0.5486	Lin1	0.5718	0.5212							0.9970		0.9900
3-Chlorobenzotrifluoride	0.7474 0.8456	0.7190 0.7822	0.8636	0.8232	0.8231	Ave		0.8006				6.6		20.0			
4-Chlorobenzotrifluoride	0.8747 0.7997	0.6810 0.7353	0.7885	0.8073	0.7693	Ave		0.7794				7.8		20.0			
2-Chlorobenzotrifluoride	0.8020 0.8863	0.7258 0.8195	0.8593	0.8603	0.8649	Ave		0.8312				6.6		20.0			
Cyclohexanone	0.0240 0.0292	0.0262 0.0251	0.0254	0.0277	0.0278	Ave		0.0265				6.9		20.0			
3-Chlorotoluene	0.6306 0.6581	0.5594 0.6115	0.6714	0.6431	0.6563	Ave		0.6329				6.0		20.0			
Pentachloroethane	0.1304 0.3004	0.2739 0.2906	0.2765	0.2674	0.2752	Lin1	-0.067	0.2915							0.9990		0.9900
Dicyclopentadiene	++++ 2.7377	2.7922 2.5234	2.6740	2.6030	2.6670	Ave		2.6662				3.6		20.0			
1,2,3-Trimethylbenzene	2.3489 2.3763	2.2680 2.1597	2.4030	2.4287	2.3798	Ave		2.3378				4.0		20.0			
Benzyl chloride	++++ 0.2443	0.2035 0.2386	0.1986	0.2131	0.2341	Ave		0.2221				8.7		20.0			
1,3,5-Trichlorobenzene	1.1478 1.0090	0.8965 0.9102	0.9940	1.0366	1.0107	Ave		1.0007				8.4		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-83014-1 Analy Batch No.: 241387
 SDG No.: _____
 Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 05/08/2015 19:07 Calibration End Date: 05/08/2015 21:23 Calibration ID: 23331

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
2-Methylnaphthalene	1.3138 1.7135	1.3215 1.6495	1.3594	1.5100	1.6114	Ave		1.4970				11.1		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-83014-1 Analy Batch No.: 241387

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2015 19:07 Calibration End Date: 05/08/2015 21:23 Calibration ID: 23331

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-241387/16	S8226.D
Level 2	IC 480-241387/17	S8227.D
Level 3	IC 480-241387/18	S8228.D
Level 4	IC 480-241387/19	S8229.D
Level 5	IC 480-241387/20	S8230.D
Level 6	IC 480-241387/21	S8231.D
Level 7	IC 480-241387/22	S8232.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chlorodifluoromethane	FB	Lin1	+++++ 241370	1907 476152	18043	39160	109169	+++++ 50.0	1.00 100	5.00	10.0	25.0
Ethanol	FB	Ave	+++++ 163969	2349 279829	13092	33417	74758	+++++ 2000	40.0 4000	200	400	1000
Isopropyl alcohol	FB	Ave	2404 268176	5062 469226	22253	53993	126971	5.00 500	10.0 1000	50.0	100	250
Acetonitrile	FB	Ave	+++++ 232972	6238 407605	25088	48713	112142	+++++ 500	10.0 1000	50.0	100	250
Isopropyl ether	FB	Ave	9341 974272	20173 1790219	97439	200664	482362	0.500 50.0	1.00 100	5.00	10.0	25.0
Chloroprene	FB	Ave	4283 496091	7116 896148	48058	95012	237818	0.500 50.0	1.00 100	5.00	10.0	25.0
1,1-Dimethoxyethane	FB	Ave	2769 299681	5883 553607	27809	60550	145071	2.50 250	5.00 500	25.0	50.0	125
Tert-butyl ethyl ether	FB	Ave	8573 980009	21031 1795473	100050	198612	476989	0.500 50.0	1.00 100	5.00	10.0	25.0
Ethyl acetate	FB	Ave	6700 646560	14248 1167233	63946	132527	321538	1.00 100	2.00 200	10.0	20.0	50.0
Propionitrile	FB	Ave	4324 522408	10223 941826	50873	109497	246268	5.00 500	10.0 1000	50.0	100	250
Methacrylonitrile	FB	Ave	21778 2004595	44622 3423294	211945	424357	1009048	5.00 500	10.0 1000	50.0	100	250
Isooctane	FB	Ave	8848 967494	16745 1676654	91694	184202	457626	0.500 50.0	1.00 100	5.00	10.0	25.0
t-Amyl alcohol	FB	Ave	3708 403149	7261 690123	34753	79676	191792	5.00 500	10.0 1000	50.0	100	250
Tert-amyl methyl ether	FB	Ave	9828 845341	21963 1772410	95918	197176	480878	0.500 50.0	1.00 100	5.00	10.0	25.0
1,4-Difluorobenzene	FB	Ave	7986 856618	15338 1569087	84969	168458	417343	0.500 50.0	1.00 100	5.00	10.0	25.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-83014-1 Analy Batch No.: 241387

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2015 19:07 Calibration End Date: 05/08/2015 21:23 Calibration ID: 23331

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
n-Butanol	FB	Ave	+++++ 297959	4256 530495	21263	53578	135360	+++++ 1250	25.0 2500	125	250	625
Ethyl acrylate	FB	Ave	3856 443313	8581 794498	42334	89234	215228	0.500 50.0	1.00 100	5.00	10.0	25.0
Methyl methacrylate	FB	Ave	6193 596286	12992 1043675	59391	125196	295133	1.00 100	2.00 200	10.0	20.0	50.0
2-Nitropropane	DCB	Ave	1533 198060	2501 384337	14844	33455	88439	1.00 100	2.00 200	10.0	20.0	50.0
Epichlorohydrin	FB	Ave	3134 336298	7194 611177	31116	67648	160802	5.00 500	10.0 1000	50.0	100	250
2-Methylthiophene	DCB	Ave	7647 806715	13833 1466564	79387	160226	388675	0.500 50.0	1.00 100	5.00	10.0	25.0
3-Methylthiophene	DCB	Ave	8564 830960	15027 1513123	83091	168809	402254	0.500 50.0	1.00 100	5.00	10.0	25.0
n-Butyl acetate	FB	Ave	+++++ 514068	10791 884310	50237	105302	262505	+++++ 50.0	1.00 100	5.00	10.0	25.0
1-Chlorohexane	CBZ	Lin1	7675 278172	10296 478387	31849	61282	135961	0.500 50.0	1.00 100	5.00	10.0	25.0
3-Chlorobenzotrifluoride	DCB	Ave	3588 402559	7134 730962	40955	81042	197756	0.500 50.0	1.00 100	5.00	10.0	25.0
4-Chlorobenzotrifluoride	DCB	Ave	4199 380709	6757 687162	37394	79483	184815	0.500 50.0	1.00 100	5.00	10.0	25.0
2-Chlorobenzotrifluoride	DCB	Ave	3850 421941	7202 765817	40751	84694	207796	0.500 50.0	1.00 100	5.00	10.0	25.0
Cyclohexanone	DCB	Ave	1153 139143	2595 234778	12053	27268	66718	5.00 500	10.0 1000	50.0	100	250
3-Chlorotoluene	DCB	Ave	3027 313277	5551 571448	31840	63317	157665	0.500 50.0	1.00 100	5.00	10.0	25.0
Pentachloroethane	DCB	Lin1	626 143014	2718 271588	13114	26326	66126	0.500 50.0	1.00 100	5.00	10.0	25.0
Dicyclopentadiene	DCB	Ave	+++++ 1303299	27705 2358142	126814	256263	640740	+++++ 50.0	1.00 100	5.00	10.0	25.0
1,2,3-Trimethylbenzene	DCB	Ave	11276 1131287	22504 2018301	113959	239109	571731	0.500 50.0	1.00 100	5.00	10.0	25.0
Benzyl chloride	CBZ	Ave	+++++ 120726	1978 226002	9713	20625	58032	+++++ 50.0	1.00 100	5.00	10.0	25.0
1,3,5-Trichlorobenzene	DCB	Ave	5510 480370	8895 850573	47141	102055	242829	0.500 50.0	1.00 100	5.00	10.0	25.0
2-Methylnaphthalene	DCB	Ave	6307 815713	13112 1541499	64469	148658	387137	0.500 50.0	1.00 100	5.00	10.0	25.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-83014-1 Analy Batch No.: 241387
SDG No.: _____
Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 05/08/2015 19:07 Calibration End Date: 05/08/2015 21:23 Calibration ID: 23331

Curve Type Legend:

Ave = Average ISTD Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8226.D
 Lims ID: IC 8
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 08-May-2015 19:07:30 ALS Bottle#: 54 Worklist Smp#: 16
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 8
 Misc. Info.: 480-0042209-016
 Operator ID: EB Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub33
 Method: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 12-May-2015 17:15:57 Calib Date: 08-May-2015 21:23:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8232.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: feldmanl

Date: 11-May-2015 09:51:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.658	5.658	0.000	98	123445	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.665	8.665	0.000	86	237625	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.028	11.028	0.000	96	240024	25.0	25.0	
11 Chlorodifluoromethane	51	1.384	1.384	0.000	8	1272	0.5000	1.03	
148 Ethanol	45		2.608				ND	ND	
19 Propene oxide	58	2.699	2.699	0.000	79	3679	NC	NC	
24 Isopropyl alcohol	45	3.150	3.132	0.018	27	2404	5.00	4.93	
29 Acetonitrile	40	3.259	3.247	0.012	79	4656	5.00	9.72	
36 Isopropyl ether	45	4.063	4.057	0.006	83	9341	0.5000	0.4935	
40 2-Chloro-1,3-butadiene	53	4.093	4.093	0.000	27	4283	0.5000	0.4842	
38 1,1-Dimethoxyethane	75	4.130	4.118	0.012	60	2769	2.50	2.45	
41 Tert-butyl ethyl ether	59	4.398	4.398	0.000	72	8573	0.5000	0.4543	
42 Ethyl acetate	43	4.654	4.654	0.000	62	6700	1.00	1.05	
46 Propionitrile	54	4.708	4.696	0.012	39	4324	5.00	4.43	
47 Methacrylonitrile	41	4.824	4.818	0.006	85	21778	5.00	5.40	
152 Isooctane	57	5.408	5.414	-0.006	1	8848	0.5000	0.5029	M
147 t-Amyl alcohol	59	5.439	5.427	0.012	40	3708	5.00	5.07	
56 Tert-amyl methyl ether	73	5.469	5.469	0.000	45	9828	0.5000	0.5215	
1 1,4-Difluorobenzene	114	5.755	5.761	-0.006	1	7986	0.5000	0.4972	
60 n-Butanol	56	5.993	5.993	0.000	11	1582	12.5	7.96	
142 Ethyl acrylate	55	6.115	6.109	0.007	19	3856	0.5000	0.4658	
63 Methyl methacrylate	41	6.328	6.334	-0.006	47	6193	1.00	1.05	
70 2-Nitropropane	43	6.754	6.754	0.000	70	1533	1.00	0.9239	
71 Epichlorohydrin	57	6.882	6.882	0.000	1	3134	5.00	4.89	
76 2-Methylthiophene	97	7.381	7.381	0.000	23	7647	0.5000	0.4991	
78 3-Methylthiophene	97	7.545	7.545	0.000	44	8564	0.5000	0.5290	
155 n-Butyl acetate	43	8.038	8.038	0.000	0	5883	0.5000	0.5918	
146 1-Chlorohexane	55	8.665	8.647	0.018	15	7675	0.5000	0.4522	
85 3-Chlorobenzotrifluoride	180	8.665	8.659	0.006	4	3588	0.5000	0.4668	
86 4-Chlorobenzotrifluoride	180	8.714	8.720	-0.006	1	4199	0.5000	0.5611	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
93 2-Chlorobenzotrifluoride	180	9.633	9.633	0.000	6	3850	0.5000	0.4825	
96 Cyclohexanone	55	9.853	9.865	-0.012	1	1153	5.00	4.53	
104 3-Chlorotoluene	126	10.297	10.297	0.000	47	3027	0.5000	0.4981	
108 Pentachloroethane	167	10.680	10.674	0.006	1	626	0.5000	0.4539	
114 Dicyclopentadiene	66	11.040	11.040	0.000	36	17033	0.5000	0.6654	
112 1,2,3-Trimethylbenzene	105	11.082	11.076	0.006	6	11276	0.5000	0.5024	
150 Benzyl chloride	126	11.180	11.186	-0.006	1	634	0.5000	0.3004	
118 1,3,5-Trichlorobenzene	180	12.257	12.257	0.000	37	5510	0.5000	0.5735	
149 2-Methylnaphthalene	142	13.913	13.913	0.000	4	6307	0.5000	0.4388	

QC Flag Legend

Processing Flags

NC - Not Calibrated

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

3MTP_WRK_00046	Amount Added: 0.50	Units: uL
2MTP_WRK_00044	Amount Added: 0.50	Units: uL
S_8260_IS_00099	Amount Added: 1.00	Units: uL
ADD CORP mix_00031	Amount Added: 0.50	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\\lg6\\Buffalo\\ChromData\\HP5973S\\20150508-42209.b\\S8226.D

Injection Date: 08-May-2015 19:07:30

Instrument ID: HP5973S

Operator ID: EB

Lims ID: IC 8

Worklist Smp#: 16

Client ID:

Purge Vol: 5.000 mL

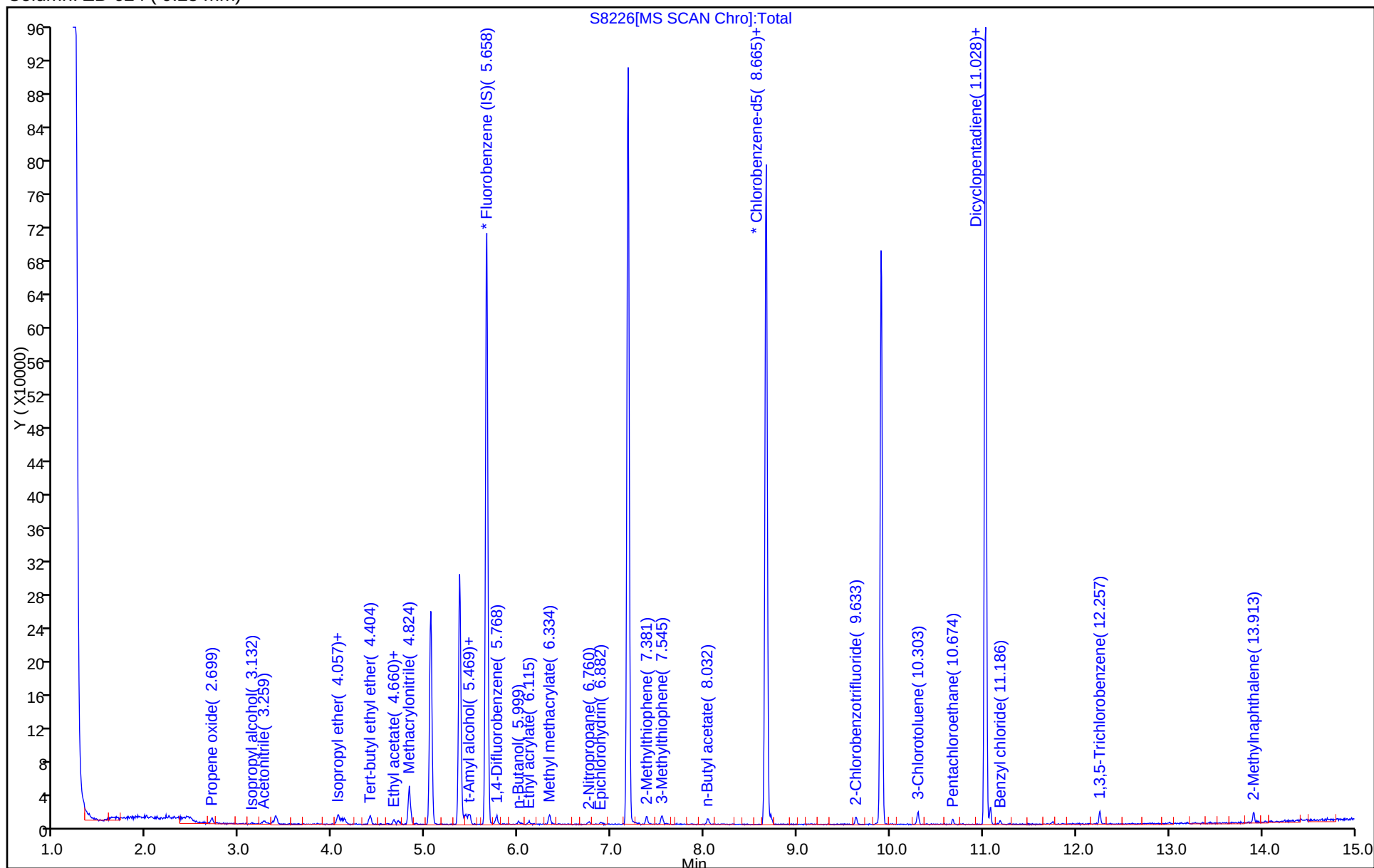
Dil. Factor: 1.0000

ALS Bottle#: 54

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8226.D

Injection Date: 08-May-2015 19:07:30

Instrument ID: HP5973S

Lims ID: IC 8

Client ID:

Operator ID: EB

ALS Bottle#:

54

Worklist Smp#: 16

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

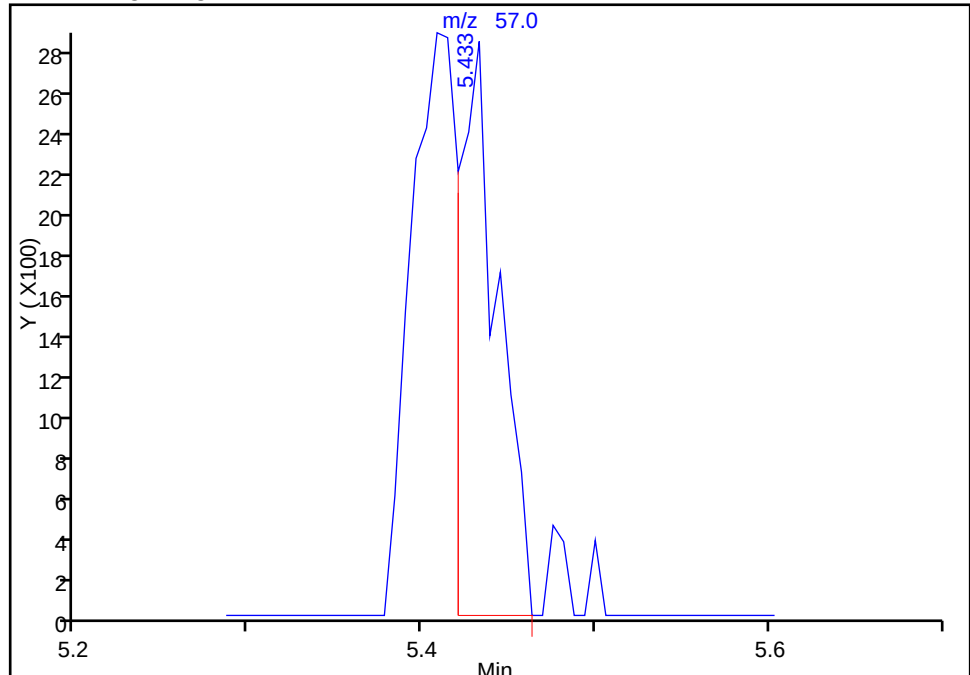
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

152 Isooctane, CAS: 540-84-1

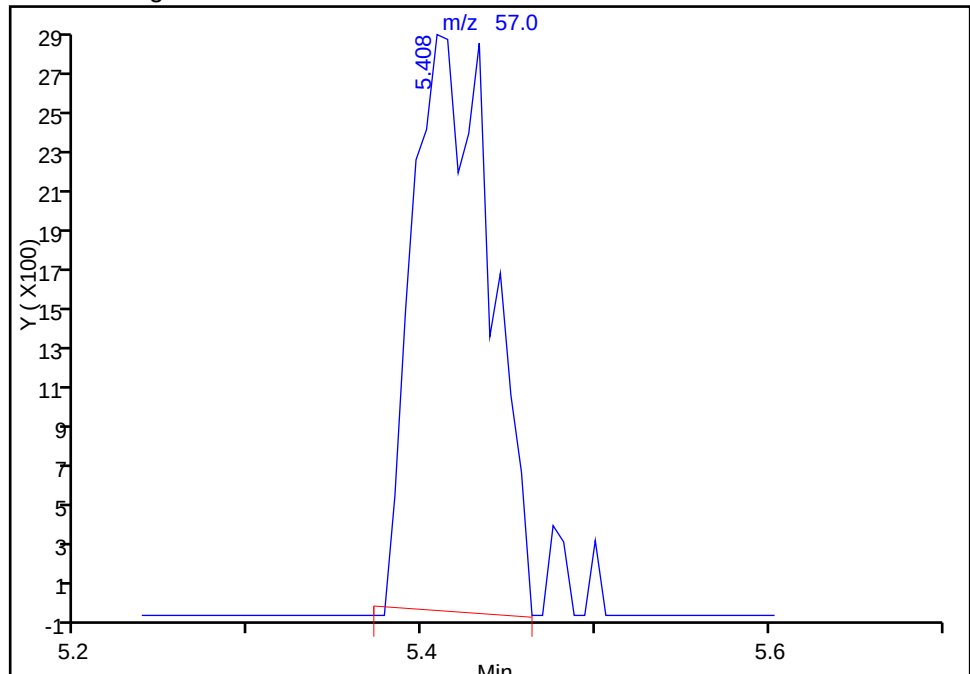
RT: 5.43
Area: 4442
Amount: 0.373371
Amount Units: ug/L

Processing Integration Results



RT: 5.41
Area: 8848
Amount: 0.502865
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 10-May-2015 11:12:01

Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8227.D
 Lims ID: IC 9
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 08-May-2015 19:29:30 ALS Bottle#: 55 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 9
 Misc. Info.: 480-0042209-017
 Operator ID: EB Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub33
 Method: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 12-May-2015 17:15:38 Calib Date: 08-May-2015 21:23:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8232.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: HillL

Date: 10-May-2015 12:06:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.652	5.658	-0.006	97	123944	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.665	8.665	0.000	87	242988	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.028	11.028	0.000	96	248057	25.0	25.0	
11 Chlorodifluoromethane	51	1.384	1.384	0.000	8	1907	1.00	1.17	
148 Ethanol	45	2.608	2.608	0.000	75	2349	40.0	33.1	
19 Propene oxide	58	2.699	2.699	0.000	47	7482	NC	NC	
24 Isopropyl alcohol	45	3.132	3.132	0.000	49	5062	10.0	10.3	
29 Acetonitrile	40	3.253	3.247	0.006	75	6238	10.0	13.0	M
36 Isopropyl ether	45	4.057	4.057	0.000	88	20173	1.00	1.06	
40 2-Chloro-1,3-butadiene	53	4.094	4.093	0.001	30	7116	1.00	0.8012	
38 1,1-Dimethoxyethane	75	4.124	4.118	0.006	71	5883	5.00	5.18	
41 Tert-butyl ethyl ether	59	4.404	4.398	0.006	86	21031	1.00	1.11	
42 Ethyl acetate	43	4.654	4.654	0.000	63	14248	2.00	2.22	
46 Propionitrile	54	4.708	4.696	0.012	62	10223	10.0	10.4	
47 Methacrylonitrile	41	4.824	4.818	0.006	93	44622	10.0	11.0	
152 Isooctane	57	5.415	5.414	0.001	71	16745	1.00	0.9478	
147 t-Amyl alcohol	59	5.439	5.427	0.012	65	7261	10.0	9.89	
56 Tert-amyl methyl ether	73	5.469	5.469	0.000	80	21963	1.00	1.16	
1 1,4-Difluorobenzene	114	5.762	5.761	0.001	53	15338	1.00	0.9511	
60 n-Butanol	56	6.005	5.993	0.012	65	4256	25.0	21.3	
142 Ethyl acrylate	55	6.109	6.109	0.001	53	8581	1.00	1.03	
63 Methyl methacrylate	41	6.334	6.334	0.000	76	12992	2.00	2.20	
70 2-Nitropropane	43	6.748	6.754	-0.006	73	2501	2.00	1.46	
71 Epichlorohydrin	57	6.888	6.882	0.006	47	7194	10.0	11.2	
76 2-Methylthiophene	97	7.375	7.381	-0.006	65	13833	1.00	0.8737	
78 3-Methylthiophene	97	7.539	7.545	-0.006	63	15027	1.00	0.8981	
155 n-Butyl acetate	43	8.032	8.038	-0.006	0	10791	1.00	1.08	
146 1-Chlorohexane	55	8.659	8.647	0.012	20	10296	1.00	0.9354	
85 3-Chlorobenzotrifluoride	180	8.659	8.659	0.000	23	7134	1.00	0.8981	
86 4-Chlorobenzotrifluoride	180	8.720	8.720	0.000	13	6757	1.00	0.8737	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
93 2-Chlorobenzotrifluoride	180	9.640	9.633	0.007	40	7202	1.00	0.8733	
96 Cyclohexanone	55	9.865	9.865	0.000	31	2595	10.0	9.87	
104 3-Chlorotoluene	126	10.297	10.297	0.000	61	5551	1.00	0.8839	
108 Pentachloroethane	167	10.681	10.674	0.007	20	2718	1.00	1.17	
114 Dicyclopentadiene	66	11.034	11.040	-0.006	40	27705	1.00	1.05	
112 1,2,3-Trimethylbenzene	105	11.082	11.076	0.006	25	22504	1.00	0.9702	
150 Benzyl chloride	126	11.180	11.186	-0.006	55	1978	1.00	0.9165	
118 1,3,5-Trichlorobenzene	180	12.257	12.257	0.000	56	8895	1.00	0.8958	
149 2-Methylnaphthalene	142	13.907	13.913	-0.006	42	13112	1.00	0.8827	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

3MTP_WRK_00046	Amount Added: 1.00	Units: uL
2MTP_WRK_00044	Amount Added: 1.00	Units: uL
S_8260_IS_00099	Amount Added: 1.00	Units: uL
ADD CORP mix_00031	Amount Added: 1.00	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8227.D

Injection Date: 08-May-2015 19:29:30

Instrument ID: HP5973S

Operator ID: EB

Lims ID: IC 9

Worklist Smp#: 17

Client ID:

Purge Vol: 5.000 mL

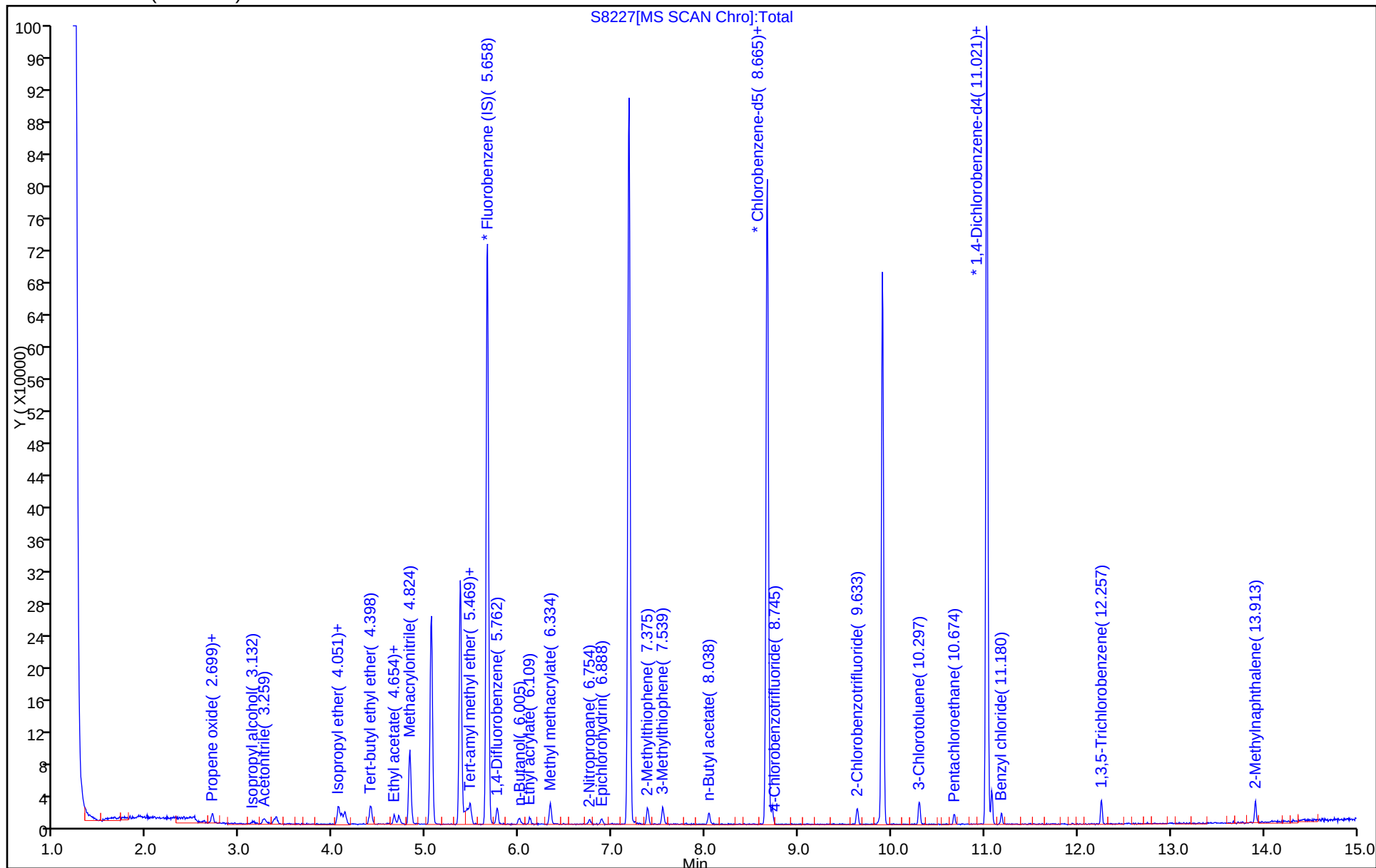
Dil. Factor: 1.0000

ALS Bottle#: 55

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8227.D

Injection Date: 08-May-2015 19:29:30

Instrument ID: HP5973S

Lims ID: IC 9

Client ID:

Operator ID: EB

ALS Bottle#:

55

Worklist Smp#: 17

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

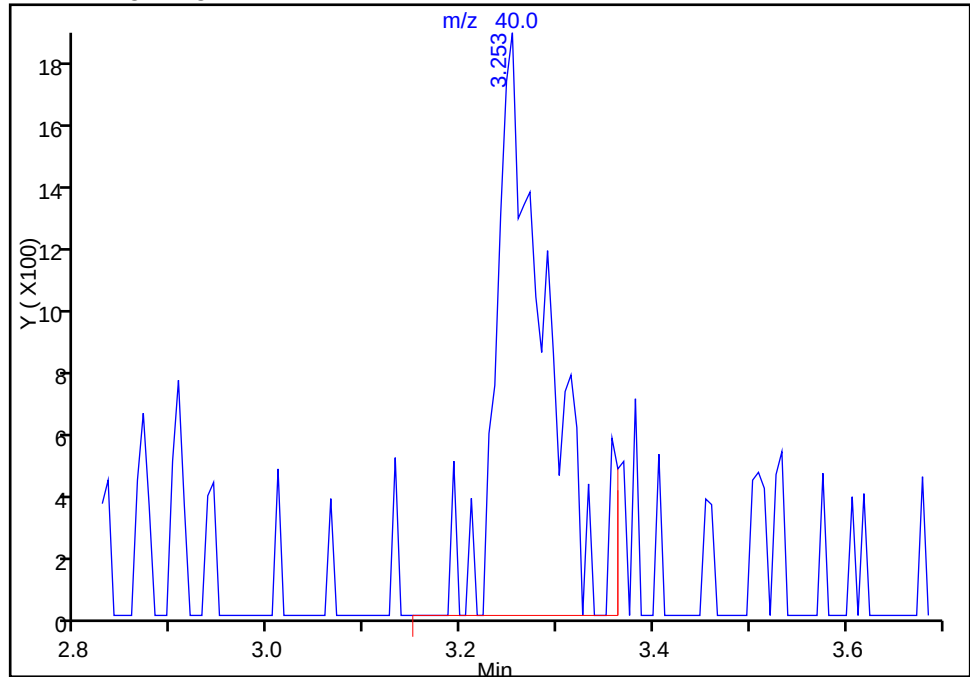
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

29 Acetonitrile, CAS: 75-05-8

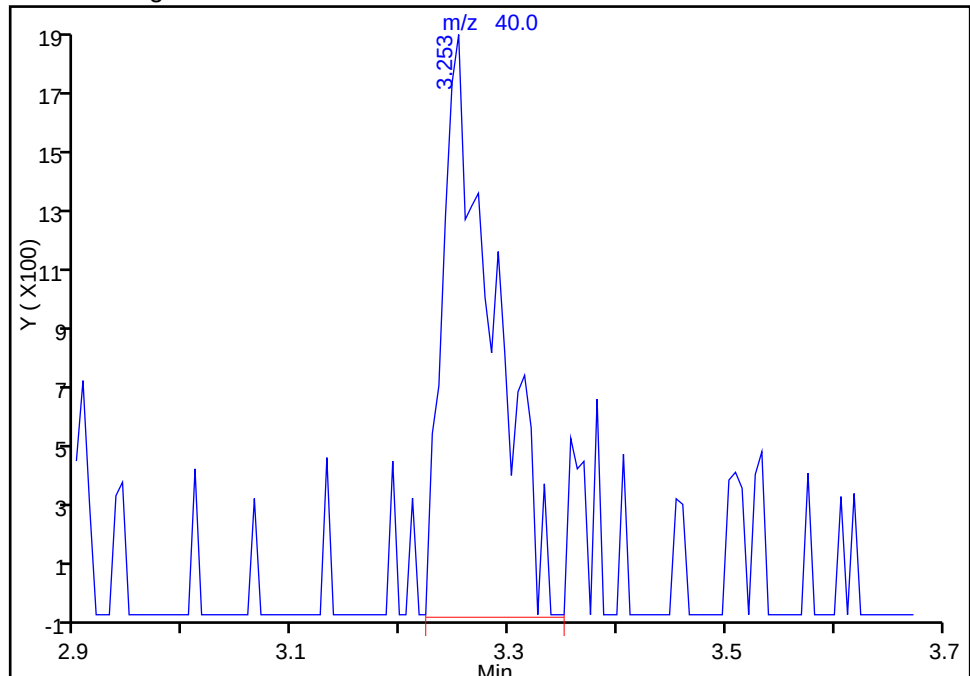
RT: 3.25
Area: 6869
Amount: 8.273220
Amount Units: ug/L

Processing Integration Results



RT: 3.25
Area: 6238
Amount: 12.974609
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 10-May-2015 11:58:20

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8228.D
 Lims ID: IC 10
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 08-May-2015 19:52:30 ALS Bottle#: 56 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 10
 Misc. Info.: 480-0042209-018
 Operator ID: EB Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub33
 Method: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 11-May-2015 09:52:17 Calib Date: 08-May-2015 21:23:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8232.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK036

First Level Reviewer: HillL

Date: 10-May-2015 12:06:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.658	5.658	0.000	98	123199	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.665	8.665	0.000	86	244481	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.027	11.028	-0.001	97	237120	25.0	25.0	
11 Chlorodifluoromethane	51	1.390	1.384	0.006	50	18043	5.00	4.69	
148 Ethanol	45	2.608	2.608	0.000	87	13092	200.0	185.7	
19 Propene oxide	58	2.699	2.699	0.000	67	35232	NC	NC	
24 Isopropyl alcohol	45	3.131	3.132	-0.001	86	22253	50.0	45.7	
29 Acetonitrile	40	3.253	3.247	0.006	99	25088	50.0	52.5	
36 Isopropyl ether	45	4.057	4.057	0.000	93	97439	5.00	5.16	
40 2-Chloro-1,3-butadiene	53	4.093	4.093	0.000	83	48058	5.00	5.44	
38 1,1-Dimethoxyethane	75	4.124	4.118	0.006	91	27809	25.0	24.6	
41 Tert-butyl ethyl ether	59	4.404	4.398	0.006	97	100050	5.00	5.31	
42 Ethyl acetate	43	4.653	4.654	-0.001	97	63946	10.0	10.0	
46 Propionitrile	54	4.702	4.696	0.006	89	50873	50.0	52.2	
47 Methacrylonitrile	41	4.824	4.818	0.006	94	211945	50.0	52.6	
152 Isooctane	57	5.414	5.414	0.000	94	91694	5.00	5.22	
147 t-Amyl alcohol	59	5.433	5.427	0.006	78	34753	50.0	47.6	
56 Tert-amyl methyl ether	73	5.475	5.469	0.006	80	95918	5.00	5.10	
1 1,4-Difluorobenzene	114	5.767	5.761	0.006	91	84969	5.00	5.30	
60 n-Butanol	56	5.999	5.993	0.006	81	21263	125.0	107.2	
142 Ethyl acrylate	55	6.114	6.109	0.006	94	42334	5.00	5.12	
63 Methyl methacrylate	41	6.334	6.334	0.000	88	59391	10.0	10.1	
70 2-Nitropropane	43	6.760	6.754	0.006	87	14844	10.0	9.06	
71 Epichlorohydrin	57	6.882	6.882	0.000	92	31116	50.0	48.7	
76 2-Methylthiophene	97	7.381	7.381	0.000	91	79387	5.00	5.25	
78 3-Methylthiophene	97	7.545	7.545	0.000	97	83091	5.00	5.20	
155 n-Butyl acetate	43	8.038	8.038	0.000	0	50237	5.00	5.06	
146 1-Chlorohexane	55	8.653	8.647	0.006	40	31849	5.00	5.15	
85 3-Chlorobenzotrifluoride	180	8.659	8.659	0.000	47	40955	5.00	5.39	
86 4-Chlorobenzotrifluoride	180	8.720	8.720	0.000	75	37394	5.00	5.06	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
93 2-Chlorobenzotrifluoride	180	9.633	9.633	0.000	83	40751	5.00	5.17	
96 Cyclohexanone	55	9.859	9.865	-0.007	77	12053	50.0	48.0	
104 3-Chlorotoluene	126	10.297	10.297	0.000	96	31840	5.00	5.30	
108 Pentachloroethane	167	10.674	10.674	0.000	66	13114	5.00	4.97	
114 Dicyclopentadiene	66	11.040	11.040	0.000	83	126814	5.00	5.01	
112 1,2,3-Trimethylbenzene	105	11.076	11.076	0.000	40	113959	5.00	5.14	
150 Benzyl chloride	126	11.186	11.186	0.000	81	9713	5.00	4.47	
118 1,3,5-Trichlorobenzene	180	12.257	12.257	0.000	89	47141	5.00	4.97	
149 2-Methylnaphthalene	142	13.913	13.913	0.000	80	64469	5.00	4.54	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

3MTP_WRK_00046	Amount Added: 5.00	Units: uL
2MTP_WRK_00044	Amount Added: 5.00	Units: uL
S_8260_IS_00099	Amount Added: 1.00	Units: uL
ADD CORP mix_00031	Amount Added: 5.00	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8228.D

Injection Date: 08-May-2015 19:52:30

Instrument ID: HP5973S

Operator ID: EB

Lims ID: IC 10

Worklist Smp#: 18

Client ID:

Purge Vol: 5.000 mL

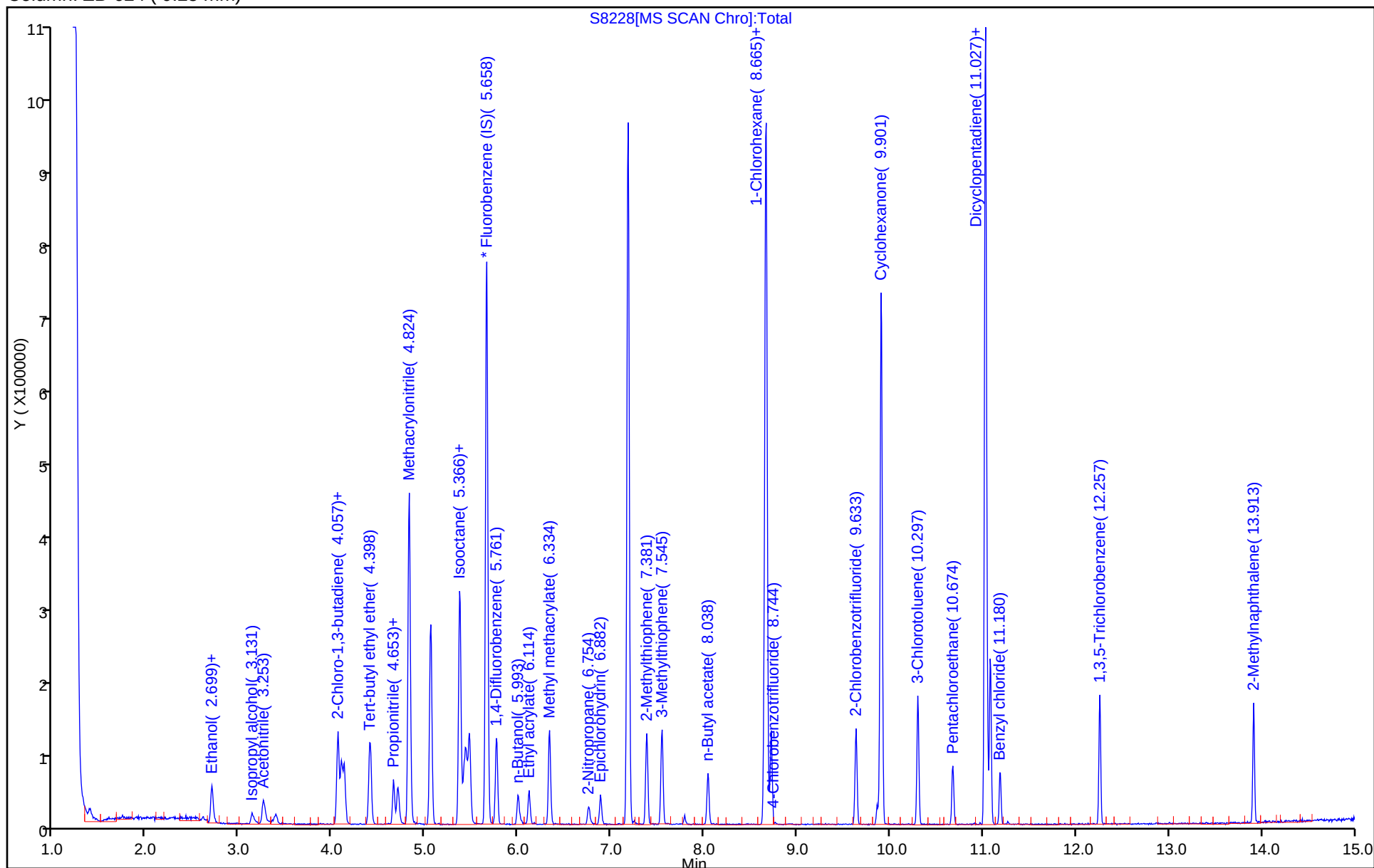
Dil. Factor: 1.0000

ALS Bottle#: 56

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8229.D
 Lims ID: IC 11
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 08-May-2015 20:15:30 ALS Bottle#: 57 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 11
 Misc. Info.: 480-0042209-019
 Operator ID: EB Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub33
 Method: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 11-May-2015 09:52:41 Calib Date: 08-May-2015 21:23:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8232.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK036

First Level Reviewer: HillL

Date: 10-May-2015 12:06:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.658	5.658	0.000	98	128056	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.665	8.665	0.000	87	241912	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.028	11.028	0.000	96	246126	25.0	25.0	
11 Chlorodifluoromethane	51	1.384	1.384	0.000	67	39160	10.0	8.98	
148 Ethanol	45	2.602	2.602	0.000	94	33417	400.0	455.9	
19 Propene oxide	58	2.699	2.699	0.000	85	69558	NC	NC	
24 Isopropyl alcohol	45	3.138	3.138	0.000	95	53993	100.0	106.7	
29 Acetonitrile	40	3.247	3.247	0.000	98	48713	100.0	98.1	
36 Isopropyl ether	45	4.057	4.057	0.000	96	200664	10.0	10.2	
40 2-Chloro-1,3-butadiene	53	4.094	4.094	0.000	86	95012	10.0	10.4	
38 1,1-Dimethoxyethane	75	4.124	4.124	0.000	63	60550	50.0	51.6	
41 Tert-butyl ethyl ether	59	4.398	4.398	0.000	99	198612	10.0	10.1	
42 Ethyl acetate	43	4.654	4.654	0.000	98	132527	20.0	20.0	
46 Propionitrile	54	4.702	4.702	0.000	98	109497	100.0	108.1	
47 Methacrylonitrile	41	4.824	4.824	0.000	93	424357	100.0	101.4	
152 Isooctane	57	5.427	5.427	0.000	1	184202	10.0	10.1	M
147 t-Amyl alcohol	59	5.433	5.433	0.000	78	79676	100.0	105.0	
56 Tert-amyl methyl ether	73	5.469	5.469	0.000	90	197176	10.0	10.1	
1 1,4-Difluorobenzene	114	5.762	5.762	0.000	94	168458	10.0	10.1	
60 n-Butanol	56	5.993	5.993	0.000	89	53578	250.0	260.0	
142 Ethyl acrylate	55	6.115	6.115	0.000	79	89234	10.0	10.4	
63 Methyl methacrylate	41	6.334	6.334	0.000	91	125196	20.0	20.5	
70 2-Nitropropane	43	6.760	6.760	0.000	87	33455	20.0	19.7	
71 Epichlorohydrin	57	6.882	6.882	0.000	96	67648	100.0	101.8	
76 2-Methylthiophene	97	7.381	7.381	0.000	98	160226	10.0	10.2	
78 3-Methylthiophene	97	7.539	7.539	0.000	96	168809	10.0	10.2	
155 n-Butyl acetate	43	8.038	8.038	0.000	0	105302	10.0	10.2	
146 1-Chlorohexane	55	8.647	8.647	0.000	72	61282	10.0	11.1	
85 3-Chlorobenzotrifluoride	180	8.659	8.659	0.000	61	81042	10.0	10.3	
86 4-Chlorobenzotrifluoride	180	8.720	8.720	0.000	82	79483	10.0	10.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
93 2-Chlorobenzotrifluoride	180	9.633	9.633	0.000	88	84694	10.0	10.4	
96 Cyclohexanone	55	9.865	9.865	0.000	85	27268	100.0	104.6	
104 3-Chlorotoluene	126	10.297	10.297	0.000	97	63317	10.0	10.2	
108 Pentachloroethane	167	10.674	10.674	0.000	74	26326	10.0	9.40	
114 Dicyclopentadiene	66	11.040	11.040	0.000	95	256263	10.0	9.76	
112 1,2,3-Trimethylbenzene	105	11.076	11.076	0.000	64	239109	10.0	10.4	
150 Benzyl chloride	126	11.186	11.186	0.000	94	20625	10.0	9.60	
118 1,3,5-Trichlorobenzene	180	12.257	12.257	0.000	93	102055	10.0	10.4	
149 2-Methylnaphthalene	142	13.913	13.913	0.000	88	148658	10.0	10.1	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

3MTP_WRK_00046	Amount Added: 5.00	Units: uL
2MTP_WRK_00044	Amount Added: 5.00	Units: uL
S_8260_IS_00099	Amount Added: 1.00	Units: uL
ADD CORP mix_00031	Amount Added: 5.00	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8229.D

Injection Date: 08-May-2015 20:15:30

Instrument ID: HP5973S

Operator ID: EB

Lims ID: IC 11

Worklist Smp#: 19

Client ID:

Purge Vol: 5.000 mL

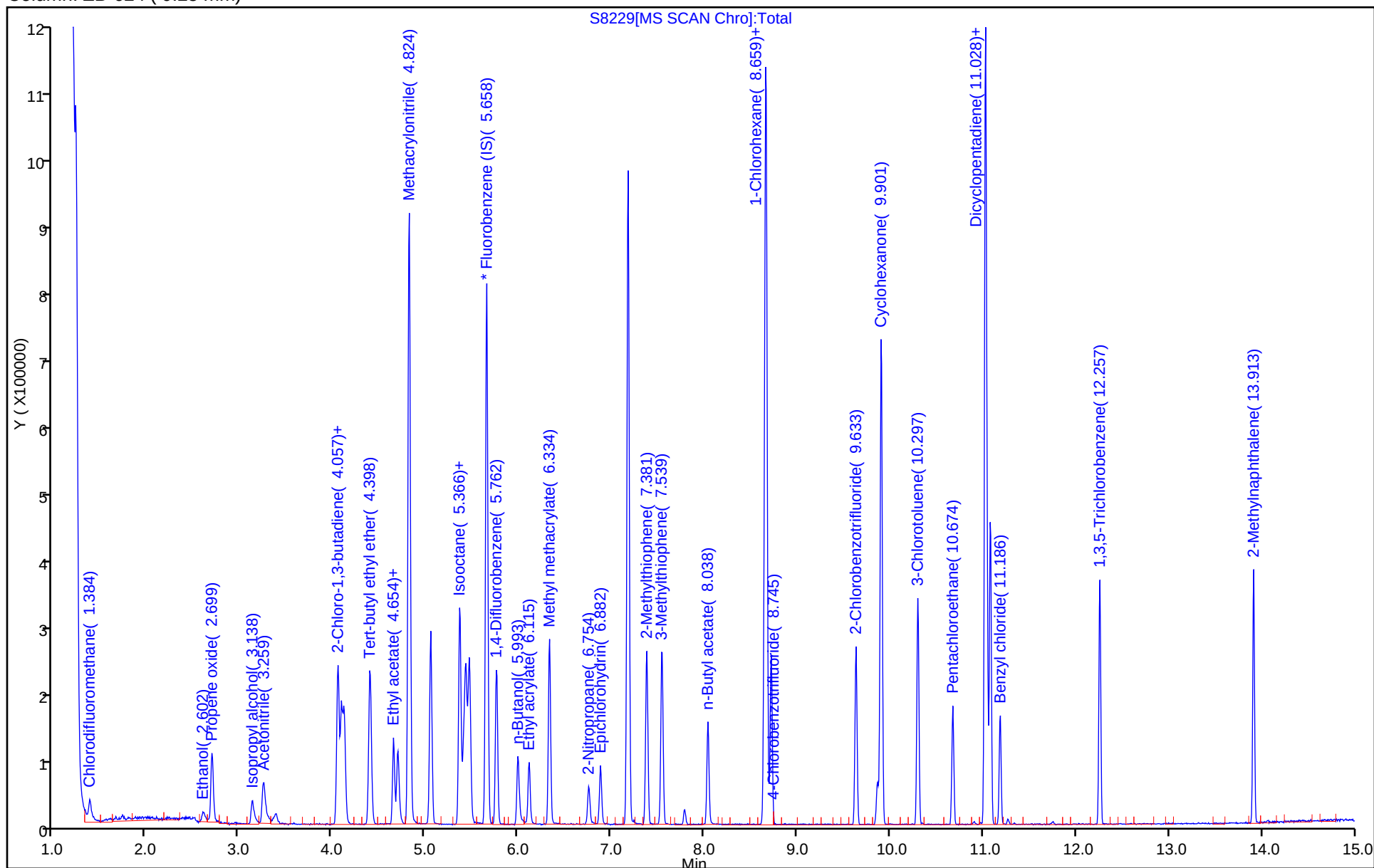
Dil. Factor: 1.0000

ALS Bottle#: 57

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8229.D

Injection Date: 08-May-2015 20:15:30

Instrument ID: HP5973S

Lims ID: IC 11

Client ID:

Operator ID: EB

ALS Bottle#:

57

Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

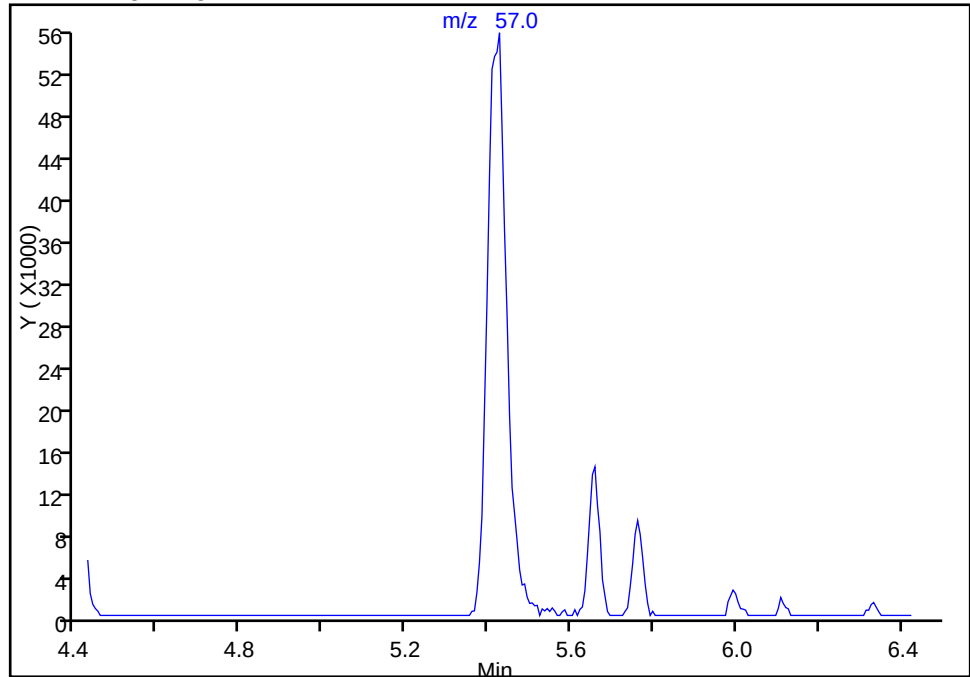
Detector: MS SCAN

152 Isooctane, CAS: 540-84-1

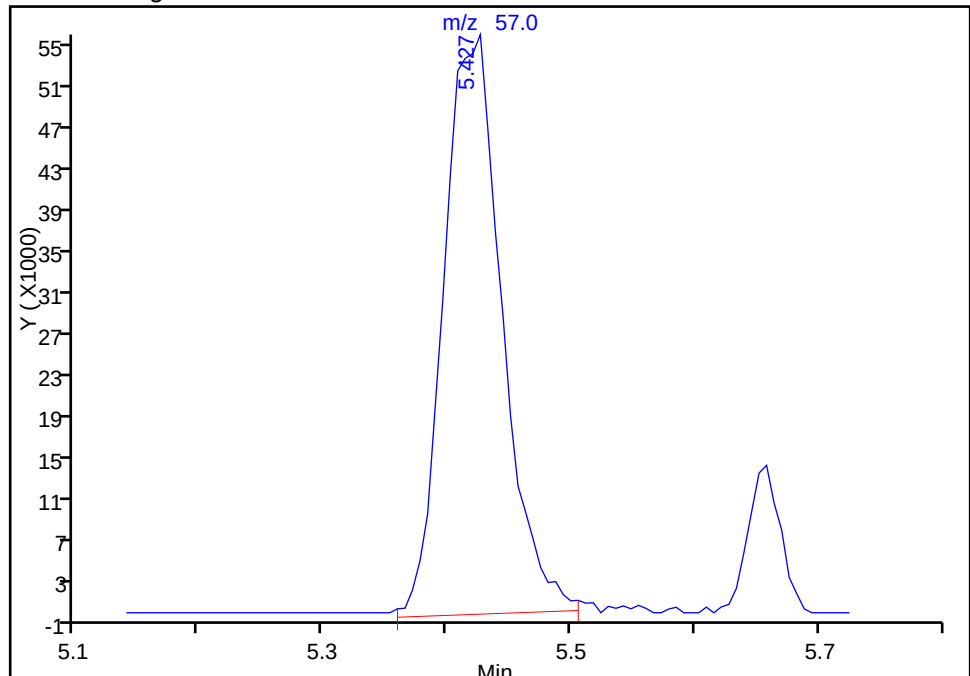
Not Detected

Expected RT: 5.43

Processing Integration Results



Manual Integration Results



Reviewer: HillL, 10-May-2015 11:14:03

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8230.D
 Lims ID: IC 12
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 08-May-2015 20:38:30 ALS Bottle#: 58 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 12
 Misc. Info.: 480-0042209-020
 Operator ID: EB Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub33
 Method: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 12-May-2015 17:16:14 Calib Date: 08-May-2015 21:23:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8232.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: HillL

Date: 10-May-2015 12:07:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.652	5.652	0.000	98	125401	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.665	8.665	0.000	86	247852	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.027	11.027	0.000	97	240248	25.0	25.0	
11 Chlorodifluoromethane	51	1.384	1.384	0.000	78	109169	25.0	24.2	
148 Ethanol	45	2.608	2.608	0.000	96	74758	1000.0	1041.6	
19 Propene oxide	58	2.699	2.699	0.000	94	170933	NC	NC	
24 Isopropyl alcohol	45	3.132	3.132	0.000	97	126971	250.0	256.1	
29 Acetonitrile	40	3.247	3.247	0.000	99	112142	250.0	230.5	
36 Isopropyl ether	45	4.057	4.057	0.000	94	482362	25.0	25.1	
40 2-Chloro-1,3-butadiene	53	4.093	4.093	0.000	87	237818	25.0	26.5	
38 1,1-Dimethoxyethane	75	4.118	4.118	0.000	62	145071	125.0	126.3	
41 Tert-butyl ethyl ether	59	4.398	4.398	0.000	98	476989	25.0	24.9	
42 Ethyl acetate	43	4.654	4.654	0.000	99	321538	50.0	49.5	
46 Propionitrile	54	4.696	4.696	0.000	97	246268	250.0	248.3	
47 Methacrylonitrile	41	4.818	4.818	0.000	95	1009048	250.0	246.2	
152 Isooctane	57	5.414	5.414	0.000	97	457626	25.0	25.6	
147 t-Amyl alcohol	59	5.427	5.427	0.000	67	191792	250.0	258.1	
56 Tert-amyl methyl ether	73	5.469	5.469	0.000	89	480878	25.0	25.1	
1 1,4-Difluorobenzene	114	5.761	5.761	0.000	95	417343	25.0	25.6	
60 n-Butanol	56	5.993	5.993	0.000	91	135360	625.0	670.7	
142 Ethyl acrylate	55	6.109	6.109	0.000	98	215228	25.0	25.6	
63 Methyl methacrylate	41	6.334	6.334	0.000	90	295133	50.0	49.4	
70 2-Nitropropane	43	6.754	6.754	0.000	98	88439	50.0	53.2	
71 Epichlorohydrin	57	6.882	6.882	0.000	97	160802	250.0	247.1	
76 2-Methylthiophene	97	7.381	7.381	0.000	98	388675	25.0	25.3	
78 3-Methylthiophene	97	7.545	7.545	0.000	100	402254	25.0	24.8	
155 n-Butyl acetate	43	8.038	8.038	0.000	0	262505	25.0	26.0	
146 1-Chlorohexane	55	8.647	8.647	0.000	92	135961	25.0	25.2	
85 3-Chlorobenzotrifluoride	180	8.659	8.659	0.000	79	197756	25.0	25.7	
86 4-Chlorobenzotrifluoride	180	8.720	8.720	0.000	91	184815	25.0	24.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
93 2-Chlorobenzotrifluoride	180	9.633	9.633	0.000	94	207796	25.0	26.0	
96 Cyclohexanone	55	9.865	9.865	0.000	91	66718	250.0	262.1	
104 3-Chlorotoluene	126	10.297	10.297	0.000	97	157665	25.0	25.9	
108 Pentachloroethane	167	10.674	10.674	0.000	77	66126	25.0	23.8	
114 Dicyclopentadiene	66	11.040	11.040	0.000	97	640740	25.0	25.0	
112 1,2,3-Trimethylbenzene	105	11.076	11.076	0.000	73	571731	25.0	25.4	
150 Benzyl chloride	126	11.186	11.186	0.000	98	58032	25.0	26.4	
118 1,3,5-Trichlorobenzene	180	12.257	12.257	0.000	96	242829	25.0	25.3	
149 2-Methylnaphthalene	142	13.913	13.913	0.000	92	387137	25.0	26.9	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

3MTP_WRK_00046	Amount Added: 12.50	Units: uL
2MTP_WRK_00044	Amount Added: 12.50	Units: uL
S_8260_IS_00099	Amount Added: 1.00	Units: uL
ADD CORP mix_00031	Amount Added: 12.50	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8230.D

Injection Date: 08-May-2015 20:38:30

Instrument ID: HP5973S

Operator ID: EB

Lims ID: IC 12

Worklist Smp#: 20

Client ID:

Purge Vol: 5.000 mL

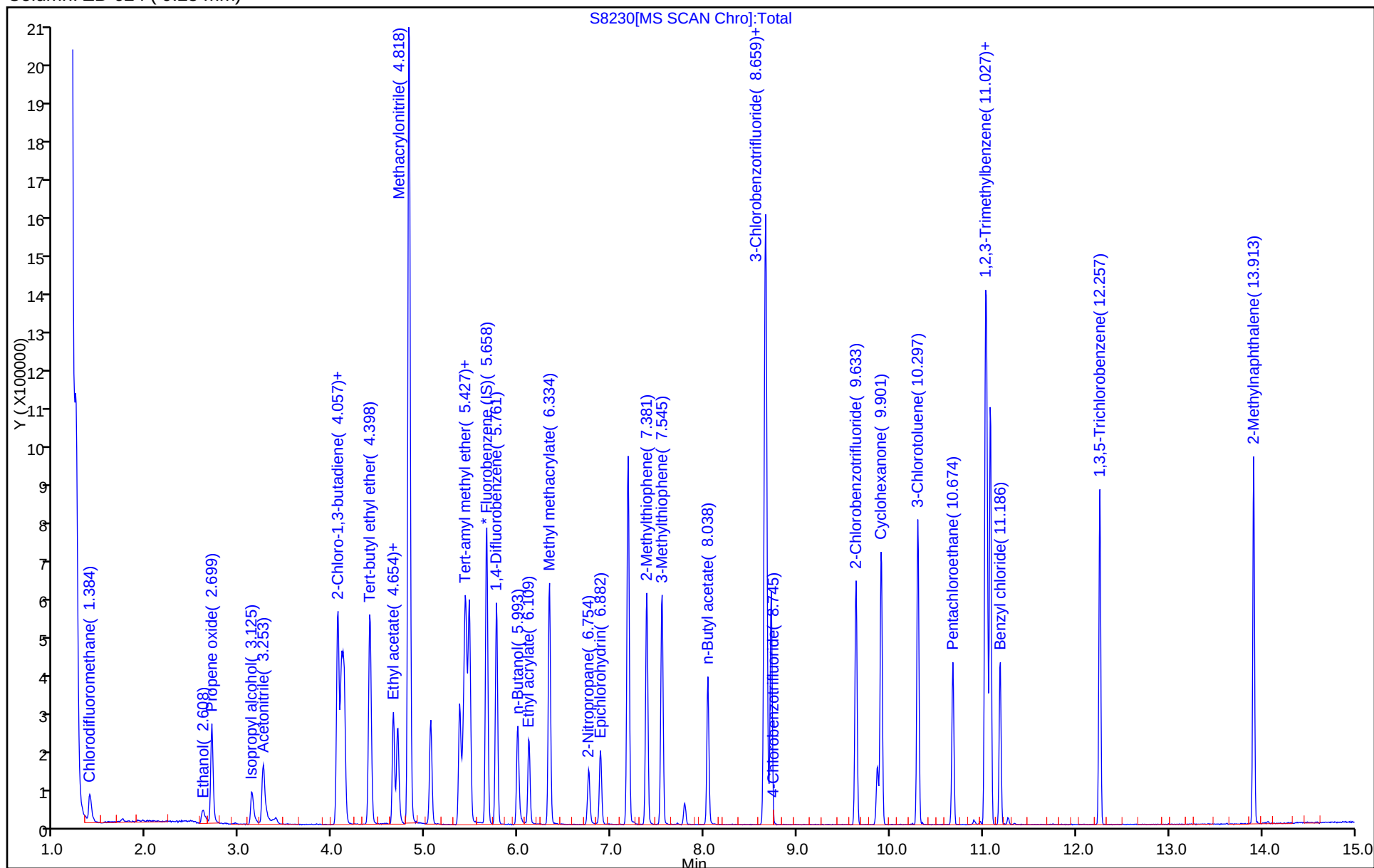
Dil. Factor: 1.0000

ALS Bottle#: 58

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8231.D
 Lims ID: IC 13
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 08-May-2015 21:01:30 ALS Bottle#: 59 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 13
 Misc. Info.: 480-0042209-021
 Operator ID: EB Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub33
 Method: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 11-May-2015 09:53:17 Calib Date: 08-May-2015 21:23:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8232.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK036

First Level Reviewer: HillL

Date: 10-May-2015 12:07:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.652	5.652	0.000	98	129472	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.665	8.665	0.000	85	247037	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.027	11.027	0.000	80	238031	25.0	25.0	
11 Chlorodifluoromethane	51	1.384	1.384	0.000	80	241370	50.0	50.9	
148 Ethanol	45	2.596	2.608	-0.012	95	163969	2000.0	2212.7	
19 Propene oxide	58	2.699	2.699	0.000	95	354530	NC	NC	
24 Isopropyl alcohol	45	3.125	3.132	-0.007	98	268176	500.0	524.0	
29 Acetonitrile	40	3.247	3.247	0.000	100	232972	500.0	463.9	
36 Isopropyl ether	45	4.051	4.057	-0.006	94	974272	50.0	49.1	
40 2-Chloro-1,3-butadiene	53	4.093	4.093	0.000	86	496091	50.0	53.5	
38 1,1-Dimethoxyethane	75	4.124	4.118	0.006	63	299681	250.0	252.7	
41 Tert-butyl ethyl ether	59	4.398	4.398	0.000	99	980009	50.0	49.5	
42 Ethyl acetate	43	4.653	4.654	-0.001	100	646560	100.0	96.5	
46 Propionitrile	54	4.696	4.696	0.000	97	522408	500.0	510.2	
47 Methacrylonitrile	41	4.818	4.818	0.000	95	2004595	500.0	473.8	
152 Isooctane	57	5.420	5.414	0.006	91	967494	50.0	52.4	
147 t-Amyl alcohol	59	5.427	5.427	0.000	72	403149	500.0	525.6	
56 Tert-amyl methyl ether	73	5.469	5.469	0.000	66	845341	50.0	42.8	
1 1,4-Difluorobenzene	114	5.761	5.761	0.000	95	856618	50.0	50.8	
60 n-Butanol	56	5.987	5.993	-0.006	89	297959	1250.0	1430.0	
142 Ethyl acrylate	55	6.108	6.109	0.000	98	443313	50.0	51.1	
63 Methyl methacrylate	41	6.328	6.334	-0.006	92	596286	100.0	96.6	
70 2-Nitropropane	43	6.754	6.754	0.000	99	198060	100.0	120.4	
71 Epichlorohydrin	57	6.882	6.882	0.000	98	336298	500.0	500.6	
76 2-Methylthiophene	97	7.381	7.381	0.000	98	806715	50.0	53.1	
78 3-Methylthiophene	97	7.545	7.545	0.000	99	830960	50.0	51.8	
155 n-Butyl acetate	43	8.038	8.038	0.000	0	514068	50.0	49.3	
146 1-Chlorohexane	55	8.647	8.647	0.000	93	278172	50.0	52.9	
85 3-Chlorobenzotrifluoride	180	8.659	8.659	0.000	90	402559	50.0	52.8	
86 4-Chlorobenzotrifluoride	180	8.720	8.720	0.000	93	380709	50.0	51.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
93 2-Chlorobenzotrifluoride	180	9.633	9.633	0.000	95	421941	50.0	53.3	
96 Cyclohexanone	55	9.858	9.865	-0.007	94	139143	500.0	551.8	
104 3-Chlorotoluene	126	10.297	10.297	0.000	97	313277	50.0	52.0	
108 Pentachloroethane	167	10.674	10.674	0.000	84	143014	50.0	51.8	
114 Dicyclopentadiene	66	11.040	11.040	0.000	97	1303299	50.0	51.3	
112 1,2,3-Trimethylbenzene	105	11.076	11.076	0.000	54	1131287	50.0	50.8	
150 Benzyl chloride	126	11.186	11.186	0.000	99	120726	50.0	55.0	
118 1,3,5-Trichlorobenzene	180	12.257	12.257	0.000	96	480370	50.0	50.4	
149 2-Methylnaphthalene	142	13.913	13.913	0.000	93	815713	50.0	57.2	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

3MTP_WRK_00046	Amount Added: 25.00	Units: uL
2MTP_WRK_00044	Amount Added: 25.00	Units: uL
S_8260_IS_00099	Amount Added: 1.00	Units: uL
ADD CORP mix_00031	Amount Added: 25.00	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8231.D

Injection Date: 08-May-2015 21:01:30

Instrument ID: HP5973S

Operator ID: EB

Lims ID: IC 13

Worklist Smp#: 21

Client ID:

Purge Vol: 5.000 mL

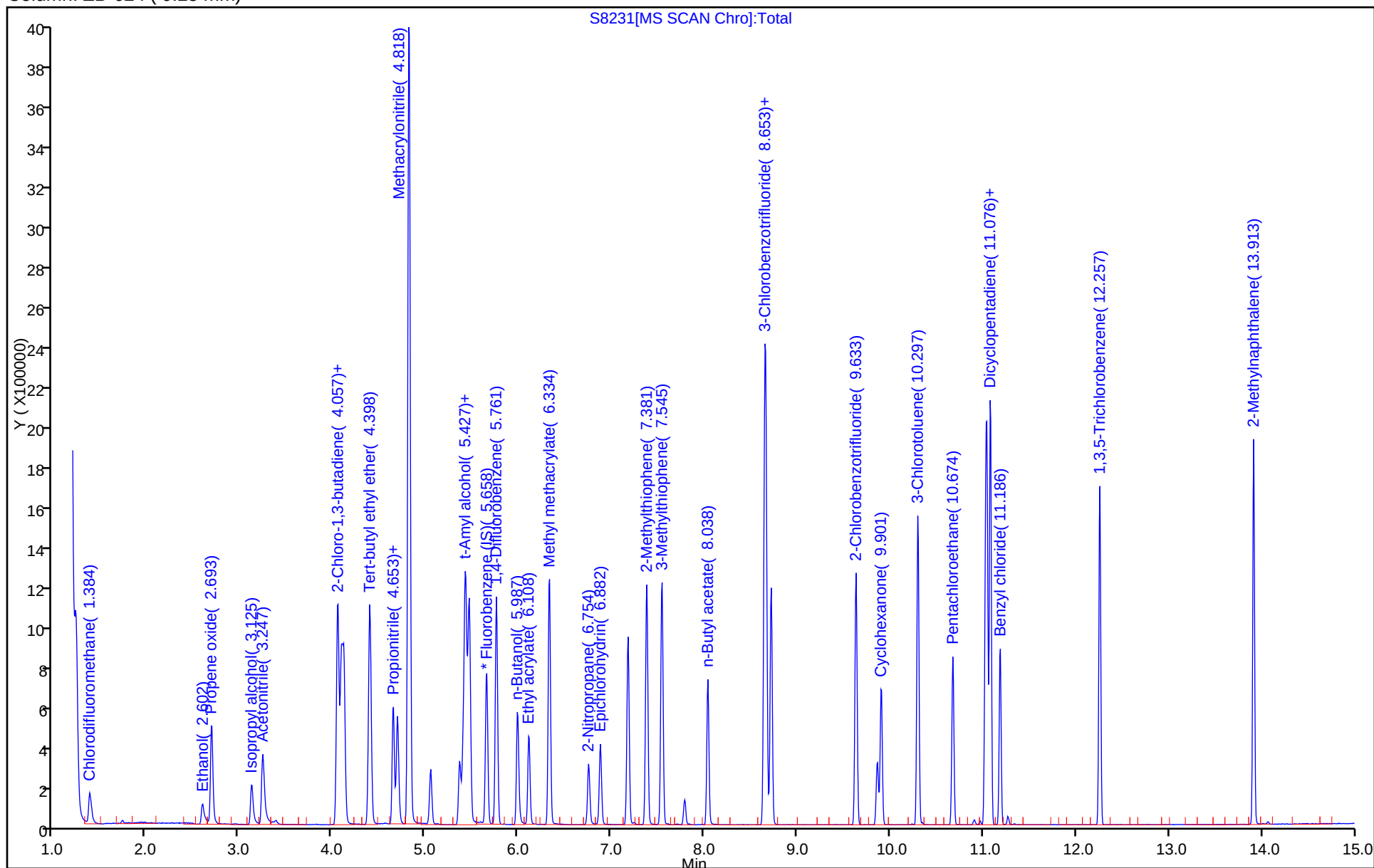
Dil. Factor: 1.0000

ALS Bottle#: 59

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8232.D
 Lims ID: IC 14
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 08-May-2015 21:23:30 ALS Bottle#: 60 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 14
 Misc. Info.: 480-0042209-022
 Operator ID: EB Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub33
 Method: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 11-May-2015 09:53:34 Calib Date: 08-May-2015 21:23:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8232.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK036

First Level Reviewer: HillL

Date: 10-May-2015 12:07:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.658	5.652	0.006	98	127827	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.665	8.665	0.000	66	236840	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.028	11.027	0.001	61	233632	25.0	25.0	
11 Chlorodifluoromethane	51	1.384	1.384	0.000	80	476152	100.0	101.0	
148 Ethanol	45	2.602	2.608	-0.006	99	279829	4000.0	3824.7	
19 Propene oxide	58	2.693	2.699	-0.006	95	663167	NC	NC	
24 Isopropyl alcohol	45	3.126	3.132	-0.006	98	469226	1000.0	928.6	
29 Acetonitrile	40	3.247	3.247	0.000	99	407605	1000.0	822.0	
36 Isopropyl ether	45	4.051	4.057	-0.006	94	1790219	100.0	91.3	
40 2-Chloro-1,3-butadiene	53	4.093	4.093	0.000	91	896148	100.0	97.8	
38 1,1-Dimethoxyethane	75	4.118	4.118	0.000	64	553607	500.0	472.8	
41 Tert-butyl ethyl ether	59	4.398	4.398	0.000	99	1795473	100.0	91.9	
42 Ethyl acetate	43	4.647	4.654	-0.007	100	1167233	200.0	176.4	
46 Propionitrile	54	4.696	4.696	0.000	97	941826	1000.0	931.7	
47 Methacrylonitrile	41	4.824	4.818	0.006	94	3423294	1000.0	819.5	
152 Isooctane	57	5.421	5.414	0.007	93	1676654	100.0	92.0	
147 t-Amyl alcohol	59	5.433	5.427	0.006	78	690123	1000.0	911.2	
56 Tert-amyl methyl ether	73	5.469	5.469	0.000	92	1772410	100.0	90.8	
1 1,4-Difluorobenzene	114	5.762	5.761	0.001	95	1569087	100.0	94.3	
60 n-Butanol	56	5.987	5.993	-0.006	89	530495	2500.0	2578.8	
142 Ethyl acrylate	55	6.109	6.109	0.001	99	794498	100.0	92.7	
63 Methyl methacrylate	41	6.328	6.334	-0.006	91	1043675	200.0	171.3	
70 2-Nitropropane	43	6.754	6.754	0.000	97	384337	200.0	238.0	
71 Epichlorohydrin	57	6.882	6.882	0.000	98	611177	1000.0	921.5	
76 2-Methylthiophene	97	7.381	7.381	0.000	98	1466564	100.0	98.3	
78 3-Methylthiophene	97	7.545	7.545	0.000	99	1513123	100.0	96.0	
155 n-Butyl acetate	43	8.038	8.038	0.000	0	884310	100.0	85.9	
146 1-Chlorohexane	55	8.647	8.647	0.000	92	478387	100.0	95.8	
85 3-Chlorobenzotrifluoride	180	8.659	8.659	0.000	92	730962	100.0	97.7	
86 4-Chlorobenzotrifluoride	180	8.720	8.720	0.000	95	687162	100.0	94.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
93 2-Chlorobenzotrifluoride	180	9.633	9.633	0.000	95	765817	100.0	98.6	
96 Cyclohexanone	55	9.859	9.865	-0.006	94	234778	1000.0	948.5	
104 3-Chlorotoluene	126	10.297	10.297	0.000	97	571448	100.0	96.6	
108 Pentachloroethane	167	10.674	10.674	0.000	84	271588	100.0	99.9	
114 Dicyclopentadiene	66	11.040	11.040	0.000	97	2358142	100.0	94.6	
112 1,2,3-Trimethylbenzene	105	11.082	11.076	0.006	96	2018301	100.0	92.4	
150 Benzyl chloride	126	11.186	11.186	0.000	98	226002	100.0	107.4	
118 1,3,5-Trichlorobenzene	180	12.257	12.257	0.000	97	850573	100.0	91.0	
149 2-Methylnaphthalene	142	13.913	13.913	0.000	93	1541499	100.0	110.2	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

3MTP_WRK_00046	Amount Added: 50.00	Units: uL
2MTP_WRK_00044	Amount Added: 50.00	Units: uL
S_8260_IS_00099	Amount Added: 1.00	Units: uL
ADD CORP mix_00031	Amount Added: 50.00	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8232.D

Injection Date: 08-May-2015 21:23:30

Instrument ID: HP5973S

Operator ID: EB

Lims ID: IC 14

Worklist Smp#: 22

Client ID:

Purge Vol: 5.000 mL

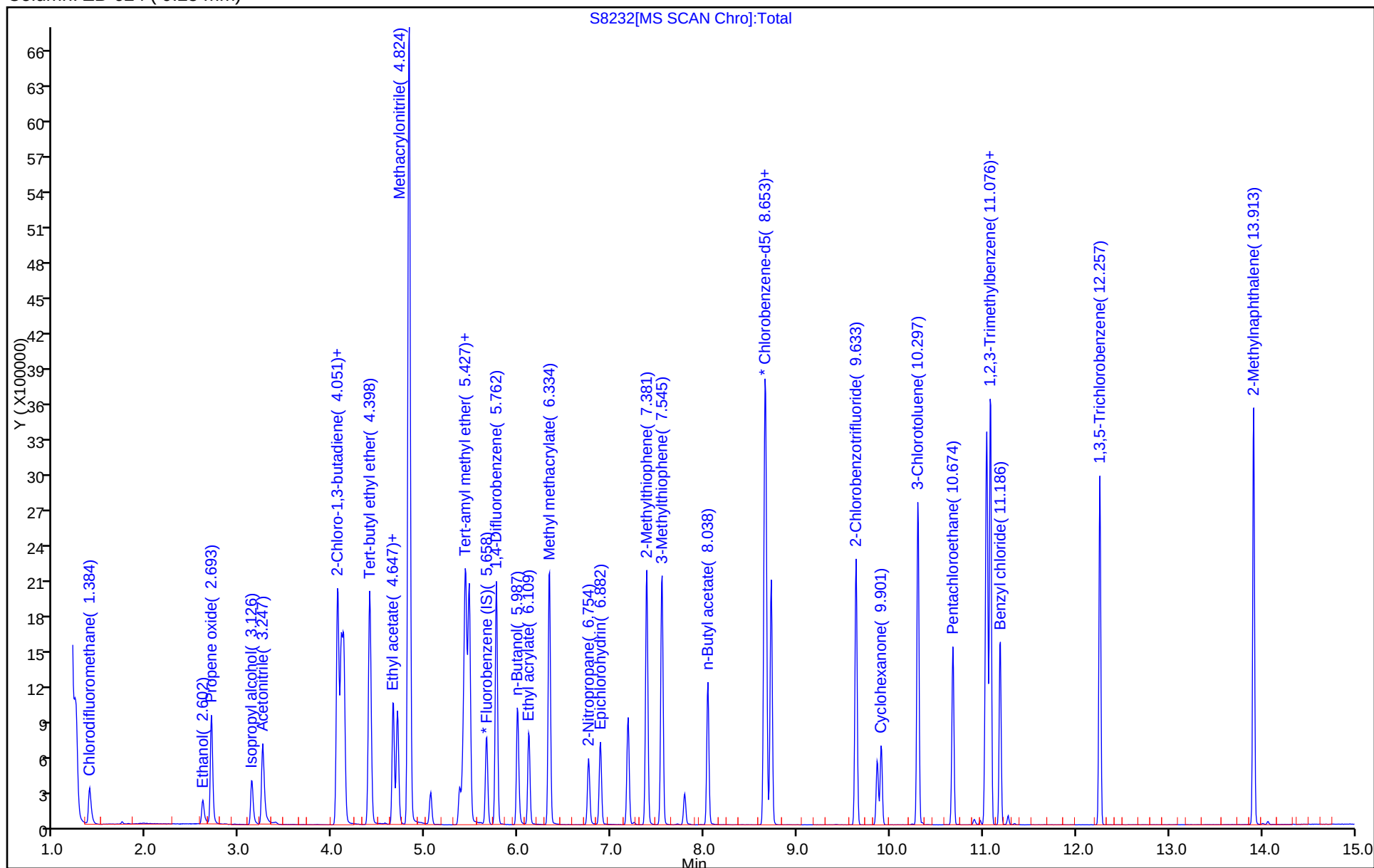
Dil. Factor: 1.0000

ALS Bottle#: 60

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-83014-1

SDG No.: _____

Lab Sample ID: CCVIS 480-251083/3 Calibration Date: 06/30/2015 21:10

Instrument ID: HP5973S Calib Start Date: 05/08/2015 14:56

GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 05/08/2015 17:36

Lab File ID: S0108.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.191	1.087	0.1000	22.8	25.0	-8.7	50.0
Chloromethane	Ave	1.241	1.211	0.1000	24.4	25.0	-2.5	20.0
Vinyl chloride	Ave	1.049	0.8568	0.1000	20.4	25.0	-18.4	20.0
Butadiene	Ave	1.178	1.088		23.1	25.0	-7.7	20.0
Bromomethane	Ave	0.2904	0.3425	0.1000	29.5	25.0	17.9	50.0
Chloroethane	Ave	0.5290	0.5739	0.1000	27.1	25.0	8.5	50.0
Dichlorofluoromethane	Lin1		1.139		29.2	25.0	16.8	20.0
Trichlorofluoromethane	Lin1		1.641	0.1000	32.3	25.0	29.3*	20.0
Ethyl ether	Ave	1.039	1.247		30.0	25.0	20.1*	20.0
Acrolein	Ave	0.1191	0.1397		147	125	17.3	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.9501	1.146	0.1000	30.2	25.0	20.6*	20.0
1,1-Dichloroethene	Ave	0.9359	0.999	0.1000	26.7	25.0	6.8	20.0
Acetone	Ave	0.4546	0.5648	0.1000	155	125	24.3	50.0
Iodomethane	Ave	1.342	1.707		31.8	25.0	27.2*	20.0
Carbon disulfide	Ave	2.663	2.747	0.1000	25.8	25.0	3.1	20.0
Allyl chloride	Ave	1.865	1.847		24.8	25.0	-1.0	20.0
Methyl acetate	Ave	1.082	1.242	0.1000	143	125	14.7	50.0
Methylene Chloride	Lin1		1.050	0.1000	26.1	25.0	4.5	20.0
2-Methyl-2-propanol	Ave	0.1632	0.1749		268	250	7.1	50.0
Methyl tert-butyl ether	Ave	3.280	3.043	0.1000	23.2	25.0	-7.2	20.0
trans-1,2-Dichloroethene	Ave	0.9877	1.083	0.1000	27.4	25.0	9.6	20.0
Acrylonitrile	Ave	0.4965	0.5900		297	250	18.8	20.0
Hexane	Ave	1.791	1.967		27.5	25.0	9.9	20.0
1,1-Dichloroethane	Ave	2.002	2.026	0.2000	25.3	25.0	1.2	20.0
Vinyl acetate	Ave	2.534	2.345		46.3	50.0	-7.5	20.0
2,2-Dichloropropane	Ave	1.050	0.9299		22.1	25.0	-11.5	20.0
cis-1,2-Dichloroethene	Ave	1.107	1.102	0.1000	24.9	25.0	-0.4	20.0
2-Butanone (MEK)	Ave	0.6648	0.7651	0.1000	144	125	15.1	20.0
Chlorobromomethane	Ave	0.5302	0.6269		29.6	25.0	18.2	20.0
Tetrahydrofuran	Ave	0.4326	0.4482		51.8	50.0	3.6	20.0
Chloroform	Ave	1.895	1.874	0.2000	24.7	25.0	-1.1	20.0
1,1,1-Trichloroethane	Ave	1.347	1.423	0.1000	26.4	25.0	5.7	20.0
Cyclohexane	Ave	1.989	2.076	0.1000	26.1	25.0	4.4	20.0
Carbon tetrachloride	Ave	1.401	1.369	0.1000	24.4	25.0	-2.3	20.0
1,1-Dichloropropene	Ave	1.448	1.481		25.6	25.0	2.3	20.0
Isobutyl alcohol	Ave	0.0674	0.0712		660	625	5.6	50.0
Benzene	Ave	4.210	4.227	0.5000	25.1	25.0	0.4	20.0
1,2-Dichloroethane	Ave	1.810	1.741	0.1000	24.0	25.0	-3.8	20.0
n-Heptane	Ave	1.800	1.875		26.0	25.0	4.1	20.0
Trichloroethene	Ave	1.090	1.070	0.2000	24.5	25.0	-1.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-83014-1

SDG No.: _____

Lab Sample ID: CCVIS 480-251083/3 Calibration Date: 06/30/2015 21:10

Instrument ID: HP5973S Calib Start Date: 05/08/2015 14:56

GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 05/08/2015 17:36

Lab File ID: S0108.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	1.799	1.825	0.1000	25.4	25.0	1.4	20.0
1,2-Dichloropropane	Ave	1.081	1.048	0.1000	24.2	25.0	-3.0	20.0
Dibromomethane	Ave	0.6334	0.6300	0.1000	24.9	25.0	-0.5	20.0
1,4-Dioxane	Ave	0.0053	0.0073		684	500	36.7	50.0
Bromodichloromethane	Ave	1.311	1.225	0.2000	23.4	25.0	-6.5	20.0
2-Chloroethyl vinyl ether	Ave	0.7310	0.5917		20.2	25.0	-19.0	20.0
cis-1,3-Dichloropropene	Ave	1.629	1.519	0.2000	23.3	25.0	-6.7	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.7118	0.7652	0.1000	134	125	7.5	20.0
Toluene	Ave	1.387	1.392	0.4000	25.1	25.0	0.3	20.0
trans-1,3-Dichloropropene	Ave	0.7751	0.7553	0.1000	24.4	25.0	-2.5	20.0
Ethyl methacrylate	Ave	0.7512	0.6603		22.0	25.0	-12.1	20.0
1,1,2-Trichloroethane	Ave	0.3741	0.3960	0.1000	26.5	25.0	5.9	20.0
Tetrachloroethene	Ave	0.6255	0.7660	0.2000	30.6	25.0	22.5*	20.0
1,3-Dichloropropane	Ave	0.8673	0.8730		25.2	25.0	0.7	20.0
2-Hexanone	Ave	0.5140	0.5865	0.1000	143	125	14.1	20.0
Dibromochloromethane	Ave	0.4788	0.4773	0.1000	24.9	25.0	-0.3	20.0
1,2-Dibromoethane	Ave	0.5019	0.5408		26.9	25.0	7.7	20.0
Chlorobenzene	Ave	1.625	1.679	0.5000	25.8	25.0	3.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.5233	0.5912		28.2	25.0	13.0	20.0
Ethylbenzene	Ave	2.550	2.559	0.1000	25.1	25.0	0.3	20.0
m,p-Xylene	Ave	1.005	1.065	0.1000	26.5	25.0	6.0	20.0
o-Xylene	Ave	1.018	1.061	0.3000	26.0	25.0	4.2	20.0
Styrene	Ave	1.697	1.684	0.3000	24.8	25.0	-0.7	20.0
Bromoform	Ave	0.2705	0.2807	0.1000	25.9	25.0	3.8	50.0
Isopropylbenzene	Ave	2.669	2.230	0.1000	20.9	25.0	-16.5	20.0
Bromobenzene	Ave	0.6630	0.5929		22.4	25.0	-10.6	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6185	0.5297	0.3000	21.4	25.0	-14.4	20.0
1,2,3-Trichloropropane	Ave	0.2037	0.2097		25.7	25.0	3.0	20.0
N-Propylbenzene	Ave	3.035	2.597		21.4	25.0	-14.4	20.0
2-Chlorotoluene	Ave	0.6441	0.5518		21.4	25.0	-14.3	20.0
1,3,5-Trimethylbenzene	Ave	2.327	2.007		21.6	25.0	-13.8	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2296	0.0656		7.14	25.0	-71.4*	50.0
4-Chlorotoluene	Ave	0.6868	0.5973		21.7	25.0	-13.0	20.0
tert-Butylbenzene	Ave	0.5559	0.4979		22.4	25.0	-10.4	20.0
1,2,4-Trimethylbenzene	Ave	2.355	2.068		21.9	25.0	-12.2	20.0
sec-Butylbenzene	Ave	2.882	2.569		22.3	25.0	-10.9	20.0
1,3-Dichlorobenzene	Ave	1.277	1.216	0.6000	23.8	25.0	-4.8	20.0
4-Isopropyltoluene	Ave	2.495	2.301		23.0	25.0	-7.8	20.0
1,4-Dichlorobenzene	Ave	1.316	1.237	0.5000	23.5	25.0	-6.0	20.0
n-Butylbenzene	Ave	2.194	1.933		22.0	25.0	-11.9	20.0
1,2-Dichlorobenzene	Ave	1.277	1.190	0.4000	23.3	25.0	-6.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-83014-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-251083/3 Calibration Date: 06/30/2015 21:10
 Instrument ID: HP5973S Calib Start Date: 05/08/2015 14:56
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 05/08/2015 17:36
 Lab File ID: S0108.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1317	0.1015	0.0500	19.3	25.0	-22.9	50.0
1,2,4-Trichlorobenzene	Ave	0.997	0.9400	0.2000	23.6	25.0	-5.7	20.0
Hexachlorobutadiene	Ave	0.4698	0.5128		27.3	25.0	9.1	20.0
Naphthalene	Ave	2.355	2.044		21.7	25.0	-13.2	20.0
1,2,3-Trichlorobenzene	Ave	0.9277	0.9012		24.3	25.0	-2.9	20.0
Dibromofluoromethane (Surr)	Ave	1.096	1.153		28.6	27.2	5.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.7234	0.7310		27.5	27.2	1.1	20.0
Toluene-d8 (Surr)	Ave	2.205	2.284		28.1	27.2	3.5	20.0
4-Bromofluorobenzene (Surr)	Ave	0.6999	0.7875		30.6	27.2	12.5	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20150630-44028.b\S0108.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 30-Jun-2015 21:10:30 ALS Bottle#: 2 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 480-0044028-003
 Operator ID: JG Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20150630-44028.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 30-Jun-2015 23:40:34 Calib Date: 08-May-2015 21:23:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20150508-42209.b\S8232.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK032

First Level Reviewer: gentilej

Date: 30-Jun-2015 23:40:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.658	5.658	0.000	97	81890	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.665	8.665	0.000	84	149613	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.027	11.027	0.000	80	181706	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.049	5.049	0.000	74	102660	27.2	28.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.360	5.360	0.000	0	65069	27.2	27.5	
\$ 5 Toluene-d8 (Surr)	98	7.174	7.174	0.000	91	371365	27.2	28.1	
\$ 6 4-Bromofluorobenzene (Surr	174	9.901	9.901	0.000	91	128059	27.2	30.6	
10 Dichlorodifluoromethane	85	1.360	1.360	0.000	84	89025	25.0	22.8	
12 Chloromethane	50	1.524	1.524	0.000	85	99175	25.0	24.4	
13 Vinyl chloride	62	1.640	1.640	0.000	80	70160	25.0	20.4	
151 Butadiene	54	1.664	1.664	0.000	91	89062	25.0	23.1	
14 Bromomethane	94	1.957	1.957	0.000	92	28044	25.0	29.5	
15 Chloroethane	64	2.072	2.072	0.000	86	46996	25.0	27.1	
16 Dichlorofluoromethane	67	2.310	2.310	0.000	78	93292	25.0	29.2	
17 Trichlorofluoromethane	101	2.328	2.328	0.000	84	134356	25.0	32.3	
18 Ethyl ether	59	2.614	2.614	0.000	98	102148	25.0	30.0	
20 Acrolein	56	2.784	2.784	0.000	89	57194	125.0	146.6	
21 1,1,2-Trichloro-1,2,2-trif	101	2.851	2.851	0.000	68	93864	25.0	30.2	
22 1,1-Dichloroethene	96	2.858	2.858	0.000	79	81829	25.0	26.7	
23 Acetone	43	2.943	2.943	0.000	95	231267	125.0	155.3	
25 Iodomethane	142	3.028	3.028	0.000	98	139820	25.0	31.8	
26 Carbon disulfide	76	3.071	3.071	0.000	99	224916	25.0	25.8	
28 3-Chloro-1-propene	41	3.217	3.217	0.000	87	151232	25.0	24.8	
27 Methyl acetate	43	3.259	3.259	0.000	96	508540	125.0	143.4	
30 Methylene Chloride	84	3.387	3.387	0.000	89	85977	25.0	26.1	
31 2-Methyl-2-propanol	59	3.515	3.515	0.000	97	143184	250.0	267.8	
32 Methyl tert-butyl ether	73	3.588	3.588	0.000	91	249205	25.0	23.2	
34 trans-1,2-Dichloroethene	96	3.600	3.600	0.000	74	88672	25.0	27.4	
33 Acrylonitrile	53	3.631	3.631	0.000	96	483119	250.0	297.1	
35 Hexane	57	3.826	3.826	0.000	93	161105	25.0	27.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	4.020	4.020	0.000	85	165935	25.0	25.3	
37 Vinyl acetate	43	4.075	4.075	0.000	96	384022	50.0	46.3	
44 2,2-Dichloropropane	77	4.562	4.562	0.000	83	76147	25.0	22.1	
45 cis-1,2-Dichloroethene	96	4.586	4.586	0.000	69	90277	25.0	24.9	
43 2-Butanone (MEK)	43	4.605	4.605	0.000	92	313272	125.0	143.9	
48 Chlorobromomethane	128	4.818	4.818	0.000	89	51340	25.0	29.6	
49 Tetrahydrofuran	42	4.848	4.848	0.000	88	73407	50.0	51.8	
50 Chloroform	83	4.897	4.897	0.000	80	153491	25.0	24.7	
51 1,1,1-Trichloroethane	97	5.031	5.031	0.000	86	116564	25.0	26.4	
52 Cyclohexane	56	5.055	5.055	0.000	94	169971	25.0	26.1	
55 Carbon tetrachloride	117	5.177	5.177	0.000	78	112147	25.0	24.4	
54 1,1-Dichloropropene	75	5.183	5.183	0.000	88	121310	25.0	25.6	
53 Isobutyl alcohol	43	5.366	5.366	0.000	91	145656	625.0	660.0	
57 Benzene	78	5.384	5.384	0.000	96	346152	25.0	25.1	
58 1,2-Dichloroethane	62	5.439	5.439	0.000	59	142567	25.0	24.0	
59 n-Heptane	43	5.591	5.591	0.000	95	153541	25.0	26.0	
62 Trichloroethene	95	5.999	5.999	0.000	85	87657	25.0	24.5	
64 Methylcyclohexane	83	6.145	6.145	0.000	96	149435	25.0	25.4	
65 1,2-Dichloropropane	63	6.230	6.230	0.000	86	85795	25.0	24.2	
67 Dibromomethane	93	6.364	6.364	0.000	84	51592	25.0	24.9	
66 1,4-Dioxane	88	6.370	6.370	0.000	50	21692	500.0	683.5	
68 Dichlorobromomethane	83	6.516	6.516	0.000	88	100332	25.0	23.4	
69 2-Chloroethyl vinyl ether	63	6.796	6.796	0.000	88	48457	25.0	20.2	
72 cis-1,3-Dichloropropene	75	6.942	6.942	0.000	82	124431	25.0	23.3	
73 4-Methyl-2-pentanone (MIBK)	43	7.076	7.076	0.000	98	572437	125.0	134.4	
74 Toluene	92	7.247	7.247	0.000	97	208256	25.0	25.1	
77 trans-1,3-Dichloropropene	75	7.503	7.503	0.000	91	113005	25.0	24.4	
75 Ethyl methacrylate	69	7.557	7.557	0.000	85	98792	25.0	22.0	
79 1,1,2-Trichloroethane	83	7.691	7.691	0.000	90	59241	25.0	26.5	
81 Tetrachloroethene	166	7.789	7.789	0.000	90	114599	25.0	30.6	
82 1,3-Dichloropropane	76	7.856	7.856	0.000	92	130614	25.0	25.2	
80 2-Hexanone	43	7.923	7.923	0.000	98	438761	125.0	142.6	
83 Chlorodibromomethane	129	8.099	8.099	0.000	85	71412	25.0	24.9	
84 Ethylene Dibromide	107	8.209	8.209	0.000	94	80909	25.0	26.9	
87 Chlorobenzene	112	8.696	8.696	0.000	91	251167	25.0	25.8	
88 Ethylbenzene	91	8.787	8.787	0.000	98	382833	25.0	25.1	
89 1,1,1,2-Tetrachloroethane	131	8.787	8.787	0.000	39	88454	25.0	28.2	
90 m-Xylene & p-Xylene	106	8.915	8.915	0.000	0	159332	25.0	26.5	
91 o-Xylene	106	9.341	9.341	0.000	96	158711	25.0	26.0	
92 Styrene	104	9.365	9.365	0.000	89	251970	25.0	24.8	
95 Bromoform	173	9.597	9.597	0.000	92	41995	25.0	25.9	
94 Isopropylbenzene	105	9.719	9.719	0.000	95	405136	25.0	20.9	
101 Bromobenzene	156	10.053	10.053	0.000	95	107736	25.0	22.4	
97 1,1,2,2-Tetrachloroethane	83	10.084	10.084	0.000	84	96249	25.0	21.4	
100 1,2,3-Trichloropropane	110	10.120	10.120	0.000	60	38108	25.0	25.7	
99 N-Propylbenzene	91	10.139	10.139	0.000	98	471883	25.0	21.4	
103 2-Chlorotoluene	126	10.236	10.236	0.000	96	100272	25.0	21.4	
102 1,3,5-Trimethylbenzene	105	10.309	10.309	0.000	96	364708	25.0	21.6	
98 trans-1,4-Dichloro-2-buten	53	10.309	10.309	0.000	5	11915	25.0	7.14	
105 4-Chlorotoluene	126	10.346	10.346	0.000	81	108533	25.0	21.7	
106 tert-Butylbenzene	134	10.626	10.626	0.000	90	90478	25.0	22.4	
107 1,2,4-Trimethylbenzene	105	10.674	10.674	0.000	71	375714	25.0	21.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.833	10.833	0.000	93	466757	25.0	22.3	
111 1,3-Dichlorobenzene	146	10.960	10.960	0.000	83	220957	25.0	23.8	
110 4-Isopropyltoluene	119	10.967	10.967	0.000	96	418019	25.0	23.0	
113 1,4-Dichlorobenzene	146	11.046	11.046	0.000	93	224708	25.0	23.5	
115 n-Butylbenzene	91	11.350	11.350	0.000	96	351216	25.0	22.0	
116 1,2-Dichlorobenzene	146	11.393	11.393	0.000	91	216293	25.0	23.3	
117 1,2-Dibromo-3-Chloropropan	75	12.111	12.111	0.000	53	18442	25.0	19.3	
119 1,2,4-Trichlorobenzene	180	12.793	12.793	0.000	92	170809	25.0	23.6	
120 Hexachlorobutadiene	225	12.909	12.909	0.000	89	93176	25.0	27.3	
121 Naphthalene	128	13.000	13.000	0.000	97	371368	25.0	21.7	
122 1,2,3-Trichlorobenzene	180	13.207	13.207	0.000	93	163761	25.0	24.3	

Reagents:

8260 CORP mix_00042	Amount Added: 12.50	Units: uL	
GAS CORP mix_00095	Amount Added: 12.50	Units: uL	
S_8260_Surr_00106	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_IS_00101	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973S\\20150630-44028.b\\S0108.D

Injection Date: 30-Jun-2015 21:10:30

Instrument ID: HP5973S

Operator ID: JG

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

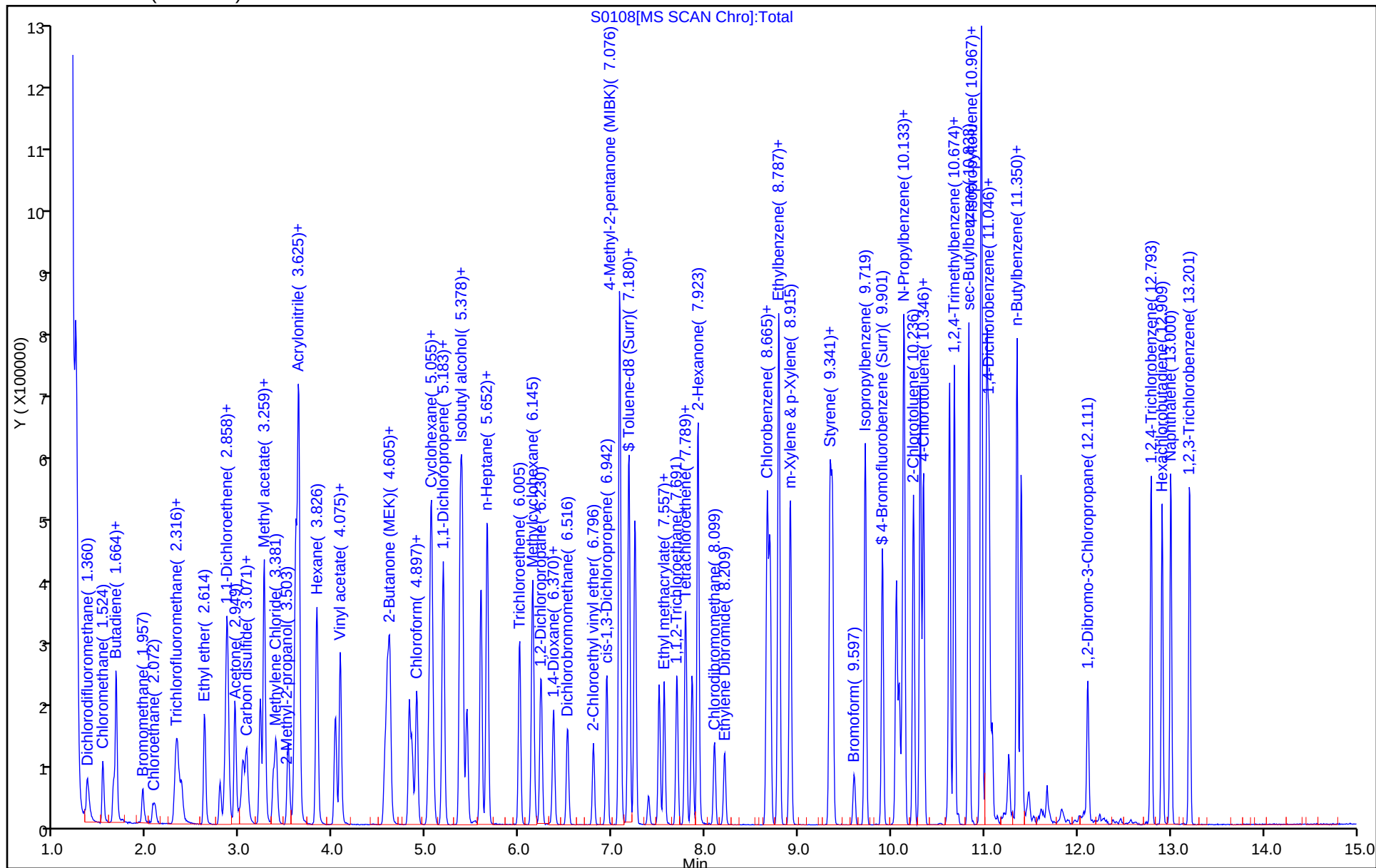
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-83014-1
SDG No.: _____
Lab Sample ID: CCV 480-251083/4 Calibration Date: 06/30/2015 21:32
Instrument ID: HP5973S Calib Start Date: 05/08/2015 14:56
GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 05/08/2015 17:36
Lab File ID: S0109.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	1.096	1.111		27.5	27.2	1.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.7234	0.7010		26.3	27.2	-3.1	20.0
Toluene-d8 (Surr)	Ave	2.205	2.080		25.6	27.2	-5.7	20.0
4-Bromofluorobenzene (Surr)	Ave	0.6999	0.7264		28.2	27.2	3.8	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20150630-44028.b\S0109.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 30-Jun-2015 21:32:30 ALS Bottle#: 3 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCV
 Misc. Info.: 480-0044028-004
 Operator ID: JG Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub43
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20150630-44028.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 30-Jun-2015 23:40:47 Calib Date: 08-May-2015 21:23:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20150508-42209.b\S8232.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK032

First Level Reviewer: gentilej

Date: 30-Jun-2015 23:40:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.658	5.658	0.000	98	80219	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.665	8.665	0.000	85	162853	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.028	11.028	0.000	91	182491	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.049	5.049	0.000	64	96858	27.2	27.5	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.366	5.366	0.000	0	61119	27.2	26.3	
\$ 5 Toluene-d8 (Surr)	98	7.180	7.180	0.000	91	368151	27.2	25.6	
\$ 6 4-Bromofluorobenzene (Surr	174	9.907	9.907	0.000	91	128582	27.2	28.2	
11 Chlorodifluoromethane	51	1.384	1.384	0.000	70	78831	25.0	27.2	
148 Ethanol	45	2.614	2.614	0.000	95	67856	1000.0	1477.9	
19 Propene oxide	58	2.699	2.699	0.000	95	134028	NC	NC	
24 Isopropyl alcohol	45	3.132	3.132	0.000	94	84897	250.0	267.7	
29 Acetonitrile	40	3.247	3.247	0.000	98	84357	250.0	271.1	
36 Isopropyl ether	45	4.057	4.057	0.000	96	320880	25.0	26.1	
40 2-Chloro-1,3-butadiene	53	4.093	4.093	0.000	86	159757	25.0	27.8	
38 1,1-Dimethoxyethane	75	4.118	4.118	0.000	61	48152	125.0	65.5	
41 Tert-butyl ethyl ether	59	4.404	4.404	0.000	98	296772	25.0	24.2	
42 Ethyl acetate	43	4.654	4.654	0.000	99	202935	50.0	48.9	
46 Propionitrile	54	4.696	4.696	0.000	97	187178	250.0	295.1	
47 Methacrylonitrile	41	4.818	4.818	0.000	96	708547	250.0	270.3	
152 Isooctane	57	5.421	5.421	0.000	92	332877	25.0	29.1	
147 t-Amyl alcohol	59	5.433	5.433	0.000	73	111139	250.0	233.8	
56 Tert-amyl methyl ether	73	5.469	5.469	0.000	67	245848	25.0	20.1	
1 1,4-Difluorobenzene	114	5.762	5.762	0.000	94	284335	25.0	27.2	
142 Ethyl acrylate	55	6.115	6.115	0.000	91	134547	25.0	25.0	
60 n-Butanol	56	6.328	6.328	0.000	42	7984	625.0	61.8	
63 Methyl methacrylate	41	6.334	6.334	0.000	92	175183	50.0	45.8	
70 2-Nitropropane	43	6.754	6.754	0.000	90	20128	50.0	16.0	
71 Epichlorohydrin	57	6.882	6.882	0.000	97	111898	250.0	268.8	
155 n-Butyl acetate	43	8.038	8.038	0.000	0	146768	25.0	22.7	
146 1-Chlorohexane	55	8.647	8.647	0.000	88	92773	25.0	26.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
85 3-Chlorobenzotrifluoride	180	8.659	8.659	0.000	81	165194	25.0	28.3	
86 4-Chlorobenzotrifluoride	180	8.720	8.720	0.000	86	156061	25.0	27.4	
93 2-Chlorobenzotrifluoride	180	9.633	9.633	0.000	90	158910	25.0	26.2	
96 Cyclohexanone	55	9.865	9.865	0.000	85	35847	250.0	185.4	
104 3-Chlorotoluene	126	10.297	10.297	0.000	96	106456	25.0	23.0	
108 Pentachloroethane	167	10.674	10.674	0.000	73	50265	25.0	23.8	
114 Dicyclopentadiene	66	11.040	11.040	0.000	96	385391	25.0	19.8	
112 1,2,3-Trimethylbenzene	105	11.076	11.076	0.000	54	396156	25.0	23.2	
150 Benzyl chloride	126	11.186	11.186	0.000	96	36389	25.0	25.2	
118 1,3,5-Trichlorobenzene	180	12.257	12.257	0.000	97	191257	25.0	26.2	
149 2-Methylnaphthalene	142	13.913	13.913	0.000	89	209731	25.0	19.2	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

ADD CORP mix_00031

Amount Added: 12.50

Units: uL

S_8260_Surr_00106

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_IS_00101

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20150630-44028.b\S0109.D

Injection Date: 30-Jun-2015 21:32:30

Instrument ID: HP5973S

Operator ID: JG

Lims ID: CCV

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

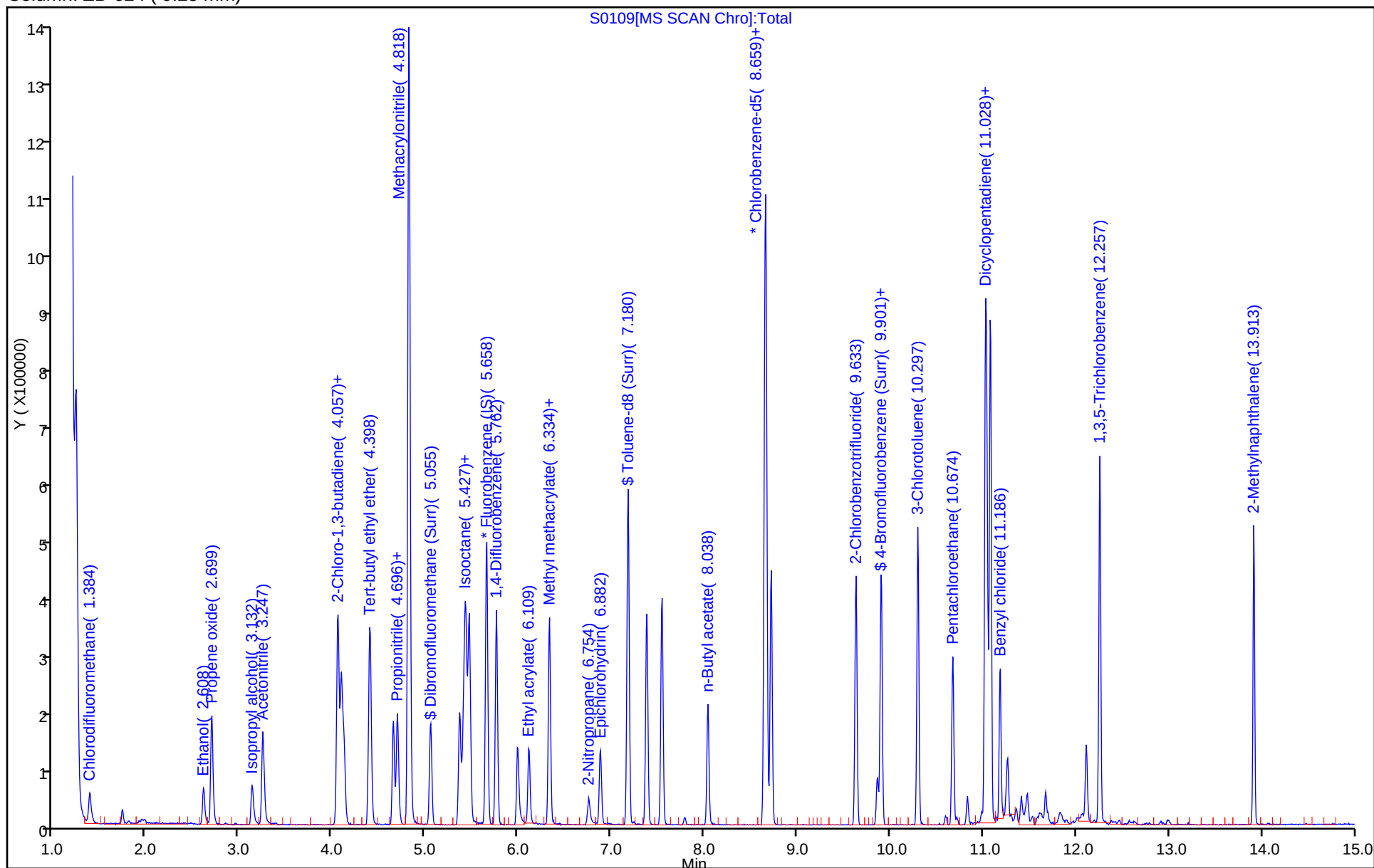
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-83014-1
 SDG No.: _____
 Lab Sample ID: CCV 480-251083/4 Calibration Date: 06/30/2015 21:32
 Instrument ID: HP5973S Calib Start Date: 05/08/2015 19:07
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 05/08/2015 21:23
 Lab File ID: S0109.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Lin1		0.9827		27.2	25.0	8.8	20.0
Ethanol	Ave	0.0143	0.0212		1480	1000	47.8*	20.0
Isopropyl alcohol	Ave	0.0988	0.1058		268	250	7.1	20.0
Acetonitrile	Ave	0.0970	0.1052		271	250	8.4	20.0
Isopropyl ether	Ave	3.834	4.000		26.1	25.0	4.3	20.0
Chloroprene	Ave	1.791	1.992		27.8	25.0	11.2	20.0
1,1-Dimethoxyethane	Ave	0.2290	0.1201		65.5	125	-47.6*	20.0
Tert-butyl ethyl ether	Ave	3.822	3.700		24.2	25.0	-3.2	20.0
Ethyl acetate	Ave	1.294	1.265		48.9	50.0	-2.2	20.0
Propionitrile	Ave	0.1977	0.2333		295	250	18.0	20.0
Methacrylonitrile	Ave	0.8170	0.8833		270	250	8.1	20.0
Isooctane	Ave	3.563	4.150		29.1	25.0	16.5	20.0
t-Amyl alcohol	Ave	0.1481	0.1385		234	250	-6.5	20.0
Tert-amyl methyl ether	Ave	3.817	3.065		20.1	25.0	-19.7	20.0
1,4-Difluorobenzene	Ave	3.253	3.544		27.2	25.0	9.0	20.0
Ethyl acrylate	Ave	1.676	1.677		25.0	25.0	0.0	20.0
n-Butanol	Ave	0.0402	0.0040		61.8	625	-90.1*	20.0
Methyl methacrylate	Ave	1.191	1.092		45.8	50.0	-8.4	20.0
2-Nitropropane	Ave	0.1728	0.0552		16.0	50.0	-68.1*	20.0
Epichlorohydrin	Ave	0.1297	0.1395		269	250	7.5	20.0
n-Butyl acetate	Ave	2.013	1.830	0.1000	22.7	25.0	-9.1	20.0
1-Chlorohexane	Lin1		0.5697		26.2	25.0	4.9	20.0
3-Chlorobenzotrifluoride	Ave	0.8006	0.9052		28.3	25.0	13.1	20.0
4-Chlorobenzotrifluoride	Ave	0.7794	0.8552		27.4	25.0	9.7	20.0
2-Chlorobenzotrifluoride	Ave	0.8312	0.8708		26.2	25.0	4.8	20.0
Cyclohexanone	Ave	0.0265	0.0196		185	250	-25.8*	20.0
3-Chlorotoluene	Ave	0.6329	0.5834		23.0	25.0	-7.8	20.0
Pentachloroethane	Lin1		0.2754		23.8	25.0	-4.6	20.0
Dicyclopentadiene	Ave	2.666	2.112		19.8	25.0	-20.8*	20.0
1,2,3-Trimethylbenzene	Ave	2.338	2.171		23.2	25.0	-7.1	20.0
Benzyl chloride	Ave	0.2221	0.2235		25.2	25.0	0.6	20.0
1,3,5-Trichlorobenzene	Ave	1.001	1.048		26.2	25.0	4.7	20.0
2-Methylnaphthalene	Ave	1.497	1.149		19.2	25.0	-23.2*	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20150630-44028.b\S0109.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 30-Jun-2015 21:32:30 ALS Bottle#: 3 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCV
 Misc. Info.: 480-0044028-004
 Operator ID: JG Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub43
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20150630-44028.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 30-Jun-2015 23:40:47 Calib Date: 08-May-2015 21:23:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20150508-42209.b\S8232.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK032

First Level Reviewer: gentilej

Date: 30-Jun-2015 23:40:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.658	5.658	0.000	98	80219	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.665	8.665	0.000	85	162853	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.028	11.028	0.000	91	182491	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.049	5.049	0.000	64	96858	27.2	27.5	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.366	5.366	0.000	0	61119	27.2	26.3	
\$ 5 Toluene-d8 (Surr)	98	7.180	7.180	0.000	91	368151	27.2	25.6	
\$ 6 4-Bromofluorobenzene (Surr	174	9.907	9.907	0.000	91	128582	27.2	28.2	
11 Chlorodifluoromethane	51	1.384	1.384	0.000	70	78831	25.0	27.2	
148 Ethanol	45	2.614	2.614	0.000	95	67856	1000.0	1477.9	
19 Propene oxide	58	2.699	2.699	0.000	95	134028	NC	NC	
24 Isopropyl alcohol	45	3.132	3.132	0.000	94	84897	250.0	267.7	
29 Acetonitrile	40	3.247	3.247	0.000	98	84357	250.0	271.1	
36 Isopropyl ether	45	4.057	4.057	0.000	96	320880	25.0	26.1	
40 2-Chloro-1,3-butadiene	53	4.093	4.093	0.000	86	159757	25.0	27.8	
38 1,1-Dimethoxyethane	75	4.118	4.118	0.000	61	48152	125.0	65.5	
41 Tert-butyl ethyl ether	59	4.404	4.404	0.000	98	296772	25.0	24.2	
42 Ethyl acetate	43	4.654	4.654	0.000	99	202935	50.0	48.9	
46 Propionitrile	54	4.696	4.696	0.000	97	187178	250.0	295.1	
47 Methacrylonitrile	41	4.818	4.818	0.000	96	708547	250.0	270.3	
152 Isooctane	57	5.421	5.421	0.000	92	332877	25.0	29.1	
147 t-Amyl alcohol	59	5.433	5.433	0.000	73	111139	250.0	233.8	
56 Tert-amyl methyl ether	73	5.469	5.469	0.000	67	245848	25.0	20.1	
1 1,4-Difluorobenzene	114	5.762	5.762	0.000	94	284335	25.0	27.2	
142 Ethyl acrylate	55	6.115	6.115	0.000	91	134547	25.0	25.0	
60 n-Butanol	56	6.328	6.328	0.000	42	7984	625.0	61.8	
63 Methyl methacrylate	41	6.334	6.334	0.000	92	175183	50.0	45.8	
70 2-Nitropropane	43	6.754	6.754	0.000	90	20128	50.0	16.0	
71 Epichlorohydrin	57	6.882	6.882	0.000	97	111898	250.0	268.8	
155 n-Butyl acetate	43	8.038	8.038	0.000	0	146768	25.0	22.7	
146 1-Chlorohexane	55	8.647	8.647	0.000	88	92773	25.0	26.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
85 3-Chlorobenzotrifluoride	180	8.659	8.659	0.000	81	165194	25.0	28.3	
86 4-Chlorobenzotrifluoride	180	8.720	8.720	0.000	86	156061	25.0	27.4	
93 2-Chlorobenzotrifluoride	180	9.633	9.633	0.000	90	158910	25.0	26.2	
96 Cyclohexanone	55	9.865	9.865	0.000	85	35847	250.0	185.4	
104 3-Chlorotoluene	126	10.297	10.297	0.000	96	106456	25.0	23.0	
108 Pentachloroethane	167	10.674	10.674	0.000	73	50265	25.0	23.8	
114 Dicyclopentadiene	66	11.040	11.040	0.000	96	385391	25.0	19.8	
112 1,2,3-Trimethylbenzene	105	11.076	11.076	0.000	54	396156	25.0	23.2	
150 Benzyl chloride	126	11.186	11.186	0.000	96	36389	25.0	25.2	
118 1,3,5-Trichlorobenzene	180	12.257	12.257	0.000	97	191257	25.0	26.2	
149 2-Methylnaphthalene	142	13.913	13.913	0.000	89	209731	25.0	19.2	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

ADD CORP mix_00031

Amount Added: 12.50

Units: uL

S_8260_Surr_00106

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_IS_00101

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20150630-44028.b\S0109.D

Injection Date: 30-Jun-2015 21:32:30

Instrument ID: HP5973S

Operator ID: JG

Lims ID: CCV

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

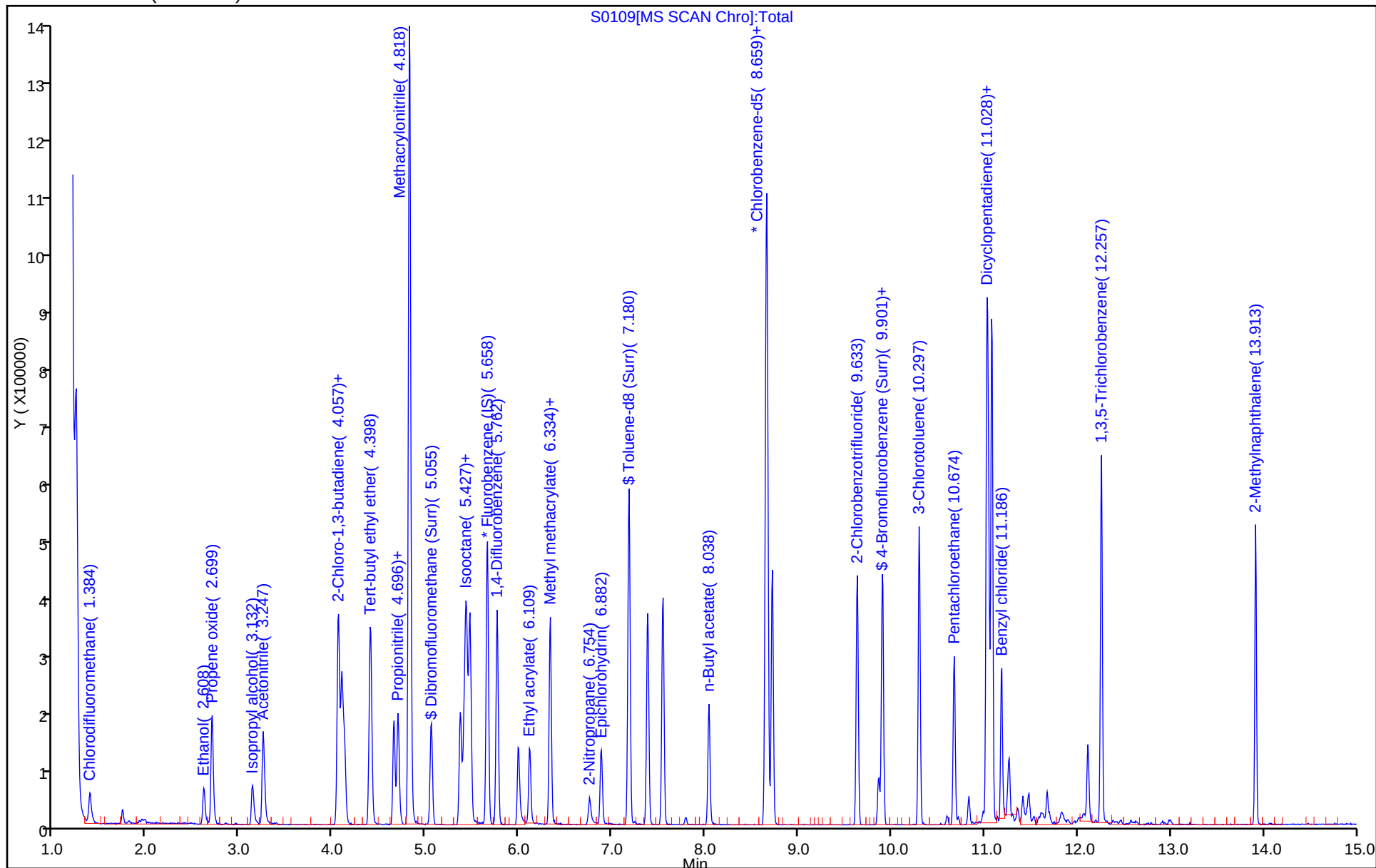
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8213.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 08-May-2015 14:09:30 ALS Bottle#: 41 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0042209-003
Operator ID: EB Instrument ID: HP5973S
Method: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 08-May-2015 14:19:49 Calib Date: 12-Apr-2015 01:20:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150411-41155.b\S46941.D
Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: boldte

Date: 08-May-2015 14:19:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags

\$ 61 BFB	95	4.142	4.142	0.000	0	211028	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

BFB_WRK_00042

Amount Added: 1.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8213.D

Injection Date: 08-May-2015 14:09:30

Instrument ID: HP5973S

Lims ID: BFB

Client ID:

Operator ID: EB

ALS Bottle#: 41

Worklist Smp#: 3

Injection Vol: 1.0 uL

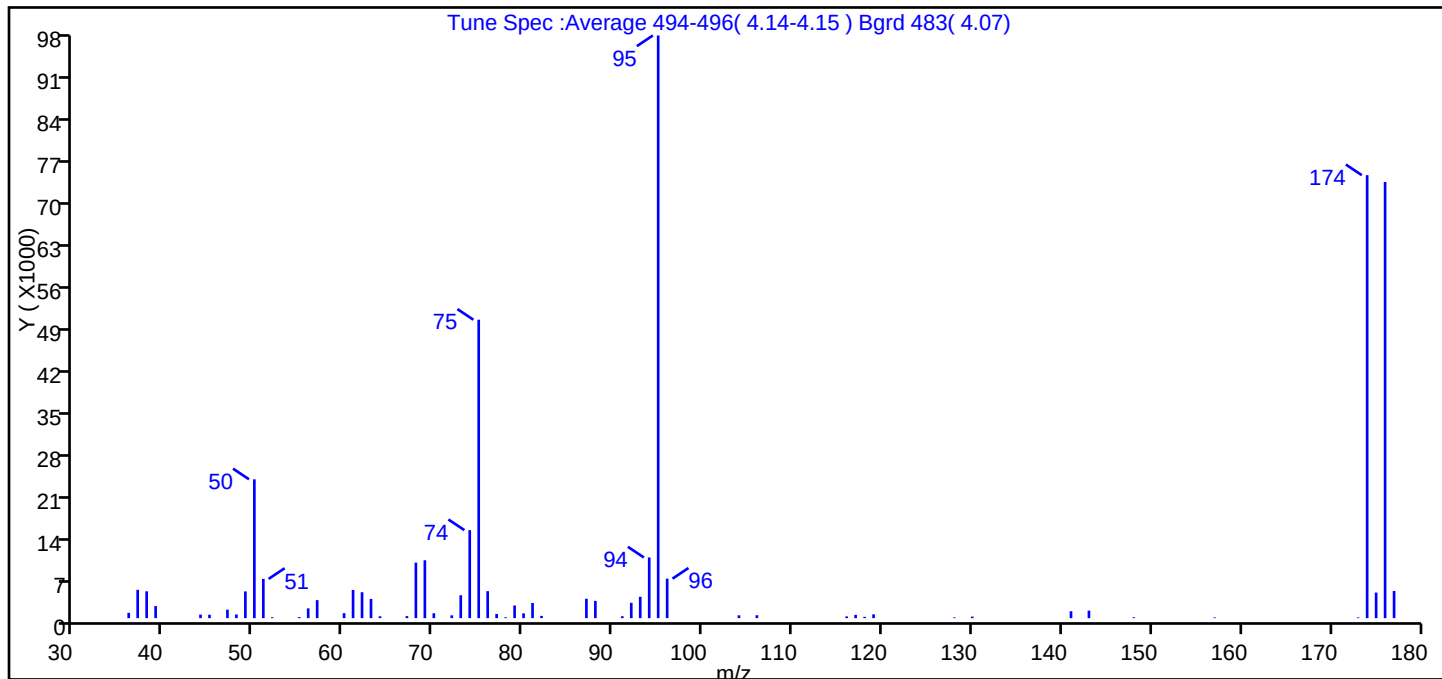
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Tune Method: BFB Method 8260

\$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	23.8
75	30 to 60% of m/z 95	51.2
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.1 (0.2)
174	50 to 120% of m/z 95	76.0
175	5 to 9% of m/z 174	4.4 (5.8)
176	Greater than 95% but less than 101% of m/z 174	74.9 (98.5)
177	5 to 9% of m/z 176	4.7 (6.2)

Data File: \\ChromNA\g6\Buffalo\ChromData\HP5973S\20150508-42209.b\S8213.D\S-8260.rslt\spectra.d
Injection Date: 08-May-2015 14:09:30
Spectrum: Tune Spec :Average 494-496(4.14-4.15) Bgrd 483(4.07)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 60

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	890	60.00	836	78.00	147	116.00	290
37.00	4746	61.00	4730	79.00	2121	117.00	547
38.00	4501	62.00	4348	80.00	813	118.00	215
39.00	2027	63.00	3211	81.00	2543	119.00	639
44.00	596	64.00	311	82.00	379	128.00	121
45.00	573	67.00	342	87.00	3254	130.00	263
47.00	1417	68.00	9312	88.00	2895	141.00	1163
48.00	618	69.00	9711	91.00	320	143.00	1261
49.00	4488	70.00	822	92.00	2573	148.00	142
50.00	23288	72.00	468	93.00	3580	157.00	118
51.00	6584	73.00	3844	94.00	10176	173.00	122
52.00	151	74.00	14762	95.00	97736	174.00	74304
55.00	177	75.00	50056	96.00	6621	175.00	4293
56.00	1643	76.00	4527	104.00	477	176.00	73168
57.00	3023	77.00	701	106.00	491	177.00	4554

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20150630-44028.b\S0107.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 30-Jun-2015 20:37:30 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0044028-002
Operator ID: JG Instrument ID: HP5973S
Method: \\ChromNA\Buffalo\ChromData\HP5973S\20150630-44028.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 30-Jun-2015 20:54:25 Calib Date: 08-May-2015 21:23:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20150508-42209.b\S8232.D
Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK047

First Level Reviewer: gentilej

Date: 30-Jun-2015 20:54:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags

\$ 61 BFB	95	4.148	4.148	0.000	0	80890	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

BFB_WRK_00043

Amount Added: 1.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20150630-44028.b\S0107.D

Injection Date: 30-Jun-2015 20:37:30

Instrument ID: HP5973S

Lims ID: BFB

Client ID:

Operator ID: JG

ALS Bottle#: 1 Worklist Smp#: 2

Injection Vol: 1.0 uL

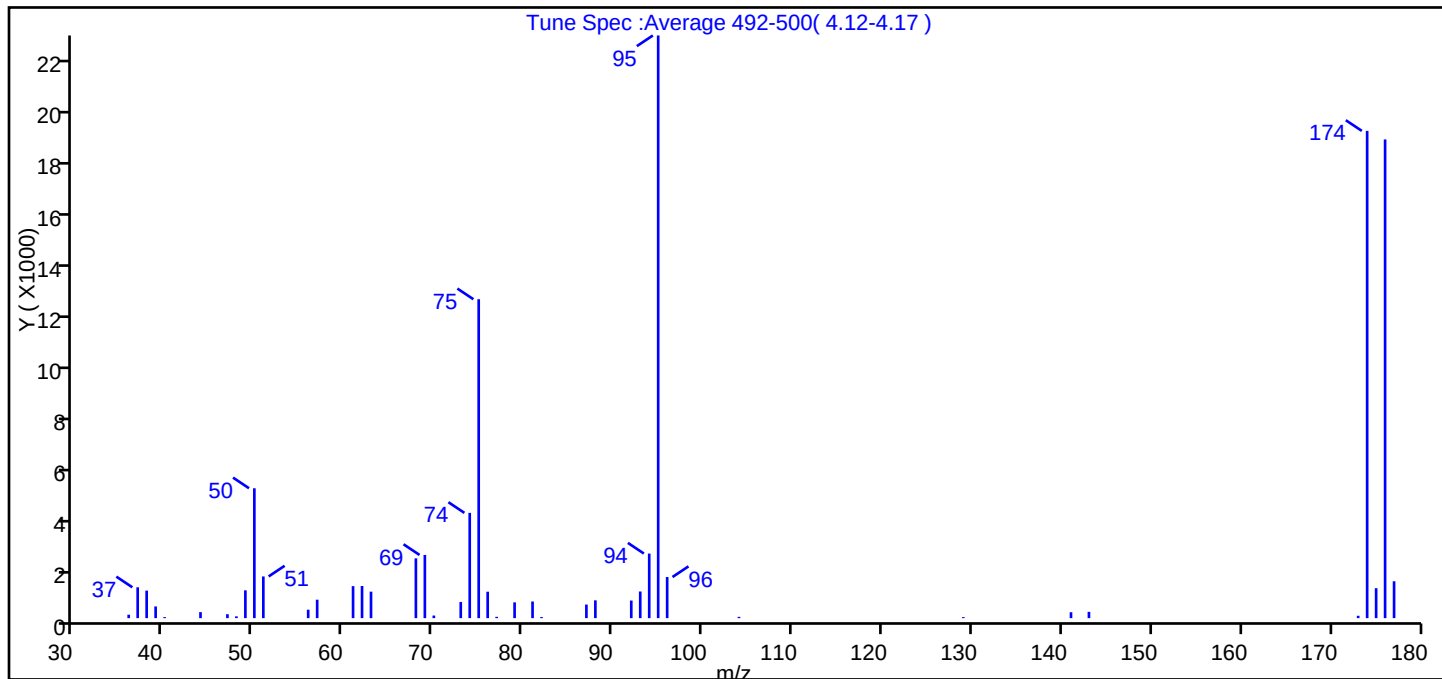
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Tune Method: BFB Method 8260

\$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	22.3
75	30 to 60% of m/z 95	54.7
96	5 to 9% of m/z 95	7.1
173	Less than 2% of m/z 174	0.4 (0.5)
174	50 to 120% of m/z 95	83.6
175	5 to 9% of m/z 174	5.1 (6.1)
176	Greater than 95% but less than 101% of m/z 174	82.2 (98.2)
177	5 to 9% of m/z 176	6.3 (7.7)

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20150630-44028.b\S0107.D\S-8260.rslt\spectra.d
Injection Date: 30-Jun-2015 20:37:30
Spectrum: Tune Spec :Average 492-500(4.12-4.17)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 43

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	132	56.00	323	76.00	1013	96.00	1576
37.00	1182	57.00	707	77.00	51	104.00	50
38.00	1055	61.00	1227	79.00	605	129.00	39
39.00	448	62.00	1232	81.00	638	141.00	227
40.00	41	63.00	1015	82.00	42	143.00	241
44.00	231	68.00	2291	87.00	521	173.00	91
47.00	151	69.00	2422	88.00	682	174.00	18672
48.00	69	70.00	100	92.00	675	175.00	1148
49.00	1065	73.00	620	93.00	1021	176.00	18344
50.00	4977	74.00	4034	94.00	2475	177.00	1413
51.00	1598	75.00	12221	95.00	22328		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-83014-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 480-251083/7

Matrix: Water Lab File ID: S0112.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 06/30/2015 22:56

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 251083 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.38
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.29
526-73-8	1,2,3-Trimethylbenzene	1.0	U	1.0	0.26
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.79
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.77
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.78
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	1.0	U	1.0	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	1.0	U	1.0	3.0
71-43-2	Benzene	1.0	U	1.0	0.41
75-27-4	Bromodichloromethane	1.0	U	1.0	0.39
75-25-2	Bromoform	1.0	U	1.0	0.26
74-83-9	Bromomethane	1.0	U	1.0	0.69
75-15-0	Carbon disulfide	1.0	U	1.0	0.19
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.27
108-90-7	Chlorobenzene	1.0	U	1.0	0.75
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.34
74-87-3	Chloromethane	1.0	U	1.0	0.35
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36
110-82-7	Cyclohexane	1.0	U	1.0	0.18
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-83014-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-251083/7
 Matrix: Water Lab File ID: S0112.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/30/2015 22:56
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 251083 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	0.50
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		66-137
460-00-4	4-Bromofluorobenzene (Surr)	104		73-120
1868-53-7	Dibromofluoromethane (Surr)	110		60-140
2037-26-5	Toluene-d8 (Surr)	95		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20150630-44028.b\S0112.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 30-Jun-2015 22:56:30 ALS Bottle#: 6 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 480-0044028-007
 Operator ID: JG Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20150630-44028.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 30-Jun-2015 23:40:00 Calib Date: 08-May-2015 21:23:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20150508-42209.b\S8232.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK032

First Level Reviewer: gentilej

Date: 30-Jun-2015 23:39:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.658	5.658	0.000	97	72204	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.665	8.665	0.000	84	148390	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.027	11.028	-0.001	93	157751	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.055	5.049	0.006	56	94473	27.2	29.9	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.372	5.366	0.006	0	58618	27.2	28.1	
\$ 5 Toluene-d8 (Surr)	98	7.180	7.180	0.000	91	336808	27.2	25.7	
\$ 6 4-Bromofluorobenzene (Surr	174	9.907	9.907	0.000	94	117601	27.2	28.3	
10 Dichlorodifluoromethane	85		1.360					ND	
11 Chlorodifluoromethane	51		1.384					ND	
12 Chloromethane	50		1.524					ND	
13 Vinyl chloride	62		1.640					ND	
151 Butadiene	54		1.664					ND	
14 Bromomethane	94		1.957					ND	
15 Chloroethane	64		2.072					ND	
16 Dichlorofluoromethane	67		2.310					ND	
17 Trichlorofluoromethane	101		2.328					ND	
18 Ethyl ether	59		2.614					ND	
148 Ethanol	45		2.614					ND	
19 Propene oxide	58		2.699					ND	
20 Acrolein	56		2.784					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.851					ND	
22 1,1-Dichloroethene	96		2.858					ND	
23 Acetone	43		2.943					ND	
25 Iodomethane	142		3.028					ND	
26 Carbon disulfide	76		3.071					ND	
24 Isopropyl alcohol	45		3.132					ND	
28 3-Chloro-1-propene	41		3.217					ND	
29 Acetonitrile	40		3.247					ND	
27 Methyl acetate	43		3.259					ND	
30 Methylene Chloride	84		3.387					ND	
31 2-Methyl-2-propanol	59		3.515					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
32 Methyl tert-butyl ether	73		3.588					ND	
34 trans-1,2-Dichloroethene	96		3.600					ND	
33 Acrylonitrile	53		3.631					ND	
139 Halothane	117		3.760					ND	
35 Hexane	57		3.826					ND	
39 1,1-Dichloroethane	63		4.020					ND	
36 Isopropyl ether	45		4.057					ND	
37 Vinyl acetate	43		4.075					ND	
40 2-Chloro-1,3-butadiene	53		4.093					ND	
38 1,1-Dimethoxyethane	75		4.118					ND	
41 Tert-butyl ethyl ether	59		4.404					ND	
44 2,2-Dichloropropane	77		4.562					ND	
45 cis-1,2-Dichloroethene	96		4.586					ND	
43 2-Butanone (MEK)	43		4.605					ND	
42 Ethyl acetate	43		4.654					ND	
46 Propionitrile	54		4.696					ND	
48 Chlorobromomethane	128		4.818					ND	
47 Methacrylonitrile	41		4.818					ND	
49 Tetrahydrofuran	42		4.848					ND	
50 Chloroform	83		4.897					ND	
141 2,4,4-Trimethyl-1-pentene	55		4.994					ND	
51 1,1,1-Trichloroethane	97		5.031					ND	
52 Cyclohexane	56		5.055					ND	
140 2,4,4-Trimethyl-2-pentene	97		5.153					ND	
55 Carbon tetrachloride	117		5.177					ND	
54 1,1-Dichloropropene	75		5.183					ND	
53 Isobutyl alcohol	43		5.366					ND	
57 Benzene	78		5.384					ND	
152 Isooctane	57		5.421					ND	
147 t-Amyl alcohol	59		5.433					ND	
58 1,2-Dichloroethane	62		5.439					ND	
56 Tert-amyl methyl ether	73		5.469					ND	
59 n-Heptane	43		5.591					ND	
1 1,4-Difluorobenzene	114		5.762					ND	
62 Trichloroethene	95		5.999					ND	
142 Ethyl acrylate	55		6.115					ND	
64 Methylcyclohexane	83		6.145					ND	
65 1,2-Dichloropropane	63		6.230					ND	
60 n-Butanol	56		6.328					ND	
63 Methyl methacrylate	41		6.334					ND	
67 Dibromomethane	93		6.364					ND	
66 1,4-Dioxane	88		6.370					ND	
68 Dichlorobromomethane	83		6.516					ND	
70 2-Nitropropane	43		6.754					ND	
69 2-Chloroethyl vinyl ether	63		6.796					ND	
71 Epichlorohydrin	57		6.882					ND	
72 cis-1,3-Dichloropropene	75		6.942					ND	
73 4-Methyl-2-pentanone (MIBK)	43		7.076					ND	
74 Toluene	92		7.247					ND	
76 2-Methylthiophene	97		7.381					ND	
77 trans-1,3-Dichloropropene	75		7.503					ND	
78 3-Methylthiophene	97		7.545					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
75 Ethyl methacrylate	69		7.557					ND	
79 1,1,2-Trichloroethane	83		7.691					ND	
81 Tetrachloroethene	166		7.789					ND	
82 1,3-Dichloropropane	76		7.856					ND	
80 2-Hexanone	43		7.923					ND	
155 n-Butyl acetate	43		8.038					ND	
83 Chlorodibromomethane	129		8.099					ND	
84 Ethylene Dibromide	107		8.209					ND	
146 1-Chlorohexane	55		8.647					ND	
85 3-Chlorobenzotrifluoride	180		8.659					ND	
87 Chlorobenzene	112		8.696					ND	
86 4-Chlorobenzotrifluoride	180		8.720					ND	
88 Ethylbenzene	91		8.787					ND	
89 1,1,1,2-Tetrachloroethane	131		8.787					ND	
90 m-Xylene & p-Xylene	106		8.915					ND	
91 o-Xylene	106		9.341					ND	
92 Styrene	104		9.365					ND	
95 Bromoform	173		9.597					ND	
93 2-Chlorobenzotrifluoride	180		9.633					ND	
94 Isopropylbenzene	105		9.719					ND	
96 Cyclohexanone	55		9.865					ND	
101 Bromobenzene	156		10.053					ND	
97 1,1,2,2-Tetrachloroethane	83		10.084					ND	
100 1,2,3-Trichloropropane	110		10.120					ND	
99 N-Propylbenzene	91		10.139					ND	
103 2-Chlorotoluene	126		10.236					ND	
104 3-Chlorotoluene	126		10.297					ND	
102 1,3,5-Trimethylbenzene	105		10.309					ND	
98 trans-1,4-Dichloro-2-buten	53		10.309					ND	
105 4-Chlorotoluene	126		10.346					ND	
106 tert-Butylbenzene	134		10.626					ND	
107 1,2,4-Trimethylbenzene	105		10.674					ND	
108 Pentachloroethane	167		10.674					ND	
109 sec-Butylbenzene	105		10.833					ND	
111 1,3-Dichlorobenzene	146		10.960					ND	
110 4-Isopropyltoluene	119		10.967					ND	
114 Dicyclopentadiene	66		11.040					ND	
113 1,4-Dichlorobenzene	146		11.046					ND	
112 1,2,3-Trimethylbenzene	105		11.076					ND	
150 Benzyl chloride	126		11.186					ND	
115 n-Butylbenzene	91		11.350					ND	
116 1,2-Dichlorobenzene	146		11.393					ND	
117 1,2-Dibromo-3-Chloropropan	75		12.111					ND	
118 1,3,5-Trichlorobenzene	180		12.257					ND	
119 1,2,4-Trichlorobenzene	180		12.793					ND	
120 Hexachlorobutadiene	225		12.909					ND	
121 Naphthalene	128		13.000					ND	
122 1,2,3-Trichlorobenzene	180		13.207					ND	
149 2-Methylnaphthalene	142		13.913					ND	
135 Hexachloroethane	117		0.000					ND	
134 Pentachloroethane TIC	1		0.000					ND	
138 cis-1,4-Dichloro-2-butene	88		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
145 Ethylene oxide TIC	1		0.000					ND	
137 Methyl acrylate	1		0.000					ND	
144 1-Bromopropane TIC	1		0.000					ND	
143 Propene oxide TIC	1		0.000					ND	
136 Nitrobenzene	77		0.000					ND	
S 123 Total BTEX	1		30.000					ND	
S 124 Xylenes, Total	1		30.000					ND	
S 125 1,2-Dichloroethene, Total	1		30.000					ND	
S 126 1,3-Dichloropropene, Total	1		30.000					ND	
T 7 Ethylene oxide	44	1.530	1.528	0.002	27	1140		0	
T 128 Hexachloroethane TIC	1		0.000					ND	
T 133 Aziridine TIC	1		0.000					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 127 Ethanol TIC	45		0.000					ND	
T 129 bis(chloromethyl)ether TIC	1		0.000					ND	
T 130 Bromoethane TIC	1		0.000					ND	
T 131 1-Bromopropane	1		0.000					ND	
T 132 tert-amyl alcohol TIC	1		0.000					ND	

Reagents:

S_8260_Surr_00106

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_IS_00101

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20150630-44028.b\S0112.D

Injection Date: 30-Jun-2015 22:56:30

Instrument ID: HP5973S

Operator ID: JG

Lims ID: MB

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

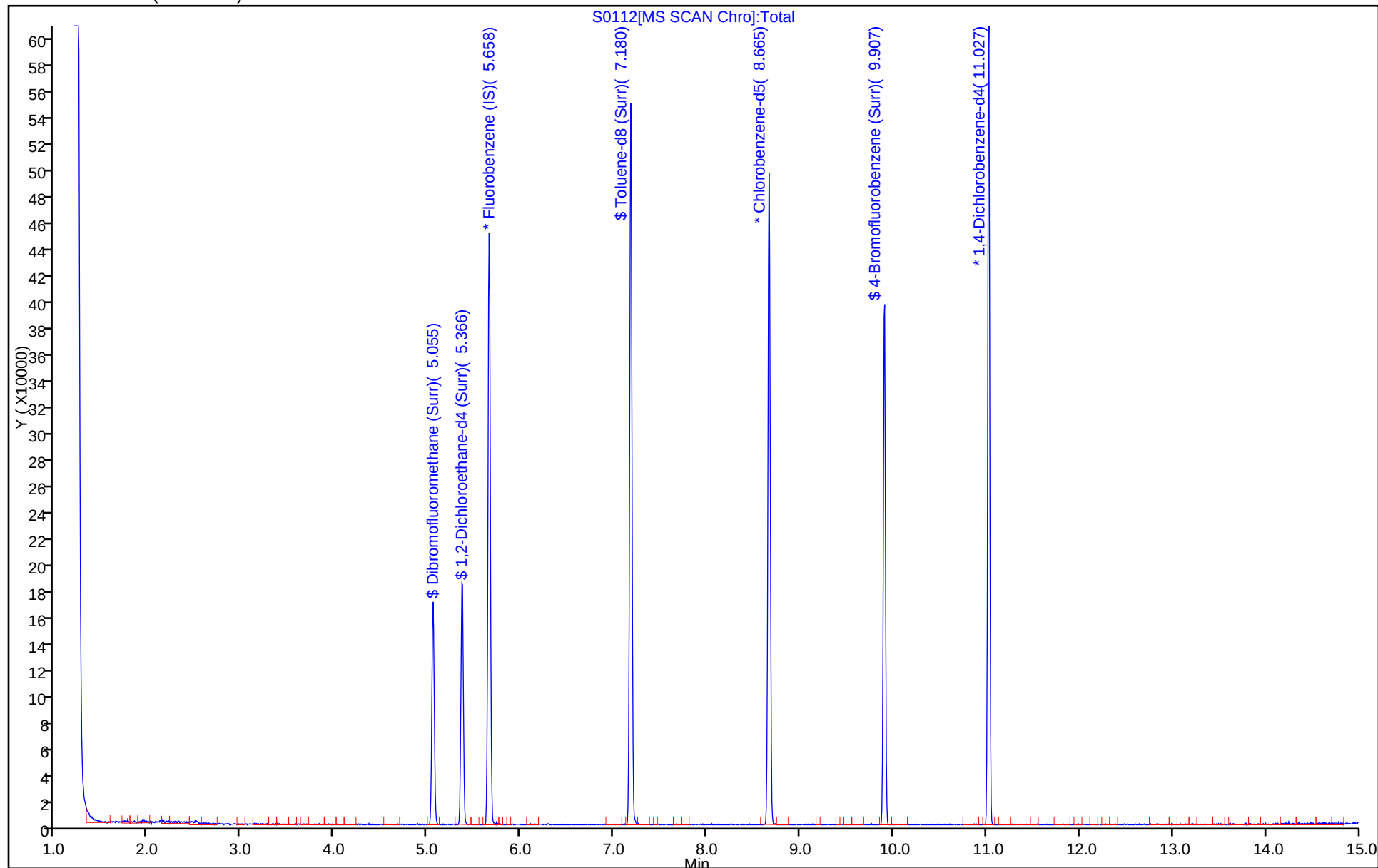
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-83014-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-251083/5
 Matrix: Water Lab File ID: S0110.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/30/2015 21:55
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 251083 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	27.1		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	21.3		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	28.7		1.0	0.31
79-00-5	1,1,2-Trichloroethane	25.3		1.0	0.23
75-34-3	1,1-Dichloroethane	25.6		1.0	0.38
75-35-4	1,1-Dichloroethene	25.6		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	23.4		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	21.1		1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	18.9		1.0	0.39
106-93-4	1,2-Dibromoethane	25.9		1.0	0.73
95-50-1	1,2-Dichlorobenzene	22.4		1.0	0.79
107-06-2	1,2-Dichloroethane	24.3		1.0	0.21
78-87-5	1,2-Dichloropropane	24.5		1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	20.7		1.0	0.77
541-73-1	1,3-Dichlorobenzene	23.0		1.0	0.78
106-46-7	1,4-Dichlorobenzene	23.1		1.0	0.84
78-93-3	2-Butanone (MEK)	137		10	1.3
591-78-6	2-Hexanone	137		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	131		5.0	2.1
67-64-1	Acetone	151		10	3.0
71-43-2	Benzene	24.6		1.0	0.41
75-27-4	Bromodichloromethane	23.1		1.0	0.39
75-25-2	Bromoform	25.2		1.0	0.26
74-83-9	Bromomethane	31.1		1.0	0.69
75-15-0	Carbon disulfide	25.6		1.0	0.19
56-23-5	Carbon tetrachloride	24.6		1.0	0.27
108-90-7	Chlorobenzene	25.0		1.0	0.75
75-00-3	Chloroethane	26.9		1.0	0.32
67-66-3	Chloroform	24.7		1.0	0.34
74-87-3	Chloromethane	24.4		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	24.4		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	23.3		1.0	0.36
110-82-7	Cyclohexane	25.7		1.0	0.18
124-48-1	Dibromochloromethane	24.7		1.0	0.32
75-71-8	Dichlorodifluoromethane	21.6		1.0	0.68

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-83014-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-251083/5
 Matrix: Water Lab File ID: S0110.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/30/2015 21:55
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 251083 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	23.9		1.0	0.74
98-82-8	Isopropylbenzene	20.1		1.0	0.79
79-20-9	Methyl acetate	139		2.5	0.50
1634-04-4	Methyl tert-butyl ether	23.9		1.0	0.16
108-87-2	Methylcyclohexane	24.8		1.0	0.16
75-09-2	Methylene Chloride	26.8		1.0	0.44
100-42-5	Styrene	24.0		1.0	0.73
127-18-4	Tetrachloroethene	28.0		1.0	0.36
108-88-3	Toluene	23.2		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	26.2		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	23.6		1.0	0.37
79-01-6	Trichloroethene	24.1		1.0	0.46
75-69-4	Trichlorofluoromethane	33.0		1.0	0.88
75-01-4	Vinyl chloride	20.4		1.0	0.90
1330-20-7	Xylenes, Total	49.4		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		66-137
460-00-4	4-Bromofluorobenzene (Surr)	113		73-120
1868-53-7	Dibromofluoromethane (Surr)	109		60-140
2037-26-5	Toluene-d8 (Surr)	102		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20150630-44028.b\S0110.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 30-Jun-2015 21:55:30 ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 480-0044028-005
 Operator ID: JG Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20150630-44028.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 30-Jun-2015 23:40:47 Calib Date: 08-May-2015 21:23:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20150508-42209.b\S8232.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK032

First Level Reviewer: gentilej

Date: 30-Jun-2015 23:41:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.658	5.658	0.000	98	78582	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.665	8.665	0.000	83	149547	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.027	11.028	-0.001	87	180494	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.049	5.049	0.000	75	101600	27.2	29.5	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.366	5.366	0.000	0	65247	27.2	28.7	
\$ 5 Toluene-d8 (Surr)	98	7.180	7.180	0.000	91	366694	27.2	27.8	
\$ 6 4-Bromofluorobenzene (Surr	174	9.907	9.907	0.000	93	129060	27.2	30.8	
10 Dichlorodifluoromethane	85	1.360	1.360	0.000	84	80773	25.0	21.6	
12 Chloromethane	50	1.524	1.524	0.000	82	95259	25.0	24.4	
13 Vinyl chloride	62	1.640	1.640	0.000	79	67276	25.0	20.4	
151 Butadiene	54	1.670	1.664	0.006	88	87709	25.0	23.7	
14 Bromomethane	94	1.957	1.957	0.000	85	28408	25.0	31.1	
15 Chloroethane	64	2.084	2.072	0.012	76	44792	25.0	26.9	
16 Dichlorofluoromethane	67	2.316	2.310	0.006	76	93143	25.0	30.3	
17 Trichlorofluoromethane	101	2.334	2.328	0.006	81	131487	25.0	33.0	
18 Ethyl ether	59	2.620	2.614	0.006	97	95587	25.0	29.3	
20 Acrolein	56	2.791	2.784	0.007	85	51191	125.0	136.7	
21 1,1,2-Trichloro-1,2,2-trif	101	2.864	2.851	0.013	53	85747	25.0	28.7	
22 1,1-Dichloroethene	96	2.864	2.858	0.006	75	75258	25.0	25.6	
23 Acetone	43	2.943	2.943	0.000	98	216374	125.0	151.4	
25 Iodomethane	142	3.028	3.028	0.000	97	131429	25.0	31.2	
26 Carbon disulfide	76	3.071	3.071	0.000	98	214300	25.0	25.6	
28 3-Chloro-1-propene	41	3.223	3.217	0.006	87	138349	25.0	23.6	
27 Methyl acetate	43	3.259	3.259	0.000	96	474617	125.0	139.5	
30 Methylene Chloride	84	3.387	3.387	0.000	88	84692	25.0	26.8	
31 2-Methyl-2-propanol	59	3.515	3.515	0.000	96	129160	250.0	251.8	
32 Methyl tert-butyl ether	73	3.594	3.588	0.006	92	246688	25.0	23.9	
34 trans-1,2-Dichloroethene	96	3.606	3.600	0.006	92	81310	25.0	26.2	
33 Acrylonitrile	53	3.631	3.631	0.000	96	455813	250.0	292.1	
35 Hexane	57	3.826	3.826	0.000	94	149103	25.0	26.5	
39 1,1-Dichloroethane	63	4.026	4.020	0.006	82	161390	25.0	25.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
37 Vinyl acetate	43	4.081	4.075	0.006	96	373750	50.0	46.9	
44 2,2-Dichloropropane	77	4.562	4.562	0.000	92	76016	25.0	23.0	
45 cis-1,2-Dichloroethene	96	4.587	4.586	0.000	71	84962	25.0	24.4	
43 2-Butanone (MEK)	43	4.611	4.605	0.006	93	285808	125.0	136.8	
48 Chlorobromomethane	128	4.824	4.818	0.006	91	46972	25.0	28.2	
49 Tetrahydrofuran	42	4.848	4.848	0.000	91	69258	50.0	50.9	
50 Chloroform	83	4.897	4.897	0.000	78	146926	25.0	24.7	
51 1,1,1-Trichloroethane	97	5.037	5.031	0.006	90	114661	25.0	27.1	
52 Cyclohexane	56	5.061	5.055	0.006	92	160597	25.0	25.7	
55 Carbon tetrachloride	117	5.177	5.177	0.000	82	108356	25.0	24.6	
54 1,1-Dichloropropene	75	5.183	5.183	0.000	91	115484	25.0	25.4	
53 Isobutyl alcohol	43	5.366	5.366	0.000	87	132407	625.0	625.2	
57 Benzene	78	5.390	5.384	0.006	98	326098	25.0	24.6	
58 1,2-Dichloroethane	62	5.439	5.439	0.000	78	137969	25.0	24.3	
59 n-Heptane	43	5.591	5.591	0.000	95	142193	25.0	25.1	
62 Trichloroethene	95	6.005	5.999	0.006	87	82535	25.0	24.1	
64 Methylcyclohexane	83	6.145	6.145	0.000	93	140020	25.0	24.8	
65 1,2-Dichloropropane	63	6.236	6.230	0.006	86	83316	25.0	24.5	
67 Dibromomethane	93	6.370	6.364	0.006	87	50800	25.0	25.5	
66 1,4-Dioxane	88	6.370	6.370	0.000	34	17932	500.0	565.3	
68 Dichlorobromomethane	83	6.522	6.516	0.006	86	95281	25.0	23.1	
69 2-Chloroethyl vinyl ether	63	6.796	6.796	0.000	90	48845	25.0	21.3	
72 cis-1,3-Dichloropropene	75	6.943	6.942	0.000	81	119590	25.0	23.3	
73 4-Methyl-2-pentanone (MIBK)	43	7.083	7.076	0.007	97	556239	125.0	130.6	
74 Toluene	92	7.247	7.247	0.000	95	192291	25.0	23.2	
77 trans-1,3-Dichloropropene	75	7.503	7.503	0.000	91	109193	25.0	23.6	
75 Ethyl methacrylate	69	7.557	7.557	0.000	84	96927	25.0	21.6	
79 1,1,2-Trichloroethane	83	7.691	7.691	0.000	91	56590	25.0	25.3	
81 Tetrachloroethene	166	7.789	7.789	0.000	92	104829	25.0	28.0	
82 1,3-Dichloropropane	76	7.856	7.856	0.000	93	125020	25.0	24.1	
80 2-Hexanone	43	7.923	7.923	0.000	98	420233	125.0	136.7	
83 Chlorodibromomethane	129	8.099	8.099	0.000	84	70809	25.0	24.7	
84 Ethylene Dibromide	107	8.209	8.209	0.000	95	77642	25.0	25.9	
87 Chlorobenzene	112	8.696	8.696	0.000	93	242521	25.0	25.0	
88 Ethylbenzene	91	8.793	8.787	0.006	98	363859	25.0	23.9	
89 1,1,1,2-Tetrachloroethane	131	8.787	8.787	0.000	39	83500	25.0	26.7	
90 m-Xylene & p-Xylene	106	8.915	8.915	0.000	0	151268	25.0	25.2	
91 o-Xylene	106	9.341	9.341	0.000	97	147218	25.0	24.2	
92 Styrene	104	9.365	9.365	0.000	92	243133	25.0	24.0	
95 Bromoform	173	9.597	9.597	0.000	91	40813	25.0	25.2	
94 Isopropylbenzene	105	9.719	9.719	0.000	96	387468	25.0	20.1	
101 Bromobenzene	156	10.053	10.053	0.000	93	104580	25.0	21.8	
97 1,1,2,2-Tetrachloroethane	83	10.084	10.084	0.000	80	95125	25.0	21.3	
100 1,2,3-Trichloropropane	110	10.120	10.120	0.000	64	33906	25.0	23.1	
99 N-Propylbenzene	91	10.139	10.139	0.000	97	440339	25.0	20.1	
103 2-Chlorotoluene	126	10.236	10.236	0.000	96	100735	25.0	21.7	
102 1,3,5-Trimethylbenzene	105	10.309	10.309	0.000	93	348422	25.0	20.7	
98 trans-1,4-Dichloro-2-buten	53	10.309	10.309	0.000	12	10402	25.0	6.28	
105 4-Chlorotoluene	126	10.346	10.346	0.000	80	105052	25.0	21.2	
106 tert-Butylbenzene	134	10.626	10.626	0.000	89	86706	25.0	21.6	
107 1,2,4-Trimethylbenzene	105	10.674	10.674	0.000	66	359359	25.0	21.1	
109 sec-Butylbenzene	105	10.833	10.833	0.000	94	438054	25.0	21.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
111 1,3-Dichlorobenzene	146	10.960	10.960	0.000	87	212428	25.0	23.0	
110 4-Isopropyltoluene	119	10.967	10.967	0.000	96	404722	25.0	22.5	
113 1,4-Dichlorobenzene	146	11.046	11.046	0.000	93	219640	25.0	23.1	
115 n-Butylbenzene	91	11.350	11.350	0.000	96	331675	25.0	20.9	
116 1,2-Dichlorobenzene	146	11.393	11.393	0.000	91	206480	25.0	22.4	
117 1,2-Dibromo-3-Chloropropan	75	12.105	12.111	-0.006	51	17963	25.0	18.9	
119 1,2,4-Trichlorobenzene	180	12.793	12.793	0.000	89	168122	25.0	23.4	
120 Hexachlorobutadiene	225	12.909	12.909	0.000	90	89040	25.0	26.2	
121 Naphthalene	128	13.000	13.000	0.000	96	369325	25.0	21.7	
122 1,2,3-Trichlorobenzene	180	13.207	13.207	0.000	93	158190	25.0	23.6	

Reagents:

GAS CORP mix_00095	Amount Added: 12.50	Units: uL	
8260 CORP mix_00042	Amount Added: 12.50	Units: uL	
S_8260_Surr_00106	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_IS_00101	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973S\\20150630-44028.b\\S0110.D

Injection Date: 30-Jun-2015 21:55:30

Instrument ID: HP5973S

Operator ID: JG

Lims ID: LCS

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

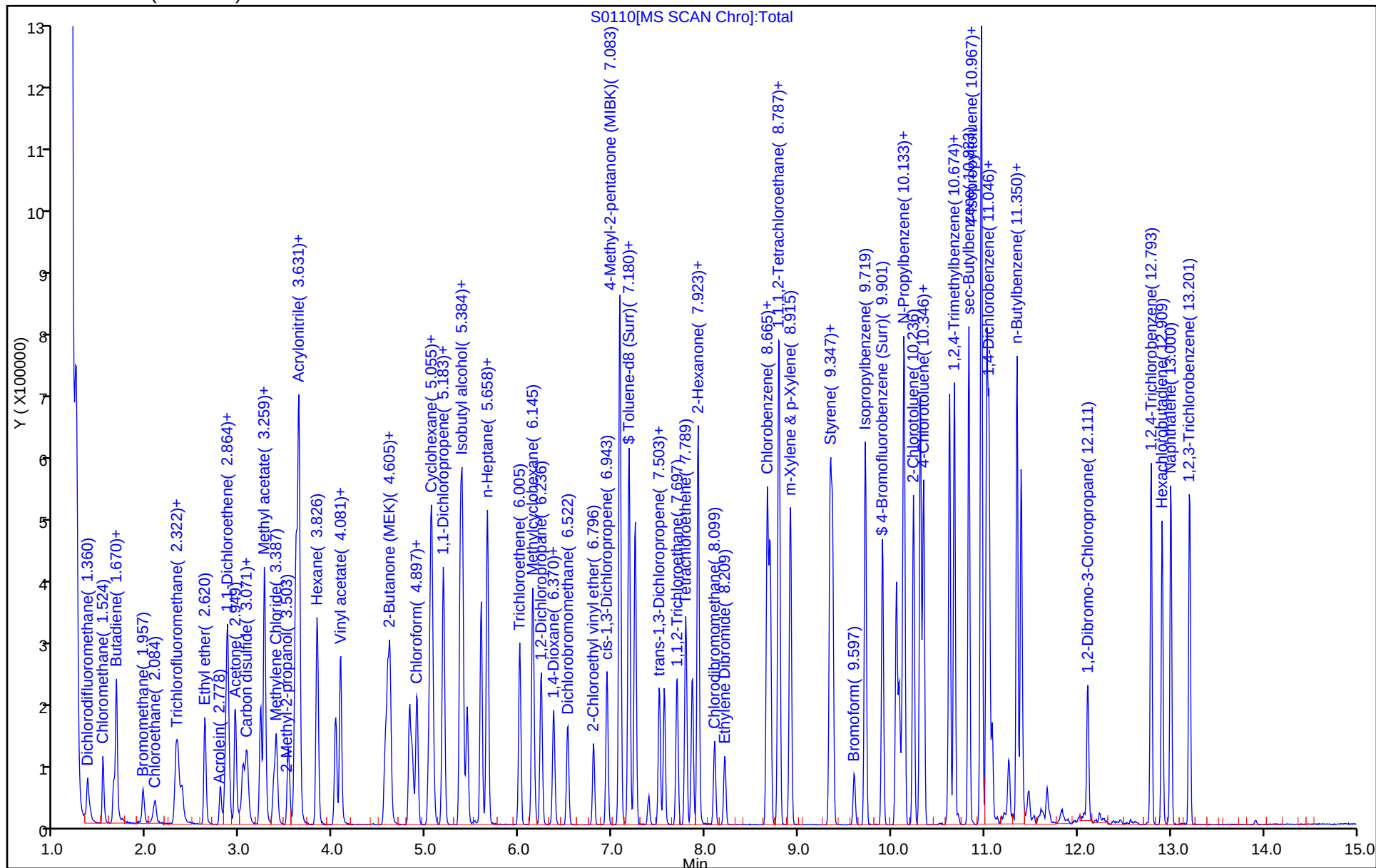
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-83014-1

SDG No.: _____

Instrument ID: HP5973SStart Date: 05/08/2015 14:09Analysis Batch Number: 241387End Date: 05/08/2015 22:31

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-241387/3		05/08/2015 14:09	1	S8213.D	ZB-624 (60) 0.25 (mm)
IC 480-241387/5		05/08/2015 14:56	1	S8215.D	ZB-624 (60) 0.25 (mm)
IC 480-241387/6		05/08/2015 15:19	1	S8216.D	ZB-624 (60) 0.25 (mm)
IC 480-241387/7		05/08/2015 15:42	1	S8217.D	ZB-624 (60) 0.25 (mm)
IC 480-241387/8		05/08/2015 16:05	1	S8218.D	ZB-624 (60) 0.25 (mm)
IC 480-241387/9		05/08/2015 16:27	1	S8219.D	ZB-624 (60) 0.25 (mm)
ICIS 480-241387/10		05/08/2015 16:50	1	S8220.D	ZB-624 (60) 0.25 (mm)
IC 480-241387/11		05/08/2015 17:13	1	S8221.D	ZB-624 (60) 0.25 (mm)
IC 480-241387/12		05/08/2015 17:36	1	S8222.D	ZB-624 (60) 0.25 (mm)
MDLV 480-241387/14		05/08/2015 18:21	1		ZB-624 (60) 0.25 (mm)
IC 480-241387/16		05/08/2015 19:07	1	S8226.D	ZB-624 (60) 0.25 (mm)
IC 480-241387/17		05/08/2015 19:29	1	S8227.D	ZB-624 (60) 0.25 (mm)
IC 480-241387/18		05/08/2015 19:52	1	S8228.D	ZB-624 (60) 0.25 (mm)
IC 480-241387/19		05/08/2015 20:15	1	S8229.D	ZB-624 (60) 0.25 (mm)
IC 480-241387/20		05/08/2015 20:38	1	S8230.D	ZB-624 (60) 0.25 (mm)
IC 480-241387/21		05/08/2015 21:01	1	S8231.D	ZB-624 (60) 0.25 (mm)
IC 480-241387/22		05/08/2015 21:23	1	S8232.D	ZB-624 (60) 0.25 (mm)
MDLV 480-241387/24		05/08/2015 22:08	1		ZB-624 (60) 0.25 (mm)
ICV 480-241387/25		05/08/2015 22:31	1		ZB-624 (60) 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-83014-1

SDG No.: _____

Instrument ID: HP5973SStart Date: 06/30/2015 20:37Analysis Batch Number: 251083End Date: 07/01/2015 06:18

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-251083/2		06/30/2015 20:37	1	S0107.D	ZB-624 (60) 0.25 (mm)
CCVIS 480-251083/3		06/30/2015 21:10	1	S0108.D	ZB-624 (60) 0.25 (mm)
CCV 480-251083/4		06/30/2015 21:32	1	S0109.D	ZB-624 (60) 0.25 (mm)
LCS 480-251083/5		06/30/2015 21:55	1	S0110.D	ZB-624 (60) 0.25 (mm)
MB 480-251083/7		06/30/2015 22:56	1	S0112.D	ZB-624 (60) 0.25 (mm)
ZZZZZ		06/30/2015 23:50	400		ZB-624 (60) 0.25 (mm)
ZZZZZ		07/01/2015 00:12	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		07/01/2015 00:35	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		07/01/2015 00:58	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		07/01/2015 01:21	40		ZB-624 (60) 0.25 (mm)
ZZZZZ		07/01/2015 01:44	5		ZB-624 (60) 0.25 (mm)
ZZZZZ		07/01/2015 02:07	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		07/01/2015 02:29	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		07/01/2015 02:52	5		ZB-624 (60) 0.25 (mm)
ZZZZZ		07/01/2015 03:15	5		ZB-624 (60) 0.25 (mm)
ZZZZZ		07/01/2015 03:38	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		07/01/2015 04:01	20		ZB-624 (60) 0.25 (mm)
ZZZZZ		07/01/2015 04:24	1		ZB-624 (60) 0.25 (mm)
480-83014-1	WELL-1-3	07/01/2015 04:46	1	S0126.D	ZB-624 (60) 0.25 (mm)
480-83014-2	WELL-1-2A	07/01/2015 05:09	1	S0127.D	ZB-624 (60) 0.25 (mm)
480-83014-3	TRIP BLANK 6/25/15	07/01/2015 05:32	1	S0128.D	ZB-624 (60) 0.25 (mm)
ZZZZZ		07/01/2015 05:55	5		ZB-624 (60) 0.25 (mm)
ZZZZZ		07/01/2015 06:18	5		ZB-624 (60) 0.25 (mm)

GC/MS VOA Worksheet

Batch Number: 480-251083

Method: 8260C

Analyst: Feldman, Lance J

Date Open: Jun 30 2015 8:37PM

Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	8260 CORP mix_00042	ADD CORP mix_00031
BFB~480-251083/2		8260C			1 uL	1 uL	HP5973S		
CCVIS~480-251083/3		8260C			5 mL	5 mL	HP5973S	12.5 uL	
CCV~480-251083/4		8260C			5 mL	5 mL	HP5973S		12.5 uL
LCS~480-251083/5		8260C			5 mL	5 mL	HP5973S	12.5 uL	
MB~480-251083/7		8260C			5 mL	5 mL	HP5973S		
480-82783-C-2	RW-7	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-82812-A-1	GB218E-15-RPS	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-82812-A-2	GB218E-15-PDB	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-82812-A-3	GB206E-15-PDB	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-82815-F-1	MW-8	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-82815-F-2	MW-7	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-82815-F-2~MS	MW-7	8260C	T	<2 SU	5 mL	5 mL	HP5973S	12.5 uL	
480-82815-F-2~MS D	MW-7	8260C	T	<2 SU	5 mL	5 mL	HP5973S	12.5 uL	
480-82815-A-3	MW-6	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-82815-A-4	MW-9	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-82815-F-5	MW-10	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-82815-F-6	MW-18	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-82815-F-7	MW-19	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-82815-F-8	DUPLICATE	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-82815-A-9	TRIP BLANK	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-83014-A-1	WELL-1-3	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-83014-A-2	WELL-1-2A	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-83014-A-3	TRIP BLANK 6/25/15	8260C	T	<2 SU	5 mL	5 mL	HP5973S		

GC/MS VOA Worksheet

Batch Number: 480-251083

Method: 8260C

Analyst: Feldman, Lance J

Date Open: Jun 30 2015 8:37PM

Batch End:

Lab ID	Client ID	Method Chain	Basis	BFB_WRK_00043	GAS CORP mix_00095	S_8260_IS_00101	S_8260_Surr_00106
BFB~480-251083/2		8260C		1 uL			
CCVIS~480-251083/3		8260C			12.5 uL	1 uL	1 uL
CCV~480-251083/4		8260C				1 uL	1 uL
LCS~480-251083/5		8260C			12.5 uL	1 uL	1 uL
MB~480-251083/7		8260C				1 uL	1 uL
480-82783-C-2	RW-7	8260C	T			1 uL	1 uL
480-82812-A-1	GB218E-15-RPS	8260C	T			1 uL	1 uL
480-82812-A-2	GB218E-15-PDB	8260C	T			1 uL	1 uL
480-82812-A-3	GB206E-15-PDB	8260C	T			1 uL	1 uL
480-82815-F-1	MW-8	8260C	T			1 uL	1 uL
480-82815-F-2	MW-7	8260C	T			1 uL	1 uL
480-82815-F-2~MS	MW-7	8260C	T		12.5 uL	1 uL	1 uL
480-82815-F-2~MS D	MW-7	8260C	T		12.5 uL	1 uL	1 uL
480-82815-A-3	MW-6	8260C	T			1 uL	1 uL
480-82815-A-4	MW-9	8260C	T			1 uL	1 uL
480-82815-F-5	MW-10	8260C	T			1 uL	1 uL
480-82815-F-6	MW-18	8260C	T			1 uL	1 uL
480-82815-F-7	MW-19	8260C	T			1 uL	1 uL
480-82815-F-8	DUPLICATE	8260C	T			1 uL	1 uL
480-82815-A-9	TRIP BLANK	8260C	T			1 uL	1 uL
480-83014-A-1	WELL-1-3	8260C	T			1 uL	1 uL
480-83014-A-2	WELL-1-2A	8260C	T			1 uL	1 uL
480-83014-A-3	TRIP BLANK 6/25/15	8260C	T			1 uL	1 uL

Shipping and Receiving Documents

07/06/2015

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-83014-1

Login Number: 83014

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

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	ARCADIS
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	



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5A0145

Town of Vestal

Bill Peltz
701 Vestal Parkway West
Vestal, NY 13850-1363

Project Name: Monthly

Project / PO Number: N/A
Received: 01/20/2015 14:00
Reported: 01/31/2015 13:25

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Lab Sample ID: J5A0145-01
Sample Type: Grab

Collection Date: 01/20/15
Collection Time: 11:33
Collected By: Deron Biechele

Microbac Laboratories, Inc., Center Valley

Volatile Organic Compounds - GC/MS

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
Bromobenzene	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
Bromochloromethane	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
n-Butylbenzene	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
tert-Butylbenzene	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
sec-Butylbenzene	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
Carbon tetrachloride	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
Chlorobenzene	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
Chloroethane (Ethyl chloride)	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
2-Chlorotoluene	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
4-Chlorotoluene	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
Dibromomethane (Methylene bromide)	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
1,2-Dichlorobenzene	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
1,4-Dichlorobenzene	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
1,3-Dichlorobenzene	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
Dichlorodifluoromethane (Freon-12)	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
1,1-Dichloroethane	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
1,2-Dichloroethane	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
1,1-Dichloroethene	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
cis-1,2-Dichloroethene	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
trans-1,2-Dichloroethene	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
2,2-Dichloropropane	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
1,2-Dichloropropane	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
1,3-Dichloropropane	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
cis-1,3-Dichloropropene	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
trans-1,3-Dichloropropene	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
1,1-Dichloropropene	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
Ethylbenzene	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
Hexachlorobutadiene	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
Isopropylbenzene (Cumene)	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
Methyl bromide (Bromomethane)	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
Methyl tert-butyl ether (MTBE)	<0.500	10	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
Methyl chloride (Chloromethane)	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
Methylene chloride (Dichloromethane)	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN

Microbac Laboratories, Inc.

3821 Buck Dr. | Cortland, NY 13045 | 607-753-3403 p | www.microbac.com



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5A0145

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Lab Sample ID: J5A0145-01
Sample Type: Grab

Collection Date: 01/20/15
Collection Time: 11:33
Collected By: Deron Biechele

Microbac Laboratories, Inc., Center Valley

Volatile Organic Compounds - GC/MS

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Naphthalene	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
n-Propylbenzene	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
Styrene	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
1,1,2,2-Tetrachloroethane	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
1,1,1,2-Tetrachloroethane	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
Tetrachloroethene	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
Toluene	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
1,2,4-Trichlorobenzene	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
1,2,3-Trichlorobenzene	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
1,1,2-Trichloroethane	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
1,1,1-Trichloroethane	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
Trichloroethene	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
Trichlorofluoromethane (Freon 11)	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
1,2,3-Trichloropropane	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
1,3,5-Trimethylbenzene	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
1,2,4-Trimethylbenzene	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
Vinyl chloride	<0.500	2	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
m,p-Xylene	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
o-Xylene	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
Xylenes (total)	<0.500	5	0.500	ug/L		01/23/15 1211	01/23/15 1211	DRN
4-Bromofluorobenzene	91.4		70-130	% Rec		01/23/15 1211	01/23/15 1211	DRN
1,2-Dichlorobenzene-d4	90.0		70-130	% Rec		01/23/15 1211	01/23/15 1211	DRN



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5A0145

Analytical Testing Parameters

Client Sample ID: 1-2A Finished
Lab Sample ID: J5A0145-02
Sample Type: Grab

Collection Date: 01/20/15
Collection Time: 11:37
Collected By: Deron Biechele

Microbac Laboratories, Inc., Center Valley

Volatile Organic Compounds - GC/MS

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
Bromobenzene	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
Bromochloromethane	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
n-Butylbenzene	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
tert-Butylbenzene	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
sec-Butylbenzene	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
Carbon tetrachloride	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
Chlorobenzene	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
Chloroethane (Ethyl chloride)	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
2-Chlorotoluene	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
4-Chlorotoluene	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
Dibromomethane (Methylene bromide)	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
1,2-Dichlorobenzene	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
1,4-Dichlorobenzene	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
1,3-Dichlorobenzene	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
Dichlorodifluoromethane (Freon-12)	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
1,1-Dichloroethane	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
1,2-Dichloroethane	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
1,1-Dichloroethene	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
cis-1,2-Dichloroethene	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
trans-1,2-Dichloroethene	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
2,2-Dichloropropane	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
1,2-Dichloropropane	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
1,3-Dichloropropane	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
cis-1,3-Dichloropropene	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
trans-1,3-Dichloropropene	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
1,1-Dichloropropene	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
Ethylbenzene	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
Hexachlorobutadiene	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
Isopropylbenzene (Cumene)	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
Methyl bromide (Bromomethane)	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
Methyl tert-butyl ether (MTBE)	<0.500	10	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
Methyl chloride (Chloromethane)	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
Methylene chloride (Dichloromethane)	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
Naphthalene	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
n-Propylbenzene	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
Styrene	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
1,1,2,2-Tetrachloroethane	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
1,1,1,2-Tetrachloroethane	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN

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CERTIFICATE OF ANALYSIS

J5A0145

Analytical Testing Parameters

Client Sample ID: 1-2A Finished
Lab Sample ID: J5A0145-02
Sample Type: Grab

Collection Date: 01/20/15
Collection Time: 11:37
Collected By: Deron Biechele

Microbac Laboratories, Inc., Center Valley

Volatile Organic Compounds - GC/MS

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Tetrachloroethene	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
Toluene	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
1,2,4-Trichlorobenzene	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
1,2,3-Trichlorobenzene	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
1,1,2-Trichloroethane	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
1,1,1-Trichloroethane	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
Trichloroethene	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
Trichlorofluoromethane (Freon 11)	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
1,2,3-Trichloropropane	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
1,3,5-Trimethylbenzene	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
1,2,4-Trimethylbenzene	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
Vinyl chloride	<0.500	2	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
m,p-Xylene	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
o-Xylene	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
Xylenes (total)	<0.500	5	0.500	ug/L		01/23/15 1235	01/23/15 1235	DRN
4-Bromofluorobenzene	91.8		70-130	% Rec		01/23/15 1235	01/23/15 1235	DRN
1,2-Dichlorobenzene-d4	91.2		70-130	% Rec		01/23/15 1235	01/23/15 1235	DRN



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5A0145

Analytical Testing Parameters

Client Sample ID: 1-3 Raw
Lab Sample ID: J5A0145-03
Sample Type: Grab

Collection Date: 01/20/15
Collection Time: 11:42
Collected By: Deron Biechele

Microbac Laboratories, Inc., Center Valley

Volatile Organic Compounds - GC/MS

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
Bromobenzene	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
Bromochloromethane	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
n-Butylbenzene	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
tert-Butylbenzene	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
sec-Butylbenzene	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
Carbon tetrachloride	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
Chlorobenzene	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
Chloroethane (Ethyl chloride)	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
2-Chlorotoluene	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
4-Chlorotoluene	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
Dibromomethane (Methylene bromide)	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
1,2-Dichlorobenzene	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
1,4-Dichlorobenzene	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
1,3-Dichlorobenzene	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
Dichlorodifluoromethane (Freon-12)	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
1,1-Dichloroethane	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
1,2-Dichloroethane	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
1,1-Dichloroethene	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
cis-1,2-Dichloroethene	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
trans-1,2-Dichloroethene	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
2,2-Dichloropropane	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
1,2-Dichloropropane	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
1,3-Dichloropropane	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
cis-1,3-Dichloropropene	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
trans-1,3-Dichloropropene	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
1,1-Dichloropropene	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
Ethylbenzene	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
Hexachlorobutadiene	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
Isopropylbenzene (Cumene)	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
Methyl bromide (Bromomethane)	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
Methyl tert-butyl ether (MTBE)	<0.500	10	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
Methyl chloride (Chloromethane)	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
Methylene chloride (Dichloromethane)	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
Naphthalene	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
n-Propylbenzene	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
Styrene	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
1,1,2,2-Tetrachloroethane	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
1,1,1,2-Tetrachloroethane	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN

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CERTIFICATE OF ANALYSIS

J5A0145

Analytical Testing Parameters

Client Sample ID: 1-3 Raw
Lab Sample ID: J5A0145-03
Sample Type: Grab

Collection Date: 01/20/15
Collection Time: 11:42
Collected By: Deron Biechele

Microbac Laboratories, Inc., Center Valley

Volatile Organic Compounds - GC/MS

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Tetrachloroethene	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
Toluene	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
1,2,4-Trichlorobenzene	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
1,2,3-Trichlorobenzene	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
1,1,2-Trichloroethane	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
1,1,1-Trichloroethane	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
Trichloroethene	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
Trichlorofluoromethane (Freon 11)	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
1,2,3-Trichloropropane	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
1,3,5-Trimethylbenzene	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
1,2,4-Trimethylbenzene	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
Vinyl chloride	<0.500	2	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
m,p-Xylene	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
o-Xylene	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
Xylenes (total)	<0.500	5	0.500	ug/L		01/23/15 1259	01/23/15 1259	DRN
4-Bromofluorobenzene	90.6		70-130	% Rec		01/23/15 1259	01/23/15 1259	DRN
1,2-Dichlorobenzene-d4	92.4		70-130	% Rec		01/23/15 1259	01/23/15 1259	DRN



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5A0145

Analytical Testing Parameters

Client Sample ID: 1-3 Finished
Lab Sample ID: J5A0145-04
Sample Type: Grab

Collection Date: 01/20/15
Collection Time: 11:47
Collected By: Deron Biechele

Microbac Laboratories, Inc., Center Valley

Volatile Organic Compounds - GC/MS

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
Bromobenzene	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
Bromochloromethane	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
n-Butylbenzene	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
tert-Butylbenzene	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
sec-Butylbenzene	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
Carbon tetrachloride	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
Chlorobenzene	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
Chloroethane (Ethyl chloride)	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
2-Chlorotoluene	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
4-Chlorotoluene	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
Dibromomethane (Methylene bromide)	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
1,2-Dichlorobenzene	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
1,4-Dichlorobenzene	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
1,3-Dichlorobenzene	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
Dichlorodifluoromethane (Freon-12)	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
1,1-Dichloroethane	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
1,2-Dichloroethane	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
1,1-Dichloroethene	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
cis-1,2-Dichloroethene	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
trans-1,2-Dichloroethene	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
2,2-Dichloropropane	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
1,2-Dichloropropane	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
1,3-Dichloropropane	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
cis-1,3-Dichloropropene	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
trans-1,3-Dichloropropene	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
1,1-Dichloropropene	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
Ethylbenzene	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
Hexachlorobutadiene	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
Isopropylbenzene (Cumene)	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
Methyl bromide (Bromomethane)	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
Methyl tert-butyl ether (MTBE)	<0.500	10	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
Methyl chloride (Chloromethane)	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
Methylene chloride (Dichloromethane)	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
Naphthalene	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
n-Propylbenzene	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
Styrene	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
1,1,2,2-Tetrachloroethane	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
1,1,1,2-Tetrachloroethane	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN

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CERTIFICATE OF ANALYSIS

J5A0145

Analytical Testing Parameters

Client Sample ID: 1-3 Finished
Lab Sample ID: J5A0145-04
Sample Type: Grab

Collection Date: 01/20/15
Collection Time: 11:47
Collected By: Deron Biechele

Microbac Laboratories, Inc., Center Valley

Volatile Organic Compounds - GC/MS

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Tetrachloroethene	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
Toluene	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
1,2,4-Trichlorobenzene	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
1,2,3-Trichlorobenzene	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
1,1,2-Trichloroethane	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
1,1,1-Trichloroethane	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
Trichloroethene	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
Trichlorofluoromethane (Freon 11)	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
1,2,3-Trichloropropane	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
1,3,5-Trimethylbenzene	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
1,2,4-Trimethylbenzene	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
Vinyl chloride	<0.500	2	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
m,p-Xylene	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
o-Xylene	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
Xylenes (total)	<0.500	5	0.500	ug/L		01/23/15 1323	01/23/15 1323	DRN
4-Bromofluorobenzene	92.2		70-130	% Rec		01/23/15 1323	01/23/15 1323	DRN
1,2-Dichlorobenzene-d4	91.0		70-130	% Rec		01/23/15 1323	01/23/15 1323	DRN



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5A0145

Analytical Testing Parameters

Client Sample ID: 4-2 Raw
Lab Sample ID: J5A0145-05
Sample Type: Grab

Collection Date: 01/20/15
Collection Time: 11:03
Collected By: Deron Biechele

Microbac Laboratories, Inc., Center Valley

Volatile Organic Compounds - GC/MS

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
Bromobenzene	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
Bromochloromethane	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
n-Butylbenzene	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
tert-Butylbenzene	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
sec-Butylbenzene	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
Carbon tetrachloride	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
Chlorobenzene	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
Chloroethane (Ethyl chloride)	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
2-Chlorotoluene	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
4-Chlorotoluene	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
Dibromomethane (Methylene bromide)	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
1,2-Dichlorobenzene	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
1,4-Dichlorobenzene	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
1,3-Dichlorobenzene	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
Dichlorodifluoromethane (Freon-12)	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
1,1-Dichloroethane	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
1,2-Dichloroethane	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
1,1-Dichloroethene	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
cis-1,2-Dichloroethene	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
trans-1,2-Dichloroethene	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
2,2-Dichloropropane	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
1,2-Dichloropropane	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
1,3-Dichloropropane	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
cis-1,3-Dichloropropene	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
trans-1,3-Dichloropropene	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
1,1-Dichloropropene	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
Ethylbenzene	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
Hexachlorobutadiene	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
Isopropylbenzene (Cumene)	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
Methyl bromide (Bromomethane)	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
Methyl tert-butyl ether (MTBE)	<0.500	10	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
Methyl chloride (Chloromethane)	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
Methylene chloride (Dichloromethane)	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
Naphthalene	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
n-Propylbenzene	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
Styrene	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
1,1,2,2-Tetrachloroethane	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
1,1,1,2-Tetrachloroethane	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN

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CERTIFICATE OF ANALYSIS

J5A0145

Analytical Testing Parameters

Client Sample ID: 4-2 Raw
Lab Sample ID: J5A0145-05
Sample Type: Grab

Collection Date: 01/20/15
Collection Time: 11:03
Collected By: Deron Biechele

Microbac Laboratories, Inc., Center Valley

Volatile Organic Compounds - GC/MS

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Tetrachloroethene	0.790	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
Toluene	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
1,2,4-Trichlorobenzene	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
1,2,3-Trichlorobenzene	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
1,1,2-Trichloroethane	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
1,1,1-Trichloroethane	1.01	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
Trichloroethene	1.14	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
Trichlorofluoromethane (Freon 11)	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
1,2,3-Trichloropropane	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
1,3,5-Trimethylbenzene	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
1,2,4-Trimethylbenzene	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
Vinyl chloride	<0.500	2	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
m,p-Xylene	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
o-Xylene	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
Xylenes (total)	<0.500	5	0.500	ug/L		01/23/15 1347	01/23/15 1347	DRN
4-Bromofluorobenzene	89.6		70-130	% Rec		01/23/15 1347	01/23/15 1347	DRN
1,2-Dichlorobenzene-d4	86.4		70-130	% Rec		01/23/15 1347	01/23/15 1347	DRN



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5A0145

Analytical Testing Parameters

Client Sample ID: 4-2 Finished
Lab Sample ID: J5A0145-06
Sample Type: Grab

Collection Date: 01/20/15
Collection Time: 11:08
Collected By: Deron Biechele

Microbac Laboratories, Inc., Center Valley

Volatile Organic Compounds - GC/MS

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
Bromobenzene	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
Bromochloromethane	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
n-Butylbenzene	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
tert-Butylbenzene	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
sec-Butylbenzene	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
Carbon tetrachloride	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
Chlorobenzene	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
Chloroethane (Ethyl chloride)	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
2-Chlorotoluene	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
4-Chlorotoluene	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
Dibromomethane (Methylene bromide)	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
1,2-Dichlorobenzene	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
1,4-Dichlorobenzene	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
1,3-Dichlorobenzene	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
Dichlorodifluoromethane (Freon-12)	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
1,1-Dichloroethane	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
1,2-Dichloroethane	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
1,1-Dichloroethene	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
cis-1,2-Dichloroethene	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
trans-1,2-Dichloroethene	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
2,2-Dichloropropane	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
1,2-Dichloropropane	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
1,3-Dichloropropane	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
cis-1,3-Dichloropropene	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
trans-1,3-Dichloropropene	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
1,1-Dichloropropene	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
Ethylbenzene	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
Hexachlorobutadiene	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
Isopropylbenzene (Cumene)	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
Methyl bromide (Bromomethane)	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
Methyl tert-butyl ether (MTBE)	<0.500	10	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
Methyl chloride (Chloromethane)	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
Methylene chloride (Dichloromethane)	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
Naphthalene	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
n-Propylbenzene	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
Styrene	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
1,1,2,2-Tetrachloroethane	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
1,1,1,2-Tetrachloroethane	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN

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CERTIFICATE OF ANALYSIS

J5A0145

Analytical Testing Parameters

Client Sample ID: 4-2 Finished
Lab Sample ID: J5A0145-06
Sample Type: Grab

Collection Date: 01/20/15
Collection Time: 11:08
Collected By: Deron Biechele

Microbac Laboratories, Inc., Center Valley

Volatile Organic Compounds - GC/MS

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Tetrachloroethene	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
Toluene	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
1,2,4-Trichlorobenzene	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
1,2,3-Trichlorobenzene	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
1,1,2-Trichloroethane	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
1,1,1-Trichloroethane	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
Trichloroethene	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
Trichlorofluoromethane (Freon 11)	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
1,2,3-Trichloropropane	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
1,3,5-Trimethylbenzene	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
1,2,4-Trimethylbenzene	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
Vinyl chloride	<0.500	2	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
m,p-Xylene	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
o-Xylene	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
Xylenes (total)	<0.500	5	0.500	ug/L		01/23/15 1411	01/23/15 1411	DRN
4-Bromofluorobenzene	87.8		70-130	% Rec		01/23/15 1411	01/23/15 1411	DRN
1,2-Dichlorobenzene-d4	88.4		70-130	% Rec		01/23/15 1411	01/23/15 1411	DRN



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5A0145

Analytical Testing Parameters

Client Sample ID: Trip Blank
Lab Sample ID: J5A0145-07
Sample Type: Trip Blank

Collection Date: 01/20/15
Collection Time: 11:08
Collected By: Deron Biechele

Microbac Laboratories, Inc., Center Valley

Volatile Organic Compounds - GC/MS

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
Bromobenzene	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
Bromochloromethane	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
n-Butylbenzene	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
tert-Butylbenzene	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
sec-Butylbenzene	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
Carbon tetrachloride	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
Chlorobenzene	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
Chloroethane (Ethyl chloride)	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
2-Chlorotoluene	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
4-Chlorotoluene	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
Dibromomethane (Methylene bromide)	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
1,2-Dichlorobenzene	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
1,4-Dichlorobenzene	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
1,3-Dichlorobenzene	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
Dichlorodifluoromethane (Freon-12)	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
1,1-Dichloroethane	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
1,2-Dichloroethane	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
1,1-Dichloroethene	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
cis-1,2-Dichloroethene	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
trans-1,2-Dichloroethene	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
2,2-Dichloropropane	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
1,2-Dichloropropane	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
1,3-Dichloropropane	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
cis-1,3-Dichloropropene	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
trans-1,3-Dichloropropene	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
1,1-Dichloropropene	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
Ethylbenzene	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
Hexachlorobutadiene	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
Isopropylbenzene (Cumene)	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
Methyl bromide (Bromomethane)	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
Methyl tert-butyl ether (MTBE)	<0.500	10	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
Methyl chloride (Chloromethane)	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
Methylene chloride (Dichloromethane)	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
Naphthalene	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
n-Propylbenzene	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
Styrene	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
1,1,2,2-Tetrachloroethane	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
1,1,1,2-Tetrachloroethane	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN

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CERTIFICATE OF ANALYSIS

J5A0145

Analytical Testing Parameters

Client Sample ID: Trip Blank
Lab Sample ID: J5A0145-07
Sample Type: Trip Blank

Collection Date: 01/20/15
Collection Time: 11:08
Collected By: Deron Biechele

Microbac Laboratories, Inc., Center Valley

Volatile Organic Compounds - GC/MS

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Tetrachloroethene	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
Toluene	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
1,2,4-Trichlorobenzene	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
1,2,3-Trichlorobenzene	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
1,1,2-Trichloroethane	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
1,1,1-Trichloroethane	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
Trichloroethene	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
Trichlorofluoromethane (Freon 11)	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
1,2,3-Trichloropropane	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
1,3,5-Trimethylbenzene	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
1,2,4-Trimethylbenzene	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
Vinyl chloride	<0.500	2	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
m,p-Xylene	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
o-Xylene	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
Xylenes (total)	<0.500	5	0.500	ug/L		01/26/15 1403	01/26/15 1403	DRN
4-Bromofluorobenzene	88.6		70-130	% Rec		01/26/15 1403	01/26/15 1403	DRN
1,2-Dichlorobenzene-d4	87.0		70-130	% Rec		01/26/15 1403	01/26/15 1403	DRN

Definitions

PQL: Practical Quantitation Limit
MCL: Maximum Contamination Level

Cooler Receipt Log:

Cooler ID:	Default Cooler	Received On Ice (or not required):	Yes
Cooler Temp:	3.9 °C	Preservation Correct (or not required):	Yes
COC/Labels Agree:	Yes	Custody Seals Intact and/or No Evidence of Tampering	Yes
Containers Intact:	Yes		

Project Requested Certification(s):

Certificate ID
Microbac Laboratories, Inc., Center Valley
NY Lab ID No.: 11827, Serial No.: 50876

Agency
New York State Department of Health



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5A0145

Report Comments:

In accordance with NYSDOH-ELAP and NELAC, any non-conformance of these regulations are noted directly on the laboratory as qualifiers and/or noted in the case narrative.

Reviewed and Approved By:

Michael Fifield
Division Manager

Go Green:

Contact to set up email reporting and invoicing options.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included.

For any feedback concerning our services, please contact Michael Fifield listed above at or 607-753-3403. You may also contact Trevor Boyce President, at president@microbac.com.

Microbac Laboratories, Inc.
CHAIN OF CUSTODY

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5C0298

Town of Vestal

Project Name: Town of Vestal Monthly

Bill Peltz
701 Vestal Parkway West
Vestal, NY 13850-1363

Project / PO Number: N/A
Received: 03/12/2015 16:00
Reported: 03/31/2015 22:12

Analytical Testing Parameters

Client Sample ID: 1-3 Raw
Lab Sample ID: J5C0298-03
Sample Type: Grab

Collection Date: 03/12/15
Collection Time: 11:22
Collected By: DJB-Lab

Microbac Laboratories, Inc. Dayville (NY 11549)

524.2 - Purgeable Organic Compounds in water, Capillary Column, GC/MS

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: 524.2								
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
1,1,1-Trichloroethane	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
1,1,2-Trichloroethane	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
1,1-Dichloroethane	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
1,1-Dichloroethene	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
1,1-Dichloropropene	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
1,2,3-Trichlorobenzene	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
1,2,3-Trichloropropane	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
1,2,3-Trimethylbenzene	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
1,2,4-Trichlorobenzene	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
1,2,4-Trimethylbenzene	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
1,2-Dibromo-3-chloropropane (DBCP)	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
1,2-Dibromoethane (EDB)	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
1,2-Dichlorobenzene	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
1,2-Dichloroethane	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
1,2-Dichloropropane	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
1,3,5-Trimethylbenzene	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
1,3-Dichlorobenzene	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
1,3-Dichloropropane	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
1,4-Dichlorobenzene	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
2,2-Dichloropropane	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
2-Chlorotoluene	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
4-Chlorotoluene	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
4-Isopropyltoluene	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
Benzene	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
Bromobenzene	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
Bromochloromethane	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
Bromodichloromethane	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
Bromoform	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
Bromomethane	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
Carbon tetrachloride	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
Chlorobenzene	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
Chloroethane	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
Chloroform	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD

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CERTIFICATE OF ANALYSIS

J5C0298

Analytical Testing Parameters

Client Sample ID: 1-3 Raw
Lab Sample ID: J5C0298-03
Sample Type: Grab

Collection Date: 03/12/15
Collection Time: 11:22
Collected By: DJB-Lab

Microbac Laboratories, Inc. Dayville (NY 11549)

524.2 - Purgeable Organic Compounds in water, Capillary Column, GC/MS

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Chloromethane	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
cis-1,2-Dichloroethene	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
cis-1,3-Dichloropropene	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
Dibromochloromethane	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
Dibromomethane	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
Dichlorodifluoromethane	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
Ethylbenzene	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
Hexachlorobutadiene	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
Isopropylbenzene	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
Methyl tert-butyl ether (MTBE)	<1.0		1.0	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
Methylene chloride	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
Naphthalene	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
n-Butylbenzene	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
n-Propylbenzene	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
sec-Butylbenzene	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
Styrene	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
tert-Butylbenzene	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
Tetrachloroethene (PCE)	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
Toluene	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
trans-1,2-Dichloroethene	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
trans-1,3-Dichloropropene	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
Trichloroethene (TCE)	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
Trichlorofluoromethane	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
Vinyl chloride	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
Xylenes (total)	<0.50		0.50	ug/L	U	03/20/15 1433	03/20/15 1433	RSD
1,2-Dichlorobenzene-d4	97		70-130	% Rec		03/20/15 1433	03/20/15 1433	RSD
Bromofluorobenzene	108		70-130	% Rec		03/20/15 1433	03/20/15 1433	RSD



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5C0298

Analytical Testing Parameters

Client Sample ID: 1-3 Finished
Lab Sample ID: J5C0298-04
Sample Type: Grab

Collection Date: 03/12/15
Collection Time: 11:31
Collected By: DJB-Lab

Microbac Laboratories, Inc. Dayville (NY 11549)

524.2 - Purgeable Organic Compounds in water, Capillary Column, GC/MS

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: 524.2								
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
1,1,1-Trichloroethane	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
1,1,2-Trichloroethane	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
1,1-Dichloroethane	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
1,1-Dichloroethene	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
1,1-Dichloropropene	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
1,2,3-Trichlorobenzene	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
1,2,3-Trichloropropane	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
1,2,3-Trimethylbenzene	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
1,2,4-Trichlorobenzene	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
1,2,4-Trimethylbenzene	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
1,2-Dibromo-3-chloropropane (DBCP)	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
1,2-Dibromoethane (EDB)	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
1,2-Dichlorobenzene	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
1,2-Dichloroethane	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
1,2-Dichloropropane	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
1,3,5-Trimethylbenzene	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
1,3-Dichlorobenzene	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
1,3-Dichloropropane	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
1,4-Dichlorobenzene	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
2,2-Dichloropropane	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
2-Chlorotoluene	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
4-Chlorotoluene	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
4-Isopropyltoluene	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
Benzene	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
Bromobenzene	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
Bromochloromethane	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
Bromodichloromethane	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
Bromoform	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
Bromomethane	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
Carbon tetrachloride	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
Chlorobenzene	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
Chloroethane	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
Chloroform	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
Chloromethane	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
cis-1,2-Dichloroethene	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
cis-1,3-Dichloropropene	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
Dibromochloromethane	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
Dibromomethane	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD

Microbac Laboratories, Inc.

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5C0298

Analytical Testing Parameters

Client Sample ID: 1-3 Finished
Lab Sample ID: J5C0298-04
Sample Type: Grab

Collection Date: 03/12/15
Collection Time: 11:31
Collected By: DJB-Lab

Microbac Laboratories, Inc. Dayville (NY 11549)

524.2 - Purgeable Organic Compounds in water, Capillary Column, GC/MS

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
Ethylbenzene	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
Hexachlorobutadiene	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
Isopropylbenzene	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
Methyl tert-butyl ether (MTBE)	<1.0		1.0	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
Methylene chloride	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
Naphthalene	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
n-Butylbenzene	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
n-Propylbenzene	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
sec-Butylbenzene	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
Styrene	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
tert-Butylbenzene	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
Tetrachloroethene (PCE)	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
Toluene	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
trans-1,2-Dichloroethene	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
trans-1,3-Dichloropropene	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
Trichloroethene (TCE)	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
Trichlorofluoromethane	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
Vinyl chloride	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
Xylenes (total)	<0.50		0.50	ug/L	U	03/20/15 1456	03/20/15 1456	RSD
1,2-Dichlorobenzene-d4	100		70-130	% Rec		03/20/15 1456	03/20/15 1456	RSD
Bromofluorobenzene	110		70-130	% Rec		03/20/15 1456	03/20/15 1456	RSD



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5C0298

Analytical Testing Parameters

Client Sample ID: 4-2 Raw
Lab Sample ID: J5C0298-05
Sample Type: Grab

Collection Date: 03/12/15
Collection Time: 10:45
Collected By: DJB-Lab

Microbac Laboratories, Inc. Dayville (NY 11549)

524.2 - Purgeable Organic Compounds in water, Capillary Column, GC/MS

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: 524.2								
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
1,1,1-Trichloroethane	0.76		0.50	ug/L		03/20/15 1519	03/20/15 1519	RSD
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
1,1,2-Trichloroethane	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
1,1-Dichloroethane	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
1,1-Dichloroethene	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
1,1-Dichloropropene	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
1,2,3-Trichlorobenzene	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
1,2,3-Trichloropropane	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
1,2,3-Trimethylbenzene	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
1,2,4-Trichlorobenzene	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
1,2,4-Trimethylbenzene	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
1,2-Dibromo-3-chloropropane (DBCP)	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
1,2-Dibromoethane (EDB)	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
1,2-Dichlorobenzene	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
1,2-Dichloroethane	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
1,2-Dichloropropane	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
1,3,5-Trimethylbenzene	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
1,3-Dichlorobenzene	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
1,3-Dichloropropane	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
1,4-Dichlorobenzene	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
2,2-Dichloropropane	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
2-Chlorotoluene	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
4-Chlorotoluene	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
4-Isopropyltoluene	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
Benzene	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
Bromobenzene	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
Bromochloromethane	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
Bromodichloromethane	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
Bromoform	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
Bromomethane	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
Carbon tetrachloride	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
Chlorobenzene	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
Chloroethane	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
Chloroform	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
Chloromethane	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
cis-1,2-Dichloroethene	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
cis-1,3-Dichloropropene	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
Dibromochloromethane	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
Dibromomethane	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD

Microbac Laboratories, Inc.

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5C0298

Analytical Testing Parameters

Client Sample ID: 4-2 Raw
Lab Sample ID: J5C0298-05
Sample Type: Grab

Collection Date: 03/12/15
Collection Time: 10:45
Collected By: DJB-Lab

Microbac Laboratories, Inc. Dayville (NY 11549)

524.2 - Purgeable Organic Compounds in water, Capillary Column, GC/MS

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
Ethylbenzene	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
Hexachlorobutadiene	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
Isopropylbenzene	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
Methyl tert-butyl ether (MTBE)	<1.0		1.0	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
Methylene chloride	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
Naphthalene	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
n-Butylbenzene	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
n-Propylbenzene	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
sec-Butylbenzene	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
Styrene	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
tert-Butylbenzene	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
Tetrachloroethene (PCE)	0.62		0.50	ug/L		03/20/15 1519	03/20/15 1519	RSD
Toluene	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
trans-1,2-Dichloroethene	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
trans-1,3-Dichloropropene	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
Trichloroethene (TCE)	1.3		0.50	ug/L		03/20/15 1519	03/20/15 1519	RSD
Trichlorofluoromethane	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
Vinyl chloride	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
Xylenes (total)	<0.50		0.50	ug/L	U	03/20/15 1519	03/20/15 1519	RSD
1,2-Dichlorobenzene-d4	98		70-130	% Rec		03/20/15 1519	03/20/15 1519	RSD
Bromofluorobenzene	108		70-130	% Rec		03/20/15 1519	03/20/15 1519	RSD



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5C0298

Analytical Testing Parameters

Client Sample ID: 4-2 Finished
Lab Sample ID: J5C0298-06
Sample Type: Grab

Collection Date: 03/12/15
Collection Time: 10:55
Collected By: DJB-Lab

Microbac Laboratories, Inc. Dayville (NY 11549)

524.2 - Purgeable Organic Compounds in water, Capillary Column, GC/MS

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: 524.2								
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
1,1,1-Trichloroethane	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
1,1,2-Trichloroethane	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
1,1-Dichloroethane	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
1,1-Dichloroethene	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
1,1-Dichloropropene	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
1,2,3-Trichlorobenzene	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
1,2,3-Trichloropropane	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
1,2,3-Trimethylbenzene	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
1,2,4-Trichlorobenzene	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
1,2,4-Trimethylbenzene	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
1,2-Dibromo-3-chloropropane (DBCP)	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
1,2-Dibromoethane (EDB)	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
1,2-Dichlorobenzene	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
1,2-Dichloroethane	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
1,2-Dichloropropane	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
1,3,5-Trimethylbenzene	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
1,3-Dichlorobenzene	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
1,3-Dichloropropane	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
1,4-Dichlorobenzene	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
2,2-Dichloropropane	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
2-Chlorotoluene	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
4-Chlorotoluene	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
4-Isopropyltoluene	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
Benzene	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
Bromobenzene	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
Bromochloromethane	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
Bromodichloromethane	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
Bromoform	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
Bromomethane	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
Carbon tetrachloride	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
Chlorobenzene	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
Chloroethane	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
Chloroform	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
Chloromethane	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
cis-1,2-Dichloroethene	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
cis-1,3-Dichloropropene	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
Dibromochloromethane	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
Dibromomethane	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5C0298

Analytical Testing Parameters

Client Sample ID: 4-2 Finished
Lab Sample ID: J5C0298-06
Sample Type: Grab

Collection Date: 03/12/15
Collection Time: 10:55
Collected By: DJB-Lab

Microbac Laboratories, Inc. Dayville (NY 11549)

524.2 - Purgeable Organic Compounds in water, Capillary Column, GC/MS

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
Ethylbenzene	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
Hexachlorobutadiene	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
Isopropylbenzene	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
Methyl tert-butyl ether (MTBE)	<1.0		1.0	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
Methylene chloride	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
Naphthalene	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
n-Butylbenzene	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
n-Propylbenzene	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
sec-Butylbenzene	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
Styrene	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
tert-Butylbenzene	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
Tetrachloroethene (PCE)	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
Toluene	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
trans-1,2-Dichloroethene	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
trans-1,3-Dichloropropene	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
Trichloroethene (TCE)	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
Trichlorofluoromethane	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
Vinyl chloride	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
Xylenes (total)	<0.50		0.50	ug/L	U	03/20/15 1542	03/20/15 1542	RSD
1,2-Dichlorobenzene-d4	96		70-130	% Rec		03/20/15 1542	03/20/15 1542	RSD
Bromofluorobenzene	109		70-130	% Rec		03/20/15 1542	03/20/15 1542	RSD

Definitions

U: Below Detection Limit
PQL: Practical Quantitation Limit
MCL: Maximum Contamination Level

Cooler Receipt Log:

Cooler ID:	Default Cooler	Received On Ice (or not required):	Yes
Cooler Temp:	4.3 °C	Preservation Correct (or not required):	Yes
COC/Labels Agree:	Yes	Custody Seals Intact and/or No Evidence of Tampering	Yes
Containers Intact:	Yes		



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5C0298

Report Comments:

In accordance with NYSDOH-ELAP and NELAC, any non-conformance of these regulations are noted directly on the laboratory as qualifiers and/or noted in the case narrative.

Reviewed and Approved By:

Michael Fifield
Division Manager

Go Green:

Contact to set up email reporting and invoicing options.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included.

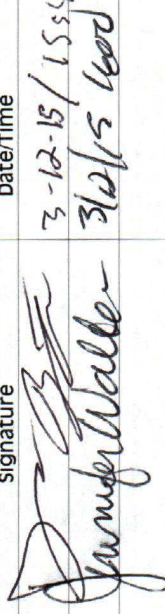
For any feedback concerning our services, please contact Michael Fifield listed above at or 607-753-3403. You may also contact Trevor Boyce President, at president@microbac.com.

3821 Buck Drive
Cortland NY 13045
Phone: (607) 753-3403 Fax: (607) 753-3415
NY #10796, EPA #NY00935

Microbac Laboratories, Inc.

CHAIN OF CUSTODY

Client Information			Billing/Invoice:			Analysis Requested			Receiving Info (Lab Use Only)		
Name:	Town Of Vestal								Ice:	YES	NO
Address:	701 Vestal PKWY, West Vestal, NY 13850-1363								Cooler:	YES	NO
Contact:	Scott Groats								Sample Temp:	4.3	
Phone:	607-748-7574 Ext: 357								Cooler Seal:	YES	NO
Project:	Monthly								Pickup:	YES	NO
Quote ID:	PO#:								Dropoff:	C	W
Rush TAT Bus. Days:	<2 2-5 5-7 7-10								Accepted?	YES	NO
Carbon Copy:	Yes								Container Material		
Email Results:	Yes								Container Size (in MI)		
Fax Results:	Yes								Preservative		
Sample Information			Matrix			Number of Containers for Analysis Requested			Comments/Field Data		
Description/Location	Date	Time	Initial	Type							
1 1-2A Raw				DW							
2 1-2A Finished				G							
3 1-3 Raw				DW							
4 1-3 Finished				G							
5 4-2 Raw				DW							
6 4-2 Finished				G							
7 Trip Blank				DW							
8				G							

Print Name and Company		Signature	Date/Time	Comments
Sampled:	Deron Biechele/Microbac Cortland NY		3-12-15/1554	
ceived:			3/12/15 6:00	
ceived:				
ceived:				

Microbac Laboratories (MNY) may be unable to perform a portion of the requested testing in which case we will subcontract the analysis to another accredited laboratory. By signing this document you are attesting that you have been informed by MNY of the intent to subcontract and are in agreement with this action.



J5C0298



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5D0220

Town of Vestal

Project Name: Town of Vestal Monthly

Bill Peltz
701 Vestal Parkway West
Vestal, NY 13850-1363

Project / PO Number: N/A
Received: 04/09/2015 16:04
Reported: 04/27/2015 21:45

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Lab Sample ID: J5D0220-01
Sample Type: Grab

Collected By: DJB-Lab
Collection Date: 04/09/15
Collection Time: 08:46

Benchmark Analytics Sayre, A Microbac Laboratory

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
Bromobenzene	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
Bromochloromethane	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
n-Butylbenzene	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
Chlorobenzene	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
Ethylbenzene	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
Methyl tert-butyl ether (MTBE)	<0.500	10.0	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
Naphthalene	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5D0220

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Lab Sample ID: J5D0220-01
Sample Type: Grab

Collected By: DJB-Lab
Collection Date: 04/09/15
Collection Time: 08:46

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
n-Propylbenzene	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
Styrene	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
Tetrachloroethene	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
Toluene	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
Trichloroethene	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
Vinyl chloride	<0.500	2.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
m,p-Xylene	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
o-Xylene	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
Xylenes (total)	<0.500	5.00	0.500	ug/L		04/14/15 2237	04/14/15 2237	RJH
Surrogate: 4-Bromofluorobenzene	82.2		Limit: 70-130	% Rec		04/14/15 2237	04/14/15 2237	RJH
Surrogate: 1,2-Dichlorobenzene-d4	79.4		Limit: 70-130	% Rec		04/14/15 2237	04/14/15 2237	RJH



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5D0220

Analytical Testing Parameters

Client Sample ID: 1-2A Finished
Lab Sample ID: J5D0220-02
Sample Type: Grab

Collected By: DJB-Lab
Collection Date: 04/09/15
Collection Time: 08:50

Benchmark Analytics Sayre, A Microbac Laboratory

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
Bromobenzene	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
Bromochloromethane	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
n-Butylbenzene	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
Chlorobenzene	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
Ethylbenzene	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
Methyl tert-butyl ether (MTBE)	<0.500	10.0	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
Naphthalene	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
n-Propylbenzene	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
Styrene	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
Tetrachloroethene	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5D0220

Analytical Testing Parameters

Client Sample ID: 1-2A Finished
Lab Sample ID: J5D0220-02
Sample Type: Grab

Collected By: DJB-Lab
Collection Date: 04/09/15
Collection Time: 08:50

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Toluene	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
Trichloroethene	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
Vinyl chloride	<0.500	2.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
m,p-Xylene	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
o-Xylene	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
Xylenes (total)	<0.500	5.00	0.500	ug/L		04/14/15 2309	04/14/15 2309	RJH
Surrogate: 4-Bromofluorobenzene	81.6		Limit: 70-130	% Rec		04/14/15 2309	04/14/15 2309	RJH
Surrogate: 1,2-Dichlorobenzene-d4	83.4		Limit: 70-130	% Rec		04/14/15 2309	04/14/15 2309	RJH



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5D0220

Analytical Testing Parameters

Client Sample ID: 1-3 Raw
Lab Sample ID: J5D0220-03
Sample Type: Grab

Collected By: DJB-Lab
Collection Date: 04/09/15
Collection Time: 08:54

Benchmark Analytics Sayre, A Microbac Laboratory

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
Bromobenzene	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
Bromochloromethane	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
n-Butylbenzene	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
Chlorobenzene	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
Ethylbenzene	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
Methyl tert-butyl ether (MTBE)	<0.500	10.0	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
Naphthalene	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
n-Propylbenzene	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
Styrene	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
Tetrachloroethene	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5D0220

Analytical Testing Parameters

Client Sample ID: 1-3 Raw
Lab Sample ID: J5D0220-03
Sample Type: Grab

Collected By: DJB-Lab
Collection Date: 04/09/15
Collection Time: 08:54

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Toluene	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
Trichloroethene	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
Vinyl chloride	<0.500	2.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
m,p-Xylene	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
o-Xylene	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
Xylenes (total)	<0.500	5.00	0.500	ug/L		04/14/15 2341	04/14/15 2341	RJH
Surrogate: 4-Bromofluorobenzene	80.6		Limit: 70-130	% Rec		04/14/15 2341	04/14/15 2341	RJH
Surrogate: 1,2-Dichlorobenzene-d4	81.6		Limit: 70-130	% Rec		04/14/15 2341	04/14/15 2341	RJH



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5D0220

Analytical Testing Parameters

Client Sample ID: 1-3 Finished
Lab Sample ID: J5D0220-04
Sample Type: Grab

Collected By: DJB-Lab
Collection Date: 04/09/15
Collection Time: 08:58

Benchmark Analytics Sayre, A Microbac Laboratory

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
Bromobenzene	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
Bromochloromethane	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
n-Butylbenzene	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
Chlorobenzene	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
Ethylbenzene	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
Methyl tert-butyl ether (MTBE)	<0.500	10.0	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
Naphthalene	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
n-Propylbenzene	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
Styrene	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
Tetrachloroethene	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5D0220

Analytical Testing Parameters

Client Sample ID: 1-3 Finished
Lab Sample ID: J5D0220-04
Sample Type: Grab

Collected By: DJB-Lab
Collection Date: 04/09/15
Collection Time: 08:58

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Toluene	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
Trichloroethene	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
Vinyl chloride	<0.500	2.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
m,p-Xylene	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
o-Xylene	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
Xylenes (total)	<0.500	5.00	0.500	ug/L		04/15/15 0012	04/15/15 0012	RJH
Surrogate: 4-Bromofluorobenzene	80.0		Limit: 70-130	% Rec		04/15/15 0012	04/15/15 0012	RJH
Surrogate: 1,2-Dichlorobenzene-d4	83.8		Limit: 70-130	% Rec		04/15/15 0012	04/15/15 0012	RJH



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5D0220

Analytical Testing Parameters

Client Sample ID: 4-2 Raw
Lab Sample ID: J5D0220-05
Sample Type: Grab

Collected By: DJB-Lab
Collection Date: 04/09/15
Collection Time: 09:11

Benchmark Analytics Sayre, A Microbac Laboratory

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
Bromobenzene	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
Bromochloromethane	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
n-Butylbenzene	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
Chlorobenzene	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
Ethylbenzene	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
Methyl tert-butyl ether (MTBE)	<0.500	10.0	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
Naphthalene	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
n-Propylbenzene	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
Styrene	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
Tetrachloroethene	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5D0220

Analytical Testing Parameters

Client Sample ID: 4-2 Raw
Lab Sample ID: J5D0220-05
Sample Type: Grab

Collected By: DJB-Lab
Collection Date: 04/09/15
Collection Time: 09:11

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Toluene	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
1,1,1-Trichloroethane	0.510	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
Trichloroethene	0.600	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
Vinyl chloride	<0.500	2.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
m,p-Xylene	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
o-Xylene	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
Xylenes (total)	<0.500	5.00	0.500	ug/L		04/15/15 0044	04/15/15 0044	RJH
Surrogate: 4-Bromofluorobenzene	88.0		Limit: 70-130	% Rec		04/15/15 0044	04/15/15 0044	RJH
Surrogate: 1,2-Dichlorobenzene-d4	79.8		Limit: 70-130	% Rec		04/15/15 0044	04/15/15 0044	RJH



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5D0220

Analytical Testing Parameters

Client Sample ID: 4-2 Finished
Lab Sample ID: J5D0220-06
Sample Type: Grab

Collected By: DJB-Lab
Collection Date: 04/09/15
Collection Time: 09:17

Benchmark Analytics Sayre, A Microbac Laboratory

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
Bromobenzene	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
Bromochloromethane	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
n-Butylbenzene	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
Chlorobenzene	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
Ethylbenzene	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
Methyl tert-butyl ether (MTBE)	<0.500	10.0	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
Naphthalene	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
n-Propylbenzene	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
Styrene	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
Tetrachloroethene	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5D0220

Analytical Testing Parameters

Client Sample ID: 4-2 Finished
Lab Sample ID: J5D0220-06
Sample Type: Grab

Collected By: DJB-Lab
Collection Date: 04/09/15
Collection Time: 09:17

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Toluene	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
Trichloroethene	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
Vinyl chloride	<0.500	2.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
m,p-Xylene	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
o-Xylene	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
Xylenes (total)	<0.500	5.00	0.500	ug/L		04/15/15 0116	04/15/15 0116	RJH
Surrogate: 4-Bromofluorobenzene	85.0		Limit: 70-130	% Rec		04/15/15 0116	04/15/15 0116	RJH
Surrogate: 1,2-Dichlorobenzene-d4	75.4		Limit: 70-130	% Rec		04/15/15 0116	04/15/15 0116	RJH



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5D0220

Analytical Testing Parameters

Client Sample ID: Trip Blank
Lab Sample ID: J5D0220-07
Sample Type: Trip Blank

Collected By: DJB-Lab
Collection Date: 04/09/15
Collection Time: 09:17

Benchmark Analytics Sayre, A Microbac Laboratory

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
Bromobenzene	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
Bromochloromethane	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
n-Butylbenzene	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
Chlorobenzene	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
Ethylbenzene	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
Methyl tert-butyl ether (MTBE)	<0.500	10.0	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
Naphthalene	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
n-Propylbenzene	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
Styrene	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
Tetrachloroethene	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5D0220

Analytical Testing Parameters

Client Sample ID: Trip Blank
Lab Sample ID: J5D0220-07
Sample Type: Trip Blank

Collected By: DJB-Lab
Collection Date: 04/09/15
Collection Time: 09:17

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Toluene	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
Trichloroethene	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
Vinyl chloride	<0.500	2.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
m,p-Xylene	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
o-Xylene	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
Xylenes (total)	<0.500	5.00	0.500	ug/L		04/15/15 0147	04/15/15 0147	RJH
Surrogate: 4-Bromofluorobenzene	79.0		Limit: 70-130	% Rec		04/15/15 0147	04/15/15 0147	RJH
Surrogate: 1,2-Dichlorobenzene-d4	85.6		Limit: 70-130	% Rec		04/15/15 0147	04/15/15 0147	RJH

Definitions

MCL: Maximum Contaminant Level
PQL: Practical Quantitation Limit

Cooler Receipt Log:

Cooler ID:	Default Cooler	Received On Ice (or not required):	Yes
Cooler Temp:	4.0 °C	Preservation Correct (or not required):	Yes
COC/Labels Agree:	Yes	Custody Seals Intact and/or No Evidence of Tampering	Yes
Containers Intact:	Yes		

Project Requested Certification(s):

Benchmark Analytics Sayre, A Microbac Laboratory
NY-Sayre NYSDOH NY Lab ID No.: 11216

New York State Department of Health

Report Comments:

In accordance with NYSDOH-ELAP and NELAC, any non-conformance of these regulations are noted directly on the laboratory report as qualifiers and/or noted in the case narrative.

Reviewed and Approved By:

Michael Fifield
Division Manager
04/27/2015 21:45

Go Green: Contact Michael Fifield to set up email reporting and invoicing options.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included.

For any feedback concerning our services, please contact Michael Fifield listed above at michael.fifield@microbac.com or 607-753-3403. You may also contact Trevor Boyce President, at president@microbac.com.

Microbac Laboratories, Inc.

3821 Buck Dr. | Cortland, NY 13045 | 607-753-3403 p | www.microbac.com

Page 14 of 15

3821 Buck Drive
Cortland NY 13045
Phone: (607) 753-3403 Fax: (607) 753-3415
NY #10795, EPA #NY00935

Microbac Laboratories, Inc. CHAIN OF CUSTODY

Client Information		Billing/Invoice:		Analysis Requested				Receiving Info (Lab Use Only)	
Name:	Town Of Vestal							Ice: YES NO	
Address:	701 Vestal PKWY, West Vestal, NY 13850-1363							Cooler: YES NO	
Contact:	Scott Groats							Sample Temp: 4.0	
Phone:	607-748-7574 Ext: 357							Cooler Seal: YES NO	
Project:	Monthly							Pickup: YES NO	
Quote ID:	PO#:							Dropoff: C W	
Rush TAT Bus. Days: < 2 2-5 5-7 7-10		Date Req.:						Accepted? YES NO	
Carbon Copy: Yes								Container Material	
Email Results: Yes								Container Size (in MI)	
Fax Results: Yes								Preservative	
Sample Information				Number of Containers for Analysis Requested				Comments/Field Notes	
Description/Location	Date	Time	Initial	Matrix	Type				
1 1-2A Raw	4-9-15	0846	DJB	DW	DW	2			
				G	G				
2 1-2A Finished		0850		DW	DW	2			
				G	G				
3 1-3 Raw		0854		DW	DW	2			
				G	G				
4 1-3 Finished		0858		DW	DW	2			
				G	G				
5 4-2 Raw		0911		DW	DW	2			
				G	G				
6 4-2 Finished		0917		DW	DW	2			
				G	G				
7 Trip Blank		0917		DW	DW	1			
				G	G				
8									
Print Name and Company				Signature		Date/Time		Comments	
Sampled: Deron Biechele/Microbac Cortland NY				DJB		4-9-15/1604			
Received:									
Received:									
Received:									



J5D0220

Microbac Laboratories (MNY) may be unable to perform a portion of the requested testing in which case we will subcontract the analysis to another accredited laboratory.
By signing this document you are attesting that you have been informed by MNY of the intent to subcontract and are in agreement with this action.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5E0267

Town of Vestal

Project Name: Town of Vestal Monthly

Bill Peltz
701 Vestal Parkway West
Vestal, NY 13850-1363

Project / PO Number: N/A
Received: 05/12/2015 12:00
Reported: 05/25/2015 11:15

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Lab Sample ID: J5E0267-01
Sample Type: Grab

Collected By: DJB-Lab
Collection Date: 05/12/15
Collection Time: 11:00

Microbac Laboratories, Inc. - Central Pennsylvania

VOLATILE ORGANIC COMPOUNDS	Result	Limit	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2								
1,1,1,2-Tetrachloroethane	<0.000500		0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
1,1,1-Trichloroethane	<0.000500	0.200	0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
1,1,2,2-Tetrachloroethane	<0.000500		0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
1,1,2-Trichloroethane	<0.000500	0.00200	0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
1,1-Dichloroethane	<0.000500		0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
1,1-Dichloroethene	<0.000500	0.00700	0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
1,1-Dichloropropene	<0.000500		0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
1,2,3-Trichlorobenzene	<0.000500		0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
1,2,3-Trichloropropane	<0.000500		0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
1,2,4-Trichlorobenzene	<0.000500	0.0700	0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
1,2,4-Trimethylbenzene	<0.000500		0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
1,2-Dichlorobenzene	<0.000500	0.0750	0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
1,2-Dichloroethane	<0.000500	0.00500	0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
1,2-Dichloropropane	<0.000500	0.00500	0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
1,3,5-Trimethylbenzene	<0.000500		0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
1,3-Dichlorobenzene	<0.000500		0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
1,3-Dichloropropane	<0.000500		0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
1,4-Dichlorobenzene	<0.000500	0.600	0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
2,2-Dichloropropane	<0.000500		0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
2-Chlorotoluene	<0.000500		0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
4-Chlorotoluene	<0.000500		0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
4-Isopropyltoluene	<0.000500		0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
Benzene	<0.000500	0.00500	0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
Bromobenzene	<0.000500		0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
Bromochloromethane	<0.000500		0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
Bromodichloromethane	<0.000500		0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
Bromoform	<0.000500		0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
Bromomethane	<0.000500		0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
Carbon Tetrachloride	<0.000500	0.00500	0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
Chlorobenzene	<0.000500	0.100	0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
Chloroethane	<0.000500		0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
Chloroform	<0.000500		0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
Chloromethane	<0.000500		0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
cis-1,2-Dichloroethene	<0.000500	0.0700	0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
cis-1,3-Dichloropropene	<0.000500		0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
Dibromochloromethane	<0.000500		0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5E0267

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Lab Sample ID: J5E0267-01
Sample Type: Grab

Collected By: DJB-Lab
Collection Date: 05/12/15
Collection Time: 11:00

VOLATILE ORGANIC COMPOUNDS	Result	Limit	PQL	Units	Note	Prepared	Analyzed	Analyst
Dibromomethane	<0.000500		0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
Dichlorodifluoromethane	<0.000500		0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
Ethylbenzene	<0.000500	0.700	0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
Hexachlorobutadiene	<0.000500		0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
m,p-Xylene	<0.00100		0.00100	mg/L		05/19/15 1437	05/19/15 1437	PFH
Methylene Chloride	0.00100	0.00500	0.00100	mg/L		05/19/15 1437	05/19/15 1437	PFH
Methyl-tert-Butyl Ether	<0.000500		0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
Naphthalene	<0.000500		0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
n-Butyl Benzene	<0.000500		0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
n-Propyl Benzene	<0.000500		0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
o-Xylene	<0.000500		0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
sec-Butylbenzene	<0.000500		0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
Styrene	<0.000500	0.100	0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
tert-Butylbenzene	<0.00100		0.00100	mg/L		05/19/15 1437	05/19/15 1437	PFH
Tetrachloroethene	<0.000500	0.00500	0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
Toluene	<0.000500	1.00	0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
Total Xylenes	<0.00150	10.0	0.00150	mg/L		05/19/15 1437	05/19/15 1437	PFH
trans-1,2-Dichloroethene	<0.000500	0.100	0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
trans-1,3-Dichloropropene	<0.000500		0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
Trichloroethene	<0.000500	0.00500	0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
Trichlorofluoromethane	<0.000500		0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
Vinyl chloride	<0.000500	0.00200	0.000500	mg/L		05/19/15 1437	05/19/15 1437	PFH
Surrogate: 1,2-Dichlorobenzene-d4	102		Limit: 70-130	% Rec		05/19/15 1437	05/19/15 1437	PFH
Surrogate: 4-Bromofluorobenzene	99.0		Limit: 70-130	% Rec		05/19/15 1437	05/19/15 1437	PFH



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5E0267

Analytical Testing Parameters

Client Sample ID: 1-2A Finished
Lab Sample ID: J5E0267-02
Sample Type: Grab

Collected By: DJB-Lab
Collection Date: 05/12/15
Collection Time: 11:05

Microbac Laboratories, Inc. - Central Pennsylvania

VOLATILE ORGANIC COMPOUNDS	Result	Limit	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2								
1,1,1,2-Tetrachloroethane	<0.000500		0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
1,1,1-Trichloroethane	<0.000500	0.200	0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
1,1,2,2-Tetrachloroethane	<0.000500		0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
1,1,2-Trichloroethane	<0.000500	0.00200	0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
1,1-Dichloroethane	<0.000500		0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
1,1-Dichloroethene	<0.000500	0.00700	0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
1,1-Dichloropropene	<0.000500		0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
1,2,3-Trichlorobenzene	<0.000500		0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
1,2,3-Trichloropropane	<0.000500		0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
1,2,4-Trichlorobenzene	<0.000500	0.0700	0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
1,2,4-Trimethylbenzene	<0.000500		0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
1,2-Dichlorobenzene	<0.000500	0.0750	0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
1,2-Dichloroethane	<0.000500	0.00500	0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
1,2-Dichloropropane	<0.000500	0.00500	0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
1,3,5-Trimethylbenzene	<0.000500		0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
1,3-Dichlorobenzene	<0.000500		0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
1,3-Dichloropropane	<0.000500		0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
1,4-Dichlorobenzene	<0.000500	0.600	0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
2,2-Dichloropropane	<0.000500		0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
2-Chlorotoluene	<0.000500		0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
4-Chlorotoluene	<0.000500		0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
4-Isopropyltoluene	<0.000500		0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
Benzene	<0.000500	0.00500	0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
Bromobenzene	<0.000500		0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
Bromochloromethane	<0.000500		0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
Bromodichloromethane	<0.000500		0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
Bromoform	<0.000500		0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
Bromomethane	<0.000500		0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
Carbon Tetrachloride	<0.000500	0.00500	0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
Chlorobenzene	<0.000500	0.100	0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
Chloroethane	<0.000500		0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
Chloroform	<0.000500		0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
Chloromethane	<0.000500		0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
cis-1,2-Dichloroethene	<0.000500	0.0700	0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
cis-1,3-Dichloropropene	<0.000500		0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
Dibromochloromethane	<0.000500		0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
Dibromomethane	<0.000500		0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
Dichlorodifluoromethane	<0.000500		0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
Ethylbenzene	<0.000500	0.700	0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
Hexachlorobutadiene	<0.000500		0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
m,p-Xylene	<0.00100		0.00100	mg/L		05/19/15 1504	05/19/15 1504	PFH

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5E0267

Analytical Testing Parameters

Client Sample ID: 1-2A Finished
Lab Sample ID: J5E0267-02
Sample Type: Grab

Collected By: DJB-Lab
Collection Date: 05/12/15
Collection Time: 11:05

VOLATILE ORGANIC COMPOUNDS	Result	Limit	PQL	Units	Note	Prepared	Analyzed	Analyst
Methylene Chloride	<0.00100	0.00500	0.00100	mg/L		05/19/15 1504	05/19/15 1504	PFH
Methyl-tert-Butyl Ether	<0.000500		0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
Naphthalene	<0.000500		0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
n-Butyl Benzene	<0.000500		0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
n-Propyl Benzene	<0.000500		0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
o-Xylene	<0.000500		0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
sec-Butylbenzene	<0.000500		0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
Styrene	<0.000500	0.100	0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
tert-Butylbenzene	<0.00100		0.00100	mg/L		05/19/15 1504	05/19/15 1504	PFH
Tetrachloroethene	<0.000500	0.00500	0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
Toluene	<0.000500	1.00	0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
Total Xylenes	<0.00150	10.0	0.00150	mg/L		05/19/15 1504	05/19/15 1504	PFH
trans-1,2-Dichloroethene	<0.000500	0.100	0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
trans-1,3-Dichloropropene	<0.000500		0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
Trichloroethene	<0.000500	0.00500	0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
Trichlorofluoromethane	<0.000500		0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
Vinyl chloride	<0.000500	0.00200	0.000500	mg/L		05/19/15 1504	05/19/15 1504	PFH
Surrogate: 1,2-Dichlorobenzene-d4	105		Limit: 70-130	% Rec		05/19/15 1504	05/19/15 1504	PFH
Surrogate: 4-Bromofluorobenzene	101		Limit: 70-130	% Rec		05/19/15 1504	05/19/15 1504	PFH



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5E0267

Analytical Testing Parameters

Client Sample ID: 1-3 Raw
Lab Sample ID: J5E0267-03
Sample Type: Grab

Collected By: DJB-Lab
Collection Date: 05/12/15
Collection Time: 11:15

Microbac Laboratories, Inc. - Central Pennsylvania

VOLATILE ORGANIC COMPOUNDS	Result	Limit	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2								
1,1,1,2-Tetrachloroethane	<0.000500		0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
1,1,1-Trichloroethane	<0.000500	0.200	0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
1,1,2,2-Tetrachloroethane	<0.000500		0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
1,1,2-Trichloroethane	<0.000500	0.00200	0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
1,1-Dichloroethane	<0.000500		0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
1,1-Dichloroethene	<0.000500	0.00700	0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
1,1-Dichloropropene	<0.000500		0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
1,2,3-Trichlorobenzene	<0.000500		0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
1,2,3-Trichloropropane	<0.000500		0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
1,2,4-Trichlorobenzene	<0.000500	0.0700	0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
1,2,4-Trimethylbenzene	<0.000500		0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
1,2-Dichlorobenzene	<0.000500	0.0750	0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
1,2-Dichloroethane	<0.000500	0.00500	0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
1,2-Dichloropropane	<0.000500	0.00500	0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
1,3,5-Trimethylbenzene	<0.000500		0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
1,3-Dichlorobenzene	<0.000500		0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
1,3-Dichloropropane	<0.000500		0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
1,4-Dichlorobenzene	<0.000500	0.600	0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
2,2-Dichloropropane	<0.000500		0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
2-Chlorotoluene	<0.000500		0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
4-Chlorotoluene	<0.000500		0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
4-Isopropyltoluene	<0.000500		0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
Benzene	<0.000500	0.00500	0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
Bromobenzene	<0.000500		0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
Bromochloromethane	<0.000500		0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
Bromodichloromethane	<0.000500		0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
Bromoform	<0.000500		0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
Bromomethane	<0.000500		0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
Carbon Tetrachloride	<0.000500	0.00500	0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
Chlorobenzene	<0.000500	0.100	0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
Chloroethane	<0.000500		0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
Chloroform	<0.000500		0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
Chloromethane	<0.000500		0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
cis-1,2-Dichloroethene	<0.000500	0.0700	0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
cis-1,3-Dichloropropene	<0.000500		0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
Dibromochloromethane	<0.000500		0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
Dibromomethane	<0.000500		0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
Dichlorodifluoromethane	<0.000500		0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
Ethylbenzene	<0.000500	0.700	0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
Hexachlorobutadiene	<0.000500		0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
m,p-Xylene	<0.00100		0.00100	mg/L		05/19/15 1531	05/19/15 1531	PFH

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5E0267

Analytical Testing Parameters

Client Sample ID: 1-3 Raw
Lab Sample ID: J5E0267-03
Sample Type: Grab

Collected By: DJB-Lab
Collection Date: 05/12/15
Collection Time: 11:15

VOLATILE ORGANIC COMPOUNDS	Result	Limit	PQL	Units	Note	Prepared	Analyzed	Analyst
Methylene Chloride	<0.00100	0.00500	0.00100	mg/L		05/19/15 1531	05/19/15 1531	PFH
Methyl-tert-Butyl Ether	<0.000500		0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
Naphthalene	<0.000500		0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
n-Butyl Benzene	<0.000500		0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
n-Propyl Benzene	<0.000500		0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
o-Xylene	<0.000500		0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
sec-Butylbenzene	<0.000500		0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
Styrene	<0.000500	0.100	0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
tert-Butylbenzene	<0.00100		0.00100	mg/L		05/19/15 1531	05/19/15 1531	PFH
Tetrachloroethene	<0.000500	0.00500	0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
Toluene	<0.000500	1.00	0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
Total Xylenes	<0.00150	10.0	0.00150	mg/L		05/19/15 1531	05/19/15 1531	PFH
trans-1,2-Dichloroethene	<0.000500	0.100	0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
trans-1,3-Dichloropropene	<0.000500		0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
Trichloroethene	<0.000500	0.00500	0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
Trichlorofluoromethane	<0.000500		0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
Vinyl chloride	<0.000500	0.00200	0.000500	mg/L		05/19/15 1531	05/19/15 1531	PFH
Surrogate: 1,2-Dichlorobenzene-d4	102		Limit: 70-130	% Rec		05/19/15 1531	05/19/15 1531	PFH
Surrogate: 4-Bromofluorobenzene	99.9		Limit: 70-130	% Rec		05/19/15 1531	05/19/15 1531	PFH



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5E0267

Analytical Testing Parameters

Client Sample ID: 1-3 Finished
Lab Sample ID: J5E0267-04
Sample Type: Grab

Collected By: DJB-Lab
Collection Date: 05/12/15
Collection Time: 11:20

Microbac Laboratories, Inc. - Central Pennsylvania

VOLATILE ORGANIC COMPOUNDS	Result	Limit	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2								
1,1,1,2-Tetrachloroethane	<0.000500		0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
1,1,1-Trichloroethane	<0.000500	0.200	0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
1,1,2,2-Tetrachloroethane	<0.000500		0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
1,1,2-Trichloroethane	<0.000500	0.00200	0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
1,1-Dichloroethane	<0.000500		0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
1,1-Dichloroethene	<0.000500	0.00700	0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
1,1-Dichloropropene	<0.000500		0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
1,2,3-Trichlorobenzene	<0.000500		0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
1,2,3-Trichloropropane	<0.000500		0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
1,2,4-Trichlorobenzene	<0.000500	0.0700	0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
1,2,4-Trimethylbenzene	<0.000500		0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
1,2-Dichlorobenzene	<0.000500	0.0750	0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
1,2-Dichloroethane	<0.000500	0.00500	0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
1,2-Dichloropropane	<0.000500	0.00500	0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
1,3,5-Trimethylbenzene	<0.000500		0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
1,3-Dichlorobenzene	<0.000500		0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
1,3-Dichloropropane	<0.000500		0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
1,4-Dichlorobenzene	<0.000500	0.600	0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
2,2-Dichloropropane	<0.000500		0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
2-Chlorotoluene	<0.000500		0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
4-Chlorotoluene	<0.000500		0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
4-Isopropyltoluene	<0.000500		0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
Benzene	<0.000500	0.00500	0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
Bromobenzene	<0.000500		0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
Bromochloromethane	<0.000500		0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
Bromodichloromethane	<0.000500		0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
Bromoform	<0.000500		0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
Bromomethane	<0.000500		0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
Carbon Tetrachloride	<0.000500	0.00500	0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
Chlorobenzene	<0.000500	0.100	0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
Chloroethane	<0.000500		0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
Chloroform	<0.000500		0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
Chloromethane	<0.000500		0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
cis-1,2-Dichloroethene	<0.000500	0.0700	0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
cis-1,3-Dichloropropene	<0.000500		0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
Dibromochloromethane	<0.000500		0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
Dibromomethane	<0.000500		0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
Dichlorodifluoromethane	<0.000500		0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
Ethylbenzene	<0.000500	0.700	0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
Hexachlorobutadiene	<0.000500		0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
m,p-Xylene	<0.00100		0.00100	mg/L		05/19/15 1558	05/19/15 1558	PFH

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5E0267

Analytical Testing Parameters

Client Sample ID: 1-3 Finished
Lab Sample ID: J5E0267-04
Sample Type: Grab

Collected By: DJB-Lab
Collection Date: 05/12/15
Collection Time: 11:20

VOLATILE ORGANIC COMPOUNDS	Result	Limit	PQL	Units	Note	Prepared	Analyzed	Analyst
Methylene Chloride	<0.00100	0.00500	0.00100	mg/L		05/19/15 1558	05/19/15 1558	PFH
Methyl-tert-Butyl Ether	<0.000500		0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
Naphthalene	<0.000500		0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
n-Butyl Benzene	<0.000500		0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
n-Propyl Benzene	<0.000500		0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
o-Xylene	<0.000500		0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
sec-Butylbenzene	<0.000500		0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
Styrene	<0.000500	0.100	0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
tert-Butylbenzene	<0.00100		0.00100	mg/L		05/19/15 1558	05/19/15 1558	PFH
Tetrachloroethene	<0.000500	0.00500	0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
Toluene	<0.000500	1.00	0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
Total Xylenes	<0.00150	10.0	0.00150	mg/L		05/19/15 1558	05/19/15 1558	PFH
trans-1,2-Dichloroethene	<0.000500	0.100	0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
trans-1,3-Dichloropropene	<0.000500		0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
Trichloroethene	<0.000500	0.00500	0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
Trichlorofluoromethane	<0.000500		0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
Vinyl chloride	<0.000500	0.00200	0.000500	mg/L		05/19/15 1558	05/19/15 1558	PFH
Surrogate: 1,2-Dichlorobenzene-d4	104		Limit: 70-130	% Rec		05/19/15 1558	05/19/15 1558	PFH
Surrogate: 4-Bromofluorobenzene	102		Limit: 70-130	% Rec		05/19/15 1558	05/19/15 1558	PFH



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5E0267

Analytical Testing Parameters

Client Sample ID: 4-2 Raw
Lab Sample ID: J5E0267-05
Sample Type: Grab

Collected By: DJB-Lab
Collection Date: 05/12/15
Collection Time: 10:40

Microbac Laboratories, Inc. - Central Pennsylvania

VOLATILE ORGANIC COMPOUNDS	Result	Limit	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2								
1,1,1,2-Tetrachloroethane	<0.000500		0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
1,1,1-Trichloroethane	0.000935	0.200	0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
1,1,2,2-Tetrachloroethane	<0.000500		0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
1,1,2-Trichloroethane	<0.000500	0.00200	0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
1,1-Dichloroethane	<0.000500		0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
1,1-Dichloroethene	<0.000500	0.00700	0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
1,1-Dichloropropene	<0.000500		0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
1,2,3-Trichlorobenzene	<0.000500		0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
1,2,3-Trichloropropane	<0.000500		0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
1,2,4-Trichlorobenzene	<0.000500	0.0700	0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
1,2,4-Trimethylbenzene	<0.000500		0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
1,2-Dichlorobenzene	<0.000500	0.0750	0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
1,2-Dichloroethane	<0.000500	0.00500	0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
1,2-Dichloropropane	<0.000500	0.00500	0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
1,3,5-Trimethylbenzene	<0.000500		0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
1,3-Dichlorobenzene	<0.000500		0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
1,3-Dichloropropane	<0.000500		0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
1,4-Dichlorobenzene	<0.000500	0.600	0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
2,2-Dichloropropane	<0.000500		0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
2-Chlorotoluene	<0.000500		0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
4-Chlorotoluene	<0.000500		0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
4-Isopropyltoluene	<0.000500		0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
Benzene	<0.000500	0.00500	0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
Bromobenzene	<0.000500		0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
Bromochloromethane	<0.000500		0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
Bromodichloromethane	<0.000500		0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
Bromoform	<0.000500		0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
Bromomethane	<0.000500		0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
Carbon Tetrachloride	<0.000500	0.00500	0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
Chlorobenzene	<0.000500	0.100	0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
Chloroethane	<0.000500		0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
Chloroform	<0.000500		0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
Chloromethane	<0.000500		0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
cis-1,2-Dichloroethene	<0.000500	0.0700	0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
cis-1,3-Dichloropropene	<0.000500		0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
Dibromochloromethane	<0.000500		0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
Dibromomethane	<0.000500		0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
Dichlorodifluoromethane	<0.000500		0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
Ethylbenzene	<0.000500	0.700	0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
Hexachlorobutadiene	<0.000500		0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
m,p-Xylene	<0.00100		0.00100	mg/L		05/19/15 1626	05/19/15 1626	PFH

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5E0267

Analytical Testing Parameters

Client Sample ID: 4-2 Raw
Lab Sample ID: J5E0267-05
Sample Type: Grab

Collected By: DJB-Lab
Collection Date: 05/12/15
Collection Time: 10:40

VOLATILE ORGANIC COMPOUNDS	Result	Limit	PQL	Units	Note	Prepared	Analyzed	Analyst
Methylene Chloride	<0.00100	0.00500	0.00100	mg/L		05/19/15 1626	05/19/15 1626	PFH
Methyl-tert-Butyl Ether	<0.000500		0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
Naphthalene	<0.000500		0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
n-Butyl Benzene	<0.000500		0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
n-Propyl Benzene	<0.000500		0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
o-Xylene	<0.000500		0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
sec-Butylbenzene	<0.000500		0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
Styrene	<0.000500	0.100	0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
tert-Butylbenzene	<0.00100		0.00100	mg/L		05/19/15 1626	05/19/15 1626	PFH
Tetrachloroethene	0.000732	0.00500	0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
Toluene	<0.000500	1.00	0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
Total Xylenes	<0.00150	10.0	0.00150	mg/L		05/19/15 1626	05/19/15 1626	PFH
trans-1,2-Dichloroethene	<0.000500	0.100	0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
trans-1,3-Dichloropropene	<0.000500		0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
Trichloroethene	0.00111	0.00500	0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
Trichlorofluoromethane	<0.000500		0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
Vinyl chloride	<0.000500	0.00200	0.000500	mg/L		05/19/15 1626	05/19/15 1626	PFH
Surrogate: 1,2-Dichlorobenzene-d4	106		Limit: 70-130	% Rec		05/19/15 1626	05/19/15 1626	PFH
Surrogate: 4-Bromofluorobenzene	101		Limit: 70-130	% Rec		05/19/15 1626	05/19/15 1626	PFH



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5E0267

Analytical Testing Parameters

Client Sample ID: 4-2 Finished
Lab Sample ID: J5E0267-06
Sample Type: Grab

Collected By: DJB-Lab
Collection Date: 05/12/15
Collection Time: 10:45

Microbac Laboratories, Inc. - Central Pennsylvania

VOLATILE ORGANIC COMPOUNDS	Result	Limit	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2								
1,1,1,2-Tetrachloroethane	<0.000500		0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
1,1,1-Trichloroethane	<0.000500	0.200	0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
1,1,2,2-Tetrachloroethane	<0.000500		0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
1,1,2-Trichloroethane	<0.000500	0.00200	0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
1,1-Dichloroethane	<0.000500		0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
1,1-Dichloroethene	<0.000500	0.00700	0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
1,1-Dichloropropene	<0.000500		0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
1,2,3-Trichlorobenzene	<0.000500		0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
1,2,3-Trichloropropane	<0.000500		0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
1,2,4-Trichlorobenzene	<0.000500	0.0700	0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
1,2,4-Trimethylbenzene	<0.000500		0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
1,2-Dichlorobenzene	<0.000500	0.0750	0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
1,2-Dichloroethane	<0.000500	0.00500	0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
1,2-Dichloropropane	<0.000500	0.00500	0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
1,3,5-Trimethylbenzene	<0.000500		0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
1,3-Dichlorobenzene	<0.000500		0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
1,3-Dichloropropane	<0.000500		0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
1,4-Dichlorobenzene	<0.000500	0.600	0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
2,2-Dichloropropane	<0.000500		0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
2-Chlorotoluene	<0.000500		0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
4-Chlorotoluene	<0.000500		0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
4-Isopropyltoluene	<0.000500		0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
Benzene	<0.000500	0.00500	0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
Bromobenzene	<0.000500		0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
Bromochloromethane	<0.000500		0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
Bromodichloromethane	<0.000500		0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
Bromoform	<0.000500		0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
Bromomethane	<0.000500		0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
Carbon Tetrachloride	<0.000500	0.00500	0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
Chlorobenzene	<0.000500	0.100	0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
Chloroethane	<0.000500		0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
Chloroform	<0.000500		0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
Chloromethane	<0.000500		0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
cis-1,2-Dichloroethene	<0.000500	0.0700	0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
cis-1,3-Dichloropropene	<0.000500		0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
Dibromochloromethane	<0.000500		0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
Dibromomethane	<0.000500		0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
Dichlorodifluoromethane	<0.000500		0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
Ethylbenzene	<0.000500	0.700	0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
Hexachlorobutadiene	<0.000500		0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
m,p-Xylene	<0.00100		0.00100	mg/L		05/19/15 1653	05/19/15 1653	PFH

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5E0267

Analytical Testing Parameters

Client Sample ID: 4-2 Finished
Lab Sample ID: J5E0267-06
Sample Type: Grab

Collected By: DJB-Lab
Collection Date: 05/12/15
Collection Time: 10:45

VOLATILE ORGANIC COMPOUNDS	Result	Limit	PQL	Units	Note	Prepared	Analyzed	Analyst
Methylene Chloride	<0.00100	0.00500	0.00100	mg/L		05/19/15 1653	05/19/15 1653	PFH
Methyl-tert-Butyl Ether	<0.000500		0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
Naphthalene	<0.000500		0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
n-Butyl Benzene	<0.000500		0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
n-Propyl Benzene	<0.000500		0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
o-Xylene	<0.000500		0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
sec-Butylbenzene	<0.000500		0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
Styrene	<0.000500	0.100	0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
tert-Butylbenzene	<0.00100		0.00100	mg/L		05/19/15 1653	05/19/15 1653	PFH
Tetrachloroethene	<0.000500	0.00500	0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
Toluene	<0.000500	1.00	0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
Total Xylenes	<0.00150	10.0	0.00150	mg/L		05/19/15 1653	05/19/15 1653	PFH
trans-1,2-Dichloroethene	<0.000500	0.100	0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
trans-1,3-Dichloropropene	<0.000500		0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
Trichloroethene	<0.000500	0.00500	0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
Trichlorofluoromethane	<0.000500		0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
Vinyl chloride	<0.000500	0.00200	0.000500	mg/L		05/19/15 1653	05/19/15 1653	PFH
Surrogate: 1,2-Dichlorobenzene-d4	105		Limit: 70-130	% Rec		05/19/15 1653	05/19/15 1653	PFH
Surrogate: 4-Bromofluorobenzene	103		Limit: 70-130	% Rec		05/19/15 1653	05/19/15 1653	PFH



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5E0267

Analytical Testing Parameters

Client Sample ID: Trip Blank
Lab Sample ID: J5E0267-07
Sample Type: Trip Blank

Collected By: DJB-Lab
Collection Date: 05/12/15
Collection Time: 10:45

Microbac Laboratories, Inc. - Central Pennsylvania

VOLATILE ORGANIC COMPOUNDS	Result	Limit	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2								
1,1,1,2-Tetrachloroethane	<0.000500		0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
1,1,1-Trichloroethane	<0.000500	0.200	0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
1,1,2,2-Tetrachloroethane	<0.000500		0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
1,1,2-Trichloroethane	<0.000500	0.00200	0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
1,1-Dichloroethane	<0.000500		0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
1,1-Dichloroethene	<0.000500	0.00700	0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
1,1-Dichloropropene	<0.000500		0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
1,2,3-Trichlorobenzene	<0.000500		0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
1,2,3-Trichloropropane	<0.000500		0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
1,2,4-Trichlorobenzene	<0.000500	0.0700	0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
1,2,4-Trimethylbenzene	<0.000500		0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
1,2-Dichlorobenzene	<0.000500	0.0750	0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
1,2-Dichloroethane	<0.000500	0.00500	0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
1,2-Dichloropropane	<0.000500	0.00500	0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
1,3,5-Trimethylbenzene	<0.000500		0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
1,3-Dichlorobenzene	<0.000500		0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
1,3-Dichloropropane	<0.000500		0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
1,4-Dichlorobenzene	<0.000500	0.600	0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
2,2-Dichloropropane	<0.000500		0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
2-Chlorotoluene	<0.000500		0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
4-Chlorotoluene	<0.000500		0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
4-Isopropyltoluene	<0.000500		0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
Benzene	<0.000500	0.00500	0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
Bromobenzene	<0.000500		0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
Bromochloromethane	<0.000500		0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
Bromodichloromethane	<0.000500		0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
Bromoform	<0.000500		0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
Bromomethane	<0.000500		0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
Carbon Tetrachloride	<0.000500	0.00500	0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
Chlorobenzene	<0.000500	0.100	0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
Chloroethane	<0.000500		0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
Chloroform	<0.000500		0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
Chloromethane	<0.000500		0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
cis-1,2-Dichloroethene	<0.000500	0.0700	0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
cis-1,3-Dichloropropene	<0.000500		0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
Dibromochloromethane	<0.000500		0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
Dibromomethane	<0.000500		0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
Dichlorodifluoromethane	<0.000500		0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
Ethylbenzene	<0.000500	0.700	0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
Hexachlorobutadiene	<0.000500		0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
m,p-Xylene	<0.00100		0.00100	mg/L		05/19/15 1720	05/19/15 1720	PFH

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5E0267

Analytical Testing Parameters

Client Sample ID: Trip Blank
Lab Sample ID: J5E0267-07
Sample Type: Trip Blank

Collected By: DJB-Lab
Collection Date: 05/12/15
Collection Time: 10:45

VOLATILE ORGANIC COMPOUNDS	Result	Limit	PQL	Units	Note	Prepared	Analyzed	Analyst
Methylene Chloride	<0.00100	0.00500	0.00100	mg/L		05/19/15 1720	05/19/15 1720	PFH
Methyl-tert-Butyl Ether	<0.000500		0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
Naphthalene	<0.000500		0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
n-Butyl Benzene	<0.000500		0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
n-Propyl Benzene	<0.000500		0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
o-Xylene	<0.000500		0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
sec-Butylbenzene	<0.000500		0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
Styrene	<0.000500	0.100	0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
tert-Butylbenzene	<0.00100		0.00100	mg/L		05/19/15 1720	05/19/15 1720	PFH
Tetrachloroethene	<0.000500	0.00500	0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
Toluene	<0.000500	1.00	0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
Total Xylenes	<0.00150	10.0	0.00150	mg/L		05/19/15 1720	05/19/15 1720	PFH
trans-1,2-Dichloroethene	<0.000500	0.100	0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
trans-1,3-Dichloropropene	<0.000500		0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
Trichloroethene	<0.000500	0.00500	0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
Trichlorofluoromethane	<0.000500		0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
Vinyl chloride	<0.000500	0.00200	0.000500	mg/L		05/19/15 1720	05/19/15 1720	PFH
Surrogate: 1,2-Dichlorobenzene-d4	106		Limit: 70-130	% Rec		05/19/15 1720	05/19/15 1720	PFH
Surrogate: 4-Bromofluorobenzene	102		Limit: 70-130	% Rec		05/19/15 1720	05/19/15 1720	PFH

Definitions

MCL: Maximum Contaminant Level
PQL: Practical Quantitation Limit

Cooler Receipt Log:

Cooler ID:	Default Cooler	Received On Ice (or not required):	Yes
Cooler Temp:	4.4 °C	Preservation Correct (or not required):	Yes
COC/Labels Agree:	Yes	Custody Seals Intact and/or No Evidence of Tampering	Yes
Containers Intact:	Yes		



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5E0267

Project Requested Certification(s):

Microbac Laboratories, Inc. - Central Pennsylvania

00433
TN02865
35-05082
22-00578
11650
42708
PA019
M-PA1401
334
90143
C-PA09
DE-PA
3304

Virginia
Tennessee
State of Pennsylvania for Scranton Division
Pennsylvania
NYS DOH ELAP
North Carolina
New Jersey
Massachusetts
Maryland
Kentucky
Indiana
Delaware
Biological/Chemical Food Testing

Report Comments:

In accordance with NYSDOH-ELAP and NELAC, any non-conformance of these regulations are noted directly on the laboratory report as qualifiers and/or noted in the case narrative.

Go Green: Contact Jennifer Walker to set up email reporting and invoicing options .

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included.

For any feedback concerning our services, please contact Jennifer Walker listed above at jennifer.walker@microbac.com or 607-753-3403. You may also contact Trevor Boyce President, at president@microbac.com.

Reviewed and Approved By:

Michael Fifield For Jennifer Walker
Quality Assurance Officer
05/25/2015 11:15

3821 Buck Drive
Cortland NY 13045
Phone: (607) 753-3403 Fax: (607) 753-3415
NY #10795, EPA #NY00935

Microbac Laboratories, Inc. CHAIN OF CUSTODY

Client Information				Billing/Invoice:				Analysis Requested				Receiving Info (Lab Use Only)			
Name: Town Of Vestal				Rush TAT Bus. Days: < 2 2-5 5-7 7-10 Date Req.:								Ice: YES NO			
Address: 701 Vestal PKWY, West Vestal, NY 13850-1363				Carbon Copy: Yes								Cooler: YES NO			
Contact: Scott Groat				Email Results: Yes								Sample Temp: 4.7			
Phone: 607-748-7574 Ext: 357				Fax Results: Yes								Cooler Seal: YES NO			
Project: Monthly				PO#:								Pickup: YES NO			
Quote ID:				Date Req.:								Dropoff: C W			
Sample Information				Matrix				Number of Containers for Analysis Requested				Comments/Field Data			
Description/Location	Date	Time	Initial	Type											
1 1-2A Raw	5-12-15	1100	DJB	DW				2							
2 1-2A Finished		1105		G				2							
3 1-3 Raw		1115		DW				2							
4 1-3 Finished		1120		G				2							
5 4-2 Raw		1040		DW				2							
6 4-2 Finished		1045		G				2							
7 Trip Blank		1045		DW											
8				G											
Print Name and Company				Signature				Date/Time				Comments			
Sampled: Deron Biechele/Microbac Cortland NY				Deron Biechele				5-12-15/1200							
Received:															
Received:															
Received:															

J5E0267



Microbac Laboratories (MNY) may be unable to perform a portion of the requested testing in which case we will subcontract the analysis to another accredited laboratory.
By signing this document you are attesting that you have been informed by MNY of the intent to subcontract and are in agreement with this action.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5F0229

Town of Vestal

Project Name: Town of Vestal Monthly

Bill Peltz
701 Vestal Parkway West
Vestal, NY 13850-1363

Project / PO Number: N/A
Received: 06/09/2015 11:53
Reported: 06/19/2015 15:48

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Lab Sample ID: J5F0229-01
Sample Type: Grab

Collected By: DJB-Lab
Collection Date: 06/09/15
Collection Time: 10:30

Microbac Laboratories Inc., Sayre Division

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
Bromobenzene	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
Bromochloromethane	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
n-Butylbenzene	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
Chlorobenzene	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/16/15 2000	RJH
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/17/15 1334	RJH
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
Ethylbenzene	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/16/15 2000	RJH
Methyl tert-butyl ether (MTBE)	<0.500	10.0	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/17/15 1334	RJH
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
Naphthalene	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5F0229

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Lab Sample ID: J5F0229-01
Sample Type: Grab

Collected By: DJB-Lab
Collection Date: 06/09/15
Collection Time: 10:30

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
n-Propylbenzene	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
Styrene	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
Tetrachloroethene	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
Toluene	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
Trichloroethene	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
Vinyl chloride	<0.500	2.00	0.500	ug/L		06/12/15 2246	06/17/15 1334	RJH
m,p-Xylene	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
o-Xylene	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
Xylenes (total)	<0.500	5.00	0.500	ug/L		06/12/15 2246	06/12/15 2246	RJH
Surrogate: 4-Bromofluorobenzene	80.2		Limit: 70-130	% Rec		06/12/15 2246	06/12/15 2246	RJH
Surrogate: 1,2-Dichlorobenzene-d4	79.0		Limit: 70-130	% Rec		06/12/15 2246	06/12/15 2246	RJH



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5F0229

Analytical Testing Parameters

Client Sample ID: 1-2A Finished
Lab Sample ID: J5F0229-02
Sample Type: Grab

Collected By: DJB-Lab
Collection Date: 06/09/15
Collection Time: 10:35

Microbac Laboratories Inc., Sayre Division

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
Bromobenzene	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
Bromochloromethane	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
n-Butylbenzene	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
Chlorobenzene	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/16/15 2033	RJH
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/17/15 1402	RJH
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
Ethylbenzene	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/16/15 2033	RJH
Methyl tert-butyl ether (MTBE)	<0.500	10.0	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/17/15 1402	RJH
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
Naphthalene	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
n-Propylbenzene	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
Styrene	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
Tetrachloroethene	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5F0229

Analytical Testing Parameters

Client Sample ID: 1-2A Finished
Lab Sample ID: J5F0229-02
Sample Type: Grab

Collected By: DJB-Lab
Collection Date: 06/09/15
Collection Time: 10:35

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Toluene	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
Trichloroethene	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
Vinyl chloride	<0.500	2.00	0.500	ug/L		06/12/15 2318	06/17/15 1402	RJH
m,p-Xylene	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
o-Xylene	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
Xylenes (total)	<0.500	5.00	0.500	ug/L		06/12/15 2318	06/12/15 2318	RJH
Surrogate: 4-Bromofluorobenzene	81.0		Limit: 70-130	% Rec		06/12/15 2318	06/12/15 2318	RJH
Surrogate: 1,2-Dichlorobenzene-d4	77.2		Limit: 70-130	% Rec		06/12/15 2318	06/12/15 2318	RJH



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5F0229

Analytical Testing Parameters

Client Sample ID: 1-3 Raw
Lab Sample ID: J5F0229-03
Sample Type: Grab

Collected By: DJB-Lab
Collection Date: 06/09/15
Collection Time: 10:15

Microbac Laboratories Inc., Sayre Division

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
Bromobenzene	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
Bromochloromethane	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
n-Butylbenzene	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
Chlorobenzene	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/16/15 2105	RJH
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/17/15 1430	RJH
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
Ethylbenzene	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/16/15 2105	RJH
Methyl tert-butyl ether (MTBE)	<0.500	10.0	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/17/15 1430	RJH
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
Naphthalene	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
n-Propylbenzene	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
Styrene	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
Tetrachloroethene	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5F0229

Analytical Testing Parameters

Client Sample ID: 1-3 Raw
Lab Sample ID: J5F0229-03
Sample Type: Grab

Collected By: DJB-Lab
Collection Date: 06/09/15
Collection Time: 10:15

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Toluene	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
Trichloroethene	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
Vinyl chloride	<0.500	2.00	0.500	ug/L		06/12/15 2351	06/17/15 1430	RJH
m,p-Xylene	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
o-Xylene	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
Xylenes (total)	<0.500	5.00	0.500	ug/L		06/12/15 2351	06/12/15 2351	RJH
Surrogate: 4-Bromofluorobenzene	82.6		Limit: 70-130	% Rec		06/12/15 2351	06/12/15 2351	RJH
Surrogate: 1,2-Dichlorobenzene-d4	76.4		Limit: 70-130	% Rec		06/12/15 2351	06/16/15 2105	RJH



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5F0229

Analytical Testing Parameters

Client Sample ID: 1-3 Finished
Lab Sample ID: J5F0229-04
Sample Type: Grab

Collected By: DJB-Lab
Collection Date: 06/09/15
Collection Time: 10:20

Microbac Laboratories Inc., Sayre Division

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
Bromobenzene	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
Bromochloromethane	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
n-Butylbenzene	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
Chlorobenzene	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/17/15 1459	RJH
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
Ethylbenzene	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
Methyl tert-butyl ether (MTBE)	<0.500	10.0	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/17/15 1459	RJH
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
Naphthalene	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
n-Propylbenzene	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
Styrene	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
Tetrachloroethene	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5F0229

Analytical Testing Parameters

Client Sample ID: 1-3 Finished
Lab Sample ID: J5F0229-04
Sample Type: Grab

Collected By: DJB-Lab
Collection Date: 06/09/15
Collection Time: 10:20

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Toluene	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
Trichloroethene	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
Vinyl chloride	<0.500	2.00	0.500	ug/L		06/16/15 2138	06/17/15 1459	RJH
m,p-Xylene	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
o-Xylene	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
Xylenes (total)	<0.500	5.00	0.500	ug/L		06/16/15 2138	06/16/15 2138	RJH
Surrogate: 4-Bromofluorobenzene	81.2		Limit: 70-130	% Rec		06/16/15 2138	06/16/15 2138	RJH
Surrogate: 1,2-Dichlorobenzene-d4	76.0		Limit: 70-130	% Rec		06/16/15 2138	06/16/15 2138	RJH



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5F0229

Analytical Testing Parameters

Client Sample ID: 4-2 Raw
Lab Sample ID: J5F0229-05
Sample Type: Grab

Collected By: DJB-Lab
Collection Date: 06/09/15
Collection Time: 10:50

Microbac Laboratories Inc., Sayre Division

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
Bromobenzene	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
Bromochloromethane	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
n-Butylbenzene	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
Chlorobenzene	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/17/15 1527	RJH
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
Ethylbenzene	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
Methyl tert-butyl ether (MTBE)	<0.500	10.0	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/17/15 1527	RJH
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
Naphthalene	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
n-Propylbenzene	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
Styrene	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
Tetrachloroethene	1.08	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5F0229

Analytical Testing Parameters

Client Sample ID: 4-2 Raw
Lab Sample ID: J5F0229-05
Sample Type: Grab

Collected By: DJB-Lab
Collection Date: 06/09/15
Collection Time: 10:50

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Toluene	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
1,1,1-Trichloroethane	1.07	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
Trichloroethene	1.14	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
Vinyl chloride	<0.500	2.00	0.500	ug/L		06/16/15 2210	06/17/15 1527	RJH
m,p-Xylene	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
o-Xylene	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
Xylenes (total)	<0.500	5.00	0.500	ug/L		06/16/15 2210	06/16/15 2210	RJH
Surrogate: 4-Bromofluorobenzene	83.0		Limit: 70-130	% Rec		06/16/15 2210	06/16/15 2210	RJH
Surrogate: 1,2-Dichlorobenzene-d4	74.8		Limit: 70-130	% Rec		06/16/15 2210	06/16/15 2210	RJH



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5F0229

Analytical Testing Parameters

Client Sample ID: 4-2 Finished
Lab Sample ID: J5F0229-06
Sample Type: Grab

Collected By: DJB-Lab
Collection Date: 06/09/15
Collection Time: 10:55

Microbac Laboratories Inc., Sayre Division

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
Bromobenzene	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
Bromochloromethane	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
n-Butylbenzene	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
Chlorobenzene	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/17/15 1555	RJH
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
Ethylbenzene	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
Methyl tert-butyl ether (MTBE)	<0.500	10.0	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/17/15 1555	RJH
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
Naphthalene	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
n-Propylbenzene	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
Styrene	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
Tetrachloroethene	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5F0229

Analytical Testing Parameters

Client Sample ID: 4-2 Finished
Lab Sample ID: J5F0229-06
Sample Type: Grab

Collected By: DJB-Lab
Collection Date: 06/09/15
Collection Time: 10:55

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Toluene	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
Trichloroethene	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
Vinyl chloride	<0.500	2.00	0.500	ug/L		06/16/15 2243	06/17/15 1555	RJH
m,p-Xylene	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
o-Xylene	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
Xylenes (total)	<0.500	5.00	0.500	ug/L		06/16/15 2243	06/16/15 2243	RJH
Surrogate: 4-Bromofluorobenzene	83.2		Limit: 70-130	% Rec		06/16/15 2243	06/16/15 2243	RJH
Surrogate: 1,2-Dichlorobenzene-d4	70.8		Limit: 70-130	% Rec		06/16/15 2243	06/16/15 2243	RJH



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5F0229

Analytical Testing Parameters

Client Sample ID: Trip Blank
Lab Sample ID: J5F0229-07
Sample Type: Trip Blank

Collected By: DJB-Lab
Collection Date: 06/09/15
Collection Time: N/A

Microbac Laboratories Inc., Sayre Division

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
Bromobenzene	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
Bromochloromethane	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
n-Butylbenzene	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
Chlorobenzene	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/17/15 1623	RJH
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
Ethylbenzene	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
Methyl tert-butyl ether (MTBE)	<0.500	10.0	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/17/15 1623	RJH
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
Naphthalene	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
n-Propylbenzene	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
Styrene	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
Tetrachloroethene	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5F0229

Analytical Testing Parameters

Client Sample ID: Trip Blank
Lab Sample ID: J5F0229-07
Sample Type: Trip Blank

Collected By: DJB-Lab
Collection Date: 06/09/15
Collection Time: N/A

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Toluene	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
Trichloroethene	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
Vinyl chloride	<0.500	2.00	0.500	ug/L		06/16/15 2315	06/17/15 1623	RJH
m,p-Xylene	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
o-Xylene	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
Xylenes (total)	<0.500	5.00	0.500	ug/L		06/16/15 2315	06/16/15 2315	RJH
Surrogate: 4-Bromofluorobenzene	88.0		Limit: 70-130	% Rec		06/16/15 2315	06/16/15 2315	RJH
Surrogate: 1,2-Dichlorobenzene-d4	78.0		Limit: 70-130	% Rec		06/16/15 2315	06/16/15 2315	RJH

Definitions

MCL: Maximum Contaminant Level
PQL: Practical Quantitation Limit

Cooler Receipt Log:

Cooler ID:	Default Cooler	Received On Ice (or not required):	Yes
Cooler Temp:	4.3 °C	Preservation Correct (or not required):	Yes
COC/Labels Agree:	Yes	Custody Seals Intact and/or No Evidence of Tampering	Yes
Containers Intact:	Yes		

Project Requested Certification(s):

Microbac Laboratories Inc., Sayre Division
NY Lab ID No.: 11216

New York State Department of Health

Report Comments:

In accordance with NYSDOH-ELAP and NELAC, any non-conformance of these regulations are noted directly on the laboratory report as qualifiers and/or noted in the case narrative.

Reviewed and Approved By:

Anna Tubbs
Project Manager
06/19/2015 15:48

Go Green: Contact Anna Tubbs to set up email reporting and invoicing options.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included.

For any feedback concerning our services, please contact Anna Tubbs listed above at anna.tubbs@microbac.com or 607-753-3403. You may also contact Trevor Boyce President, at president@microbac.com.

Microbac Laboratories, Inc.

3821 Buck Dr. | Cortland, NY 13045 | 607-753-3403 p | www.microbac.com

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3821 Buck Drive
Cortland NY 13045
Phone: (607)753-3403 Fax: (607)753-3415
NY #10795, EPA #NY00935

Microbac Laboratories, Inc. CHAIN OF CUSTODY

Client Information			Billing/Invoice:		Analysis Requested				Receiving Info (Lab Use Only)	
Name:	Town Of Vestal								Ice:	YES NO
Address:	701 Vestal PKWY, West Vestal, NY 13850-1363								Cooler:	YES NO
Contact:	Scott Groats								Sample Temp:	4.3
Phone:	607-748-7574 Ext: 357								Cooler Seal:	YES NO
Project:	Monthly								Pickup:	YES NO
Quote ID:	PO#:								Dropoff:	C W
Rush TAT Bus Days: <2 2-5 5-7 7-10 Date Req.:									Accepted?	YES NO
Carbon Copy:	Yes								Container Material	
Email Results:	Yes								Container Size (in MI)	
Fax Results:	Yes								Preservative	
Sample Information					Number of Containers for Analysis Requested				Comments/Field Data	
Description/Location	Date	Time	Initial	Matrix	Glass	HCL	HCL			
1 1-2A Raw	6-9-15	1030	DJB	DW	2					
2 1-2A Finished		1035		DW	2					
3 1-3 Raw		1015		DW	2					
4 1-3 Finished		1020		DW	2					
5 4-2 Raw		1050		DW	2					
6 4-2 Finished		1055		DW	2					
7 Trip Blank				DW		1				
8				G						
Print Name and Company					Signature		Date/Time		Comments	
Deron Biechele/Microbac Cortland NY							6-9-15/ 1153			
Received:										
Received:										
Received:										

Microbac Laboratories (MNY) may be unable to perform a portion of the requested testing in which case we will subcontract the analysis to another accredited laboratory. By signing this document you are attesting that you have been informed by MNY of the intent to subcontract and are in agreement with this action.



J5F0229