

**New York State Department of
Environmental Conservation**

Division of Environmental Remediation

**Remedial System Optimization
Report – Fourth Quarter 2014**

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

April 2015



A handwritten signature in black ink, appearing to read "Bruce Nelson".

Bruce Nelson, CPG
Vice President

A handwritten signature in black ink, appearing to read "Jeremy Wyckoff".

Jeremy Wyckoff
Project Geologist

Remedial System Optimization Report

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

Prepared for:
New York State Department of
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April 9, 2015

Malcolm Pirnie, Inc. was acquired by
ARCADIS in July 2009.

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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 temporarily 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.

In accordance with the RSO Work Plan, this Quarterly Report has been prepared to summarize the October 2014 through December 2014 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, which will be summarized in the Focused Feasibility Study (FFS).

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 up to 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

Groundwater samples were collected from existing and newly installed monitoring wells on December 9, 2014 (Figure 2-2). This sampling event is the last of the three quarterly monitoring events scheduled to be completed following the temporary shutdown of the Well 1-1A groundwater treatment plant. 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 Water Level Data

Groundwater levels were measured on November 24, 2014 using an oil-water interface probe. As indicated in Section 1, the Well 1-1A treatment plant continues to 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 2-1. As shown in Table 2-1, light non-aqueous phase liquid (LNAPL) was detected in monitoring well ERT-1S during the November 24, 2014 (0.94 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. A trace of LNAPL (0.01 ft) was also present in monitoring well ERT-2I during the November 24, 2014 gauging event.

The November 24, 2014 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.

2.1.1.1 Fourth Quarter (November 24, 2014)

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 northeast, toward Well 1-1A and 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.

2.1.2 Fourth Quarter Groundwater Sampling

On December 9, 2014 groundwater samples were collected using PDBs that were deployed on November 24, 2014. PDBs were deployed in 21 existing and 13 newly installed monitoring wells. 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 after the shutdown of the Well-1A treatment facility a sample is not able to be collected from this well.

2.1.2.1 Fourth Quarter Groundwater Sampling Results

Groundwater results from the December 9, 2014 fourth quarter groundwater sampling event are provided in Table 2-2. 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, and total VOC concentrations during the fourth quarter groundwater sampling event are presented on Figures 2-5, 2-6, 2-7, and 2-8, respectively.

As shown in Table 2-2, the highest VOC concentrations in groundwater samples collected during the fourth quarter sampling event were from 4009-25S which is immediately down-gradient of the source area (ECO International property). The groundwater sample collected from 4009-25S contained the maximum concentration of total VOCs (4,730 µg/L). As shown on Figure 2-5, the highest concentrations of VOCs in the shallow groundwater monitoring zone are in the vicinity of the source area.

Figure 2-6 shows that the VOC plume in the intermediate groundwater monitoring zone extends approximately 1,000 feet farther to the west toward Well 1-1A compared to the shallow groundwater monitoring zone. As shown on Figure 2-6, the highest concentration of total VOCs in the intermediate groundwater monitoring zone detected down-gradient from the source area, was 2,236 µg/L in the sample from monitoring well 4009-8.

Figure 2-7 and Table 2-2 show that monitoring wells 4009-11, 4009-12, 4009-13, and 4009-29D were the only wells screened in the deep groundwater monitoring zone that contained concentrations of VOCs that exceeded NYSDEC Class GA Groundwater Standards. The total VOCs measured at each of the deep monitoring wells is as follows; 4009-11 (8.8 µg/L), 4009-12 (506 µg/L), 4009-13 (1.55 µg/L), and 4009-29D (437 µg/L).

Figure 2-8 shows that the groundwater contamination plume is relatively narrow from the source area to monitoring well 4009-12A. Decades of pumping at extraction Wells 1-1 (and replacement well 1-1A) have 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. Analytical data from groundwater monitoring wells between Well 1-1A and the Town of Vestal wells 1-2A and 1-3, indicate that extraction Well 1-1A maintained hydraulic control of the plume.

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 USEPA ERT monitoring wells on the ECO International property and Well 1-1A since the baseline sampling event, with some VOC concentration fluctuations after the shutdown of

extraction Well 1-1A. 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 December 9, 2014 sampling event are generally consistent with the previous sampling results from the last four (February, March, May, and August 2014) sampling events, with the exception of monitoring wells 4009-8, 4009-12, 4009-12A, 4009-29S, and 4009-29D. Monitoring wells 4009-8, 4009-12, and 4009-29D had higher total VOC concentrations and monitoring wells 4009-12A and 4009-29S had lower total VOC concentrations when compared to previous sampling events. 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.

Benzene has shown increasing concentrations north and west of the core of the plume over the past four sampling events. As shown in Figures 2-9 through 2-12 during the December 9, 2014 sampling event benzene was detected in the following shallow monitoring wells; 4009-9 (1.3 µg/L), 4009-10 (26 µg/L), 4009-13A (0.96 µg/L), 4009-16A (8.0 µg/L), and 4009-23S (1.1 µg/L) (Figure 2-9), the intermediate monitoring wells; 4009-5 (0.62 µg/L), 4009-26 (0.55 µg/L), and 4009-12A (0.31 µg/L) (Figure 2-10), and the deep monitoring wells; 4009-11 (7.8 µg/L), 4009-13 (1.0 µg/L), 4009-14 (0.54 µg/L), 4009-15 (0.86 µg/L), 4009-16 (0.39 µg/L), and 4009-22 (0.82 µg/L) (Figure 2-11). Six of the 14 wells listed above exceeded NYSDEC Class GA Groundwater Standards of 1.0 µg/L for benzene. Figure 2-12 shows the benzene concentration in all the wells during the December 2014 sampling event.

2.1.3 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 October 28, 2014, November 11, 2014, and December 18, 2014. Pre-treatment groundwater samples were also collected by Malcolm Pirnie from the Town of Vestal water supply wells 1-2A and 1-3 on October 21, 2014, November 24, 2014, and December 9, 2014. 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.

2.1.4 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 2-3. Laboratory analytical reporting forms are provided in Appendix A.

2.1.5 Post-shutdown Sampling

In accordance with the RSO Work Plan, the three sampling events following the shutdown of the Well 1-1A groundwater treatment plant have been completed. Recommendations based on the analysis of groundwater data collected over the 1-year period will be presented in the RSO/FFS report.

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 until the Well 1-1A treatment plant operation is restored or the recommendations presented in the RSO/FFS are implemented. In addition, quarterly groundwater monitoring should continue at select monitoring locations while the Well 1-1A treatment plant is shut down to evaluate groundwater contaminant distribution and migration over time. Table 3-1 provides a summary of monitoring wells recommended for continued monitoring. ARCADIS has reduced the number of monitoring wells from 34 to 23. The proposed monitoring locations are shown on Figure 3-1. These proposed monitoring locations will continue to monitor the plume migration on the north side of NYS Route 17.

4. Activities for Next Quarter

- Monthly post shutdown sampling at Town of Vestal Wells 1-2A and 1-3.
- Submission of a draft technical memorandum concerning source treatment options.
- Submission of a draft RSO/FFS Report for NYSDEC review and comment.
- Quarterly groundwater sampling.

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.

Table 2-1 Summary of Groundwater Elevation Data
Remedial Site Optimization Report / Fourth Quarter 2014
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		
		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
4009-2	827.78	18.16	NP	809.62	17.96	NP	809.82	17.90	NP	809.88
4009-3	823.47	16.92	NP	806.55	14.52	NP	808.95	15.10	NP	808.37
4009-4	822.22	11.87	NP	810.35	10.64	NP	811.58	10.80	NP	811.42
4009-5	824.36	18.47	NP	805.89	16.23	NP	808.13	17.70	NP	806.66
4009-6	827.73	20.88	NP	806.85	19.38	NP	808.35	19.50	NP	808.23
4009-7	824.27	18.76	NP	805.51	16.28	NP	807.99	16.91	NP	807.36
4009-8	824.52	19.69	NP	804.83	13.28	NP	811.24	17.60	NP	806.92
4009-9	825.05	20.36	NP	804.69	18.00	NP	807.05	18.82	NP	806.23
4009-10	831.31	26.44	NP	804.87	24.28	NP	807.03	24.95	NP	806.36
4009-11	830.06	26.95	NP	803.11	23.75	NP	806.31	24.89	NP	805.17
4009-11A	830.80	15.22	NP	815.58	14.78	NP	816.02	14.56	NP	816.24
4009-12	823.34	18.80	NP	804.54	16.68	NP	806.66	17.52	NP	805.82
4009-12A	823.80	20.21	NP	803.59	16.60	NP	807.20	17.98	NP	805.82
4009-13	816.28	12.31	NP	803.97	8.97	NP	807.31	10.42	NP	805.86
4009-13A	816.17	11.74	NP	804.43	8.72	NP	807.45	9.94	NP	806.23
4009-14	820.71	16.62	NP	804.09	13.43	NP	807.28	15.36	NP	805.35
4009-15	826.54	22.63	NP	803.91	19.35	NP	807.19	11.93	NP	814.61
4009-16	826.72	22.68	NP	804.04	19.50	NP	807.22	21.12	NP	805.60
4009-16A	826.84	22.45	NP	804.39	19.45	NP	807.39	21.22	NP	805.62
4009-17	820.53	26.12	NP	794.41	12.95	NP	807.58	14.52	NP	806.01
4009-18	834.78	30.59	NP	804.19	27.61	NP	807.17	29.38	NP	805.40
4009-19	824.94	20.79	NP	804.15	17.78	NP	807.16	19.54	NP	805.40
4009-20	822.90	18.45	NP	804.45	15.60	NP	807.30	17.82	NP	805.08
4009-21	823.10	18.90	NP	804.20	15.90	NP	807.20	17.65	NP	805.45
4009-22	817.40	13.06	NP	804.34	9.85	NP	807.55	11.50	NP	805.90
4009-23S	824.48	16.65	NP	807.83	15.48	NP	809.00	14.88	NP	809.60
4009-23D	824.39	18.93	NP	805.46	16.37	NP	808.02	17.15	NP	807.24
4009-24	822.32	15.52	NP	806.80	13.38	NP	808.94	13.99	NP	808.33
4009-25S	823.61	14.77	NP	808.84	13.84	NP	809.77	13.95	NP	809.66
4009-25D	823.57	14.98	NP	808.59	13.70	NP	809.87	13.78	NP	809.79
4009-26	824.31	19.36	NP	804.95	16.55	NP	807.76	17.39	NP	806.92
4009-27S	826.19	21.97	NP	804.22	18.80	NP	807.39	20.02	NP	806.17
4009-27I	826.03	21.93	NP	804.10	18.63	NP	807.40	19.98	NP	806.05
4009-27D	825.87	21.90	NP	803.97	18.43	NP	807.44	19.88	NP	805.99
4009-28	821.59	17.71	NP	803.88	14.45	NP	807.14	16.00	NP	805.59
4009-29S	825.77	21.75	NP	804.02	18.42	NP	807.35	19.75	NP	806.02
4009-29I	825.68	21.94	NP	803.74	18.51	NP	807.17	19.86	NP	805.82
4009-29D	825.67	21.92	NP	803.75	18.54	NP	807.13	19.80	NP	805.87
WELL 1-1	832.36	29.09	NP	803.27	25.23	NP	807.13	25.50	NP	806.86
WELL 1-1A	831.13	24.93	NP	806.20	24.13	NP	807.00	26.72	NP	804.41
ERT-1S	824.01	12.65	11.72	810.57	11.83	10.88	811.37	11.53	10.62	811.71
ERT-1I	824.03	13.45	NP	810.58	12.43	NP	811.60	12.42	NP	811.61
ERT-1D	823.88	13.50	13.49	810.38	12.50	NP	811.38	12.42	NP	811.46
ERT-2S	824.67 *	14.19	NP	810.48	13.72	NP	810.95	13.00	NP	811.67
ERT-2I	824.54 *	14.07	NP	810.47	13.08	NP	811.46	13.06	NP	811.48
ERT-2D	824.44 *	12.98	NP	811.46	12.88	NP	811.56	12.56	12.55	811.88
ERT-3S	824.38	13.29	NP	811.09	12.94	NP	811.44	11.83	NP	812.55
ERT-3I	824.23	14.21	NP	810.02	13.23	NP	811.00	13.20	NP	811.03
ERT-3D	824.20	14.95	NP	809.25	14.62	NP	809.58	13.78	NP	810.42
ERT-4S	823.54	13.32	NP	810.22	12.58	NP	810.96	12.85	NP	810.69
ERT-4I	823.49	14.23	NP	809.26	13.37	NP	810.12	13.42	NP	810.07
ERT-4D	823.63	14.55	NP	809.08	13.56	NP	810.07	13.63	NP	810.00
ERT-5	824.64 *	NM	NM	NM	12.34	NP	812.30	12.40	NP	812.24
ERT-6	824.74 *	14.25	NP	810.49	13.05	NP	811.69	13.15	13.14	811.59
ERT-7	823.96	15.38	NP	808.58	14.25	NP	809.71	14.55	NP	809.41
ERT-8	824.69	16.70	NP	807.99	15.13	NP	809.56	15.50	NP	809.19

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

Table 2-1 Summary of Groundwater Elevation Data
Remedial Site Optimization Report / Fourth Quarter 2014
Vestal Water Supply Site
Site Number 7-04-009A

WELL I.D.	Top of Riser (ft AMSL)	8/11/2014			11/24/2014		
		DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)
4009-1	831.98	7.75	NP	824.23	7.80	NP	824.18
4009-2	827.78	19.77	NP	808.01	20.22	NP	807.56
4009-3	823.47	17.94	NP	805.53	17.23	NP	806.24
4009-4	822.22	13.87	NP	808.35	13.65	NP	808.57
4009-5	824.36	21.94	NP	802.42	18.85	NP	805.51
4009-6	827.73	21.80	NP	805.93	21.73	NP	806.00
4009-7	824.27	20.22	NP	804.05	19.34	NP	804.93
4009-8	824.52	20.96	NP	803.56	20.24	NP	804.28
4009-9	825.05	21.84	NP	803.21	21.28	NP	803.77
4009-10	831.31	27.88	NP	803.43	27.43	NP	803.88
4009-11	830.06	28.36	NP	801.70	26.51	NP	803.55
4009-11A	830.80	16.69	NP	814.11	20.43	NP	810.37
4009-12	823.34	20.90	NP	802.44	19.22	NP	804.12
4009-12A	823.80	21.35	NP	802.45	20.05	NP	803.75
4009-13	816.28	13.60	NP	802.68	12.07	NP	804.21
4009-13A	816.17	13.00	NP	803.17	11.93	NP	804.24
4009-14	820.71	18.07	NP	802.64	16.57	NP	804.14
4009-15	826.54	24.18	NP	802.36	22.53	NP	804.01
4009-16	826.72	24.30	NP	802.42	22.70	NP	804.02
4009-16A	826.84	24.31	NP	802.53	22.72	NP	804.12
4009-17	820.53	17.66	NP	802.87	17.18	NP	803.35
4009-18	834.78	32.23	NP	802.55	30.73	NP	804.05
4009-19	824.94	22.42	NP	802.52	20.91	NP	804.03
4009-20	822.90	20.25	NP	802.65	18.69	NP	804.21
4009-21	823.10	20.55	NP	802.55	19.03	NP	804.07
4009-22	817.40	14.03	NP	803.37	13.27	NP	804.13
4009-23S	824.48	17.74	NP	806.74	18.33	NP	806.15
4009-23D	824.39	20.50	NP	803.89	19.23	NP	805.16
4009-24	822.32	16.94	NP	805.38	16.15	NP	806.17
4009-25S	823.61	15.87	NP	807.74	16.00	NP	807.61
4009-25D	823.57	15.85	NP	807.72	16.00	NP	807.57
4009-26	824.31	20.62	NP	803.69	19.92	NP	804.39
4009-27S	826.19	23.29	NP	802.90	22.02	NP	804.17
4009-27I	826.03	23.18	NP	802.85	21.85	NP	804.18
4009-27D	825.87	23.02	NP	802.85	21.65	NP	804.22
4009-28	821.59	19.23	NP	802.36	17.65	NP	803.94
4009-29S	825.77	23.03	NP	802.74	21.60	NP	804.17
4009-29I	825.68	23.22	NP	802.46	21.61	NP	804.07
4009-29D	825.67	23.18	NP	802.49	21.60	NP	804.07
WELL 1-1	832.36	30.00	NP	802.36	28.33	NP	804.03
WELL 1-1A	831.13	23.03	NP	808.10	27.10	NP	804.03
ERT-1S	824.01	13.96	12.95	809.19	14.96	14.02	808.25
ERT-1I	824.03	15.17	NP	808.86	15.23	NP	808.80
ERT-1D	823.88	15.29	NP	808.59	15.18	NP	808.70
ERT-2S	824.67 *	15.66	NP	809.01	15.81	NP	808.86
ERT-2I	824.54 *	15.60	NP	808.94	15.71	15.70	808.83
ERT-2D	824.44 *	14.97	14.96	809.46	15.28	NP	809.16
ERT-3S	824.38	14.14	NP	810.24	15.09	NP	809.29
ERT-3I	824.23	15.73	NP	808.50	15.85	NP	808.38
ERT-3D	824.20	16.72	16.71	807.47	16.20	NP	808.00
ERT-4S	823.54	Dry	NP	--	Dry	NP	--
ERT-4I	823.49	5.58	NP	817.91	15.70	NP	807.79
ERT-4D	823.63	15.70	NP	807.93	15.90	NP	807.73
ERT-5	824.64 *	15.28	NP	809.36	14.93	NP	809.71
ERT-6	824.74 *	16.03	NP	808.71	15.64	NP	809.10
ERT-7	823.96	17.61	NP	806.35	16.80	NP	807.16
ERT-8	824.69	18.57	NP	806.12	17.66	NP	807.03

Notes:

fbgs - feet below ground surface

famsl - feet above mean sea level

* - Elevation data from Conceptual Site

Model (Lockheed Martin, 2012).

NM - Not measured

NP - No product / LNAPL

Corrected based on assumed LNAPL

density of 0.85 g/cm3

Table 2-2 Summary of Groundwater Results
Remedial Site Optimization Report/ Fourth Quarter 2014
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	4009-2 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	4009-3 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	4009-4 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	4009-5 2/20/2014 Intermediate 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	4009-6 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
1,1,1-Trichloroethane	5	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	1.6 J	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,1,2,2-Tetrachloroethane	5	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.1	1.3	0.9 J	1.5	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	5.0 U	1.0 UJ	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,1,2-Trichloroethane	1	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,1-Dichloroethane	5	1.0 U	0.5 J	1.0 UJ	0.37 J	2.7	2.3	2.6 J	3.4	6.3	6.6	7.5 J	4.8	1.0 U	0.4 J	1.0 UJ	1.0 U	2.7	3.0 J	1.3 J	1.7 J	1.0 U	1.0 U	1.0 UJ	1.0 U
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.3	1.1	1.1 J	0.87 J	1.0 U	1.0 U	1.0 UJ	1.0 U	2.2	1.8 J	1.0 UJ	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	5.0 U	1.0 UJ	13 U	1.0 U	1.0 U	1.0 UJ	5.0 U
1,2,4-Trichlorobenzene	5	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2,4-Trimethylbenzne	5	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	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 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	5.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2-Dichlorobenzene	3	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2-Dichloroethane	0.6	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2-Dichloropropane	1	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,3-Dichlorobenzene	3	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,4-Dichlorobenzene	3	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U
2-Butanone (MEK)	50	1.3 J	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U	1.5 J	10 U	10 UJ	10 U	10 U	50 U	10 UJ	25 U	10 U	10 U	10 UJ	10 U
2-Hexanone	50*	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 UJ	10 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	25 U	5.0 UJ	25 U	5.0 U	5.0 U	5.0 UJ	10 U
4-Methyl-2-pentanone (MIBK)		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 UJ	10 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	25 U	5.0 UJ	25 U	5.0 U	5.0 U	5.0 UJ	10 U
Acetone	50*	10	4.2 J	12 J	10 U	7.2 J	3.5 J	9.9 J	10 U	4.6 J	12 J	10 U	12	3.4 J	8.0 J	10 U	11	50 U	11 J	25 U	8.5 J	10 U	9.3 J	10 U	10 U
Benzene	1	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	3.2	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 UJ	1.0 U	5.0 U	1.7 J	0.62 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Bromodichloromethane	50	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Bromoform	50*	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Bromomethane	5	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Carbon disulfide		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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Carbon tetrachloride	5	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Chlorobenzene	5	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Chloroethane	5	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Chloroform	7	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Chloromethane		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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U
cis-1,2-Dichloroethene	5	1.6	2.0	2.2 J	2.4	14	12	9.0 J	6.9	77	65	63 J	48	1.0 U	79	1.3 J	0.45 J	250 D	280	170 J	170	1.0 U	1.0 U	1.0 UJ	0.24 J
cis-1,3-Dichloropropene	0.4	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Cyclohexane		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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Dibromochloromethane	50	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 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	5.0 U	1.0 UJ	2.5 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*
Dichlorodifluoromethane	5	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Ethylbenzene	5	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Isopropylbenzne (Cumene)	5	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Methyl Acetate		2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U	2.5 UJ	10.0 U	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	13 U	2.5 UJ	25 U	2.5 U	2.5 U	2.5 UJ	10 U
Methyl Cyclohexane		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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Methylene Chloride	5	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	4.6 J	1.0 UJ	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Methyl Tert Butyl Ether	10	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ	2.5 U	0.3 J	0.27 J	1.0 UJ	0.23 J
Styrene	5	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Tetrachloroethene	5	1.4	0.4 J	1.7 J	0.84 J*	1.0 U	1.0 U	1.0 UJ	0.51 J*	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	5.0 U	1.0 UJ	2.5 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*
Toluene	5	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	0.46 J	1.0 U	1.0 U	1.0 UJ	0.45 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0	5.0 U	1.0 UJ	0.69 J	1.0 U	1.0 U	1.0 UJ	1.0 U
trans-1,3-Dichloropropene	0.4	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 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	5.0 U	1.0 UJ	2.5 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*
Trichloroethene	5	1.4	1.1	1.7 J	1.5	2.9	2.7	2.3 J	2.5	26	15	12 J	11	1.0 U											

Table 2-2 Summary of Groundwater Results
Remedial Site Optimization Report/ Fourth Quarter 2014
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard 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	4009-8 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	4009-9 2/20/2014 Shallow ug/L	4009-9 5/28/2014 Shallow ug/L	4009-9 8/28/2014 Shallow ug/L	4009-9 12/9/2014 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	4009-11 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	4009-11A 2/20/2014 Intermediate ug/L	4009-11A 5/28/2014 Intermediate ug/L	4009-11A 8/28/2014 Intermediate ug/L	4009-11A 12/9/2014 Intermediate ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 UJ	3.3 U	790 D	1000	2900 DJ	1500	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	0.32 J	1.0 U	1.0 U	1.9 J	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	1.0 U	1.0 U	1.0 UJ	3.3 U	14	13 J	20 UDJ	17 J	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 UJ	3.3 U	0.5 J	20 U	20 UDJ	25 U	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,1-Dichloroethane	5	1.0 J	0.48 J	1.0 UJ	3.3 U	40	62	72 DJ	58	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,1-Dichloroethene	5	1.0 U	0.29 J	1.0 UJ	3.3 U	31	120	94 DJ	120	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 UJ	17 U	1.0 U	20 U	20 UDJ	130 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 UJ	6.7 U	1.0 U	20 U	20 UDJ	50 U	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 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
2-Butanone (MEK)	50	1.0 U	1.4 J	10 UJ	33 U	1.0 U	200 U	200 UDJ	250 U	1.4 J	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 UJ	33 U	5.0 U	100 U	100 UDJ	250 U	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 UJ	10 U	5.0 U	5.0 U	5.0 UJ	10 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 UJ	33 U	5.0 U	100 U	100 UDJ	250 U	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 UJ	10 U	5.0 U	5.0 U	5.0 UJ	10 U
Acetone	50*	5.3 J	7.1 J	14 J	33 U	9.6 J	200 U	200 UDJ	250 U	12	3.3 J	11 J	10 U	10	3.2 J	7.5 J	10 U	7.8 J	4.6 J	10 UJ	9.8 J	4.1 J	10 J	10 J	10 U
Benzene	1	1.1	1.0 U	0.41 J	3.3 U	0.67 J	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.3 J	1.3	0.6 J	0.53 J	2.3 J	26	1.0 U	1.0 U	1.0 UJ	7.8	1.0 U	1.0 U	1.0 UJ	1.0 U
Bromodichloromethane	50	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U*	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Chloroethane	5	1.0 U	0.3 J	1.0 UJ	3.3 U	2.2	20 U	20 UDJ	25 U	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 UJ	3.3 U	0.6 J	20 U	20 UDJ	25 U	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Chloromethane		1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
cis-1,2-Dichloroethene	5	20	46	36 J	38	440 D	310	550 DJ	490	6.3	4.0	13 J	7.0	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 UJ	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 UJ	3.3 U*	1.0 U	20 U	20 UDJ	25 U	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 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Methyl Acetate		2.5 U	2.5 U	2.5 UJ	33 U	2.5 U	50 U	50 UDJ	250 U	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 UJ	10 U	2.5 U	2.5 U	2.5 UJ	10 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	9.1 DJ	25 U	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 UJ	3.3 U*	1.3	20 U	20 UDJ	25 U	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 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*
Toluene	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	2.0	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 UJ	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.1	20 U	20 UDJ	25 U	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 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 UJ	3.3 U*	1.0 U	20 U	20 UDJ	25 U	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 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*
Trichloroethene	5	2.1	4.1	3.3 J	2.7 J	19	20 U	20 UDJ	7.1 J	0.5 J	0.66 J	0.67 J	0.80 J	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.		

Table 2-2 Summary of Groundwater Results
Remedial Site Optimization Report/ Fourth Quarter 2014
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard 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	4009-12A 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	4009-13 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	4009-14 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	4009-15 2/20/2014 Deep ug/L	4009-15 5/28/2014 Deep ug/L	4009-15 8/28/2014 Deep ug/L	4009-15 12/9/2014 Deep ug/L	
1,1,1-Trichloroethane	5	32	43	1.0 U	290	34	1.0 U	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 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	22 U	1.0 U	1.0 U	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 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	1.0 U	1.0 U	1.0 U	22 U	1.0 U	1.0 U	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 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	22 U	1.0 U	1.0 U	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 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	4.0	6.5	1.0 U	29	4.3	7.8	4.3	2.8	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	0.5 J	0.53 J	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	3.4	6.1	1.0 U	30	3.8	1.3	0.6 J	0.53 J	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	110 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	22 U	1.0 U	1.0 U	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 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-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	22 U	1.0 U	1.0 U	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 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	44 U	1.0 U	1.0 U	1.0 U	2.0 U	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	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	22 U	1.0 U	1.0 U	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 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	22 U	1.0 U	1.0 U	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 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	22 U	1.0 U	1.0 U	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 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	22 U	1.0 U	1.0 U	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 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	22 U	1.0 U	1.0 U	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 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	22 U	1.0 U	1.0 U	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 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	22 U	1.0 U	1.0 U	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 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	220 U	10 U	10 U	10 U	10 U	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	1.3 J	10 U	10 U	10 U
4-Hexanone	50*	5.0 U	5.0 U	5.0 U	220 U	5.0 U	5.0 U	5.0 U	10 U	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	10 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	220 U	5.0 U	5.0 U	5.0 U	10 U	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	10 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Acetone	50*	5.8 J	3.8 J	7.0 J	220 U	9.9 J	3.9 J	10 U	8.4 J	3.8 J	10 U	8.4 J	10 U	8.4 J	10 U	11 J	10 U	6.3 J	4.3 J	11	10 U	7.5 J	5.1 J	7.2 J	10 U	10 U
Benzene	1	1.0 U	1.5	1.6	22 U	1.0 U	1.0 U	0.57 J	0.31 J	1.0 U	0.42 J	4.8 J	1.0	1.0 U	0.58 J	1.0 UJ	0.96 J	1.0 U	1.0 U	1.0 U	0.54 J	1.0 U	1.0 U	0.5 J	0.86 J	1.0 U
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	22 U	1.0 U	1.0 U	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 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	22 U*	1.0 U	1.0 U	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 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	5	1.0 U	1.0 U	1.0 U	22 U	1.0 U	1.0 U	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 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	22 U	1.0 U	1.0 U	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 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	22 U	1.0 U	1.0 U	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 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	22 U	1.0 U	1.0 U	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 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	1.0 U	1.0 U	22 U	1.0 U	7.5	7.0	4.1	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	22 U	1.0 U	1.0 U	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 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	22 U	1.0 U	1.0 U	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 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	13	9.5	8.5	63	15	18	15	14	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	22 U	1.0 U	1.0 U	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 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	22 U	1.0 U	1.0 U	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 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	22 U	1.0 U	1.0 U	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 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	22 U	1.0 U	1.0 U	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 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	22 U	1.0 U	1.0 U	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 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	22 U	1.0 U	1.0 U	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 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	220 U	2.5 U	2.5 U	2.5 U	10 U	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	10 U	2.5 U	2.5 U	2.5 U	2.5 U	10 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	22 U	1.0 U	1.0 U	1.0 U	1 U	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	22 U	1.0 U	1.0 U	1.0 U	1 U	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	22 U	1.0 U	1.0 U	1.0 U	1 U	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	22 U	1.0 U	1.0 U	1.0 U	1 U	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	22 U	1.0 U	1.0 U	1.0 U	1 U*	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	0.8 J	0.74 J	22 U	1.0 U	0.55 J	0.53 J	1 U	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	0.91 J	1.0	0.92 J	1.0 U	0.56 J	0.61 J	0.72 J	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	22 U	1.0 U	1.0 U	1.0 U	1 U	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	22 U	1.0 U	1.0 U	1.0 U	1 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U</											

Table 2-2 Summary of Groundwater Results
Remedial Site Optimization Report/ Fourth Quarter 2014
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID	NYSDEC	4009-16	4009-16	4009-16	4009-16	4009-16A	4009-16A	4009-16A	4009-16A	4009-22	4009-22	4009-22	4009-22	4009-22	4009-23S	4009-23S	4009-23S	4009-23S	4009-23D	4009-23D	4009-23D	4009-23D	4009-24	4009-24	4009-24	4009-24	
Sampling Date	GA	2/20/2014	5/28/2014	8/28/2014	12/9/2014	2/20/2014	5/28/2014	8/28/2014	12/9/2014	12/3/2013	2/20/2014	5/28/2014	8/28/2014	12/9/2014	2/20/2014	5/28/2014	8/28/2014	12/9/2014	2/20/2014	5/28/2014	8/28/2014	12/9/2014	2/20/2014	5/28/2014	8/28/2014	12/9/2014	
Groundwater Monitoring Zone	Standard	Deep	Deep	Deep	Deep	Shallow	Shallow	Shallow	Shallow	Deep	Deep	Deep	Deep	Deep	Shallow	Shallow	Shallow	Shallow	Intermediate	Intermediate	Intermediate	Intermediate	Shallow	Shallow	Shallow	Shallow	
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	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 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	1.0 U	1.0 U	1.0 U	1.0 U	130 D	720	140 DJ	570	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	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	1.0 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	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	24	18	12 J	8.2	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	5	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	1.0 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	1.0 U	1.0 U	1.0 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 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	3.2	4.4	2.5 J	2.2	250 D	420	220 DJ	280	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	31	78	23 J	40	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene	5	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.8	0.38 J	0.44 J	5.0 U	10 UD	10 U	1.0 U	33 U	1.0 U	1.0 U	5.0 U	
1,2,4-Trichlorobenzene	5	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	1.0 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	1.0 U	6.7 U	1.0 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 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	8.8	2.0	4.2 U	1.0 U	10 UD	10 U	1.0 U	6.7 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	2.0 U	1.0 U	1.0 U	1.0 U	2.0 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	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	
1,2-Dibromooethane (Ethylene Dibromide)	5	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	1.0 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	1.0 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	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	6.7 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	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	1.0 U	1.0 U	1.0 U	1.0 U	0.4 J	10 U	0.39 J	6.7 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	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	1.0 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	1.0 U	
1,3,5-Trimethylbenzene (Mesitylene)	5	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	1.0 U	1.0 U	1.0 U	1.0 U	4.4	1.2	4.0 J	1.0 U	10 UD	10 U	1.0 U	6.7 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	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	6.7 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	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	6.7 U	1.0 U	1.0 U	1.0 U	
2-Butanone (MEK)	50	10 U	10 U	10 U	10 U	1.6 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	100 U	10 U	10 U	6.7 U	1.4 J	10 U	10 U	
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	10 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	5.0 U	10 U	5.0 U	5.0 U	5.0 U	6.7 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	5.0 U	5.0 U	5.0 U	10 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	5.0 U	10 U	5.0 U	5.0 U	5.0 U	6.7 U	5.0 U	5.0 U	5.0 U	
Acetone	50*	5.9 J	3.5 J	7.1 J	10 U	12	4.0 J	7.6 J	10 U	3.1 J	12	10 U	11	10 U	6.1 J	10 U	7.2 J	10 U	8.3 J	100 U	9.8 J	6.7 U	9.3 J	4.2 J	10 U	10 U	
Benzene	1	1.0 U	1.0 U	8.2	0.39 J	1.0 U	1.9	7.2	8.0	0.7 J	0.7 J	0.92 J	0.98 J	0.82 J	1.8	1.8	1.8 J	1.1	1.0 U	0.62 J	6.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Bromodichloromethane	50	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	1.0 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	1.0 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	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	6.7 U*	1.0 U	1.0 U	1.0 U	1.0 U	
Bromomethane	5	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	1.0 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	1.0 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	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	6.7 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	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	6.7 U	1.0 U	1.0 U	1.0 U	
Chlorobenzene	5	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	1.0 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	1.0 U	6.7 U	1.0 U	1.0 U	1.0 U	
Chloroethane	5	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	1.0 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	1.0 U	6.7 U	1.0 U	1.0 U	1.0 U	
Chloroform	7	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	1.0 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	1.0 U	6.7 U	1.0 U	0.44 J	0.48 J	
Chloromethane		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	1.0 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	1.0 U	6.7 U	1.0 U	1.0 U	1.0 U	
cis-1,2-Dichloroethene	5	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	1.0 U	1.0 U	1.0 U	2.2	2.2	1.9 J	2.9	580 D	450	460 DJ	330	1.0 U	1.0 U	2.2 J	1.0 U	
cis-1,3-Dichloropropene	0.4	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	1.0 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	1.0 U	6.7 U	1.0 U	1.0 U	1.0 U	
Cyclohexane		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	1.0 U	1.0 U	1.0 U	0.8 J	0.61 J	0.85 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	6.7 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	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	1.0 U	1.0 U*	1.0 U*	1.0 U	1.0 U	1.0 U	6.7 U	1.0 U	1.0 U	1.0 U	
Dichlorodifluoromethane	5	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	1.0 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	1.0 U	6.7 U	1.0 U	1.0 U	1.0 U	
Ethylbenzene	5	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	1.0 U	1.0 U	1.0 U	1.0 U	0.85 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	6.7 U	1.0 U	1.0 U	1.0 U	1.0 U	
Isopropylbenzene (Cumene)	5	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	1.0 U	1.0 U	1.0 U	8.8	2.0	4.2 U	1.0 U	1.0 U	1.0 U	1.0 U	6.7 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	2.5 U	2.5 U	2.5 U	2.5 U	10 U	2.5 U	2.5 U	2.5 U	10 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	2.5 U	2.5 U	2.5 U	10 U	
Methyl Cyclohexane		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	1.0 U	1.0 U	1.0 U	0.7 J	0.5 J	1.0 U	1.0 U	0.3 J	1.0 U	1.0 U	1.0 U	6.7 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	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	6.7 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	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	6.7 U	1.0 U	1.0 U	1.0 U	
Styrene	5	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	1.0 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	1.0 U	6.7 U	1.0 U	1.0 U	1.0 U	
Tetrachloroethene	5	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	1.0 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	1.0 U	6.7 U	1.0 U	1.0 U	1.0 U	
Toluene	5	1.0 U	1.0 U	1.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.7 J	0.6 J	1.1	0.83 J	0.64 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	6.7 U	1.0 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 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	2.4	2.8	1.8 J	1.8	2.3	1.0 U	1.3 J	6.7 U</					

Notes

1. NYSDEC GA GW Standard - New York State Department of Environmental Conservation
[REDACTED] - 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-Sample DUP-02 is a duplicate sample from 4009-25D

3-Sample DUP-01 is a duplicate sample from 4009-29D

Table 2-2 Summary of Groundwater Results
Remedial Site Optimization Report/ Fourth Quarter 2014
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard 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	4009-25D 2/20/2014 Shallow 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	4009-26 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	4009-27S 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	4009-27I 2/20/2014 Intermediate ug/L	4009-27I 5/28/2014 Intermediate ug/L	4009-27I 8/28/2014 Intermediate ug/L	4009-27I 12/9/2014 Intermediate ug/L
1,1,1-Trichloroethane	5	2600 D	3300	9900 DJ	3800	1900 D	1800 D	3300	3200	820 DJ	810 DJ	1900	1800	98	370	150 DJ	92	54	61	65 J	49	1.0 U	1.0 U	1.3 J	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	31	40 U	40 UDJ	32 J	32	31	22 J	16 J	19 DJ	20 DJ	25 J	77 U	7.7	13	6.0 DJ	7.7	2.8	3.4	2.3 J	2.6	1.0 U	0.37 J	1.0 UJ	1.0 U
1,1,2-Trichloroethane	1	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,1-Dichloroethane	5	87	140	120 DJ	99	74	79	120	110	53 DJ	51 DJ	50	53 J	27	39	16 DJ	14	1.9	2.2	2.2 J	1.9 J	1.0 U	1.0 U	1.0 UJ	1.0 U
1,1-Dichloroethene	5	110 D	410	650 DJ	280	120 D	50	330	330	57 DJ	44 DJ	190	130	6.0	46	9.9 DJ	7.8	5.7	8.9	5.6 J	4.6	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2,3-Trimethylbenzene		40 UDJ	40 U	40 UDJ	250 U	20 UD	1.0 U	20 U	25 U	20 UDJ	10 UDJ	170 U	380 U	2.0 UD	8.0 U	2.0 UDJ	10 U	1.0 U	1.0 U	1.0 UJ	10 U	1.0 U	1.0 U	1.0 UJ	5.0 U
1,2,4-Trichlorobenzene	5	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UDJ	2 U	1.0 U	1.0 U	1.0 UJ	2 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2,4-Trimethylbenzene	5	40 UD	40 U	40 UDJ	50 U	20 UD	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	2.0 UD	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	40 U	40 UDJ	100 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	67 U	150 U	1.0 U	8.0 U	2.0 UDJ	4.0 U	1.0 U	1.0 U	1.0 UJ	4.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2-Dichlorobenzene	3	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2-Dichloroethane	0.6	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	0.9 J	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2-Dichloropropane	1	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	40 UD	40 U	40 UDJ	50 U	20 UD	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	2.0 UD	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,3-Dichlorobenzene	3	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,4-Dichlorobenzene	3	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
2-Butanone (MEK)	50	10 U	400 U	400 UDJ	500 U	10 U	10 U	200 U	250 U	200 UDJ	100 UDJ	330 U	770 U	10 U	80 U	20 UDJ	20 U	10 U	10 U	10 UJ	20 U	10 U	10 U	10 UJ	10 U
2-Hexanone	50*	5.0 U	200 U	200 UDJ	500 U	5.0 U	5.0 U	100 U	130 U	100 UDJ	50 UDJ	330 U	770 U	5.0 U	40 U	10 UDJ	20 U	5.0 U	5.0 U	5.0 UJ	20 U	5.0 U	5.0 U	5.0 UJ	10 U
4-Methyl-2-pentanone (MIBK)		5.0 U	200 U	200 UDJ	500 U	5.0 U	5.0 U	100 U	130 U	100 UDJ	50 UDJ	330 U	770 U	5.0 U	40 U	10 UDJ	20 U	5.0 U	5.0 U	5.0 UJ	20 U	5.0 U	5.0 U	5.0 UJ	10 U
Acetone	50*	1.0 U	400 U	400 UDJ	500 U	6.0 J	5.6 J	200 U	250 U	200 UDJ	100 UDJ	330 U	770 U	10	80 U	20 UDJ	20 U	9.9 J	3.8 J	8.1 UJ	20 U	5.8 J	10 U	7.9 J	10 U
Benzene	1	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	0.81 J	8.0 U	2.0 UDJ	0.55 J	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	0.71 J	1.0 U
Bromodichloromethane	50	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Bromoform	50*	1.0 U	40 U	40 UDJ	50 U*	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U*	77 U	1.0 U	8.0 U	2.0 UDJ	2.0 U*	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Bromomethane	5	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Carbon disulfide		1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	0.86 J
Carbon tetrachloride	5	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Chlorobenzene	5	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Chloroethane	5	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Chloroform	7	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Chloromethane		1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
cis-1,2-Dichloroethene	5	180 D	210	490 DJ	260	76	80	110	140	100 DJ	94 DJ	260	280	120 D	190	96 DJ	85	18	20	19 J	19	1.0 U	1.0 U	1.0 UJ	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Cyclohexane		1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Dibromochloromethane	50	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Dichlorodifluoromethane	5	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	3.9	5.8 J	5.0 DJ	2.8	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Ethylbenzene	5	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Methyl Acetate		2.5 U	100 U	100 UDJ	500 U	2.5 U	2.5 U	50 U	63 U	50 UDJ	25 UDJ	330 U	770 U	2.5 U	20 U	5.0 UDJ	20 U	2.5 U	2.5 U	2.5 UJ	20 U	2.5 U	2.5 U	2.5 UJ	10 U
Methyl Cyclohexane		1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Methylene Chloride	5	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Methyl Tert Butyl Ether	10	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	26 J B	8.4	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Styrene	5	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Tetrachloroethene	5	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.1	8.0 U	0.97 DJ	0.89 J	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Toluene	5	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	0.77 J
trans-1,2-Dichloroethene	5	2.9	40 U	40 UDJ	50 U	2.0	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Trichloroethene	5	32	40 U	2900 DJ	230	16	15	10 J	25 U	21 DJ	16 DJ	100	84	45	71	47 DJ	49	25	28	24 J	22	1.4	1.1	1.2 J	0.34 J
Trichlorofluoromethane	5	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Vinyl chloride	2	3.7																							

Table 2-2 Summary of Groundwater Results
Remedial Site Optimization Report/ Fourth Quarter 2014
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID	NYSDEC GA Standard ug/L	4009-27D 2/20/2014 Deep ug/L	4009-27D 5/28/2014 Deep ug/L	4009-27D 8/28/2014 Deep ug/L	4009-27D 12/9/2014 Deep ug/L	4009-28 2/20/2014 Deep ug/L	4009-28 5/28/2014 Deep ug/L	4009-28 8/28/2014 Deep ug/L	4009-28 12/9/2014 Deep ug/L	4009-29S 2/20/2014 Intermediate ug/L	4009-29S 5/28/2014 Intermediate ug/L	4009-29S 8/28/2014 Intermediate ug/L	4009-29S 12/9/2014 Intermediate ug/L	4009-29I 2/20/2014 Intermediate ug/L	DUP_01 ³ 2/20/2014 Intermediate ug/L	4009-29I 5/28/2014 Intermediate ug/L	DUP_01 ³ 5/28/2014 Intermediate 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	4009-29D 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
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.3	2.7	1.0 U	3.0	710 D	650	1000 DJ	480	1700 D	1500 D	1600	1500	130 DJ	130 DJ	1100	1100	1.0 U	80	1200 DJ	170
1,1,2,2-Tetrachloroethane	5	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	12	10 U	17 U	1.0 U	1.0 U	25 U	25 U	2.0 UDJ	2.0 UDJ	40 U	40 U	1.0 U	1.0 U	1.0 U	5.7 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		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	12	10 U	7.1 DJ	17 U	21	25 U	25 U	2.0 UDJ	2.0 UDJ	15 J	15 J	1.0 U	1.1	14	2.9 J
1,1,2-Trichloroethane	1	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	10 U	10 UJ	17 U	0.86 J	0.86 J	25 U	25 U	2.0 UDJ	2.0 UDJ	40 U	40 U	1.0 U	1.0 U	0.65 J	5.7 U
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	0.28 J	130 D	35	46 D	29	83	86	96	89	21 DJ	20 DJ	82	83	1.1	16	150 DJ	27
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	0.3 J	1.0 U	1.0 U	92	89	62 D	33	150 D	99	230	230	6.4 DJ	5.7 DJ	92	83	1.0 U	12	130 DJ	27
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	10 U	10 UJ	83 U	1.0 U	1.0 U	25 U	25 U	2.0 UDJ	2.0 UDJ	200 U	200 U	1.0 U	1.0 U	1.0 U	29 U
1,2,4-Trichlorobenzene	5	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	10 U	10 UJ	17 U	1.0 U	1.0 U	25 U	25 U	2.0 UDJ	2.0 UDJ	40 U	40 U	1.0 U	1.0 U	1.0 U	5.7 U
1,2,4-Trimethylbenzne	5	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	10 U	10 UJ	17 U	1.0 U	1.0 U	25 U	25 U	2.0 UDJ	2.0 UDJ	40 U	40 U	1.0 U	1.0 U	1.0 U	5.7 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	10 U	10 UJ	33 U	1.0 U	1.0 U	25 U	25 U	2.0 UDJ	2.0 UDJ	80 U	80 U	1.0 U	1.0 U	1.0 U	11 U
1,2-Dibromoethane (Ethylene Dibromide)	5	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	10 U	10 UJ	17 U	1.0 U	1.0 U	25 U	25 U	2.0 UDJ	2.0 UDJ	40 U	40 U	1.0 U	1.0 U	1.0 U	5.7 U
1,2-Dichlorobenzene	3	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	10 U	10 UJ	17 U	1.0 U	1.0 U	25 U	25 U	2.0 UDJ	2.0 UDJ	40 U	40 U	1.0 U	1.0 U	1.0 U	5.7 U
1,2-Dichloroethane	0.6	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	10 U	10 UJ	17 U	0.41 J	0.40 J	25 U	25 U	2.0 UDJ	2.0 UDJ	40 U	40 U	1.0 U	1.0 U	0.72 J	5.7 U
1,2-Dichloropropane	1	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	10 U	10 UJ	17 U	1.0 U	1.0 U	25 U	25 U	2.0 UDJ	2.0 UDJ	40 U	40 U	1.0 U	1.0 U	1.0 U	5.7 U
1,3,5-Trimethylbenzene (Mesitylene)	5	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	10 U	10 UJ	17 U	1.0 U	1.0 U	25 U	25 U	2.0 UDJ	2.0 UDJ	40 U	40 U	1.0 U	1.0 U	1.0 U	5.7 U
1,3-Dichlorobenzene	3	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	10 U	10 UJ	17 U	1.0 U	1.0 U	25 U	25 U	2.0 UDJ	2.0 UDJ	40 U	40 U	1.0 U	1.0 U	1.0 U	5.7 U
1,4-Dichlorobenzene	3	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	10 U	10 UJ	17 U	1.0 U	1.0 U	25 U	25 U	2.0 UDJ	2.0 UDJ	40 U	40 U	1.0 U	1.0 U	1.0 U	5.7 U
2-Butanone (MEK)	50	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	100 U	100 UJ	170 U	10 U	10 U	250 U	250 U	20 UDJ	20 UDJ	400 U	400 U	10 U	10 U	10 U	57 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	50 U	50 UJ	170 U	5.0 U	5.0 U	130 U	130 U	10 UDJ	10 UDJ	400 U	400 U	5.0 U	5.0 U	5.0 U	57 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	50 U	50 UJ	170 U	5.0 U	5.0 U	130 U	130 U	10 UDJ	10 UDJ	400 U	400 U	5.0 U	5.0 U	5.0 U	57 U
Acetone	50*	9.8 J	4.8 J	8.0 J	10 U	7.9 J	3.7 J	6.8 J	6.0 J	100 U	100 UJ	170 U	11	13	250 U	250 U	12 DJ	14 DJ	400 U	400 U	6.9 J	10 U	10 U	57 U	
Benzene	1	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	10 U	10 UJ	17 U	0.59 J	0.60 J	25 U	25 U	2.0 UDJ	2.0 UDJ	40 U	40 U	1.0 U	1.0 U	0.72 J	5.7 U
Bromodichloromethane	50	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	10 U	10 UJ	17 U	1.0 U	1.0 U	25 U	25 U	2.0 UDJ	2.0 UDJ	40 U	40 U	1.0 U	1.0 U	1.0 U	5.7 U
Bromoform	50*	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	10 U	10 UJ	17 U	1.0 U	1.0 U	25 U	25 U	2.0 UDJ	2.0 UDJ	40 U	40 U	1.0 U	1.0 U	1.0 U	5.7 U
Bromomethane	5	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	10 U	10 UJ	17 U	1.0 U	1.0 U	25 U	25 U	2.0 UDJ	2.0 UDJ	40 U	40 U	1.0 U	1.0 U	1.0 U	5.7 U
Carbon disulfide		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	10 U	10 UJ	17 U	1.0 U	1.0 U	25 U	25 U	2.0 UDJ	2.0 UDJ	40 U	40 U	1.0 U	1.0 U	1.0 U	5.7 U
Carbon tetrachloride	5	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	10 U	10 UJ	17 U	1.0 U	1.0 U	25 U	25 U	2.0 UDJ	2.0 UDJ	40 U	40 U	1.0 U	1.0 U	1.0 U	5.7 U
Chlorobenzene	5	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	10 U	10 UJ	17 U	1.6	1.7	25 U	25 U	2.0 UDJ	2.0 UDJ	40 U	40 U	1.0 U	1.0 U	1.0 U	5.7 U
Chloroethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.9	10 U	10 UJ	17 U	5.0	4.6	25 U	25 U	2.0 UDJ	2.0 UDJ	40 U	40 U	1.0 U	1.4	8.8 DJ	5.7 U
Chloroform	7	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.69 J	10 U	10 UJ	17 U	1.1	1.2	25 U	25 U	1.1 DJ	0.95 DJ	40 U	40 U	1.0 U	1.0 U	0.83 J	5.7 U
Chloromethane		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	10 U	10 UJ	17 U	1.0 U	1.0 U	25 U	25 U	2.0 UDJ	2.0 UDJ	40 U	40 U	1.0 U	1.0 U	1.0 U	5.7 U
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	0.25 J	260 D	340	410 D	270	400 D	350 D	400	380	53 DJ	50 DJ	330	330	1.4	25	400 DJ	150
cis-1,3-Dichloropropene	0.4	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	10 U	10 UJ	17 U	1.0 U	1.0 U	25 U	25 U	2.0 UDJ	2.0 UDJ	40 U	40 U	1.0 U	1.0 U	1.0 U	5.7 U
Cyclohexane		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	10 U	10 UJ	17 U	1.0 U	1.0 U	25 U	25 U	2.0 UDJ	2.0 UDJ	40 U	40 U	1.0 U	1.0 U	1.0 U	5.7 U
Dibromochloromethane	50	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	10 U	10 UJ	17 U	1.0 U	1.0 U	25 U	25 U	2.0 UDJ	2.0 UDJ	40 U	40 U	1.0 U	1.0 U	1.0 U	5.7 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.3	10 U	10 UJ	17 U	1.2	1.0 U	25 U	25 U	2.0 UDJ	2.0 UDJ	40 U	40 U	1.0 U	1.0 U	1.5	5.7 U
Ethylbenzene	5	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	10 U	10 UJ	17 U	1.0 U	1.0 U	25 U	25 U	2.0 UDJ	2.0 UDJ	40 U	40 U	1.0 U	1.0 U	1.0 U	5.7 U
Isopropylbenzne (Cumene)	5	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	10 U	10 UJ	17 U	1.0 U	1.0 U	25 U	25 U	2.0 UDJ	2.0 UDJ	40 U	40 U	1.0 U	1.0 U	1.0 U	5.7 U
Methyl Acetate		2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U	2.5 U	10 U	2.5 U	25 U	25 UJ	170 U	2.5 U	2.5 U	63 U	63 U	5.0 UDJ	5.0 UDJ	400 U	400 U	2.5 U	2.5 U	2.5 U	57 U
Methyl Cyclohexane		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	10 U	10 UJ	17 U	1.0 U	1.0 U	25 U	25 U	2.0 UDJ	2.0 UDJ	40 U	40 U	1.0 U	1.0 U	1.0 U	5.7 U
Methylene Chloride	5	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	10 U	10 UJ	17 U	1.0 U	1.0 U	25 U	25 U	1.2 DJ	1.1 DJ	40 U	40 U	1.0 U	1.0 U	1.0 U	5.7 U
Methyl Tert Butyl Ether	10	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	10 U	10 UJ	17 U	1.0 U	1.0 U	25 U	25 U	2.0 UDJ	2.0 UDJ	40 U	40 U	1.0 U	1.0 U	1.0 U	5.7 U
Styrene	5	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	10 U	10 UJ	17 U	1.0 U	1.0 U	25 U	25 U	2.0 UDJ	2.0 UDJ	40 U	40 U	1.0 U	1.0 U	1.0 U	5.7 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.95 J	10 U	10 UJ	17 U	2.1	2.0	25 U	25 U	2.0 UDJ	2.0 UDJ	40 U	40 U	1.0 U	1.0 U	1.0	5.7 U
Toluene	5	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	10 U	10 UJ	17 U	1.0 U	1.0 U	25 U	25 U	3.7 DJ	3.6 DJ	40 U	40 U	1.0 U	1.0 U	1.0 U	5.7 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.5	10 U	10 UJ	17 U	3.4	1.5	25 U	25 U	2.0 UDJ	2.0 UDJ	40 U	40 U	1.0 U	1.0 U	1.8	5.7 U
trans-1,3-Dichloropropene	0.4	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	10 U	10 UJ	17 U	1.0 U	1.0 U	25 U	25 U	2.0 UDJ	2.0 UDJ	40 U	40 U	1.0 U	1.0 U	1.0 U	5.7 U
Trichloroethene	5	1.0 U	1.0 U	0.48 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	300 D	10 U	27 D	3.5 J	450 D	410 D	460	430	34 DJ	33 DJ	360	360	1.8	17	400 DJ	26
Trichlorofluoromethane	5	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	10 U	10 UJ	17 U	0.94 J	1.1	25 U	25 U	2.0 UDJ	2.0 UDJ	40 U	40 U	1.0 U	1.0 U	1.0 U	5.7 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U																					

Table 2-3 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
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
1.1.2-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
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
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
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
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
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
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
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
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
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
1.2-Chlorobenzene	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
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
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
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
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
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
2-Butanone (MEK)	50	NA	10 U	NA	10 U	10.0 U	NA	10 U	NA	NA	10 U	10 U	NA
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
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
Acetone	50*	NA	10 U	NA	10 U	10.0 U	NA	10 U	NA	NA	10 U	10 U	NA
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
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
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
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
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
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
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
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
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
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
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
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	0.5 U
Cyclohexane		NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA
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
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
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
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
Methyl Acetate		NA	NA	NA	2.5 U	NA	NA	2.5 U	NA	NA	2.5 U	10 U	NA
Methyl Cyclohexane		NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA
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
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
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
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
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
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
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
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
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
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
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
Total VOCs		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

U - Compound was not detected at the indicated concentration

* LCS or LCSD exceeds the control limits

Table 2-3 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 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	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
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
1.1.2-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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
2-Butanone (MEK)	50	NA	10 U	NA	10 U	10.0 U	NA	10 U	NA	NA	10 U	10 U	NA
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
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
Acetone	50*	NA	10 U	NA	10 U	10.0 U	NA	10 U	NA	NA	10 U	10 U	NA
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
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	0.5 U	1.0 U	1.0 U	NA
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
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
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
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
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
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
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
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
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
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
Cyclohexane		NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA
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
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
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
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
Methyl Acetate		NA	NA	NA	2.5 U	NA U	NA	2.5 U	NA	NA	2.5 U	10 U	NA
Methyl Cyclohexane		NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA
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
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
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
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
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
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
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
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
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
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
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
Total VOCs		0	0	0	0	0	0	0	0	0	0	0	0

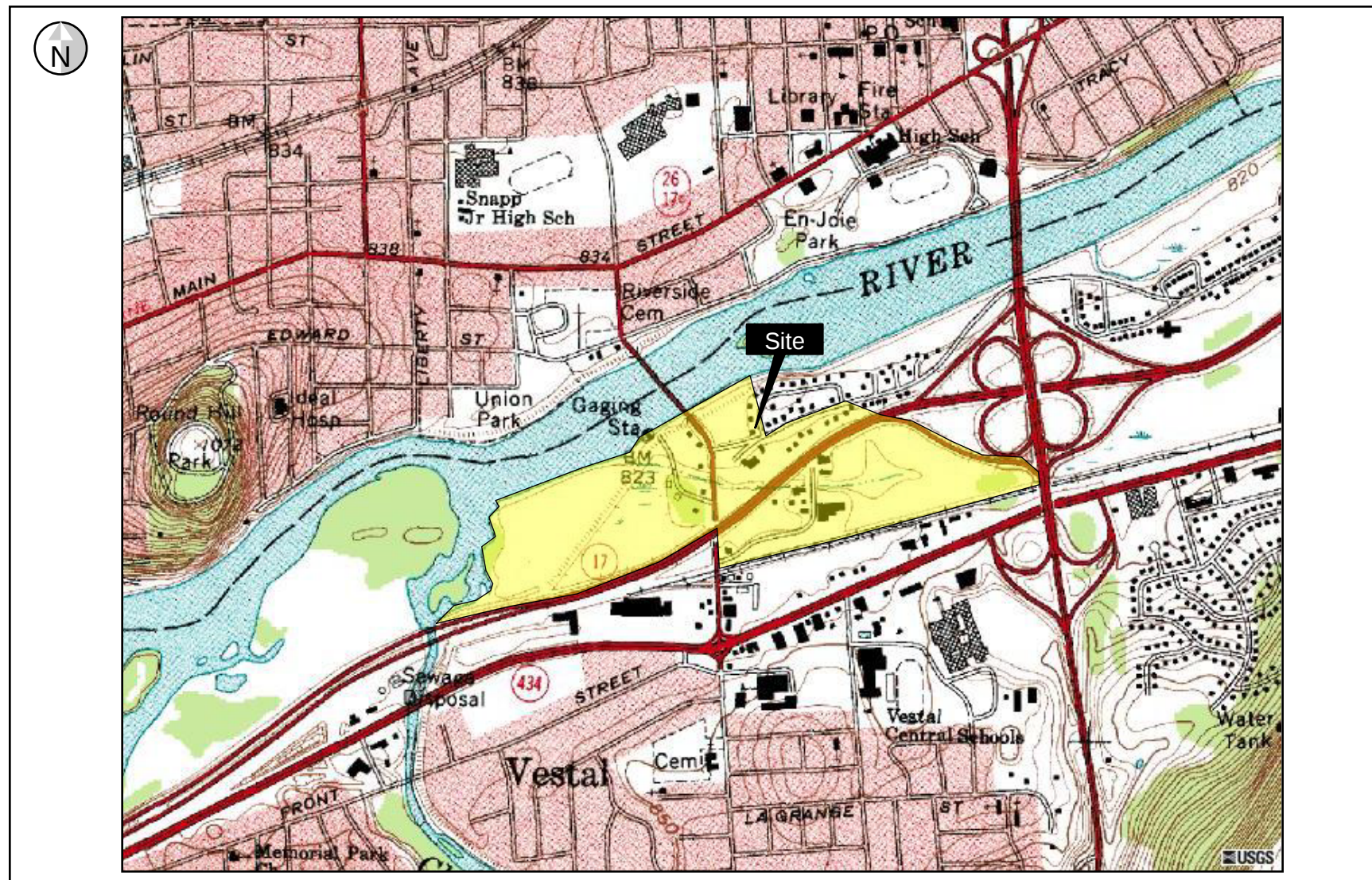
Notes
NYSDEC GA GW Standard - New York State Department of Environmental Conservation
- Concentration exceeds NYSDEC Class GA Standard
NA - Not Analyzed
U - Compound was not detected at the indicated concentration
* LCS or LCSD exceeds the control limits

Table 3-1 Summary Recommended Groundwater Monitoring Locations
Remedial Site Optimization Report / Fourth Quarter 2014
Vestal Water Supply Site
Site Number 7-04-009A

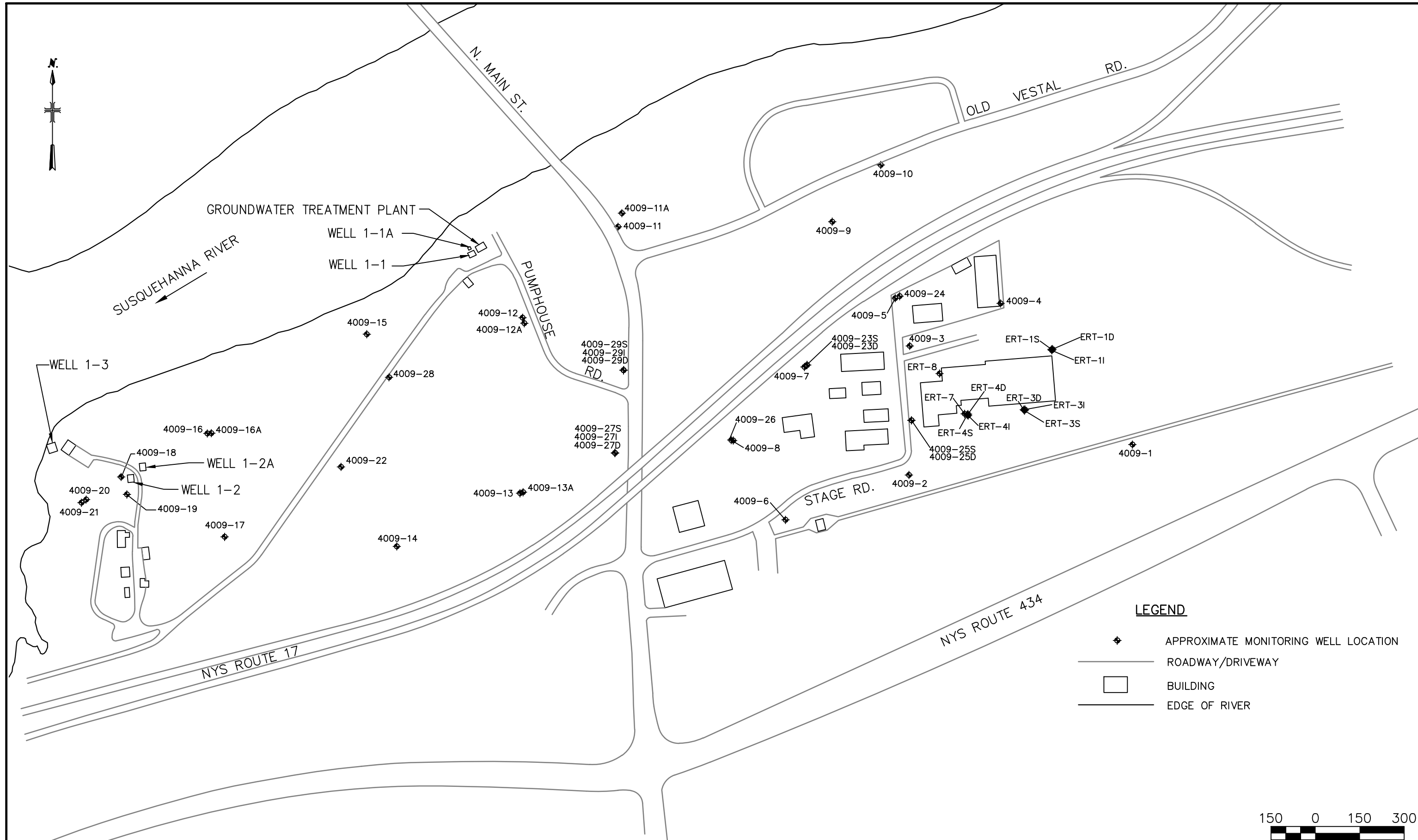
WELL I.D.	Wells Sampled During 2014 RSO Monitoring Events				Recommended Quarterly Monitoring Locations
	2/20/2014	5/28/2014	8/28/2014	12/9/2014	2015
4009-1	X	X	X	X	
4009-2	X	X	X	X	
4009-3	X	X	X	X	
4009-4	X	X	X	X	
4009-5	X	X	X	X	
4009-6	X	X	X	X	
4009-7	X	X	X	X	
4009-8	X	X	X	X	
4009-9	X	X	X	X	X
4009-10	X	X	X	X	X
4009-11	X	X	X	X	X
4009-11A	X	X	X	X	X
4009-12	X	X	X	X	X
4009-12A	X	X	X	X	
4009-13	X	X	X	X	X
4009-13A	X	X	X	X	X
4009-14	X	X	X	X	X
4009-15	X	X	X	X	X
4009-16	X	X	X	X	X
4009-16A	X	X	X	X	X
4009-17					
4009-18					X
4009-19					X
4009-20					
4009-21					X
4009-22	X	X	X	X	X
4009-23S	X	X	X	X	
4009-23D	X	X	X	X	
4009-24	X	X	X	X	
4009-25S	X	X	X	X	
4009-25D	X	X	X	X	
4009-26	X	X	X	X	
4009-27S	X	X	X	X	X
4009-27I	X	X	X	X	X
4009-27D	X	X	X	X	X
4009-28	X	X	X	X	X
4009-29S	X	X	X	X	X
4009-29I	X	X	X	X	X
4009-29D	X	X	X	X	X
WELL 1-1					X
WELL 1-1A	X				
ERT-1S					
ERT-1I	X				
ERT-1D	X				
ERT-2S					
ERT-2I					
ERT-2D					
ERT-3S	X				
ERT-3I	X				
ERT-3D	X				
ERT-4S	X				
ERT-4I	X				
ERT-4D	X				
ERT-5					
ERT-6					
ERT-7	X				
ERT-8	X				

Notes:

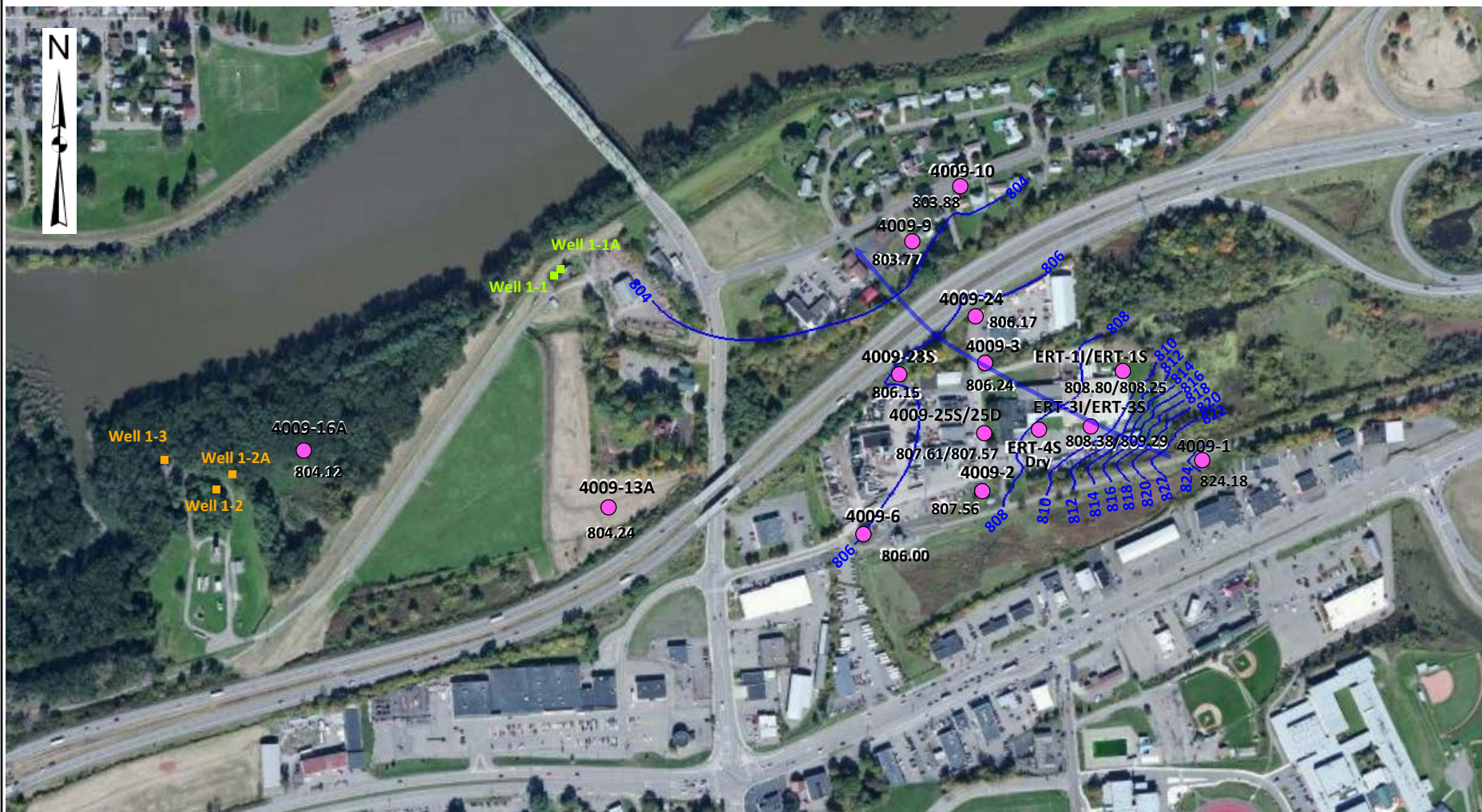
Figure 1-1
Site Location
Vestal Water Supply Site
Vestal, New York
NYSDEC Site # 7-04-009A



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



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



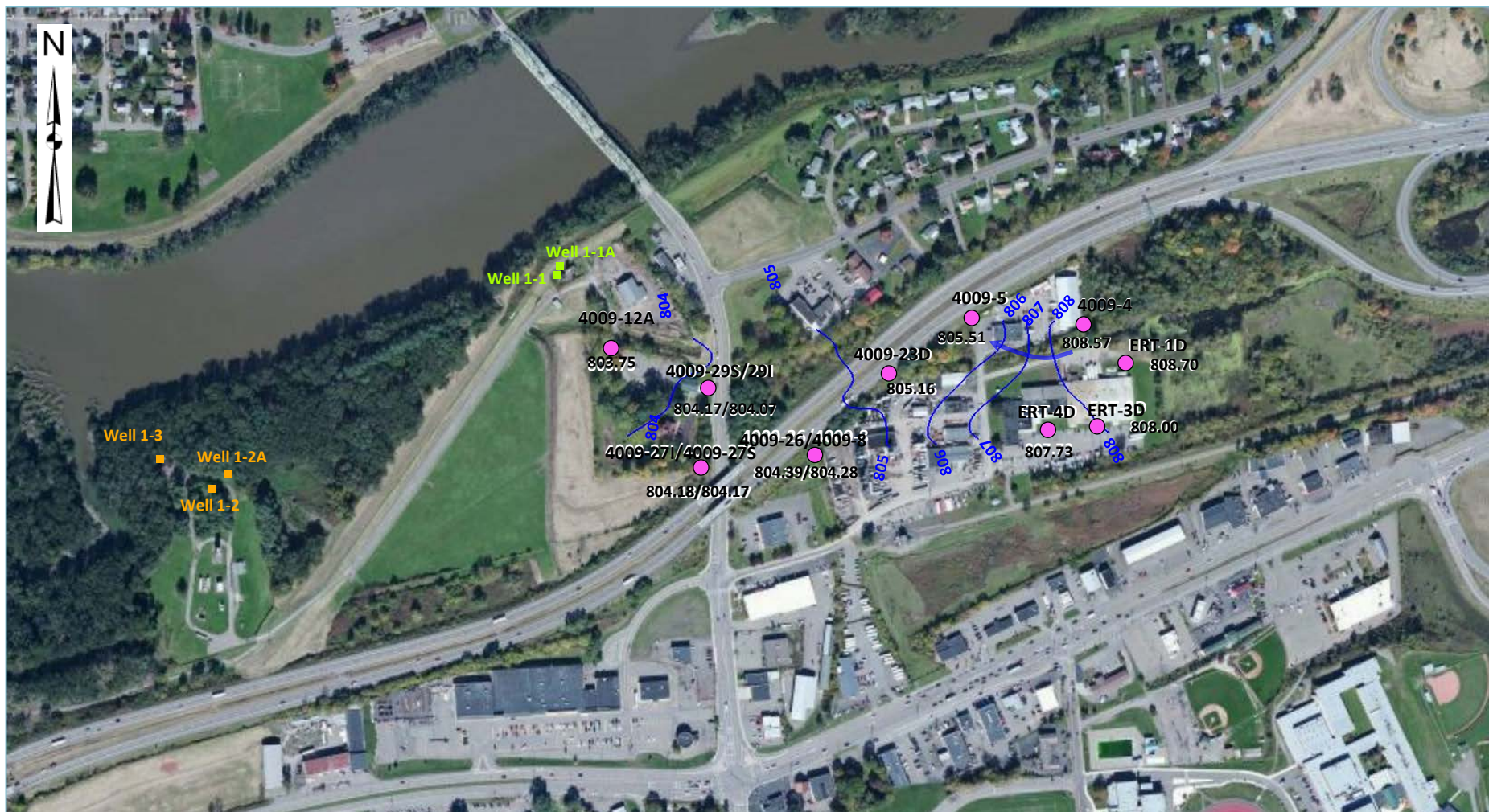
LEGEND

- Well 1-1A
EXTRACTION WELL & IDENTIFIER
- 4009-16A
MONITORING WELL & IDENTIFIER
(Groundwater Elevation – Feet AMSL)
- 804.12
GROUNDWATER ELEVATION
POTENTIOMETRIC CONTOUR
(Feet AMSL)
- ~ 808
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
(November 2014 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
 (November 2014 Heads)**



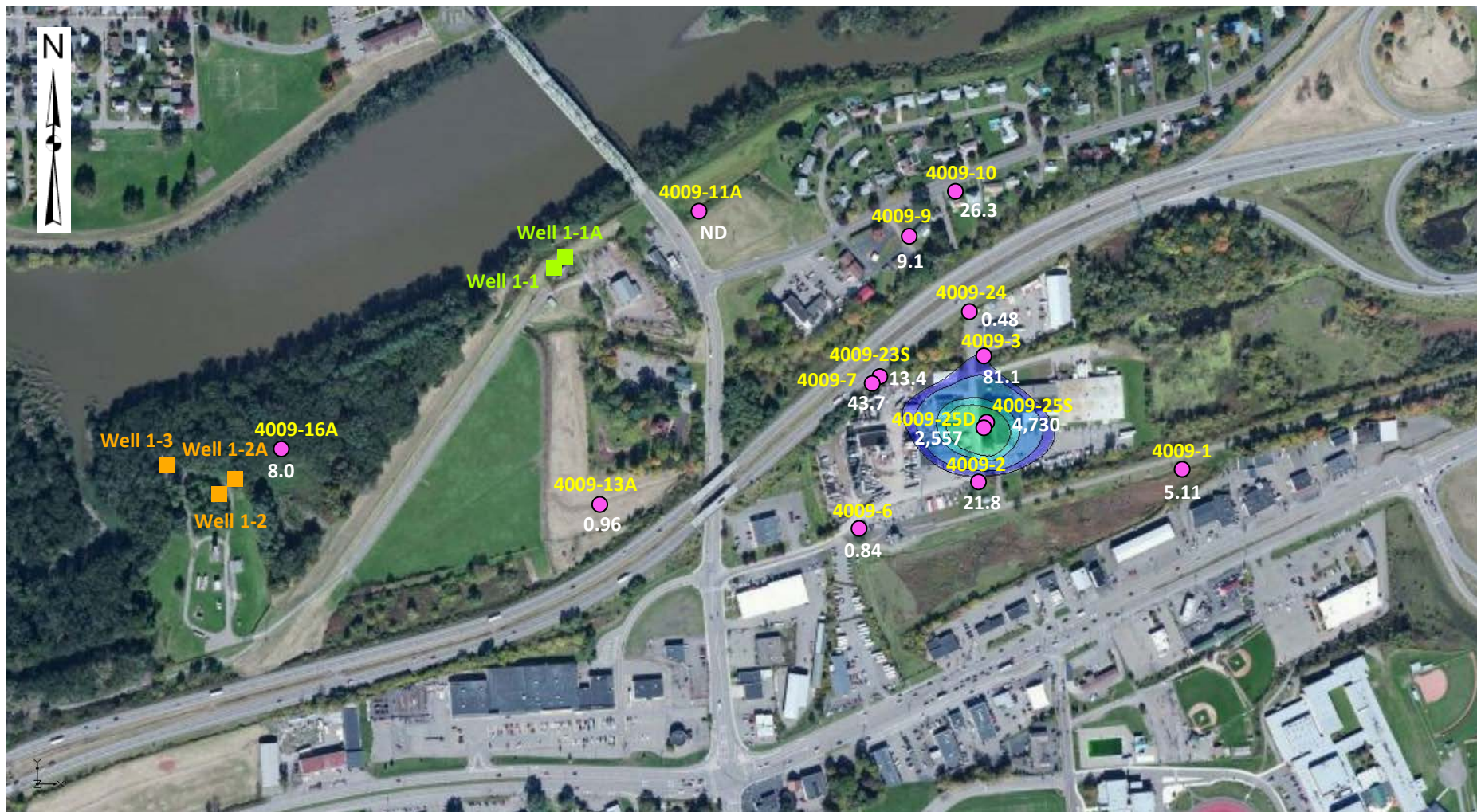
LEGEND

- Well 1-1A
EXTRACTION WELL & IDENTIFIER
- 4009-15
MONITORING WELL & IDENTIFIER
(Groundwater Elevation – Feet AMSL)
- ~ 803.7
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

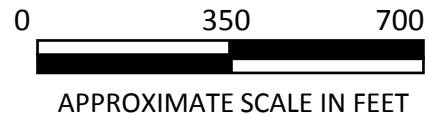
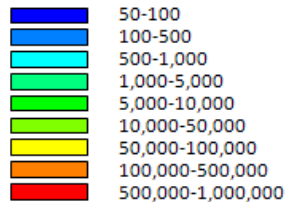
**Deep Potentiometric Surface
with Well 1-1A Inactive
(November 2014 Heads)**



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)



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

Total VOC Concentrations
(Shallow Wells)
December 9, 2014



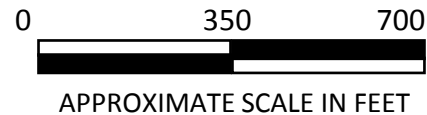
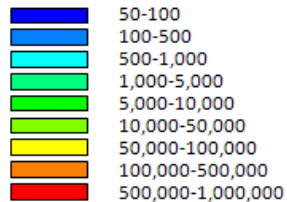
LEGEND

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)



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

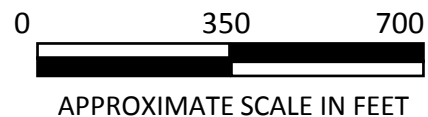
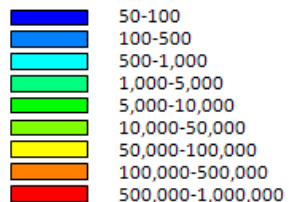
**Total VOC Concentrations
(Intermediate Wells)
December 9, 2014**



LEGEND

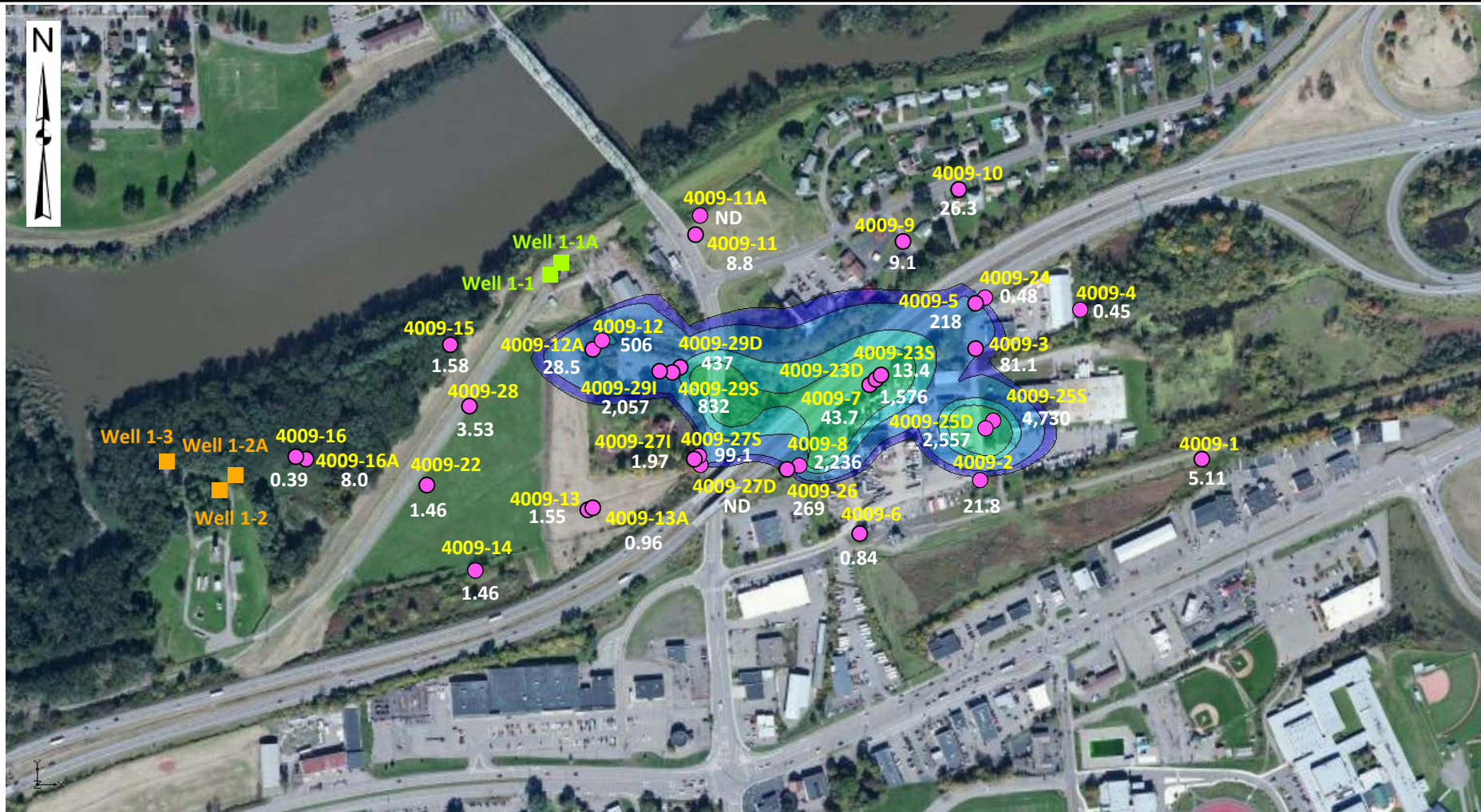
- Well 1-3**
WATER SUPPLY WELL & IDENTIFIER
- 4009-15**
MONITORING WELL & IDENTIFIER
- 1.1**
Total VOC Concentration(ug/L);
"ND" indicates no detection
- Well 1-1**
EXTRACTION WELL & IDENTIFIER

TOTAL VOCs (ug/l)



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

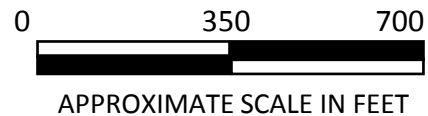
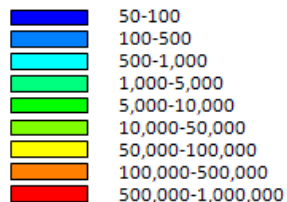
Total VOC Concentrations
(Deep Wells)
December 9, 2014



LEGEND

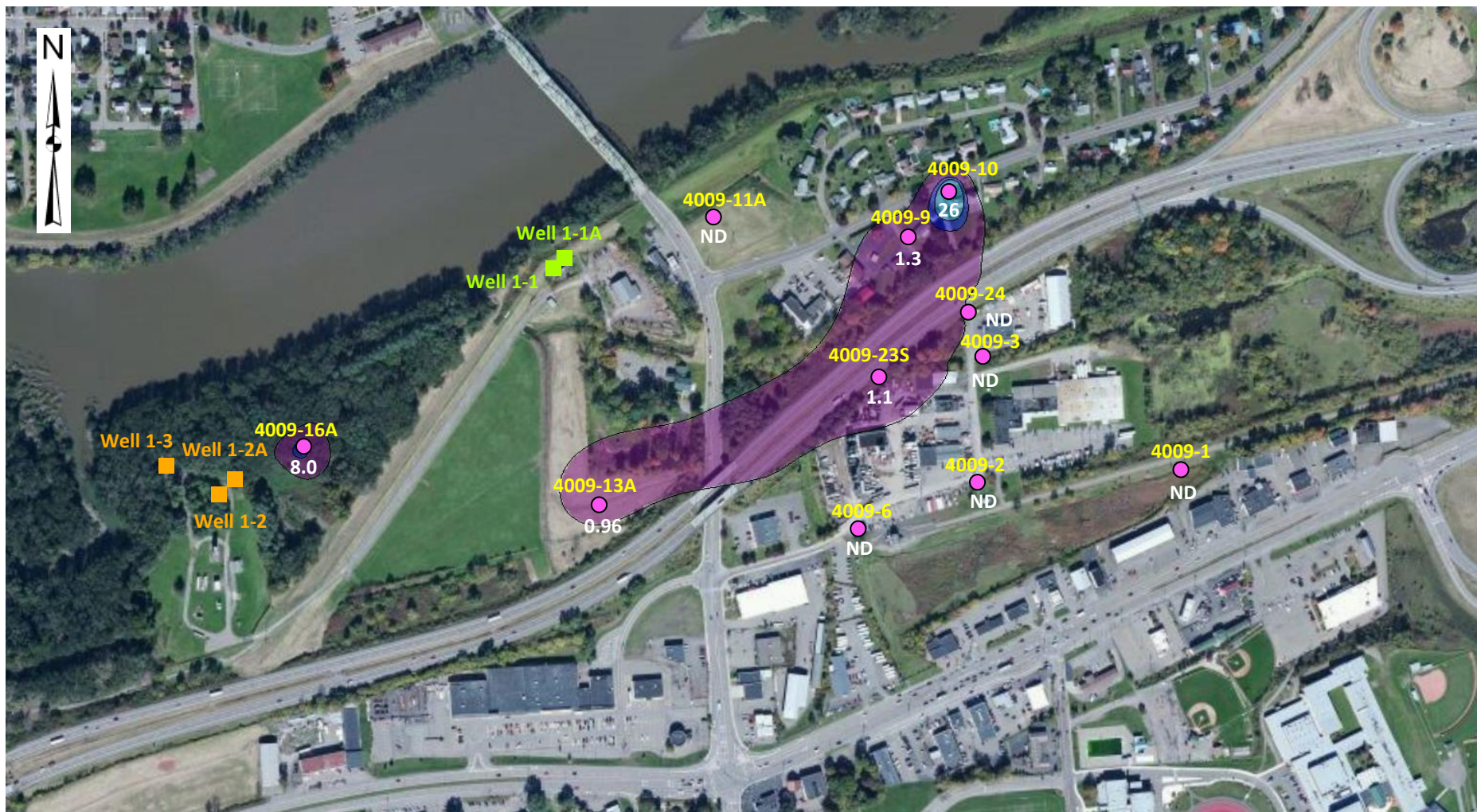
- Well 1-3** WATER SUPPLY WELL & IDENTIFIER
- 4009-7** MONITORING WELL & IDENTIFIER
55.7 Total VOC Concentration(ug/L); "ND" indicates no detection
- Well 1-1** EXTRACTION WELL & IDENTIFIER

TOTAL VOCs (ug/L)



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

Total VOC Concentrations
(All Wells)
December 9, 2014



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

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

**Benzene Concentrations
(Shallow Wells)
December 9, 2014**



LEGEND

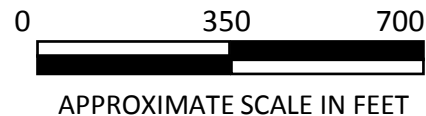
Well 1-3 WATER SUPPLY WELL & IDENTIFIER

4009-12A MONITORING WELL & IDENTIFIER

30.7 Total VOC Concentration(ug/L);
"ND" indicates no detection

Well 1-1 EXTRACTION WELL & IDENTIFIER

Concentration of Benzene (ug/l)



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

**Benzene Concentrations
(Intermediate Wells)
December 9, 2014**



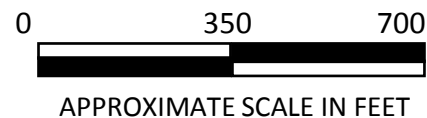
LEGEND

Well 1-3 WATER SUPPLY WELL & IDENTIFIER

4009-15 MONITORING WELL & IDENTIFIER
1.1 Total VOC Concentration(ug/L);
"ND" indicates no detection

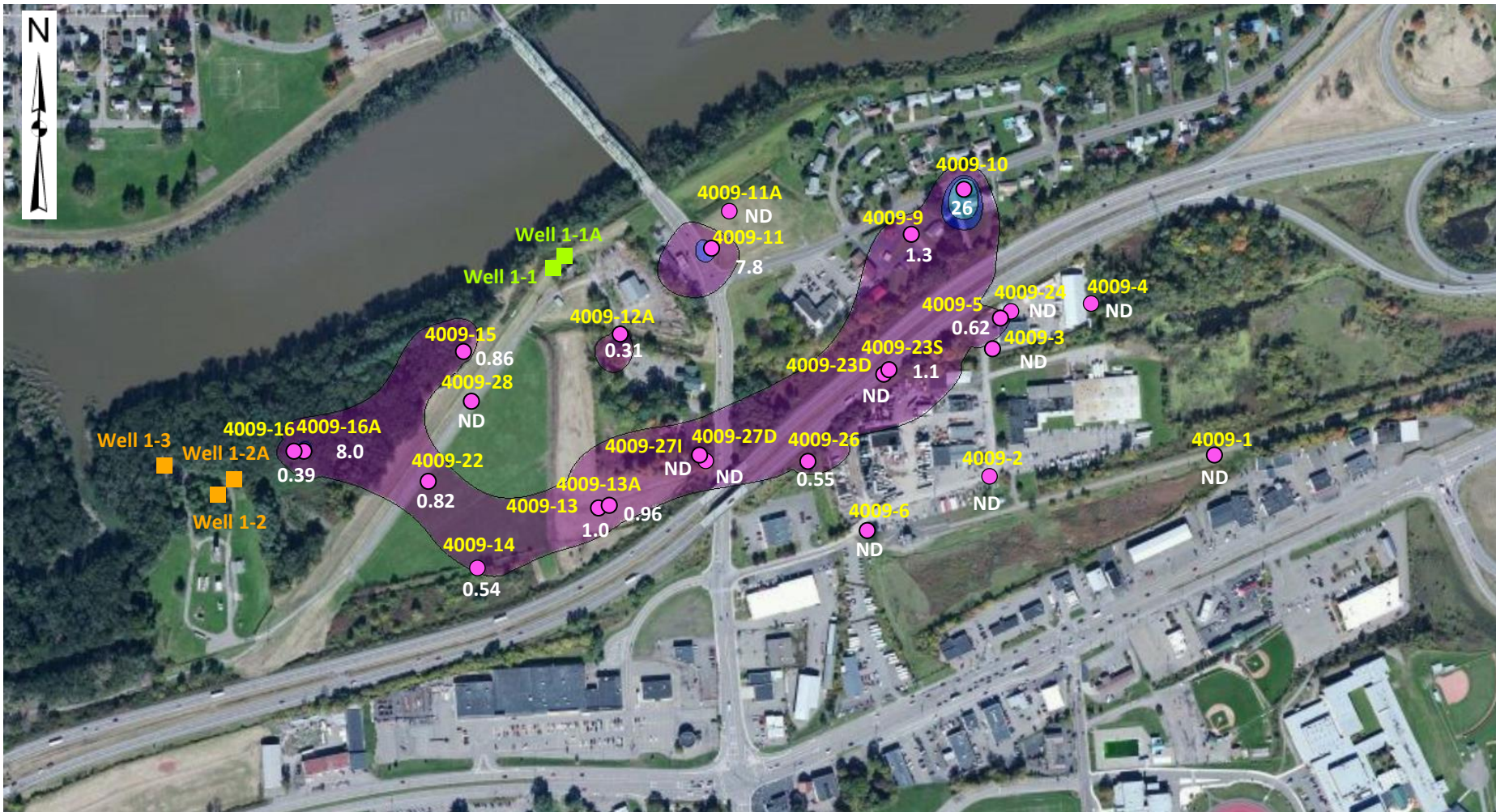
Well 1-1 EXTRACTION WELL & IDENTIFIER

Concentration of Benzene (ug/l)



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

**Benzene Concentrations
(Deep Wells)
December 9, 2014**



LEGEND

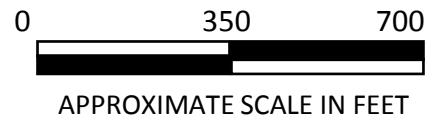
Well 1-3 WATER SUPPLY WELL & IDENTIFIER

4009-7 MONITORING WELL & IDENTIFIER

55.7 Total VOC Concentration(ug/L);
"ND" indicates no detection

Well 1-1 EXTRACTION WELL & IDENTIFIER

Concentration of Benzene (ug/l)



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

Benzene Concentrations
(All Wells)
December 9, 2014



LEGEND

- Well 1-3 WATER SUPPLY WELL & IDENTIFIER
- Well 1-1 EXTRACTION WELL & IDENTIFIER
- 4009-7 MONITORING WELL & IDENTIFIER
- 4009-21 PROPOSED MONITORING LOCATION

0 350 700

 APPROXIMATE SCALE IN FEET

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

**Proposed Monitoring Locations
 2015**

Appendix A

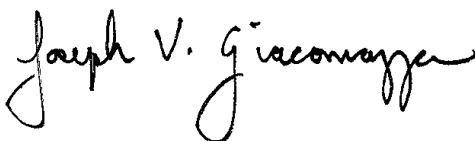
Analytical Reporting Forms
(TestAmerica Laboratories,
Inc. and Microbac
Laboratory Services)

ANALYTICAL REPORT

Job Number: 480-69812-1

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
11/7/2014 3:30 PM

Designee for
Judy L Stone, Senior Project Manager
10 Hazelwood Drive, Amherst, NY, 14228-2298
(484)685-0868
judy.stone@testamericainc.com
11/07/2014

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

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Job Narrative
480-69812-1

Receipt

The samples were received on 10/22/2014 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.3° C.

GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) associated with batch 211429 recovered above the upper control limit for Carbon Tetrachloride and Chlorodibromomethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCVIS 480-211429/2).

Method 8260C: The laboratory control sample (LCS) for batch 211429 recovered outside control limits for the following analytes: Chlorodibromomethane. These were not requested spike compounds; therefore, the data have been qualified and reported. (LCS 480-211429/4)

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: 480-69812-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-69812-1	WELL 1-2A	Water	10/21/2014 1410	10/22/2014 0900
480-69812-2	WELL 1-3A	Water	10/21/2014 1415	10/22/2014 0900
480-69812-3	TRIP BLANK	Water	10/21/2014 0000	10/22/2014 0900

EXECUTIVE SUMMARY - Detections

Client: ARCADIS U.S. Inc

Job Number: 480-69812-1

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

No Detections

METHOD SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 480-69812-1

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: 480-69812-1

Method	Analyst	Analyst ID
SW846 8260C	Boldt, Erik D	EDB

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-69812-1

Client Sample ID: WELL 1-2A

Lab Sample ID: 480-69812-1

Date Sampled: 10/21/2014 1410

Client Matrix: Water

Date Received: 10/22/2014 0900

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-211429	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T7136.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/01/2014 1133			Final Weight/Volume:	5 mL
Prep Date:	11/01/2014 1133				

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-Trichloroethane	1.0	U	0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.38	1.0
1,1-Dichloroethene	1.0	U	0.29	1.0
1,2,4-Trichlorobenzene	1.0	U	0.41	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.39	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
1,2,3-Trimethylbenzene	1.0	U	0.26	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
Dibromochloromethane	1.0	U *	0.32	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
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
1,2-Dibromoethane	1.0	U	0.73	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
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	1.0	U	0.46	1.0

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-69812-1

Client Sample ID: WELL 1-2A

Lab Sample ID: 480-69812-1

Date Sampled: 10/21/2014 1410

Client Matrix: Water

Date Received: 10/22/2014 0900

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-211429	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T7136.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/01/2014 1133			Final Weight/Volume:	5 mL
Prep Date:	11/01/2014 1133				

Analyte	Result (ug/L)	Qualifier	MDL	RL
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
Toluene-d8 (Surr)	98		71 - 126
1,2-Dichloroethane-d4 (Surr)	95		66 - 137
4-Bromofluorobenzene (Surr)	100		73 - 120
Dibromofluoromethane (Surr)	104		60 - 140

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-69812-1

Client Sample ID: WELL 1-3A

Lab Sample ID: 480-69812-2

Date Sampled: 10/21/2014 1415

Client Matrix: Water

Date Received: 10/22/2014 0900

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-211429	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T7137.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/01/2014 1158			Final Weight/Volume:	5 mL
Prep Date:	11/01/2014 1158				

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-Trichloroethane	1.0	U	0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.38	1.0
1,1-Dichloroethene	1.0	U	0.29	1.0
1,2,4-Trichlorobenzene	1.0	U	0.41	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.39	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
1,2,3-Trimethylbenzene	1.0	U	0.26	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
Dibromochloromethane	1.0	U *	0.32	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
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
1,2-Dibromoethane	1.0	U	0.73	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
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	1.0	U	0.46	1.0

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-69812-1

Client Sample ID: WELL 1-3A

Lab Sample ID: 480-69812-2

Date Sampled: 10/21/2014 1415

Client Matrix: Water

Date Received: 10/22/2014 0900

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-211429	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T7137.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/01/2014 1158			Final Weight/Volume:	5 mL
Prep Date:	11/01/2014 1158				

Analyte	Result (ug/L)	Qualifier	MDL	RL
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
Toluene-d8 (Surr)	98		71 - 126
1,2-Dichloroethane-d4 (Surr)	95		66 - 137
4-Bromofluorobenzene (Surr)	103		73 - 120
Dibromofluoromethane (Surr)	104		60 - 140

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-69812-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-69812-3

Client Matrix: Water

Date Sampled: 10/21/2014 0000

Date Received: 10/22/2014 0900

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-211429	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T7138.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/01/2014 1222			Final Weight/Volume:	5 mL
Prep Date:	11/01/2014 1222				

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-Trichloroethane	1.0	U	0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.38	1.0
1,1-Dichloroethene	1.0	U	0.29	1.0
1,2,4-Trichlorobenzene	1.0	U	0.41	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.39	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
1,2,3-Trimethylbenzene	1.0	U	0.26	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
Dibromochloromethane	1.0	U *	0.32	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
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
1,2-Dibromoethane	1.0	U	0.73	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
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	1.0	U	0.46	1.0

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-69812-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-69812-3

Date Sampled: 10/21/2014 0000

Client Matrix: Water

Date Received: 10/22/2014 0900

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-211429	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T7138.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/01/2014 1222			Final Weight/Volume:	5 mL
Prep Date:	11/01/2014 1222				

Analyte	Result (ug/L)	Qualifier	MDL	RL
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
Toluene-d8 (Surr)	99		71 - 126
1,2-Dichloroethane-d4 (Surr)	98		66 - 137
4-Bromofluorobenzene (Surr)	105		73 - 120
Dibromofluoromethane (Surr)	104		60 - 140

Client: ARCADIS U.S. Inc

Job Number: 480-69812-1

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
480-69812-1	WELL 1-2A	104	95	98	100
480-69812-2	WELL 1-3A	104	95	98	103
480-69812-3	TRIP BLANK	104	98	99	105
MB 480-211429/6		104	98	99	103
LCS 480-211429/4		106	99	99	106

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: 480-69812-1

Method Blank - Batch: 480-211429

Method: 8260C Preparation: 5030C

Lab Sample ID: MB 480-211429/6
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/01/2014 1059
Prep Date: 11/01/2014 1059
Leach Date: N/A

Analysis Batch: 480-211429
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: HP5975T
Lab File ID: T7135.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-Trichloroethane	1.0	U	0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.31	1.0
1,1-Dichloroethane	1.0	U	0.38	1.0
1,1-Dichloroethene	1.0	U	0.29	1.0
1,2,4-Trichlorobenzene	1.0	U	0.41	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.39	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
1,2,3-Trimethylbenzene	1.0	U	0.26	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
Dibromochloromethane	1.0	U	0.32	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
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
1,2-Dibromoethane	1.0	U	0.73	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
trans-1,3-Dichloropropene	1.0	U	0.37	1.0

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-69812-1

Method Blank - Batch: 480-211429

Method: 8260C
Preparation: 5030C

Lab Sample ID: MB 480-211429/6
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/01/2014 1059
Prep Date: 11/01/2014 1059
Leach Date: N/A

Analysis Batch: 480-211429
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: HP5975T
Lab File ID: T7135.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
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
Toluene-d8 (Surr)	99	71 - 126
1,2-Dichloroethane-d4 (Surr)	98	66 - 137
4-Bromofluorobenzene (Surr)	103	73 - 120
Dibromofluoromethane (Surr)	104	60 - 140

Lab Control Sample - Batch: 480-211429

Method: 8260C
Preparation: 5030C

Lab Sample ID: LCS 480-211429/4
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/01/2014 1012
Prep Date: 11/01/2014 1012
Leach Date: N/A

Analysis Batch: 480-211429
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: HP5975T
Lab File ID: T7133.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	25.0	23.9	96	71 - 129	
1,1-Dichloroethene	25.0	24.1	96	58 - 121	
1,2-Dichlorobenzene	25.0	24.1	96	80 - 124	
1,2-Dichloroethane	25.0	23.1	92	75 - 127	
Benzene	25.0	24.6	98	71 - 124	
Chlorobenzene	25.0	23.2	93	72 - 120	
cis-1,2-Dichloroethene	25.0	25.0	100	74 - 124	
Ethylbenzene	25.0	23.4	93	77 - 123	
Methyl tert-butyl ether	25.0	24.2	97	64 - 127	
Tetrachloroethene	25.0	24.1	96	74 - 122	
Toluene	25.0	23.6	94	80 - 122	
trans-1,2-Dichloroethene	25.0	24.9	99	73 - 127	
Trichloroethene	25.0	24.4	98	74 - 123	

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	99	71 - 126
1,2-Dichloroethane-d4 (Surr)	99	66 - 137
4-Bromofluorobenzene (Surr)	106	73 - 120
Dibromofluoromethane (Surr)	106	60 - 140

DATA REPORTING QUALIFIERS

Client: ARCADIS U.S. Inc

Job Number: 480-69812-1

Lab Section	Qualifier	Description
GC/MS VOA	U	Analyzed for but not detected.
	*	LCS or LCSD exceeds the control limits

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-69812-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:480-211429					
LCS 480-211429/4	Lab Control Sample	T	Water	8260C	
MB 480-211429/6	Method Blank	T	Water	8260C	
480-69812-1	WELL 1-2A	T	Water	8260C	
480-69812-2	WELL 1-3A	T	Water	8260C	
480-69812-3	TRIP BLANK	T	Water	8260C	

Report Basis

T = Total

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-69812-1

Laboratory Chronicle

Lab ID: 480-69812-1

Client ID: WELL 1-2A

Sample Date/Time: 10/21/2014 14:10

Received Date/Time: 10/22/2014 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-69812-A-1		480-211429		11/01/2014 11:33	1	TAL BUF	EDB
A:8260C	480-69812-A-1		480-211429		11/01/2014 11:33	1	TAL BUF	EDB

Lab ID: 480-69812-2

Client ID: WELL 1-3A

Sample Date/Time: 10/21/2014 14:15

Received Date/Time: 10/22/2014 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-69812-A-2		480-211429		11/01/2014 11:58	1	TAL BUF	EDB
A:8260C	480-69812-A-2		480-211429		11/01/2014 11:58	1	TAL BUF	EDB

Lab ID: 480-69812-3

Client ID: TRIP BLANK

Sample Date/Time: 10/21/2014 00:00

Received Date/Time: 10/22/2014 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-69812-A-3		480-211429		11/01/2014 12:22	1	TAL BUF	EDB
A:8260C	480-69812-A-3		480-211429		11/01/2014 12:22	1	TAL BUF	EDB

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 480-211429/6		480-211429		11/01/2014 10:59	1	TAL BUF	EDB
A:8260C	MB 480-211429/6		480-211429		11/01/2014 10:59	1	TAL BUF	EDB

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 480-211429/4		480-211429		11/01/2014 10:12	1	TAL BUF	EDB
A:8260C	LCS 480-211429/4		480-211429		11/01/2014 10:12	1	TAL BUF	EDB

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.: 480-69812-1
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 1-2A	480-69812-1	104	95	98	100
WELL 1-3A	480-69812-2	104	95	98	103
TRIP BLANK	480-69812-3	104	98	99	105
	MB 480-211429/6	104	98	99	103
	LCS 480-211429/4	106	99	99	106

	<u>QC LIMITS</u>
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

Column to be used to flag recovery values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-69812-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: T7133.D
 Lab ID: LCS 480-211429/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethane	25.0	23.9	96	71-129	
1,1-Dichloroethene	25.0	24.1	96	58-121	
1,2-Dichlorobenzene	25.0	24.1	96	80-124	
1,2-Dichloroethane	25.0	23.1	92	75-127	
Benzene	25.0	24.6	98	71-124	
Chlorobenzene	25.0	23.2	93	72-120	
cis-1,2-Dichloroethene	25.0	25.0	100	74-124	
Ethylbenzene	25.0	23.4	93	77-123	
Methyl tert-butyl ether	25.0	24.2	97	64-127	
Tetrachloroethene	25.0	24.1	96	74-122	
Toluene	25.0	23.6	94	80-122	
trans-1,2-Dichloroethene	25.0	24.9	99	73-127	
Trichloroethene	25.0	24.4	98	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.: 480-69812-1
SDG No.: _____
Lab File ID: T7135.D Lab Sample ID: MB 480-211429/6
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: HP5975T Date Analyzed: 11/01/2014 10:59
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 480-211429/4	T7133.D	11/01/2014 10:12
WELL 1-2A	480-69812-1	T7136.D	11/01/2014 11:33
WELL 1-3A	480-69812-2	T7137.D	11/01/2014 11:58
TRIP BLANK	480-69812-3	T7138.D	11/01/2014 12:22

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

Lab Name: TestAmerica Buffalo Job No.: 480-69812-1
 SDG No.: _____
 Lab File ID: T5597.D BFB Injection Date: 09/21/2014
 Instrument ID: HP5975T BFB Injection Time: 12:30
 Analysis Batch No.: 203521

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	22.1
75	30.0 - 60.0 % of mass 95	49.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.5
173	Less than 2.0 % of mass 174	0.6 (0.9) 1
174	50.0 - 120.00 % of mass 95	66.6
175	5.0 - 9.0 % of mass 174	5.3 (7.9) 1
176	95.0 - 101.0 % of mass 174	67.1 (100.7) 1
177	5.0 - 9.0 % of mass 176	4.6 (6.9) 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 480-203521/18	T5609.D	09/21/2014	17:25
	IC 480-203521/19	T5610.D	09/21/2014	17:49
	IC 480-203521/20	T5611.D	09/21/2014	18:13
	IC 480-203521/21	T5612.D	09/21/2014	18:37
	IC 480-203521/22	T5613.D	09/21/2014	19:01
	IC 480-203521/23	T5614.D	09/21/2014	19:25
	IC 480-203521/24	T5615.D	09/21/2014	19:49

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

Lab Name: TestAmerica Buffalo Job No.: 480-69812-1
 SDG No.: _____
 Lab File ID: T6140.D BFB Injection Date: 10/09/2014
 Instrument ID: HP5975T BFB Injection Time: 19:07
 Analysis Batch No.: 206953

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	23.4
75	30.0 - 60.0 % of mass 95	50.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.6
173	Less than 2.0 % of mass 174	0.5 (0.6) 1
174	50.0 - 120.00 % of mass 95	70.7
175	5.0 - 9.0 % of mass 174	4.8 (6.8) 1
176	95.0 - 101.0 % of mass 174	68.6 (97.0) 1
177	5.0 - 9.0 % of mass 176	4.6 (6.7) 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
	IC 480-206953/7	T6142.D	10/09/2014	20:23
	IC 480-206953/8	T6143.D	10/09/2014	20:47
	IC 480-206953/9	T6144.D	10/09/2014	21:11
	IC 480-206953/10	T6145.D	10/09/2014	21:35
	ICIS 480-206953/11	T6146.D	10/09/2014	21:59
	IC 480-206953/12	T6147.D	10/09/2014	22:23
	IC 480-206953/13	T6148.D	10/09/2014	22:47

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

Lab Name: TestAmerica Buffalo Job No.: 480-69812-1
 SDG No.: _____
 Lab File ID: T7130.D BFB Injection Date: 11/01/2014
 Instrument ID: HP5975T BFB Injection Time: 08:49
 Analysis Batch No.: 211429

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	21.1
75	30.0 - 60.0 % of mass 95	50.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.7
173	Less than 2.0 % of mass 174	0.0 (0.0)1
174	50.0 - 120.00 % of mass 95	72.5
175	5.0 - 9.0 % of mass 174	5.5 (7.5)1
176	95.0 - 101.0 % of mass 174	70.3 (97.0)1
177	5.0 - 9.0 % of mass 176	4.3 (6.1)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 480-211429/2	T7131.D	11/01/2014	09:12
	CCV 480-211429/3	T7132.D	11/01/2014	09:48
	LCS 480-211429/4	T7133.D	11/01/2014	10:12
	MB 480-211429/6	T7135.D	11/01/2014	10:59
WELL 1-2A	480-69812-1	T7136.D	11/01/2014	11:33
WELL 1-3A	480-69812-2	T7137.D	11/01/2014	11:58
TRIP BLANK	480-69812-3	T7138.D	11/01/2014	12:22

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

Lab Name: TestAmerica Buffalo Job No.: 480-69812-1
 SDG No.: _____
 Sample No.: ICIS 480-206953/11 Date Analyzed: 10/09/2014 21:59
 Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25 (mm)
 Lab File ID (Standard): T6146.D Heated Purge: (Y/N) N
 Calibration ID: 20631

	FB		CBZ		DCB		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	685832	4.34	479756	6.64	247538	8.49	
UPPER LIMIT	1371664	4.84	959512	7.14	495076	8.99	
LOWER LIMIT	342916	3.84	239878	6.14	123769	7.99	
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-211429/2		617324	4.34	431969	6.63	225785	8.49

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.: 480-69812-1
 SDG No.: _____
 Sample No.: CCVIS 480-211429/2 Date Analyzed: 11/01/2014 09:12
 Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25 (mm)
 Lab File ID (Standard): T7131.D Heated Purge: (Y/N) N
 Calibration ID: 20631

		FB		CBZ		DCB		
		AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD		617324	4.34	431969	6.63	225785	8.49	
UPPER LIMIT		1234648	4.84	863938	7.13	451570	8.99	
LOWER LIMIT		308662	3.84	215985	6.13	112893	7.99	
LAB SAMPLE ID		CLIENT SAMPLE ID						
CCV 480-211429/3		611733	4.34	425171	6.63	220538	8.49	
LCS 480-211429/4		589399	4.34	429102	6.63	222166	8.49	
MB 480-211429/6		586454	4.33	421865	6.63	209983	8.49	
480-69812-1		WELL 1-2A	588138	4.34	420384	6.63	207894	8.49
480-69812-2		WELL 1-3A	591915	4.34	416781	6.63	207852	8.48
480-69812-3		TRIP BLANK	565593	4.34	403095	6.63	203346	8.49

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: TestAmerica Buffalo Job No.: 480-69812-1

SDG No.: _____

Client Sample ID: WELL 1-2A Lab Sample ID: 480-69812-1

Matrix: Water Lab File ID: T7136.D

Analysis Method: 8260C Date Collected: 10/21/2014 14:10

Sample wt/vol: 5(mL) Date Analyzed: 11/01/2014 11:33

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.: 211429 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
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
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
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39
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
526-73-8	1,2,3-Trimethylbenzene	1.0	U	1.0	0.26
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)	10	U	10	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	10	U	10	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
124-48-1	Dibromochloromethane	1.0	U *	1.0	0.32
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
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-69812-1
 SDG No.: _____
 Client Sample ID: WELL 1-2A Lab Sample ID: 480-69812-1
 Matrix: Water Lab File ID: T7136.D
 Analysis Method: 8260C Date Collected: 10/21/2014 14:10
 Sample wt/vol: 5(mL) Date Analyzed: 11/01/2014 11:33
 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.: 211429 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
2037-26-5	Toluene-d8 (Surr)	98		71-126
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		66-137
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20141101-36941.b\T7136.D
 Lims ID: 480-69812-A-1 Lab Sample ID: 480-69812-1
 Client ID: WELL 1-2A
 Sample Type: Client
 Inject. Date: 01-Nov-2014 11:33:30 ALS Bottle#: 1 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-69812-A-1
 Misc. Info.: 480-0036941-022
 Operator ID: LH Instrument ID: HP5975T
 Method: \\Bufchrom\ChromData\HP5975T\20141101-36941.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Nov-2014 16:38:58 Calib Date: 09-Oct-2014 22:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T6148.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: boldte

Date: 01-Nov-2014 21:45:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.336	4.335	0.001	98	588138	25.0	
* 2 Chlorobenzene-d5	117	6.626	6.626	0.000	89	420384	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.491	8.491	0.000	97	207894	25.0	
\$ 154 Dibromofluoromethane (Surr	113	3.869	3.869	0.000	93	145993	26.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.118	4.118	0.000	0	179718	23.7	
\$ 6 Toluene-d8 (Surr)	98	5.517	5.517	0.000	93	550979	24.5	
\$ 7 4-Bromofluorobenzene (Surr	174	7.558	7.558	0.000	85	151865	25.1	
11 Dichlorodifluoromethane	85		0.905				ND	
13 Chloromethane	50		1.019				ND	
14 Vinyl chloride	62		1.102				ND	
15 Bromomethane	94		1.320				ND	
16 Chloroethane	64		1.403				ND	
17 Trichlorofluoromethane	101		1.558				ND	
22 1,1-Dichloroethene	96		1.962				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		1.973				ND	
23 Acetone	43	2.108	2.097	0.011	48	1977	0.7003	
25 Carbon disulfide	76		2.128				ND	
28 Methyl acetate	43		2.367				ND	
30 Methylene Chloride	84		2.429				ND	
32 trans-1,2-Dichloroethene	96		2.636				ND	
33 Methyl tert-butyl ether	73		2.636				ND	
36 1,1-Dichloroethane	63		2.999				ND	
43 cis-1,2-Dichloroethene	96		3.475				ND	
44 2-Butanone (MEK)	43		3.527				ND	
50 Chloroform	83		3.735				ND	
51 1,1,1-Trichloroethane	97		3.817				ND	
52 Cyclohexane	56		3.817				ND	
53 Carbon tetrachloride	117		3.931				ND	
55 Benzene	78		4.108				ND	
57 1,2-Dichloroethane	62		4.170				ND	
1 1,4-Difluorobenzene	114		4.429				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
60 Trichloroethene	95		4.595				ND	
62 Methylcyclohexane	83		4.688				ND	
63 1,2-Dichloropropane	63		4.792				ND	
67 Dichlorobromomethane	83		5.020				ND	
71 cis-1,3-Dichloropropene	75		5.351				ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.476				ND	
73 Toluene	92		5.569				ND	
75 trans-1,3-Dichloropropene	75		5.786				ND	
78 1,1,2-Trichloroethane	83		5.932				ND	
79 Tetrachloroethene	166		5.963				ND	
81 2-Hexanone	43		6.108				ND	
82 Chlorodibromomethane	129		6.222				ND	
83 Ethylene Dibromide	107		6.294				ND	
86 Chlorobenzene	112		6.647				ND	
88 Ethylbenzene	91		6.719				ND	
90 m-Xylene & p-Xylene	106		6.812				ND	
91 o-Xylene	106		7.134				ND	
92 Styrene	104		7.154				ND	
93 Bromoform	173		7.331				ND	
95 Isopropylbenzene	105		7.413				ND	
98 1,1,2,2-Tetrachloroethane	83		7.724				ND	
110 1,3-Dichlorobenzene	146		8.429				ND	
113 1,4-Dichlorobenzene	146		8.502				ND	
114 1,2,3-Trimethylbenzene	105		8.533				ND	
116 1,2-Dichlorobenzene	146		8.812				ND	
117 1,2-Dibromo-3-Chloropropan	75		9.476				ND	
119 1,2,4-Trichlorobenzene	180		10.118				ND	
S 126 Xylenes, Total	1		30.000				0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

T_8260_IS_00087

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_Surr_00082

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20141101-36941.b\T7136.D

Injection Date: 01-Nov-2014 11:33:30

Instrument ID: HP5975T

Operator ID: LH

Lims ID: 480-69812-A-1

Lab Sample ID: 480-69812-1

Worklist Smp#: 22

Client ID: WELL 1-2A

Purge Vol: 5.000 mL

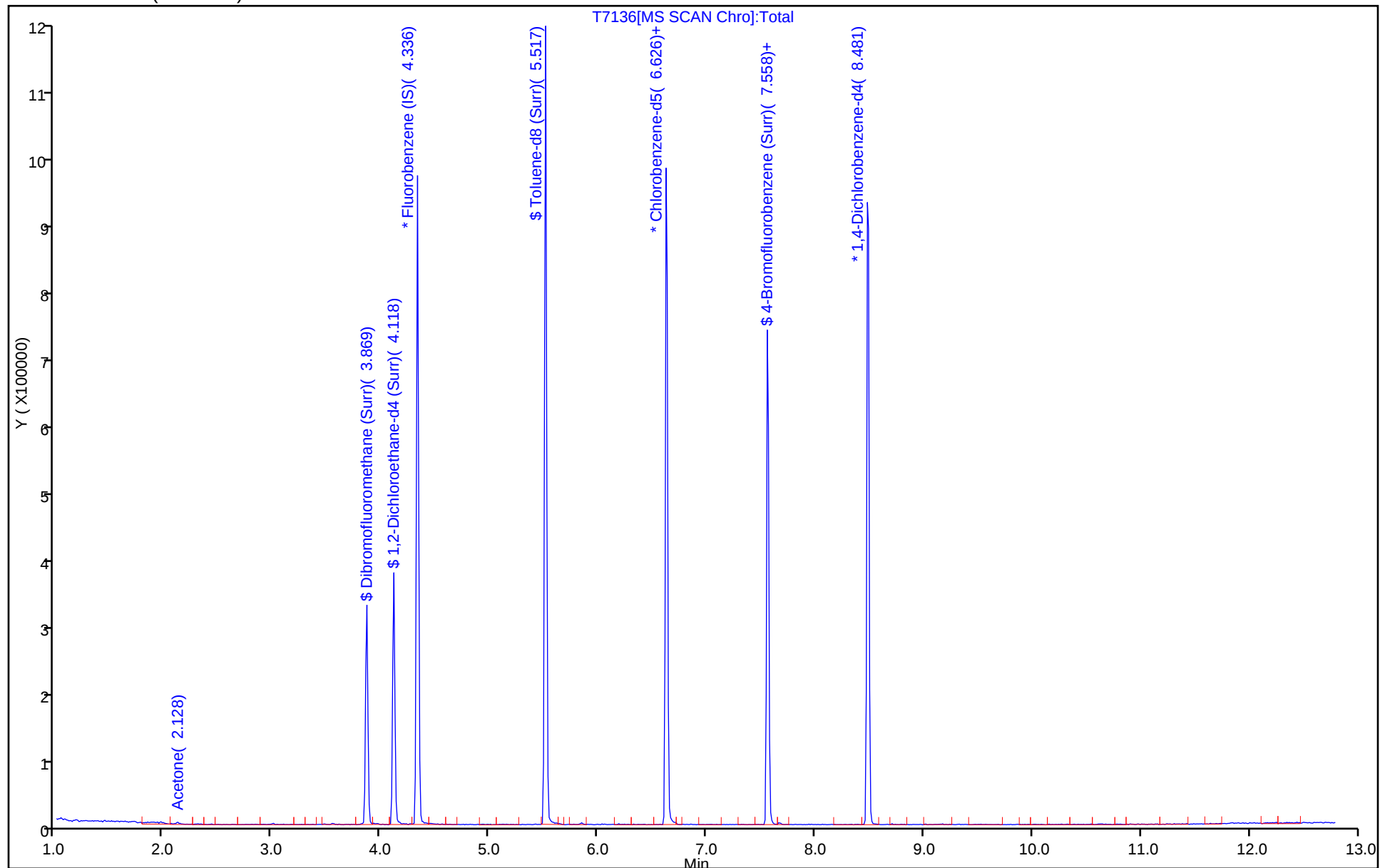
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: T-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.: 480-69812-1

SDG No.: _____

Client Sample ID: WELL 1-3A Lab Sample ID: 480-69812-2

Matrix: Water Lab File ID: T7137.D

Analysis Method: 8260C Date Collected: 10/21/2014 14:15

Sample wt/vol: 5(mL) Date Analyzed: 11/01/2014 11:58

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.: 211429 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
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
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
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39
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
526-73-8	1,2,3-Trimethylbenzene	1.0	U	1.0	0.26
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)	10	U	10	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	10	U	10	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
124-48-1	Dibromochloromethane	1.0	U *	1.0	0.32
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
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-69812-1
 SDG No.: _____
 Client Sample ID: WELL 1-3A Lab Sample ID: 480-69812-2
 Matrix: Water Lab File ID: T7137.D
 Analysis Method: 8260C Date Collected: 10/21/2014 14:15
 Sample wt/vol: 5(mL) Date Analyzed: 11/01/2014 11:58
 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.: 211429 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
2037-26-5	Toluene-d8 (Surr)	98		71-126
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		66-137
460-00-4	4-Bromofluorobenzene (Surr)	103		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20141101-36941.b\T7137.D
 Lims ID: 480-69812-A-2 Lab Sample ID: 480-69812-2
 Client ID: WELL 1-3A
 Sample Type: Client
 Inject. Date: 01-Nov-2014 11:58:30 ALS Bottle#: 2 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-69812-A-2
 Misc. Info.: 480-0036941-023
 Operator ID: LH Instrument ID: HP5975T
 Method: \\Bufchrom\ChromData\HP5975T\20141101-36941.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Nov-2014 16:38:58 Calib Date: 09-Oct-2014 22:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T6148.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: boldte

Date: 01-Nov-2014 21:45:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.336	4.335	0.001	98	591915	25.0	
* 2 Chlorobenzene-d5	117	6.626	6.626	0.000	88	416781	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.481	8.491	-0.010	98	207852	25.0	
\$ 154 Dibromofluoromethane (Surr	113	3.869	3.869	0.000	92	146740	25.9	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.118	4.118	0.000	0	180628	23.7	
\$ 6 Toluene-d8 (Surr)	98	5.517	5.517	0.000	94	547108	24.6	
\$ 7 4-Bromofluorobenzene (Surr	174	7.558	7.558	0.000	85	154671	25.8	
11 Dichlorodifluoromethane	85		0.905				ND	
13 Chloromethane	50		1.019				ND	
14 Vinyl chloride	62		1.102				ND	
15 Bromomethane	94		1.320				ND	
16 Chloroethane	64		1.403				ND	
17 Trichlorofluoromethane	101		1.558				ND	
22 1,1-Dichloroethene	96		1.962				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		1.973				ND	
23 Acetone	43	2.107	2.097	0.010	30	1076	0.3787	
25 Carbon disulfide	76		2.128				ND	
28 Methyl acetate	43		2.367				ND	
30 Methylene Chloride	84		2.429				ND	
32 trans-1,2-Dichloroethene	96		2.636				ND	
33 Methyl tert-butyl ether	73		2.636				ND	
36 1,1-Dichloroethane	63		2.999				ND	
43 cis-1,2-Dichloroethene	96		3.475				ND	
44 2-Butanone (MEK)	43		3.527				ND	
50 Chloroform	83		3.735				ND	
51 1,1,1-Trichloroethane	97		3.817				ND	
52 Cyclohexane	56		3.817				ND	
53 Carbon tetrachloride	117		3.931				ND	
55 Benzene	78		4.108				ND	
57 1,2-Dichloroethane	62		4.170				ND	
1 1,4-Difluorobenzene	114		4.429				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
60 Trichloroethene	95		4.595				ND	
62 Methylcyclohexane	83		4.688				ND	
63 1,2-Dichloropropane	63		4.792				ND	
67 Dichlorobromomethane	83		5.020				ND	
71 cis-1,3-Dichloropropene	75		5.351				ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.476				ND	
73 Toluene	92		5.569				ND	
75 trans-1,3-Dichloropropene	75		5.786				ND	
78 1,1,2-Trichloroethane	83		5.932				ND	
79 Tetrachloroethene	166		5.963				ND	
81 2-Hexanone	43		6.108				ND	
82 Chlorodibromomethane	129		6.222				ND	
83 Ethylene Dibromide	107		6.294				ND	
86 Chlorobenzene	112		6.647				ND	
88 Ethylbenzene	91		6.719				ND	
90 m-Xylene & p-Xylene	106		6.812				ND	
91 o-Xylene	106		7.134				ND	
92 Styrene	104		7.154				ND	
93 Bromoform	173		7.331				ND	
95 Isopropylbenzene	105		7.413				ND	
98 1,1,2,2-Tetrachloroethane	83		7.724				ND	
110 1,3-Dichlorobenzene	146		8.429				ND	
113 1,4-Dichlorobenzene	146		8.502				ND	
114 1,2,3-Trimethylbenzene	105		8.533				ND	
116 1,2-Dichlorobenzene	146		8.812				ND	
117 1,2-Dibromo-3-Chloropropan	75		9.476				ND	
119 1,2,4-Trichlorobenzene	180		10.118				ND	
S 126 Xylenes, Total	1		30.000				0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

T_8260_IS_00087

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_Surr_00082

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20141101-36941.b\T7137.D

Injection Date: 01-Nov-2014 11:58:30

Instrument ID: HP5975T

Operator ID: LH

Lims ID: 480-69812-A-2

Lab Sample ID: 480-69812-2

Worklist Smp#: 23

Client ID: WELL 1-3A

Purge Vol: 5.000 mL

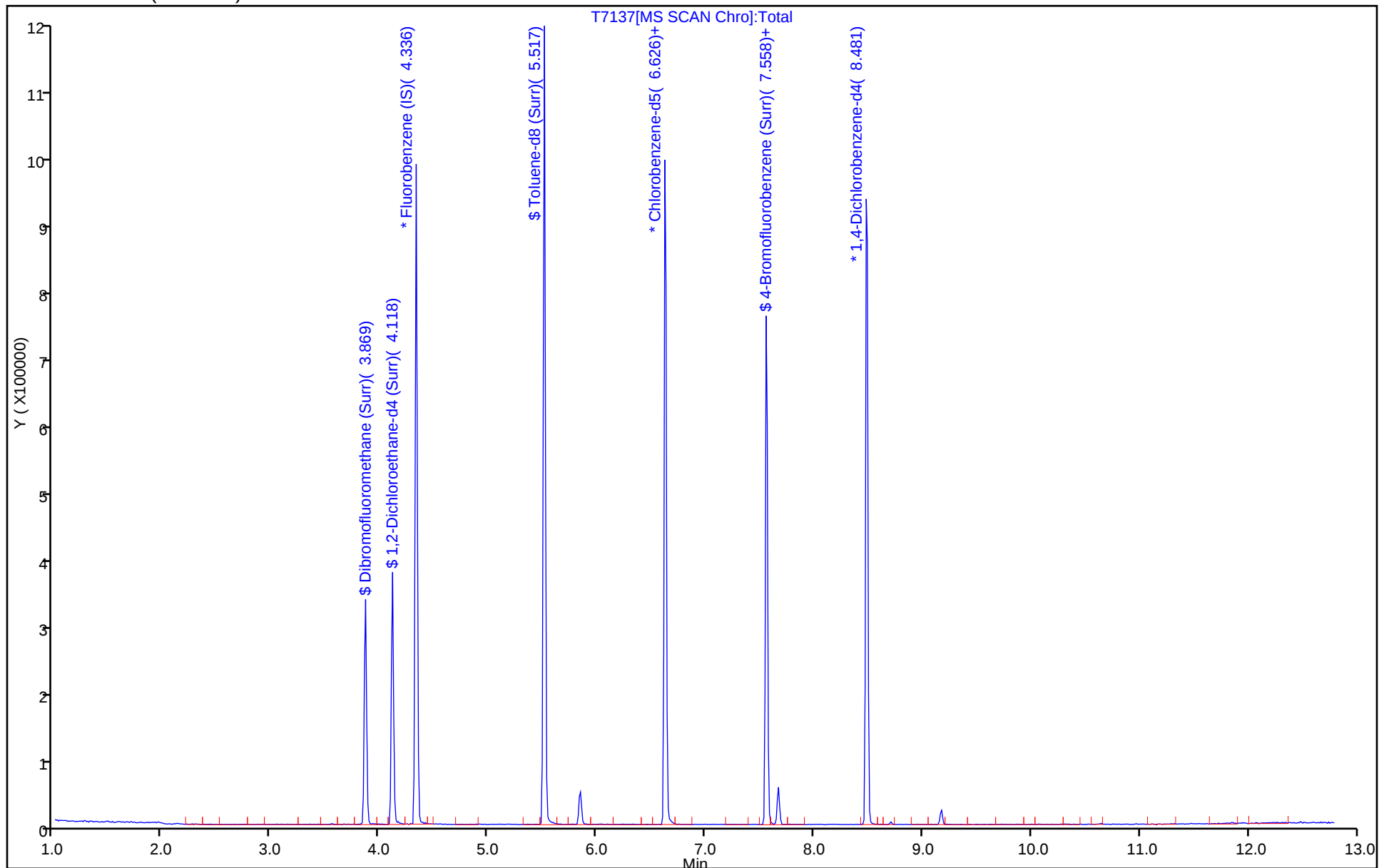
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: T-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.: 480-69812-1

SDG No.: _____

Client Sample ID: TRIP BLANK Lab Sample ID: 480-69812-3

Matrix: Water Lab File ID: T7138.D

Analysis Method: 8260C Date Collected: 10/21/2014 00:00

Sample wt/vol: 5(mL) Date Analyzed: 11/01/2014 12:22

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.: 211429 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
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
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
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39
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
526-73-8	1,2,3-Trimethylbenzene	1.0	U	1.0	0.26
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)	10	U	10	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	10	U	10	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
124-48-1	Dibromochloromethane	1.0	U *	1.0	0.32
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
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-69812-1

SDG No.: _____

Client Sample ID: TRIP BLANK Lab Sample ID: 480-69812-3

Matrix: Water Lab File ID: T7138.D

Analysis Method: 8260C Date Collected: 10/21/2014 00:00

Sample wt/vol: 5(mL) Date Analyzed: 11/01/2014 12:22

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.: 211429 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
2037-26-5	Toluene-d8 (Surr)	99		71-126
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		66-137
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20141101-36941.b\T7138.D
 Lims ID: 480-69812-A-3 Lab Sample ID: 480-69812-3
 Client ID: TRIP BLANK
 Sample Type: Client
 Inject. Date: 01-Nov-2014 12:22:30 ALS Bottle#: 3 Worklist Smp#: 24
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-69812-A-3
 Misc. Info.: 480-0036941-024
 Operator ID: LH Instrument ID: HP5975T
 Method: \\Bufchrom\ChromData\HP5975T\20141101-36941.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Nov-2014 16:38:58 Calib Date: 09-Oct-2014 22:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T6148.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: boldte

Date: 01-Nov-2014 21:45:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.335	4.335	0.000	98	565593	25.0	
* 2 Chlorobenzene-d5	117	6.626	6.626	0.000	90	403095	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.491	8.491	0.000	97	203346	25.0	
\$ 154 Dibromofluoromethane (Surr	113	3.869	3.869	0.000	92	140684	26.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.118	4.118	0.000	0	178582	24.5	
\$ 6 Toluene-d8 (Surr)	98	5.517	5.517	0.000	94	531143	24.7	
\$ 7 4-Bromofluorobenzene (Surr	174	7.558	7.558	0.000	85	151673	26.2	
11 Dichlorodifluoromethane	85		0.905				ND	
13 Chloromethane	50		1.019				ND	
14 Vinyl chloride	62		1.102				ND	
15 Bromomethane	94		1.320				ND	
16 Chloroethane	64		1.403				ND	
17 Trichlorofluoromethane	101		1.558				ND	
22 1,1-Dichloroethene	96		1.962				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		1.973				ND	
23 Acetone	43	2.107	2.097	0.010	98	2320	0.8546	
25 Carbon disulfide	76		2.128				ND	
28 Methyl acetate	43		2.367				ND	
30 Methylene Chloride	84	2.429	2.429	0.000	90	989	0.1483	
32 trans-1,2-Dichloroethene	96		2.636				ND	
33 Methyl tert-butyl ether	73		2.636				ND	
36 1,1-Dichloroethane	63		2.999				ND	
43 cis-1,2-Dichloroethene	96		3.475				ND	
44 2-Butanone (MEK)	43		3.527				ND	
50 Chloroform	83		3.735				ND	
51 1,1,1-Trichloroethane	97		3.817				ND	
52 Cyclohexane	56		3.817				ND	
53 Carbon tetrachloride	117		3.931				ND	
55 Benzene	78		4.108				ND	
57 1,2-Dichloroethane	62		4.170				ND	
1 1,4-Difluorobenzene	114		4.429				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
60 Trichloroethene	95		4.595				ND	
62 Methylcyclohexane	83		4.688				ND	
63 1,2-Dichloropropane	63		4.792				ND	
67 Dichlorobromomethane	83		5.020				ND	
71 cis-1,3-Dichloropropene	75		5.351				ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.476				ND	
73 Toluene	92		5.569				ND	
75 trans-1,3-Dichloropropene	75		5.786				ND	
78 1,1,2-Trichloroethane	83		5.932				ND	
79 Tetrachloroethene	166		5.963				ND	
81 2-Hexanone	43		6.108				ND	
82 Chlorodibromomethane	129		6.222				ND	
83 Ethylene Dibromide	107		6.294				ND	
86 Chlorobenzene	112		6.647				ND	
88 Ethylbenzene	91		6.719				ND	
90 m-Xylene & p-Xylene	106		6.812				ND	
91 o-Xylene	106		7.134				ND	
92 Styrene	104		7.154				ND	
93 Bromoform	173		7.331				ND	
95 Isopropylbenzene	105		7.413				ND	
98 1,1,2,2-Tetrachloroethane	83		7.724				ND	
110 1,3-Dichlorobenzene	146		8.429				ND	
113 1,4-Dichlorobenzene	146		8.502				ND	
114 1,2,3-Trimethylbenzene	105		8.533				ND	
116 1,2-Dichlorobenzene	146		8.812				ND	
117 1,2-Dibromo-3-Chloropropan	75		9.476				ND	
119 1,2,4-Trichlorobenzene	180		10.118				ND	
S 126 Xylenes, Total	1		30.000				0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

T_8260_IS_00087

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_Surr_00082

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20141101-36941.b\T7138.D

Injection Date: 01-Nov-2014 12:22:30

Instrument ID: HP5975T

Operator ID: LH

Lims ID: 480-69812-A-3

Lab Sample ID: 480-69812-3

Worklist Smp#: 24

Client ID: TRIP BLANK

Purge Vol: 5.000 mL

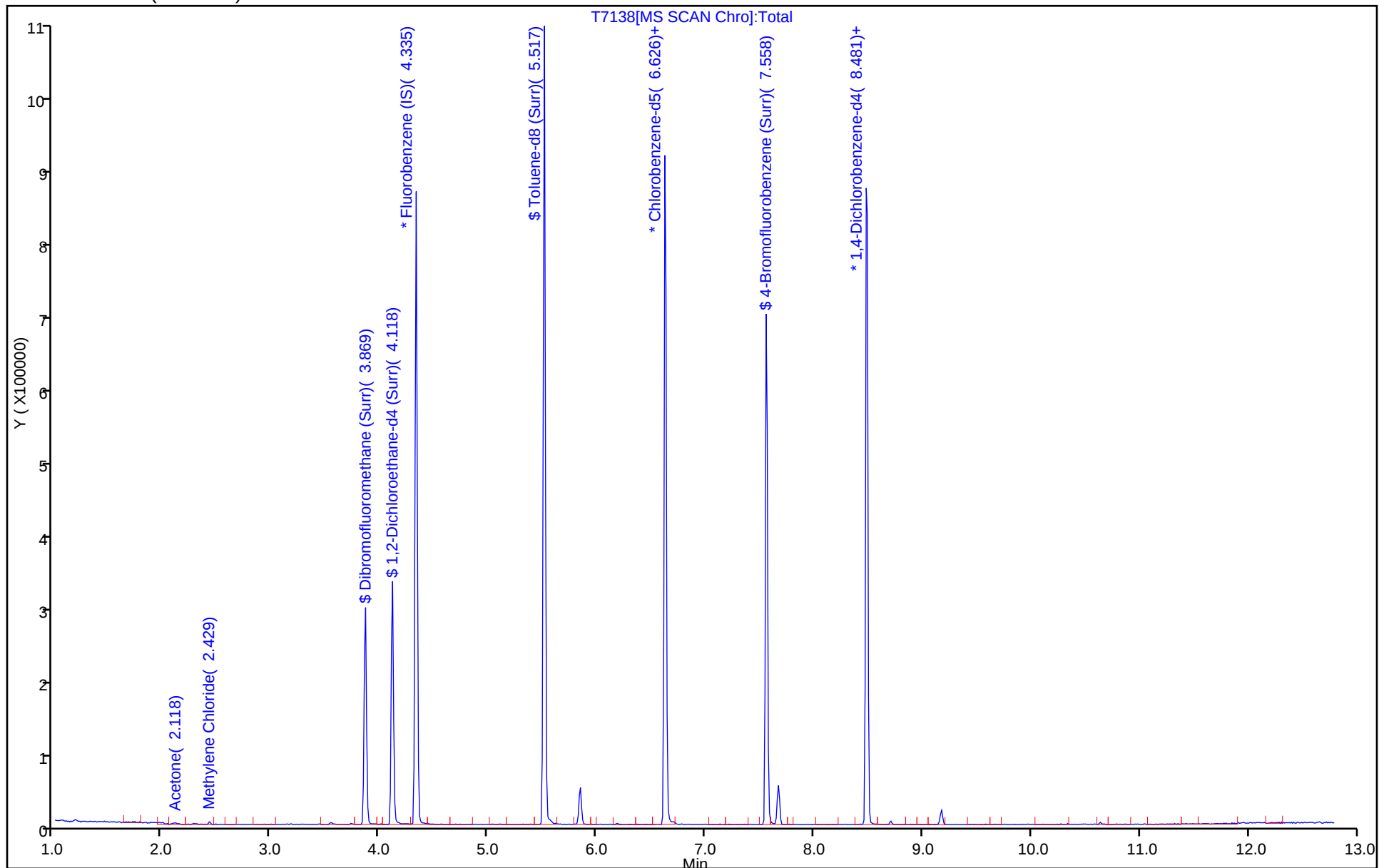
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: T-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.: 480-69812-1 Analy Batch No.: 203521

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/21/2014 17:25 Calibration End Date: 09/21/2014 19:49 Calibration ID: 20275

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-203521/18	T5609.D
Level 2	IC 480-203521/19	T5610.D
Level 3	IC 480-203521/20	T5611.D
Level 4	IC 480-203521/21	T5612.D
Level 5	IC 480-203521/22	T5613.D
Level 6	IC 480-203521/23	T5614.D
Level 7	IC 480-203521/24	T5615.D

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															
Chlorodifluoromethane	+++++ 0.2014	0.0943 0.2483	0.1122	0.1358	0.1730	Lin	-1.110	0.2508							0.9900		0.9900
Ethanol	+++++ 0.0044	0.0073 0.0047	0.0051	0.0043	0.0042	Lin1	0.1118	0.0045							0.9970		0.9900
Isopropyl alcohol	+++++ 0.0290	0.0335 0.0290	0.0358	0.0361	0.0325	Ave		0.0326				9.6		20.0			
Acetonitrile	0.0336 0.0270	0.0308 0.0277	0.0286	0.0266	0.0273	Ave		0.0288				8.9		20.0			
Isopropyl ether	+++++ 1.1269	1.2119 1.1166	1.1620	1.1128	1.1132	Ave		1.1406				3.5		20.0			
Chloroprene	+++++ 0.5192	0.5518 0.5162	0.4984	0.4970	0.5057	Ave		0.5147				3.9		20.0			
Halothane	+++++ 0.1668	0.1641 0.1679	0.1701	0.1758	0.1695	Ave		0.1690				2.3		20.0			
1,1-Dimethoxyethane	+++++ 0.0632	0.0616 0.0636	0.0633	0.0594	0.0600	Ave		0.0619				3.0		20.0			
Tert-butyl ethyl ether	+++++ 1.0225	1.0748 1.0223	1.0298	1.0365	1.0093	Ave		1.0325				2.2		20.0			
Ethyl acetate	+++++ 0.2676	0.2826 0.2706	0.2432	0.2569	0.2589	Ave		0.2633				5.1		20.0			
Propionitrile	+++++ 0.0574	0.0607 0.0581	0.0549	0.0523	0.0564	Ave		0.0566				5.1		20.0			
Methacrylonitrile	0.2664 0.2505	0.2581 0.2492	0.2477	0.2442	0.2449	Ave		0.2516				3.2		20.0			
Isooctane	+++++ 1.1057	1.1994 1.1183	1.0166	1.0238	1.0571	Ave		1.0868				6.3		20.0			
Tert-amyl methyl ether	+++++ 1.0169	0.9436 1.0402	0.9475	0.9350	0.9985	Ave		0.9803				4.5		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.: 480-69812-1 Analy Batch No.: 203521

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/21/2014 17:25 Calibration End Date: 09/21/2014 19:49 Calibration ID: 20275

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								
t-Amyl alcohol	0.0252 0.0367	0.0351 0.0381	0.0357	0.0356	0.0383	Ave		0.0349				13.0		15.0			
1,4-Difluorobenzene	++++ 0.7634	0.8126 0.7665	0.7546	0.7298	0.7455	Ave		0.7621				3.7		20.0			
n-Butanol	++++ 0.0252	0.0071 0.0271	0.0109	0.0124	0.0185	Lin	-1.178	0.0279							0.9950		0.9900
Ethyl acrylate	++++ 1.1169	1.1193 1.1076	0.9725	1.0404	1.0803	Ave		1.0728				5.4		20.0			
Methyl methacrylate	0.3671 0.3433	0.3139 0.3437	0.3221	0.3289	0.3291	Ave		0.3354				5.3		20.0			
2-Nitropropane	++++ 0.1387	0.1766 0.1537	0.1414	0.1303	0.1305	Ave		0.1452				12.0		20.0			
Epichlorohydrin	++++ 0.0398	0.0388 0.0389	0.0378	0.0351	0.0386	Ave		0.0382				4.3		20.0			
2-Methylthiophene	++++ 1.9688	1.9081 1.9883	1.9673	1.9220	1.9317	Ave		1.9477				1.6		20.0			
3-Methylthiophene	++++ 1.6051	1.8549 1.5889	1.6457	1.6215	1.5928	Ave		1.6515				6.2		20.0			
n-Butyl acetate	++++ 0.6519	0.7354 0.6496	0.6280	0.6226	0.6106	Ave		0.6497			0.1000	6.9		20.0			
1-Chlorohexane	++++ 0.4610	0.8265 0.4446	0.4919	0.4644	0.4534	Lin1	0.3519	0.4433							1.0000		0.9900
3-Chlorobenzotrifluoride	++++ 1.0410	1.1085 1.0013	0.9891	1.0173	0.9953	Ave		1.0254				4.4		20.0			
4-Chlorobenzotrifluoride	++++ 0.9594	0.9726 0.9210	0.8845	0.8975	0.8917	Ave		0.9211				4.0		20.0			
2-Chlorobenzotrifluoride	++++ 1.0179	1.0971 0.9834	1.0008	0.9553	0.9838	Ave		1.0064				4.9		20.0			
Cyclohexanone	++++ 0.0436	0.0545 0.0442	0.0426	0.0424	0.0416	Ave		0.0448				11.0		20.0			
3-Chlorotoluene	++++ 0.8302	0.8088 0.8125	0.7899	0.8050	0.8127	Ave		0.8099				1.6		20.0			
Pentachloroethane	++++ 0.3180	0.3152 0.3365	0.3266	0.2923	0.3069	Ave		0.3159				4.9		20.0			
Dicyclopentadiene	++++ 4.0870	4.9333 4.0531	4.1086	3.9186	3.9990	Ave		4.1833				8.9		20.0			
1,2,3-Trimethylbenzene	++++ 3.2038	3.3268 3.1777	3.1301	3.0643	3.1236	Ave		3.1711				2.8		20.0			
Benzyl chloride	++++ 0.1380	0.1409 0.1462	0.1147	0.1119	0.1290	Ave		0.1301				11.0		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.: 480-69812-1 Analy Batch No.: 203521

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/21/2014 17:25 Calibration End Date: 09/21/2014 19:49 Calibration ID: 20275

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															
1,3,5-Trichlorobenzene	+++++	1.2316	1.0761	1.0992	1.1270	Ave		1.1331				4.7		20.0			
	1.1325	1.1322															
2-Methylnaphthalene	+++++	0.8932	1.0088	1.0475	1.1820	Ave		1.1317				16.0		20.0			
	1.2647	1.3940															

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.: 480-69812-1 Analy Batch No.: 203521

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/21/2014 17:25 Calibration End Date: 09/21/2014 19:49 Calibration ID: 20275

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-203521/18	T5609.D
Level 2	IC 480-203521/19	T5610.D
Level 3	IC 480-203521/20	T5611.D
Level 4	IC 480-203521/21	T5612.D
Level 5	IC 480-203521/22	T5613.D
Level 6	IC 480-203521/23	T5614.D
Level 7	IC 480-203521/24	T5615.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	Lin	++++ 276562	2525 682685	14921	36035	116391	++++ 50.0	1.00 100	5.00	10.0	25.0
Ethanol	FB	Lin1	++++ 301381	9789 644149	33592	56982	139804	++++ 2500	50.0 5000	250	500	1250
Isopropyl alcohol	FB	Ave	++++ 398262	8960 796546	47578	95863	218781	++++ 500	10.0 1000	50.0	100	250
Acetonitrile	FB	Ave	3560 370211	8255 761923	37979	70626	183376	4.00 500	10.0 1000	50.0	100	250
Isopropyl ether	FB	Ave	++++ 1547397	32446 3070513	154531	295225	749081	++++ 50.0	1.00 100	5.00	10.0	25.0
Chloroprene	FB	Ave	++++ 712980	14773 1419472	66285	131846	340300	++++ 50.0	1.00 100	5.00	10.0	25.0
Halothane	FB	Ave	++++ 229070	4394 461772	22622	46635	114064	++++ 50.0	1.00 100	5.00	10.0	25.0
1,1-Dimethoxyethane	FB	Ave	++++ 434014	8249 875106	42119	78758	201816	++++ 250	5.00 500	25.0	50.0	125
Tert-butyl ethyl ether	FB	Ave	++++ 1404108	28774 2811127	136943	274982	679198	++++ 50.0	1.00 100	5.00	10.0	25.0
Ethyl acetate	FB	Ave	++++ 734853	15131 1488034	64678	136302	348483	++++ 100	2.00 200	10.0	20.0	50.0
Propionitrile	FB	Ave	++++ 788170	16251 1597744	72969	138707	379714	++++ 500	10.0 1000	50.0	100	250
Methacrylonitrile	FB	Ave	28203 3440461	69106 6853040	329448	647764	1648262	4.00 500	10.0 1000	50.0	100	250
Isooctane	FB	Ave	++++ 1518357	32109 3075092	135191	271599	711320	++++ 50.0	1.00 100	5.00	10.0	25.0
Tert-amyl methyl ether	FB	Ave	++++ 1396446	25261 2860424	126005	248047	671941	++++ 50.0	1.00 100	5.00	10.0	25.0
t-Amyl alcohol	FB	Ave	2670 503739	9385 1047646	47515	94384	257416	4.00 500	10.0 1000	50.0	100	250

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-69812-1 Analy Batch No.: 203521

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/21/2014 17:25 Calibration End Date: 09/21/2014 19:49 Calibration ID: 20275

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
1,4-Difluorobenzene	FB	Ave	++++ 1048331	21755 2107771	100350	193602	501665	++++ 50.0	1.00 100	5.00	10.0	25.0
n-Butanol	FB	Lin	++++ 346572	1902 744441	14531	32829	124795	++++ 500	10.0 1000	50.0	100	250
Ethyl acrylate	FB	Ave	++++ 1533777	29966 3045697	129325	276015	726941	++++ 50.0	1.00 100	5.00	10.0	25.0
Methyl methacrylate	FB	Ave	7774 942857	16807 1890261	85665	174513	442856	0.800 100	2.00 200	10.0	20.0	50.0
2-Nitropropane	DCB	Ave	++++ 133478	3178 299769	12538	23910	61384	++++ 100	2.00 200	10.0	20.0	50.0
Epichlorohydrin	FB	Ave	++++ 546707	10386 1070685	50303	93007	259790	++++ 500	10.0 1000	50.0	100	250
2-Methylthiophene	DCB	Ave	++++ 947442	17165 1938952	87229	176349	454398	++++ 50.0	1.00 100	5.00	10.0	25.0
3-Methylthiophene	DCB	Ave	++++ 772400	16686 1549540	72969	148776	374690	++++ 50.0	1.00 100	5.00	10.0	25.0
n-Butyl acetate	CBZ	Ave	++++ 625713	13284 1253134	57091	114935	284606	++++ 50.0	1.00 100	5.00	10.0	25.0
1-Chlorohexane	CBZ	Lin1	++++ 442467	14930 857779	44717	85721	211333	++++ 50.0	1.00 100	5.00	10.0	25.0
3-Chlorobenzotrifluoride	DCB	Ave	++++ 500977	9972 976494	43857	93337	234121	++++ 50.0	1.00 100	5.00	10.0	25.0
4-Chlorobenzotrifluoride	DCB	Ave	++++ 461682	8749 898153	39217	82350	209769	++++ 50.0	1.00 100	5.00	10.0	25.0
2-Chlorobenzotrifluoride	DCB	Ave	++++ 489828	9869 958967	44376	87651	231423	++++ 50.0	1.00 100	5.00	10.0	25.0
Cyclohexanone	DCB	Ave	++++ 209753	4901 431084	18875	38896	97867	++++ 500	10.0 1000	50.0	100	250
3-Chlorotoluene	DCB	Ave	++++ 399518	7276 792391	35023	73859	191186	++++ 50.0	1.00 100	5.00	10.0	25.0
Pentachloroethane	DCB	Ave	++++ 153035	2835 328151	14479	26823	72201	++++ 50.0	1.00 100	5.00	10.0	25.0
Dicyclopentadiene	DCB	Ave	++++ 1966786	44378 3952539	182170	359541	940703	++++ 50.0	1.00 100	5.00	10.0	25.0
1,2,3-Trimethylbenzene	DCB	Ave	++++ 1541763	29927 3098932	138785	281155	734779	++++ 50.0	1.00 100	5.00	10.0	25.0
Benzyl chloride	CBZ	Ave	++++ 132458	2546 281975	10427	20653	60126	++++ 50.0	1.00 100	5.00	10.0	25.0
1,3,5-Trichlorobenzene	DCB	Ave	++++ 545007	11079 1104120	47713	100856	265119	++++ 50.0	1.00 100	5.00	10.0	25.0
2-Methylnaphthalene	DCB	Ave	++++ 608612	8035 1359387	44730	96111	278058	++++ 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.: 480-69812-1 Analy Batch No.: 203521

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/21/2014 17:25 Calibration End Date: 09/21/2014 19:49 Calibration ID: 20275

Curve Type Legend:

Ave = Average ISTD Lin = Linear ISTD Lin1 = Linear 1/conc ISTD
--

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140921-35561.b\T5609.D
 Lims ID: IC 7
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 21-Sep-2014 17:25:30 ALS Bottle#: 48 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 7
 Misc. Info.: 480-0035561-018
 Operator ID: LH Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub55
 Method: \\Bufchrom\ChromData\HP5975T\20140921-35561.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 23-Sep-2014 13:23:31 Calib Date: 21-Sep-2014 19:49:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5975T\20140921-35561.b\T5615.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK018

First Level Reviewer: nguyendudziakng

Date: 23-Sep-2014 13:23:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.335	4.852	-0.517	98	661712	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.636	6.636	0.000	90	451105	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.491	8.491	0.000	98	226964	25.0	25.0	
12 Chlorodifluoromethane	51		0.926					ND	
148 Ethanol	45		1.817					ND	
84 Propene oxide	58		1.869					ND	
26 Isopropyl alcohol	45		2.294					ND	
29 Acetonitrile	40	2.449	2.387	0.062	79	3560	4.00	4.67	M
37 Isopropyl ether	45		3.030					ND	
38 2-Chloro-1,3-butadiene	53		3.051					ND	
139 Halothane	117		3.061					ND	
40 1,1-Dimethoxyethane	75		3.102					ND	
41 Tert-butyl ethyl ether	59		3.320					ND	
45 Ethyl acetate	43		3.558					ND	
46 Propionitrile	54		3.621					ND	
49 Methacrylonitrile	41	3.703	3.703	0.000	96	28203	4.00	4.24	
152 Isooctane	57		4.118					ND	
58 Tert-amyl methyl ether	73		4.190					ND	
147 t-Amyl alcohol	59	4.232	4.211	0.021	68	2670	4.00	2.89	
1 1,4-Difluorobenzene	114		4.429					ND	
141 2,4,4-Trimethyl-1-pentene	55		4.522					ND	
61 n-Butanol	56		4.667					ND	
140 2,4,4-Trimethyl-2-pentene	97		4.709					ND	
142 Ethyl acrylate	55		4.719					ND	
64 Methyl methacrylate	41	4.895	4.895	0.000	94	7774	0.8000	0.8756	
68 2-Nitropropane	43		5.237					ND	
70 Epichlorohydrin	57		5.320					ND	
74 2-Methylthiophene	97		5.672					ND	
76 3-Methylthiophene	97		5.797					ND	
155 n-Butyl acetate	43		6.201					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
146 1-Chlorohexane	55		6.626						ND
85 3-Chlorobenzotrifluoride	180		6.636						ND
87 4-Chlorobenzotrifluoride	180		6.688						ND
94 2-Chlorobenzotrifluoride	180		7.362						ND
96 Cyclohexanone	55		7.558						ND
103 3-Chlorotoluene	126		7.880						ND
108 Pentachloroethane	167		8.191						ND
112 Dicyclopentadiene	66		8.481						ND
114 1,2,3-Trimethylbenzene	105		8.533						ND
150 Benzyl chloride	126		8.636						ND
118 1,3,5-Trichlorobenzene	180		9.600						ND
149 2-Methylnaphthalene	142		11.237						ND

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

ADD CORP mix_00014	Amount Added: 0.40	Units: uL
3_MCP_Add_WRK_00045	Amount Added: 0.40	Units: uL
2MTP_WRK_00036	Amount Added: 0.40	Units: uL
3MTP_WRK_00039	Amount Added: 0.40	Units: uL
T_8260_IS_00086	Amount Added: 1.00	Units: uL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140921-35561.b\T5609.D

Injection Date: 21-Sep-2014 17:25:30

Instrument ID: HP5975T

Operator ID: LH

Lims ID: IC 7

Worklist Smp#: 18

Client ID:

Purge Vol: 5.000 mL

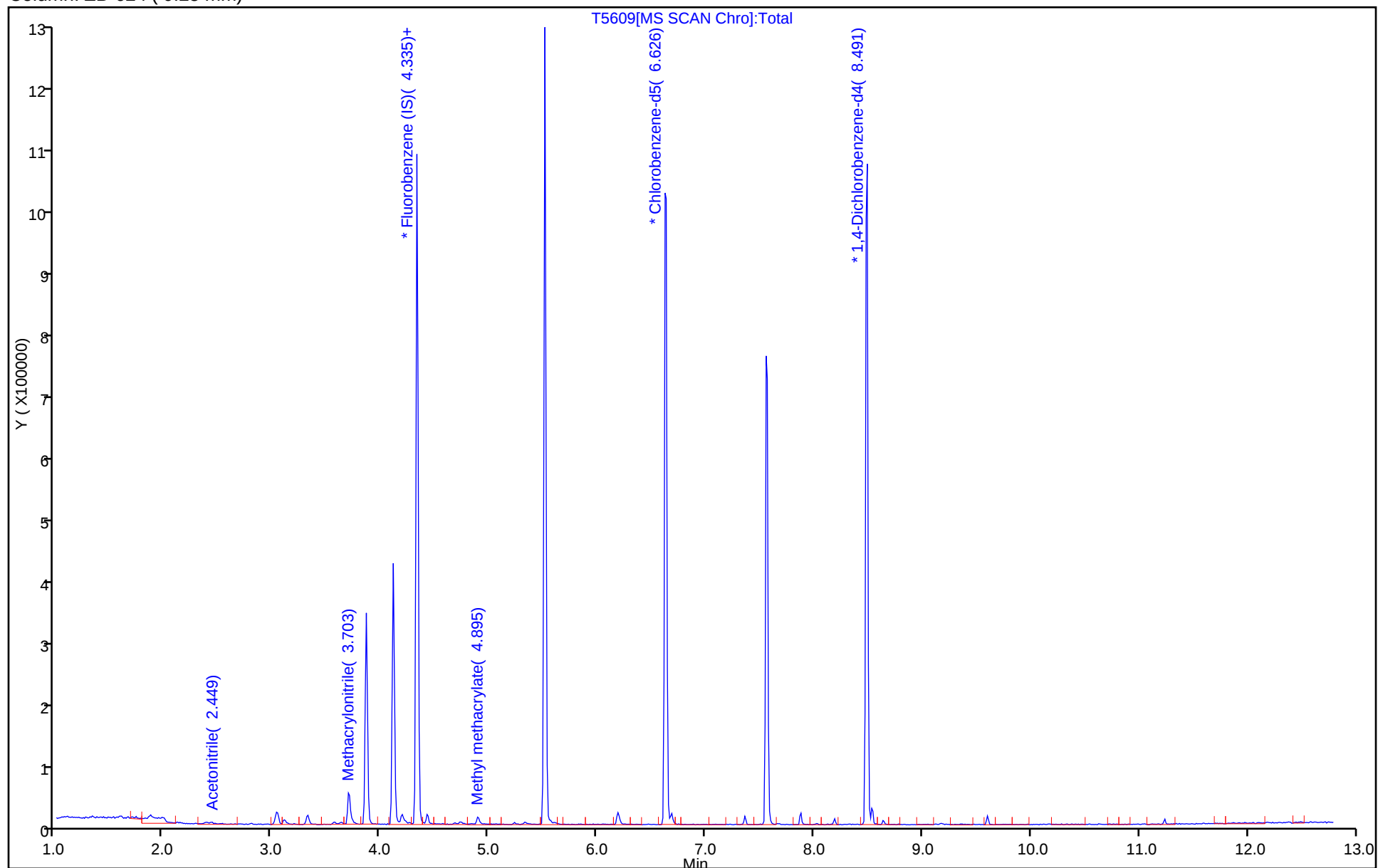
Dil. Factor: 1.0000

ALS Bottle#: 48

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140921-35561.b\T5609.D

Injection Date: 21-Sep-2014 17:25:30

Instrument ID: HP5975T

Lims ID: IC 7

Client ID:

Operator ID: LH

ALS Bottle#:

48

Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

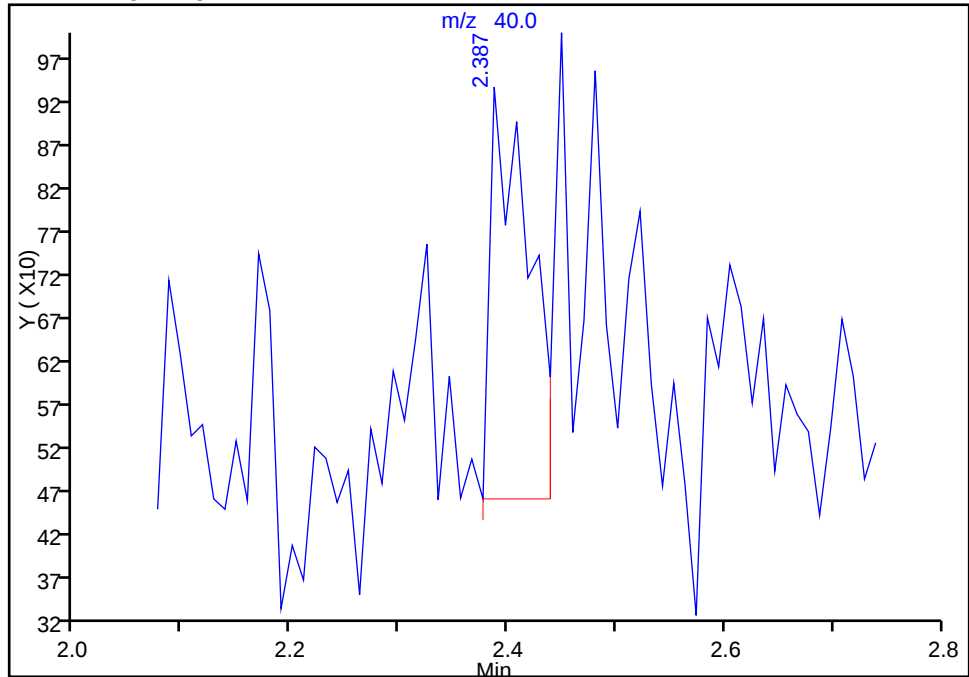
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

29 Acetonitrile, CAS: 75-05-8

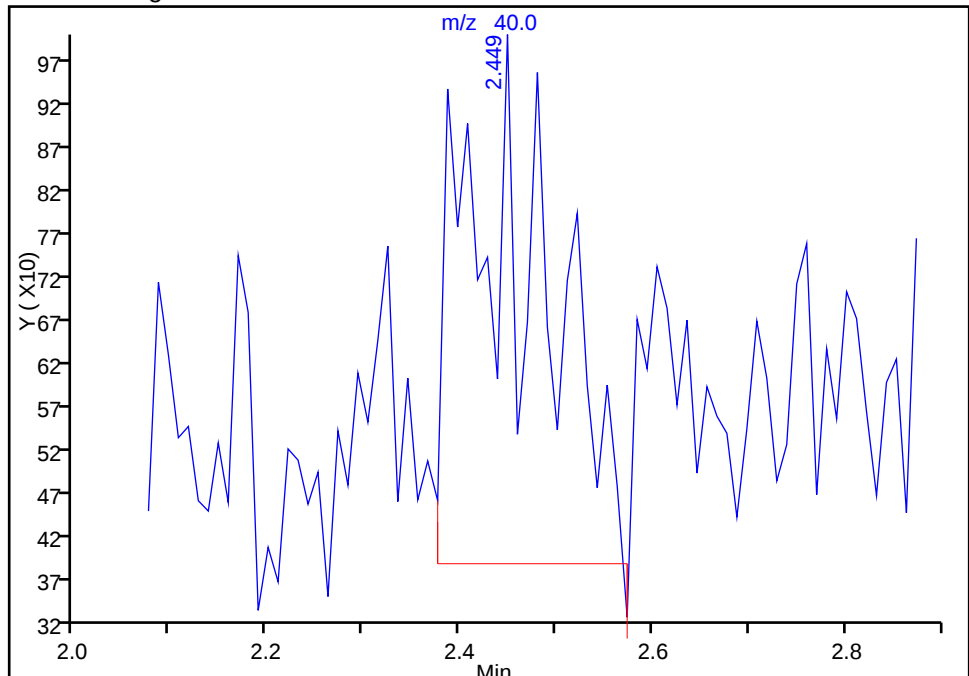
RT: 2.39
Response: 1188
Amount: 2.508293

Processing Integration Results



RT: 2.45
Response: 3560
Amount: 4.671091

Manual Integration Results



Reviewer: HillL, 21-Sep-2014 19:02:03

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140921-35561.b\T5610.D
 Lims ID: IC 8
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 21-Sep-2014 17:49:30 ALS Bottle#: 49 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 8
 Misc. Info.: 480-0035561-019
 Operator ID: LH Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub55
 Method: \\Bufchrom\ChromData\HP5975T\20140921-35561.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 22-Sep-2014 22:53:51 Calib Date: 21-Sep-2014 19:49:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5975T\20140921-35561.b\T5615.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: HillL

Date: 22-Sep-2014 09:47:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.335	4.335	0.000	98	669294	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.636	6.636	0.000	91	451599	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.491	8.491	0.000	98	224891	25.0	25.0	
12 Chlorodifluoromethane	51	0.936	0.926	0.010	96	2525	1.00	4.80	
148 Ethanol	45	1.817	1.817	0.000	79	9789	50.0	56.8	
84 Propene oxide	58	1.879	1.869	0.010	95	13651	NC	NC	
26 Isopropyl alcohol	45	2.315	2.294	0.021	21	8960	10.0	10.3	M
29 Acetonitrile	40	2.398	2.387	0.011	96	8255	10.0	10.7	M
37 Isopropyl ether	45	3.040	3.030	0.010	96	32446	1.00	1.06	
38 2-Chloro-1,3-butadiene	53	3.050	3.051	-0.001	94	14773	1.00	1.07	
139 Halothane	117	3.050	3.061	-0.011	64	4394	1.00	0.9709	
40 1,1-Dimethoxyethane	75	3.113	3.102	0.011	99	8249	5.00	4.98	
41 Tert-butyl ethyl ether	59	3.330	3.320	0.010	98	28774	1.00	1.04	
45 Ethyl acetate	43	3.569	3.558	0.011	98	15131	2.00	2.15	
46 Propionitrile	54	3.631	3.621	0.010	99	16251	10.0	10.7	
49 Methacrylonitrile	41	3.703	3.703	0.000	95	69106	10.0	10.3	
152 Isooctane	57	4.118	4.118	0.000	38	32109	1.00	1.10	
58 Tert-amyl methyl ether	73	4.201	4.190	0.011	93	25261	1.00	0.9625	
147 t-Amyl alcohol	59	4.221	4.211	0.010	76	9385	10.0	10.0	
1 1,4-Difluorobenzene	114	4.429	4.429	0.000	96	21755	1.00	1.07	
141 2,4,4-Trimethyl-1-pentene	55	4.522	4.522	0.000	99	5750	NC	NC	
61 n-Butanol	56	4.677	4.667	0.010	30	1902	10.0	44.8	M
140 2,4,4-Trimethyl-2-pentene	97	4.708	4.709	-0.001	93	13015	NC	NC	
142 Ethyl acrylate	55	4.708	4.719	-0.011	96	29966	1.00	1.04	
64 Methyl methacrylate	41	4.895	4.895	0.000	93	16807	2.00	1.87	
68 2-Nitropropane	43	5.237	5.237	0.000	85	3178	2.00	2.43	
70 Epichlorohydrin	57	5.330	5.320	0.010	98	10386	10.0	10.2	
74 2-Methylthiophene	97	5.672	5.672	0.000	97	17165	1.00	0.9797	
76 3-Methylthiophene	97	5.797	5.797	0.000	99	16686	1.00	1.12	
155 n-Butyl acetate	43	6.201	6.201	0.000	0	13284	1.00	1.13	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
146 1-Chlorohexane	55	6.626	6.626	0.000	82	14930	1.00	1.07	
85 3-Chlorobenzotrifluoride	180	6.636	6.636	0.000	90	9972	1.00	1.08	
87 4-Chlorobenzotrifluoride	180	6.688	6.688	0.000	94	8749	1.00	1.06	
94 2-Chlorobenzotrifluoride	180	7.361	7.362	-0.001	96	9869	1.00	1.09	
96 Cyclohexanone	55	7.558	7.558	0.000	36	4901	10.0	12.2	
103 3-Chlorotoluene	126	7.880	7.880	0.000	98	7276	1.00	1.00	
108 Pentachloroethane	167	8.190	8.191	-0.001	81	2835	1.00	1.00	
112 Dicyclopentadiene	66	8.481	8.481	0.000	48	44378	1.00	1.18	
114 1,2,3-Trimethylbenzene	105	8.532	8.533	-0.001	98	29927	1.00	1.05	
150 Benzyl chloride	126	8.646	8.636	0.010	99	2546	1.00	1.08	
118 1,3,5-Trichlorobenzene	180	9.600	9.600	0.000	95	11079	1.00	1.09	
149 2-Methylnaphthalene	142	11.237	11.237	0.000	93	8035	1.00	0.7893	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

ADD CORP mix_00014

Amount Added: 1.00

Units: uL

T_8260_IS_00086

Amount Added: 1.00

Units: uL

3_MCP_Add_WRK_00045

Amount Added: 1.00

Units: uL

2MTP_WRK_00036

Amount Added: 1.00

Units: uL

3MTP_WRK_00039

Amount Added: 1.00

Units: uL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140921-35561.b\T5610.D

Injection Date: 21-Sep-2014 17:49:30

Instrument ID: HP5975T

Operator ID: LH

Lims ID: IC 8

Worklist Smp#: 19

Client ID:

Purge Vol: 5.000 mL

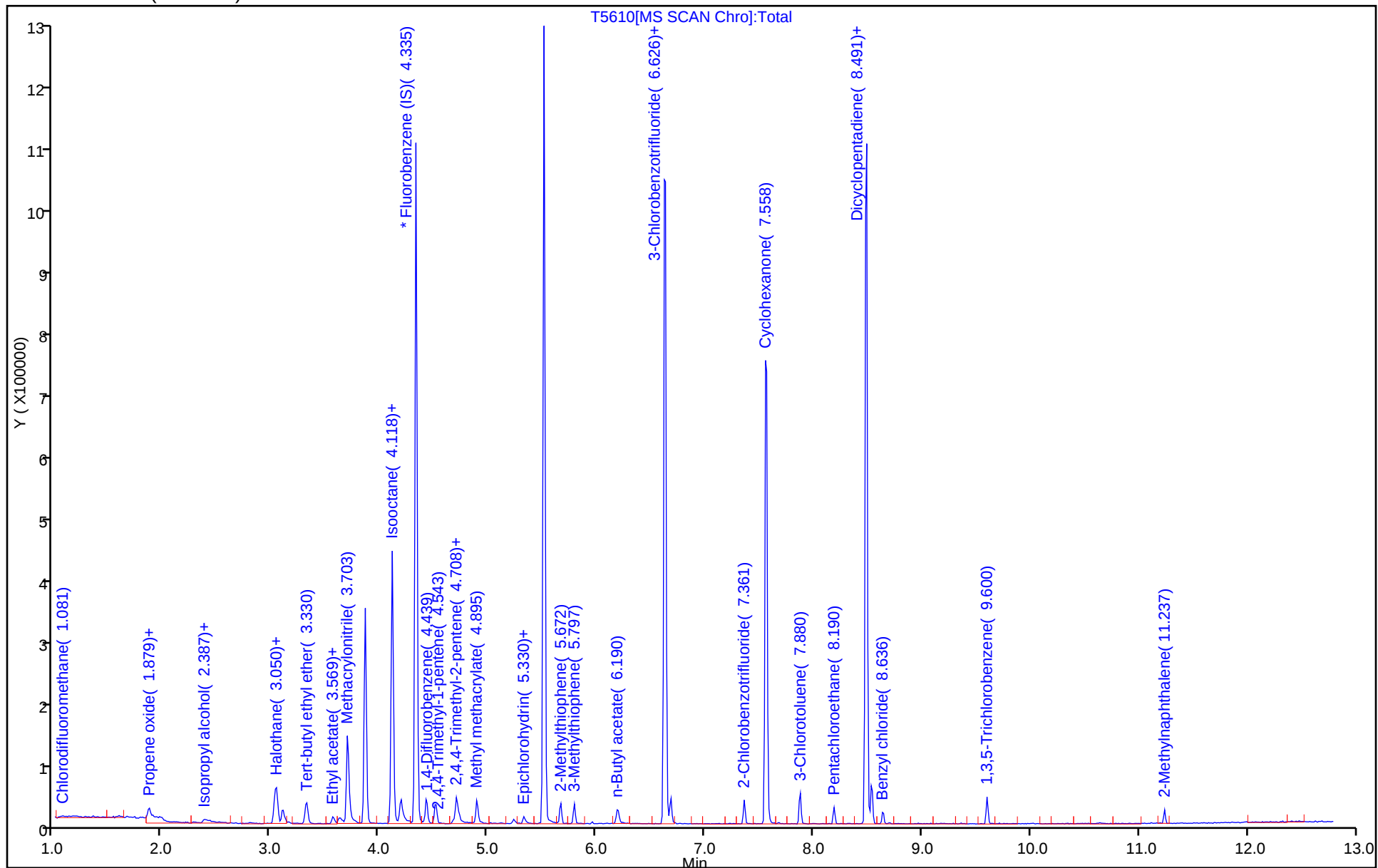
Dil. Factor: 1.0000

ALS Bottle#: 49

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140921-35561.b\T5610.D

Injection Date: 21-Sep-2014 17:49:30

Instrument ID: HP5975T

Lims ID: IC 8

Client ID:

Operator ID: LH

ALS Bottle#:

49

Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: T-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

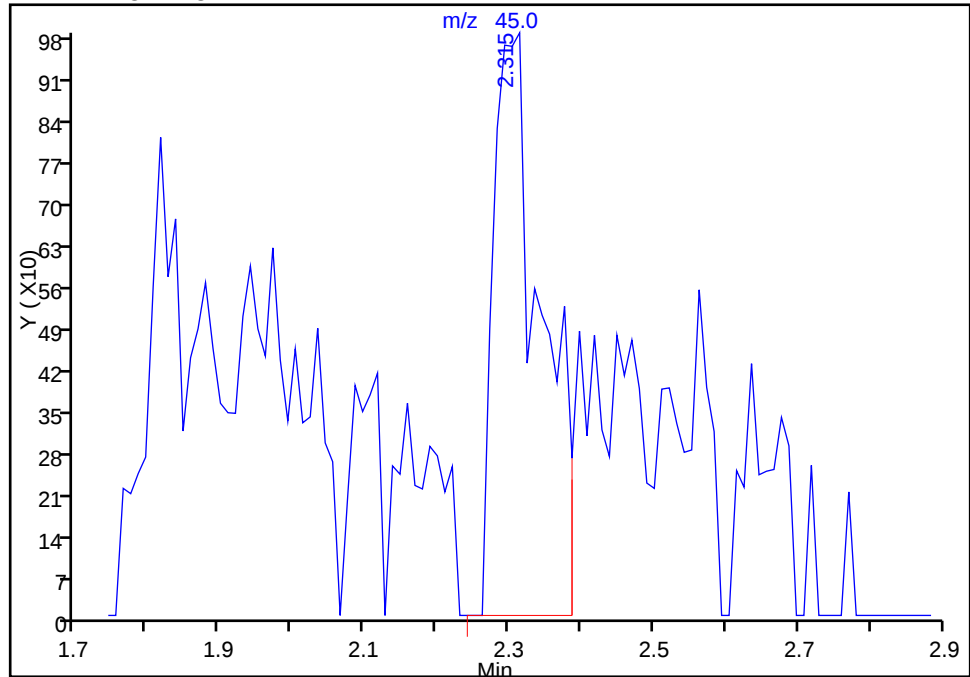
Detector

MS SCAN

26 Isopropyl alcohol, CAS: 67-63-0

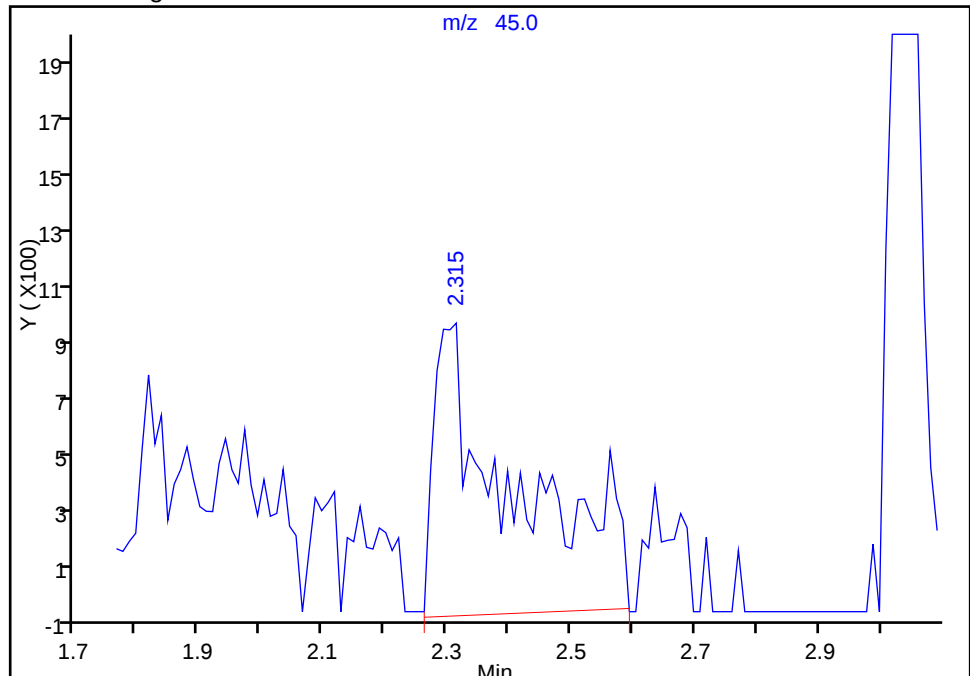
RT: 2.31
Response: 4583
Amount: 5.741548

Processing Integration Results



RT: 2.31
Response: 8960
Amount: 10.252619

Manual Integration Results



Reviewer: HillL, 22-Sep-2014 09:54:19

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140921-35561.b\T5610.D

Injection Date: 21-Sep-2014 17:49:30

Instrument ID: HP5975T

Lims ID: IC 8

Client ID:

Operator ID: LH

ALS Bottle#:

49

Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

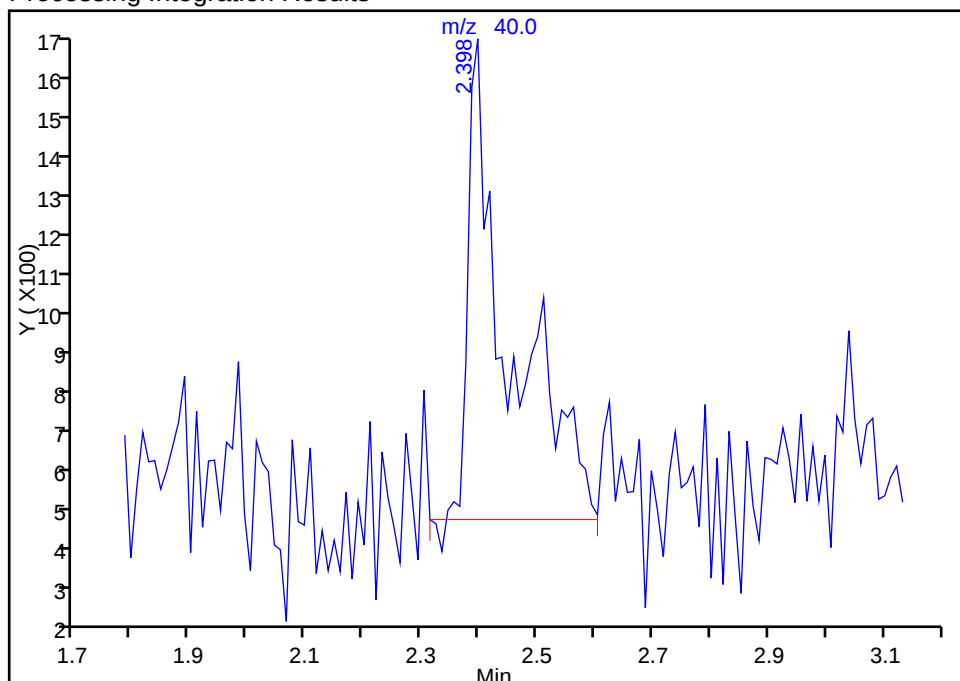
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

29 Acetonitrile, CAS: 75-05-8

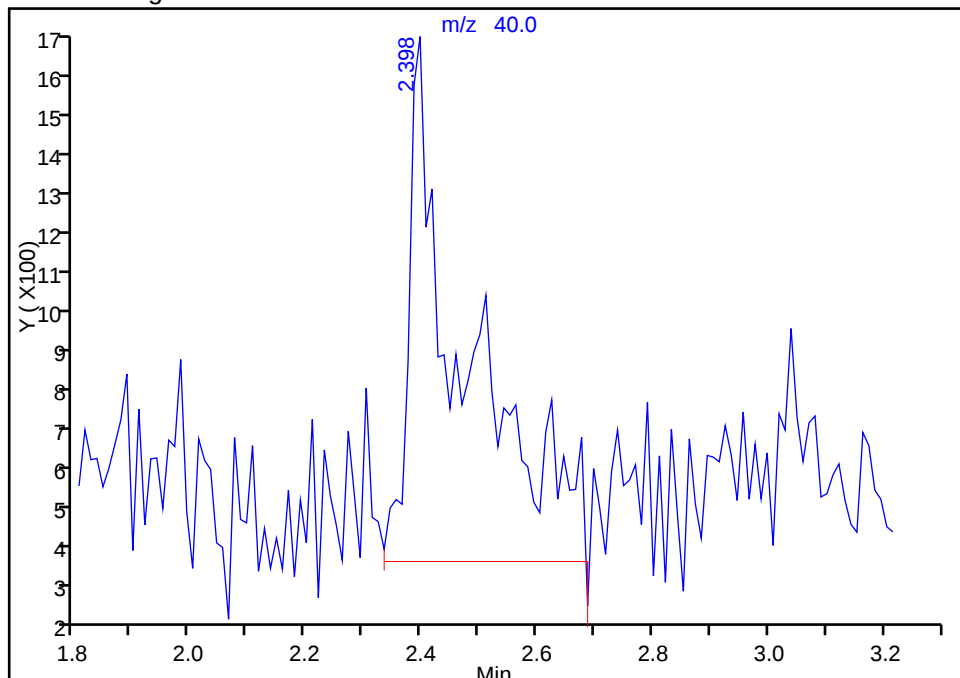
RT: 2.40
Response: 5503
Amount: 7.522353

Processing Integration Results



RT: 2.40
Response: 8255
Amount: 10.708718

Manual Integration Results



Reviewer: HillL, 22-Sep-2014 09:54:19

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140921-35561.b\T5610.D

Injection Date: 21-Sep-2014 17:49:30

Instrument ID: HP5975T

Lims ID: IC 8

Client ID:

Operator ID: LH

ALS Bottle#:

49

Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

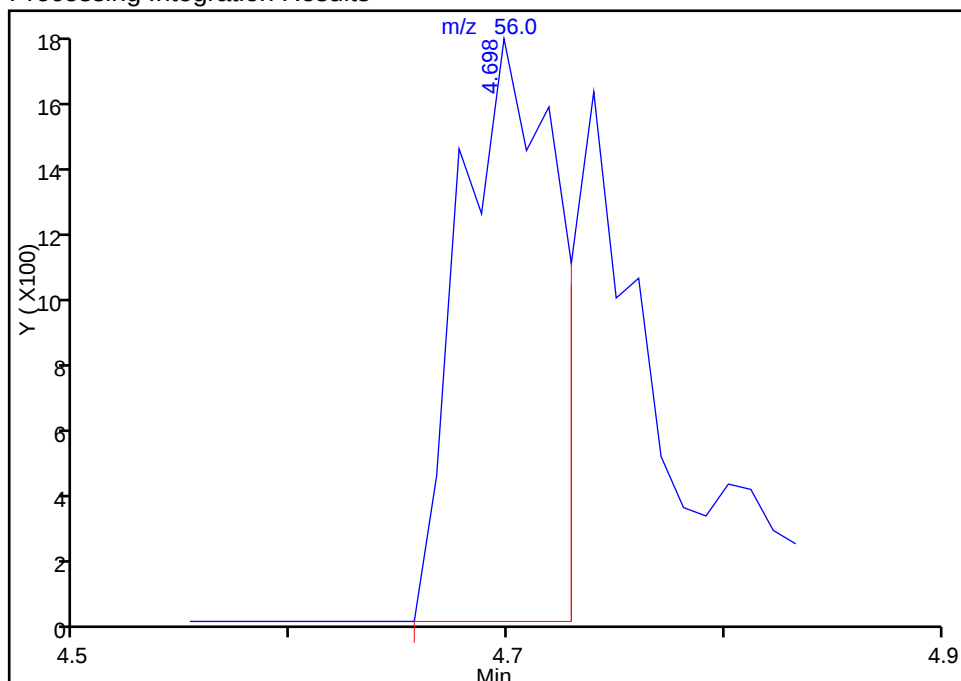
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

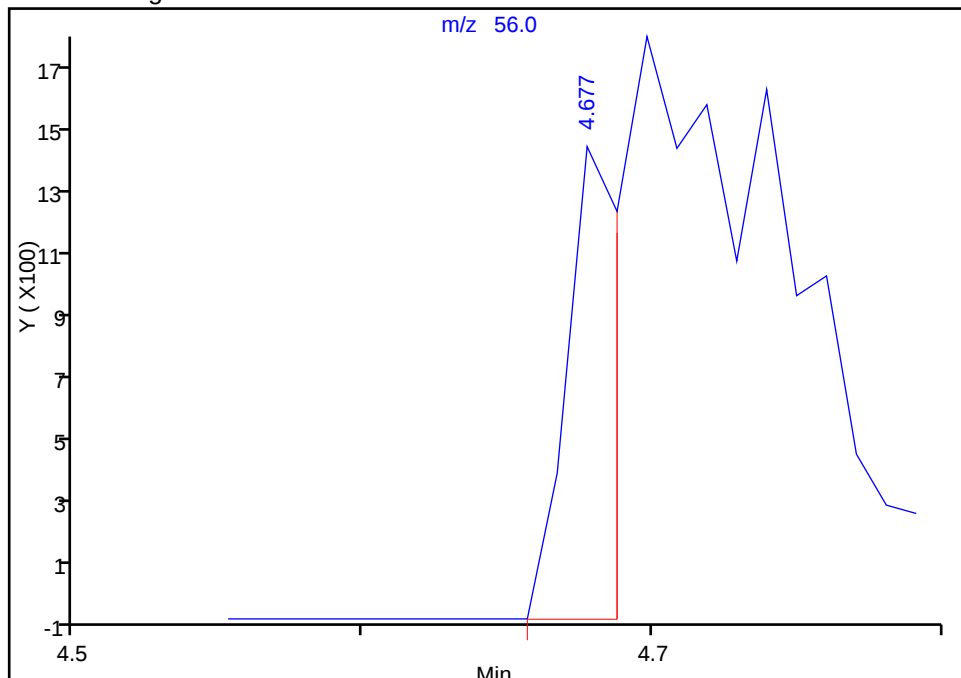
61 n-Butanol, CAS: 71-36-3

RT: 4.70
Response: 5465
Amount: 50.811417

Processing Integration Results

RT: 4.68
Response: 1902
Amount: 44.789484

Manual Integration Results



Reviewer: HillL, 22-Sep-2014 09:55:25

Audit Action: Manually Integrated

Audit Reason: Coelution

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140921-35561.b\T5611.D
 Lims ID: IC 9
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 21-Sep-2014 18:13:30 ALS Bottle#: 50 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 9
 Misc. Info.: 480-0035561-020
 Operator ID: LH Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub55
 Method: \\Bufchrom\ChromData\HP5975T\20140921-35561.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 22-Sep-2014 22:54:05 Calib Date: 21-Sep-2014 19:49:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5975T\20140921-35561.b\T5615.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: HillL

Date: 21-Sep-2014 19:05:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.336	4.335	0.001	98	664933	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.626	6.636	-0.010	91	454574	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.491	8.491	0.000	98	221692	25.0	25.0	
12 Chlorodifluoromethane	51	0.926	0.926	0.000	97	14921	5.00	6.66	
148 Ethanol	45	1.817	1.817	0.000	92	33592	250.0	257.5	
84 Propene oxide	58	1.869	1.869	0.000	96	61007	NC	NC	
26 Isopropyl alcohol	45	2.294	2.294	0.000	98	47578	50.0	54.8	
29 Acetonitrile	40	2.398	2.387	0.011	98	37979	50.0	49.6	
37 Isopropyl ether	45	3.030	3.030	0.000	98	154531	5.00	5.09	
38 2-Chloro-1,3-butadiene	53	3.051	3.051	0.000	94	66285	5.00	4.84	
139 Halothane	117	3.061	3.061	0.000	93	22622	5.00	5.03	
40 1,1-Dimethoxyethane	75	3.102	3.102	0.000	98	42119	25.0	25.6	
41 Tert-butyl ethyl ether	59	3.320	3.320	0.000	99	136943	5.00	4.99	
45 Ethyl acetate	43	3.569	3.558	0.011	99	64678	10.0	9.24	
46 Propionitrile	54	3.621	3.621	0.000	100	72969	50.0	48.4	
49 Methacrylonitrile	41	3.703	3.703	0.000	96	329448	50.0	49.2	
152 Isooctane	57	4.118	4.118	0.000	97	135191	5.00	4.68	
58 Tert-amyl methyl ether	73	4.191	4.190	0.000	95	126005	5.00	4.83	
147 t-Amyl alcohol	59	4.222	4.211	0.011	76	47515	50.0	51.1	
1 1,4-Difluorobenzene	114	4.429	4.429	0.000	95	100350	5.00	4.95	
141 2,4,4-Trimethyl-1-pentene	55	4.522	4.522	0.000	99	28806	NC	NC	
61 n-Butanol	56	4.678	4.667	0.011	87	14531	50.0	61.8	
140 2,4,4-Trimethyl-2-pentene	97	4.709	4.709	0.000	95	63889	NC	NC	
142 Ethyl acrylate	55	4.709	4.719	-0.010	97	129325	5.00	4.53	
64 Methyl methacrylate	41	4.895	4.895	0.000	95	85665	10.0	9.60	
68 2-Nitropropane	43	5.237	5.237	0.000	94	12538	10.0	9.74	
70 Epichlorohydrin	57	5.330	5.320	0.010	99	50303	50.0	49.5	
74 2-Methylthiophene	97	5.672	5.672	0.000	98	87229	5.00	5.05	
76 3-Methylthiophene	97	5.797	5.797	0.000	99	72969	5.00	4.98	
155 n-Butyl acetate	43	6.201	6.201	0.000	0	57091	5.00	4.83	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
146 1-Chlorohexane	55	6.626	6.626	0.000	87	44717	5.00	4.75	
85 3-Chlorobenzotrifluoride	180	6.636	6.636	0.000	93	43857	5.00	4.82	
87 4-Chlorobenzotrifluoride	180	6.688	6.688	0.000	96	39217	5.00	4.80	
94 2-Chlorobenzotrifluoride	180	7.362	7.362	0.000	96	44376	5.00	4.97	
96 Cyclohexanone	55	7.559	7.558	0.000	39	18875	50.0	47.5	
103 3-Chlorotoluene	126	7.880	7.880	0.000	98	35023	5.00	4.88	
108 Pentachloroethane	167	8.191	8.191	0.000	80	14479	5.00	5.17	
112 Dicyclopentadiene	66	8.481	8.481	0.000	72	182170	5.00	4.91	
114 1,2,3-Trimethylbenzene	105	8.533	8.533	0.000	99	138785	5.00	4.94	
150 Benzyl chloride	126	8.636	8.636	0.000	99	10427	5.00	4.41	
118 1,3,5-Trichlorobenzene	180	9.600	9.600	0.000	95	47713	5.00	4.75	
149 2-Methylnaphthalene	142	11.237	11.237	0.000	93	44730	5.00	4.46	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

ADD CORP mix_00014	Amount Added: 5.00	Units: uL
T_8260_IS_00086	Amount Added: 1.00	Units: uL
3_MCP_Add_WRK_00045	Amount Added: 5.00	Units: uL
2MTP_WRK_00036	Amount Added: 5.00	Units: uL
3MTP_WRK_00039	Amount Added: 5.00	Units: uL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140921-35561.b\T5611.D

Injection Date: 21-Sep-2014 18:13:30

Instrument ID: HP5975T

Operator ID: LH

Lims ID: IC 9

Worklist Smp#: 20

Client ID:

Purge Vol: 5.000 mL

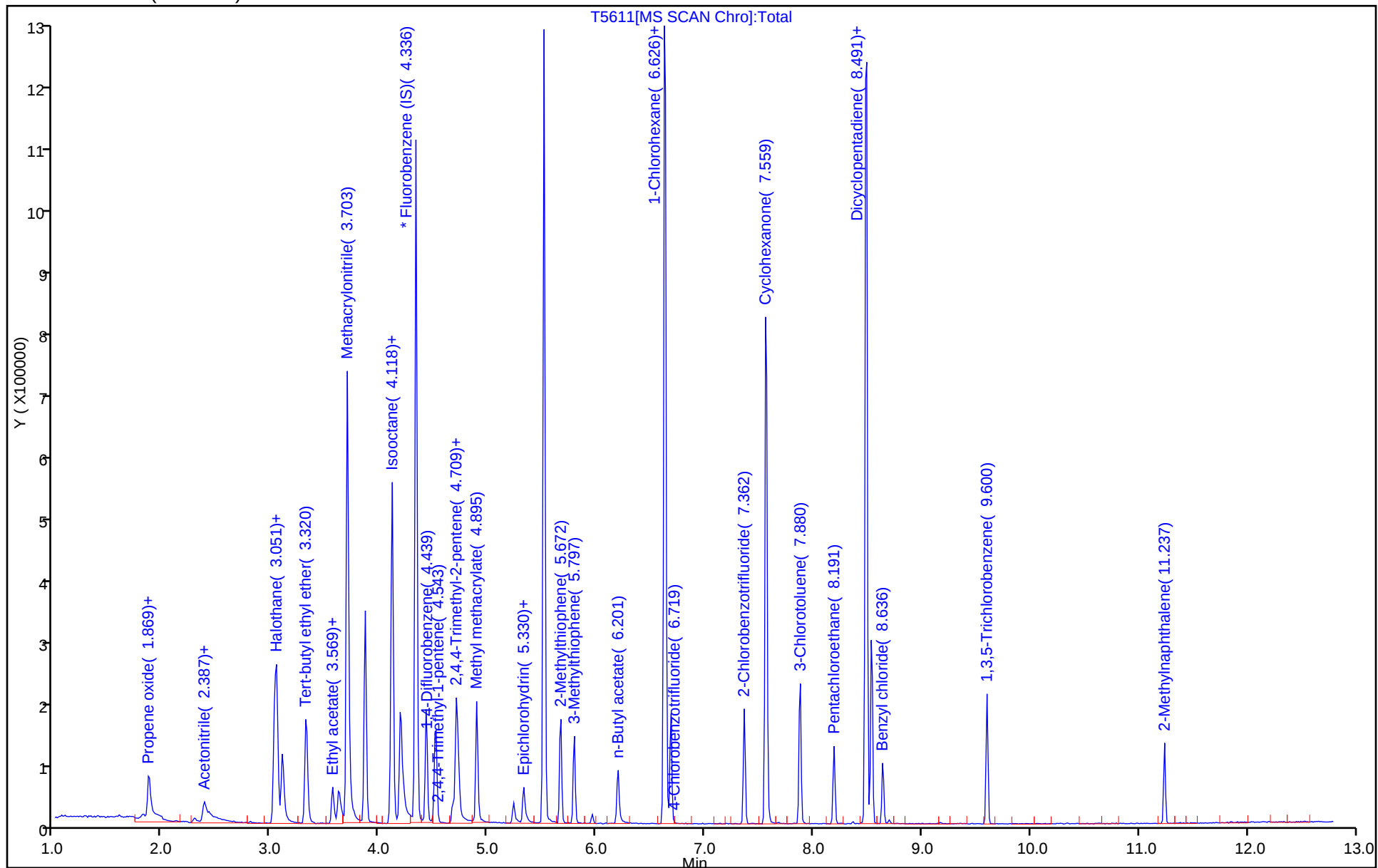
Dil. Factor: 1.0000

ALS Bottle#: 50

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140921-35561.b\T5612.D
 Lims ID: IC 10
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 21-Sep-2014 18:37:30 ALS Bottle#: 51 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 10
 Misc. Info.: 480-0035561-021
 Operator ID: LH Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub55
 Method: \\Bufchrom\ChromData\HP5975T\20140921-35561.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 22-Sep-2014 22:54:27 Calib Date: 21-Sep-2014 19:49:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5975T\20140921-35561.b\T5615.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: HillL

Date: 22-Sep-2014 09:46:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.336	4.336	0.000	98	663238	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.636	6.636	0.000	90	461484	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.491	8.491	0.000	98	229383	25.0	25.0	
12 Chlorodifluoromethane	51	0.937	0.937	0.000	98	36035	10.0	9.84	
148 Ethanol	45	1.817	1.817	0.000	97	56982	500.0	455.4	M
84 Propene oxide	58	1.869	1.869	0.000	96	119686	NC	NC	
26 Isopropyl alcohol	45	2.294	2.294	0.000	99	95863	100.0	110.7	
29 Acetonitrile	40	2.387	2.387	0.000	99	70626	100.0	92.5	
37 Isopropyl ether	45	3.030	3.030	0.000	96	295225	10.0	9.76	
38 2-Chloro-1,3-butadiene	53	3.051	3.051	0.000	94	131846	10.0	9.66	
139 Halothane	117	3.061	3.061	0.000	94	46635	10.0	10.4	
40 1,1-Dimethoxyethane	75	3.102	3.102	0.000	98	78758	50.0	48.0	
41 Tert-butyl ethyl ether	59	3.320	3.320	0.000	99	274982	10.0	10.0	
45 Ethyl acetate	43	3.569	3.569	0.000	99	136302	20.0	19.5	
46 Propionitrile	54	3.621	3.621	0.000	100	138707	100.0	92.3	
49 Methacrylonitrile	41	3.703	3.703	0.000	95	647764	100.0	97.1	
152 Isooctane	57	4.118	4.118	0.000	96	271599	10.0	9.42	
58 Tert-amyl methyl ether	73	4.191	4.191	0.000	96	248047	10.0	9.54	
147 t-Amyl alcohol	59	4.222	4.222	0.000	83	94384	100.0	101.8	
1 1,4-Difluorobenzene	114	4.429	4.429	0.000	97	193602	10.0	9.58	
141 2,4,4-Trimethyl-1-pentene	55	4.522	4.522	0.000	99	55917	NC	NC	
61 n-Butanol	56	4.667	4.667	0.000	88	32829	100.0	86.6	
140 2,4,4-Trimethyl-2-pentene	97	4.709	4.709	0.000	96	135522	NC	NC	
142 Ethyl acrylate	55	4.719	4.719	0.000	97	276015	10.0	9.70	
64 Methyl methacrylate	41	4.895	4.895	0.000	96	174513	20.0	19.6	
68 2-Nitropropane	43	5.237	5.237	0.000	93	23910	20.0	17.9	
70 Epichlorohydrin	57	5.330	5.330	0.000	100	93007	100.0	91.8	
74 2-Methylthiophene	97	5.672	5.672	0.000	98	176349	10.0	9.87	
76 3-Methylthiophene	97	5.797	5.797	0.000	100	148776	10.0	9.82	
155 n-Butyl acetate	43	6.201	6.201	0.000	0	114935	10.0	9.58	

Data File: \\Bufchrom\ChromData\HP5975T\20140921-35561.b\T5612.D

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
146 1-Chlorohexane	55	6.626	6.626	0.000	90	85721	10.0	9.68	
85 3-Chlorobenzotrifluoride	180	6.636	6.636	0.000	92	93337	10.0	9.92	
87 4-Chlorobenzotrifluoride	180	6.688	6.688	0.000	97	82350	10.0	9.74	
94 2-Chlorobenzotrifluoride	180	7.362	7.362	0.000	95	87651	10.0	9.49	
96 Cyclohexanone	55	7.559	7.559	0.000	43	38896	100.0	94.6	
103 3-Chlorotoluene	126	7.880	7.880	0.000	98	73859	10.0	9.94	
108 Pentachloroethane	167	8.191	8.191	0.000	82	26823	10.0	9.25	
112 Dicyclopentadiene	66	8.481	8.481	0.000	93	359541	10.0	9.37	
114 1,2,3-Trimethylbenzene	105	8.533	8.533	0.000	99	281155	10.0	9.66	
150 Benzyl chloride	126	8.636	8.636	0.000	99	20653	10.0	8.60	
118 1,3,5-Trichlorobenzene	180	9.600	9.600	0.000	96	100856	10.0	9.70	
149 2-Methylnaphthalene	142	11.237	11.237	0.000	93	96111	10.0	9.26	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

ADD CORP mix_00014

Amount Added: 5.00

Units: uL

T_8260_IS_00086

Amount Added: 1.00

Units: uL

3_MCP_Add_WRK_00045

Amount Added: 5.00

Units: uL

2MTP_WRK_00036

Amount Added: 5.00

Units: uL

3MTP_WRK_00039

Amount Added: 5.00

Units: uL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140921-35561.b\T5612.D

Injection Date: 21-Sep-2014 18:37:30

Instrument ID: HP5975T

Operator ID: LH

Lims ID: IC 10

Worklist Smp#: 21

Client ID:

Purge Vol: 5.000 mL

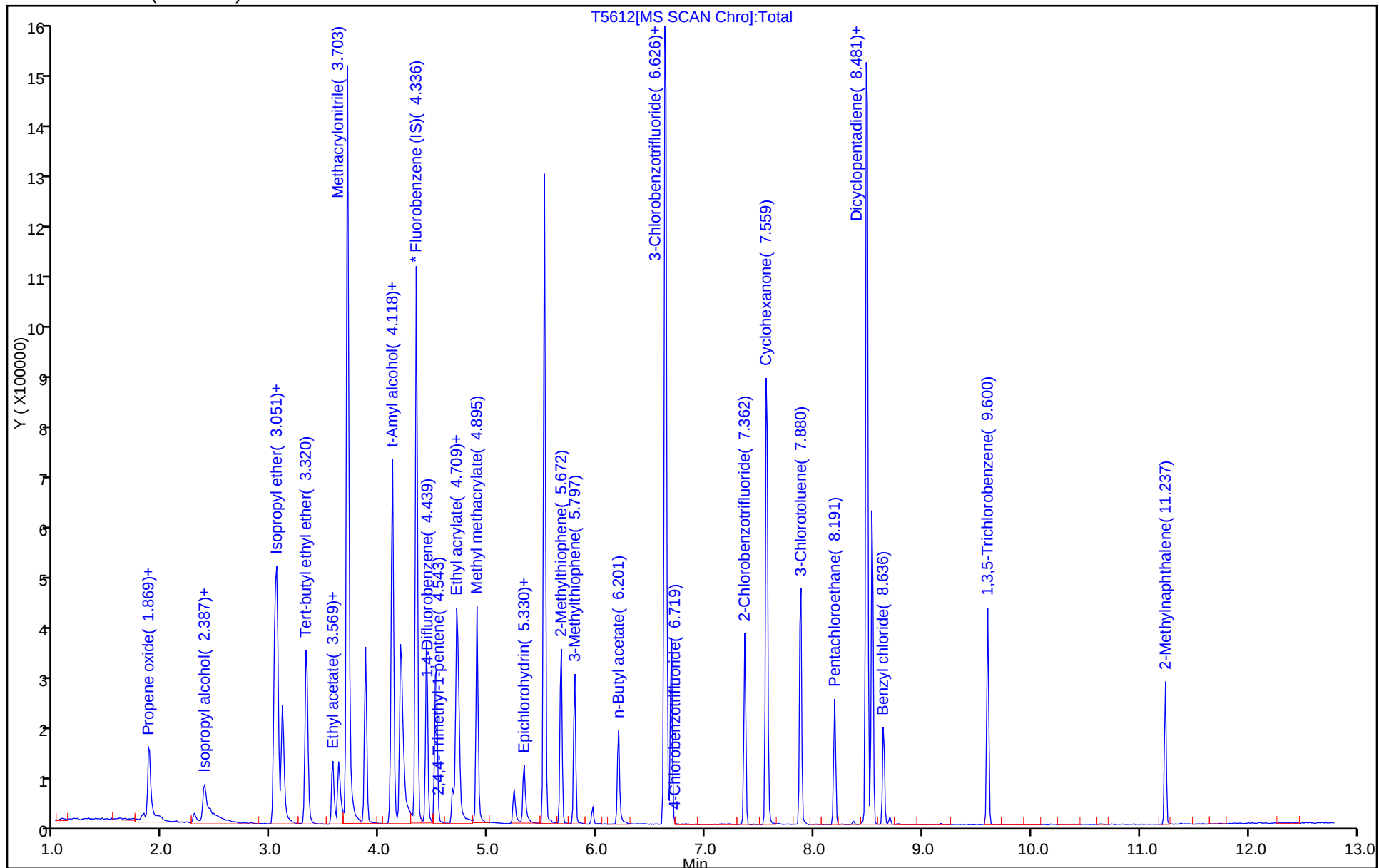
Dil. Factor: 1.0000

ALS Bottle#: 51

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140921-35561.b\T5612.D

Injection Date: 21-Sep-2014 18:37:30

Instrument ID: HP5975T

Lims ID: IC 10

Client ID:

Operator ID: LH

ALS Bottle#:

51

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

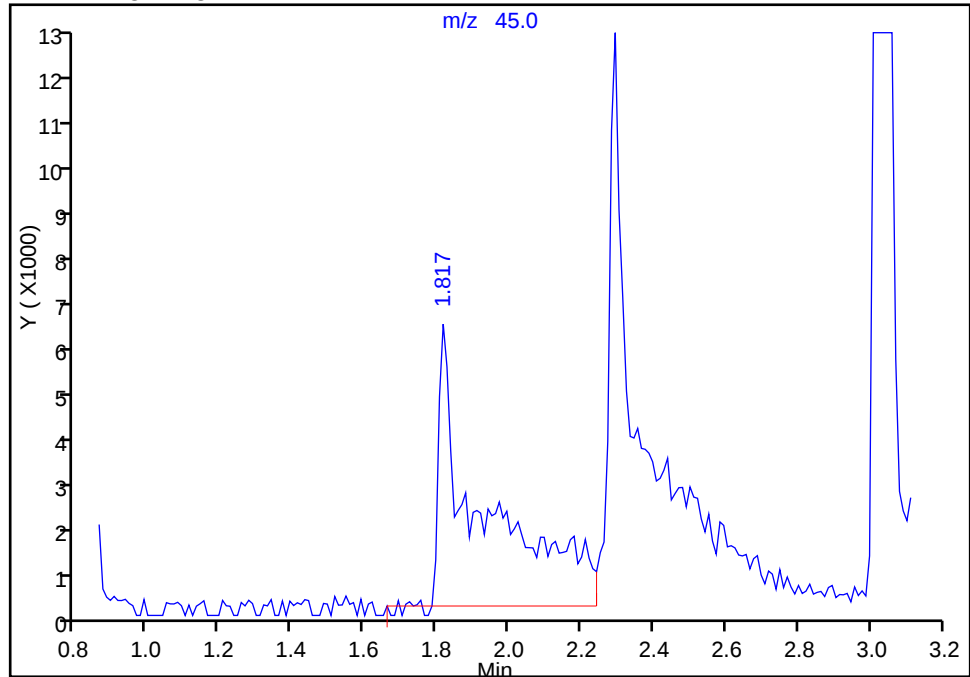
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

148 Ethanol, CAS: 64-17-5

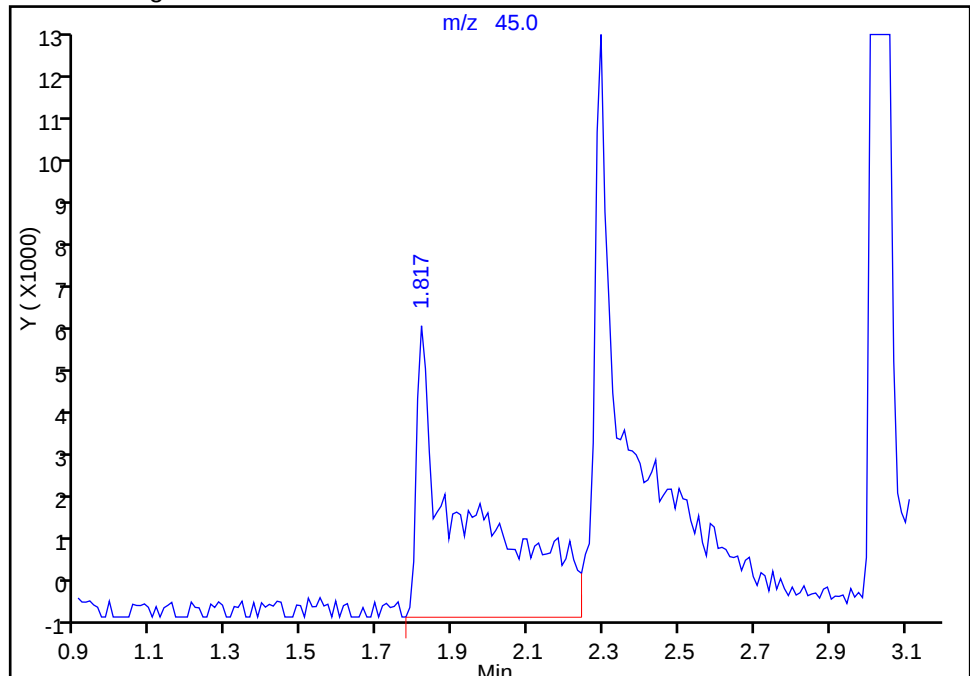
RT: 1.82
Response: 50654
Amount: 406.6136

Processing Integration Results



RT: 1.82
Response: 56982
Amount: 455.3856

Manual Integration Results



Reviewer: HillL, 22-Sep-2014 09:58:05

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140921-35561.b\T5613.D
 Lims ID: IC 11
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 21-Sep-2014 19:01:30 ALS Bottle#: 52 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 11
 Misc. Info.: 480-0035561-022
 Operator ID: LH Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub55
 Method: \\Bufchrom\ChromData\HP5975T\20140921-35561.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 22-Sep-2014 22:54:41 Calib Date: 21-Sep-2014 19:49:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5975T\20140921-35561.b\T5615.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: HillL

Date: 21-Sep-2014 19:38:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.336	4.336	0.000	98	672927	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.636	6.636	0.000	90	466130	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.491	8.491	0.000	98	235236	25.0	25.0	
12 Chlorodifluoromethane	51	0.926	0.926	0.000	98	116391	25.0	21.7	
148 Ethanol	45	1.817	1.817	0.000	97	139804	1250.0	1136.7	
84 Propene oxide	58	1.869	1.869	0.000	96	298381	NC	NC	
26 Isopropyl alcohol	45	2.294	2.294	0.000	99	218781	250.0	249.0	
29 Acetonitrile	40	2.387	2.387	0.000	99	183376	250.0	236.6	
37 Isopropyl ether	45	3.030	3.030	0.000	96	749081	25.0	24.4	
38 2-Chloro-1,3-butadiene	53	3.051	3.051	0.000	94	340300	25.0	24.6	
139 Halothane	117	3.061	3.061	0.000	91	114064	25.0	25.1	
40 1,1-Dimethoxyethane	75	3.102	3.102	0.000	99	201816	125.0	121.2	
41 Tert-butyl ethyl ether	59	3.320	3.320	0.000	99	679198	25.0	24.4	
45 Ethyl acetate	43	3.558	3.558	0.000	99	348483	50.0	49.2	
46 Propionitrile	54	3.621	3.621	0.000	99	379714	250.0	249.1	
49 Methacrylonitrile	41	3.703	3.703	0.000	95	1648262	250.0	243.4	
152 Isooctane	57	4.118	4.118	0.000	96	711320	25.0	24.3	
58 Tert-amyl methyl ether	73	4.190	4.190	0.000	95	671941	25.0	25.5	
147 t-Amyl alcohol	59	4.211	4.211	0.000	76	257416	250.0	273.7	
1 1,4-Difluorobenzene	114	4.429	4.429	0.000	97	501665	25.0	24.5	
141 2,4,4-Trimethyl-1-pentene	55	4.522	4.522	0.000	99	144575	NC	NC	
61 n-Butanol	56	4.667	4.667	0.000	88	124795	250.0	208.5	
140 2,4,4-Trimethyl-2-pentene	97	4.709	4.709	0.000	96	344468	NC	NC	
142 Ethyl acrylate	55	4.719	4.719	0.000	97	726941	25.0	25.2	
64 Methyl methacrylate	41	4.895	4.895	0.000	95	442856	50.0	49.0	
68 2-Nitropropane	43	5.237	5.237	0.000	93	61384	50.0	44.9	
70 Epichlorohydrin	57	5.320	5.320	0.000	100	259790	250.0	252.8	
74 2-Methylthiophene	97	5.672	5.672	0.000	98	454398	25.0	24.8	
76 3-Methylthiophene	97	5.797	5.797	0.000	100	374690	25.0	24.1	
155 n-Butyl acetate	43	6.201	6.201	0.000	0	284606	25.0	23.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
146 1-Chlorohexane	55	6.626	6.626	0.000	89	211333	25.0	24.8	
85 3-Chlorobenzotrifluoride	180	6.636	6.636	0.000	93	234121	25.0	24.3	
87 4-Chlorobenzotrifluoride	180	6.688	6.688	0.000	97	209769	25.0	24.2	
94 2-Chlorobenzotrifluoride	180	7.362	7.362	0.000	95	231423	25.0	24.4	
96 Cyclohexanone	55	7.558	7.558	0.000	94	97867	250.0	232.1	
103 3-Chlorotoluene	126	7.880	7.880	0.000	98	191186	25.0	25.1	
108 Pentachloroethane	167	8.191	8.191	0.000	83	72201	25.0	24.3	
112 Dicyclopentadiene	66	8.481	8.481	0.000	97	940703	25.0	23.9	
114 1,2,3-Trimethylbenzene	105	8.533	8.533	0.000	99	734779	25.0	24.6	
150 Benzyl chloride	126	8.636	8.636	0.000	99	60126	25.0	24.8	
118 1,3,5-Trichlorobenzene	180	9.600	9.600	0.000	96	265119	25.0	24.9	
149 2-Methylnaphthalene	142	11.237	11.237	0.000	93	278058	25.0	26.1	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

ADD CORP mix_00014	Amount Added: 12.50	Units: uL
T_8260_IS_00086	Amount Added: 1.00	Units: uL
3_MCP_Add_WRK_00045	Amount Added: 12.50	Units: uL
2MTP_WRK_00036	Amount Added: 12.50	Units: uL
3MTP_WRK_00039	Amount Added: 12.50	Units: uL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140921-35561.b\T5613.D

Injection Date: 21-Sep-2014 19:01:30

Instrument ID: HP5975T

Operator ID: LH

Lims ID: IC 11

Worklist Smp#: 22

Client ID:

Purge Vol: 5.000 mL

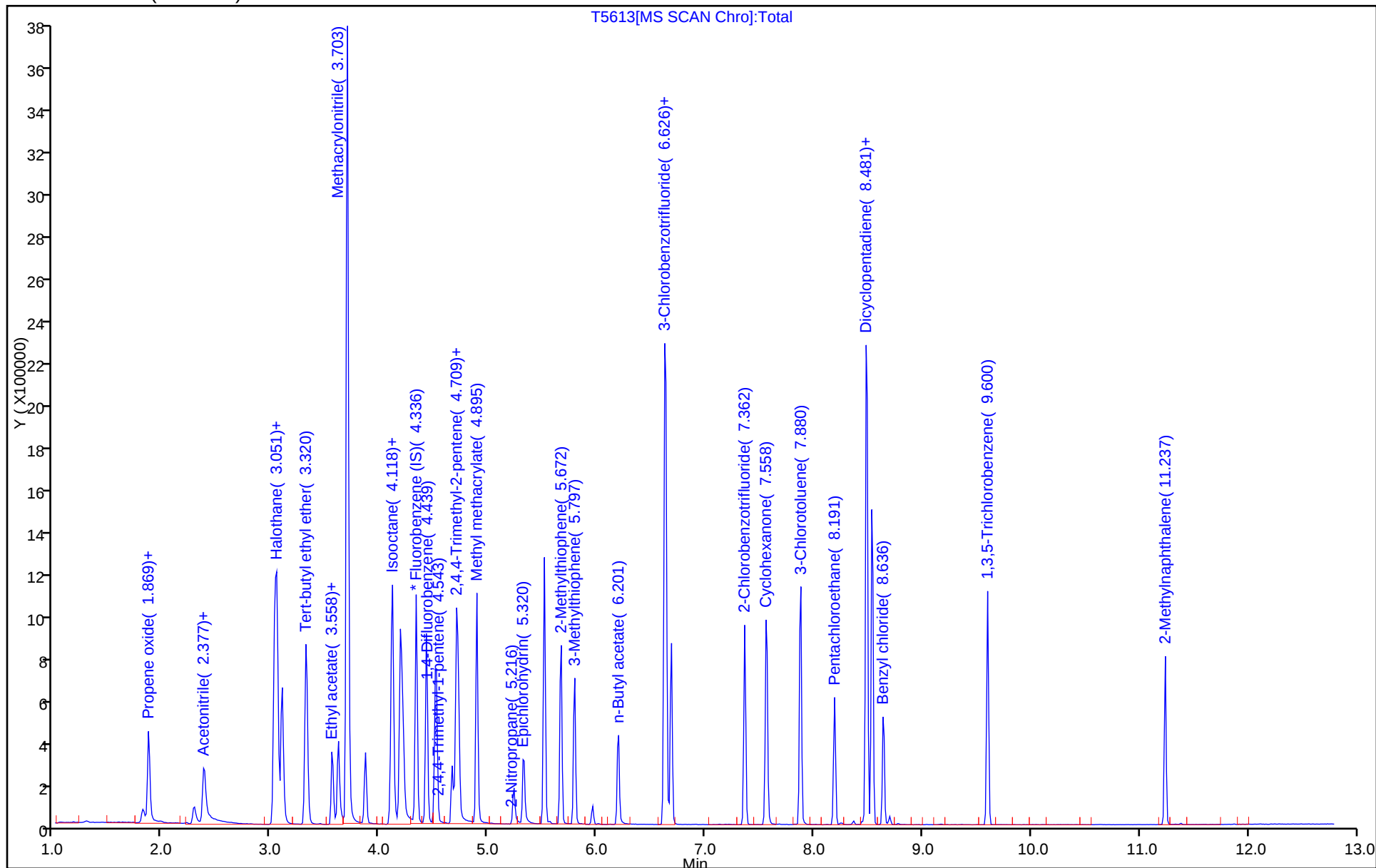
Dil. Factor: 1.0000

ALS Bottle#: 52

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140921-35561.b\T5614.D
 Lims ID: IC 12
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 21-Sep-2014 19:25:30 ALS Bottle#: 53 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 12
 Misc. Info.: 480-0035561-023
 Operator ID: LH Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub55
 Method: \\Bufchrom\ChromData\HP5975T\20140921-35561.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 22-Sep-2014 22:54:55 Calib Date: 21-Sep-2014 19:49:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5975T\20140921-35561.b\T5615.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: HillL

Date: 21-Sep-2014 19:46:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.336	4.336	0.000	98	686602	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.626	6.636	-0.010	90	479927	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.491	8.491	0.000	58	240613	25.0	25.0	
12 Chlorodifluoromethane	51	0.926	0.926	0.000	98	276562	50.0	44.6	
148 Ethanol	45	1.817	1.817	0.000	99	301381	2500.0	2429.4	
84 Propene oxide	58	1.869	1.869	0.000	96	613150	NC	NC	
26 Isopropyl alcohol	45	2.284	2.294	-0.010	99	398262	500.0	444.2	
29 Acetonitrile	40	2.377	2.387	-0.010	99	370211	500.0	468.1	
37 Isopropyl ether	45	3.030	3.030	0.000	96	1547397	50.0	49.4	
38 2-Chloro-1,3-butadiene	53	3.051	3.051	0.000	94	712980	50.0	50.4	
139 Halothane	117	3.061	3.061	0.000	92	229070	50.0	49.3	
40 1,1-Dimethoxyethane	75	3.102	3.102	0.000	98	434014	250.0	255.4	
41 Tert-butyl ethyl ether	59	3.320	3.320	0.000	99	1404108	50.0	49.5	
45 Ethyl acetate	43	3.558	3.558	0.000	100	734853	100.0	101.6	
46 Propionitrile	54	3.621	3.621	-0.001	99	788170	500.0	506.8	
49 Methacrylonitrile	41	3.703	3.703	0.000	95	3440461	500.0	497.9	
152 Isooctane	57	4.118	4.118	0.000	97	1518357	50.0	50.9	
58 Tert-amyl methyl ether	73	4.190	4.190	0.000	95	1396446	50.0	51.9	
147 t-Amyl alcohol	59	4.211	4.211	0.000	85	503739	500.0	524.9	
1 1,4-Difluorobenzene	114	4.429	4.429	0.000	96	1048331	50.0	50.1	
141 2,4,4-Trimethyl-1-pentene	55	4.522	4.522	0.000	99	330962	NC	NC	
61 n-Butanol	56	4.667	4.667	0.000	88	346572	500.0	494.9	M
140 2,4,4-Trimethyl-2-pentene	97	4.709	4.709	0.000	94	748260	NC	NC	
142 Ethyl acrylate	55	4.719	4.719	0.000	98	1533777	50.0	52.1	
64 Methyl methacrylate	41	4.895	4.895	0.000	95	942857	100.0	102.3	
68 2-Nitropropane	43	5.237	5.237	0.000	96	133478	100.0	95.5	
70 Epichlorohydrin	57	5.320	5.320	0.000	100	546707	500.0	521.5	
74 2-Methylthiophene	97	5.672	5.672	0.000	98	947442	50.0	50.5	
76 3-Methylthiophene	97	5.797	5.797	0.000	100	772400	50.0	48.6	
155 n-Butyl acetate	43	6.191	6.201	-0.010	0	625713	50.0	50.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
146 1-Chlorohexane	55	6.626	6.626	0.000	88	442467	50.0	51.2	
85 3-Chlorobenzotrifluoride	180	6.636	6.636	0.000	93	500977	50.0	50.8	
87 4-Chlorobenzotrifluoride	180	6.688	6.688	0.000	97	461682	50.0	52.1	
94 2-Chlorobenzotrifluoride	180	7.362	7.362	0.000	95	489828	50.0	50.6	
96 Cyclohexanone	55	7.558	7.558	0.000	95	209753	500.0	486.4	
103 3-Chlorotoluene	126	7.880	7.880	0.000	98	399518	50.0	51.3	
108 Pentachloroethane	167	8.191	8.191	0.000	86	153035	50.0	50.3	
112 Dicyclopentadiene	66	8.481	8.481	0.000	96	1966786	50.0	48.8	
114 1,2,3-Trimethylbenzene	105	8.533	8.533	0.000	99	1541763	50.0	50.5	
150 Benzyl chloride	126	8.636	8.636	0.000	99	132458	50.0	53.0	
118 1,3,5-Trichlorobenzene	180	9.600	9.600	0.000	96	545007	50.0	50.0	
149 2-Methylnaphthalene	142	11.237	11.237	0.000	93	608612	50.0	55.9	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

ADD CORP mix_00014

Amount Added: 25.00

Units: uL

T_8260_IS_00086

Amount Added: 1.00

Units: uL

3_MCP_Add_WRK_00045

Amount Added: 25.00

Units: uL

2MTP_WRK_00036

Amount Added: 25.00

Units: uL

3MTP_WRK_00039

Amount Added: 25.00

Units: uL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140921-35561.b\T5614.D

Injection Date: 21-Sep-2014 19:25:30

Instrument ID: HP5975T

Operator ID: LH

Lims ID: IC 12

Worklist Smp#: 23

Client ID:

Purge Vol: 5.000 mL

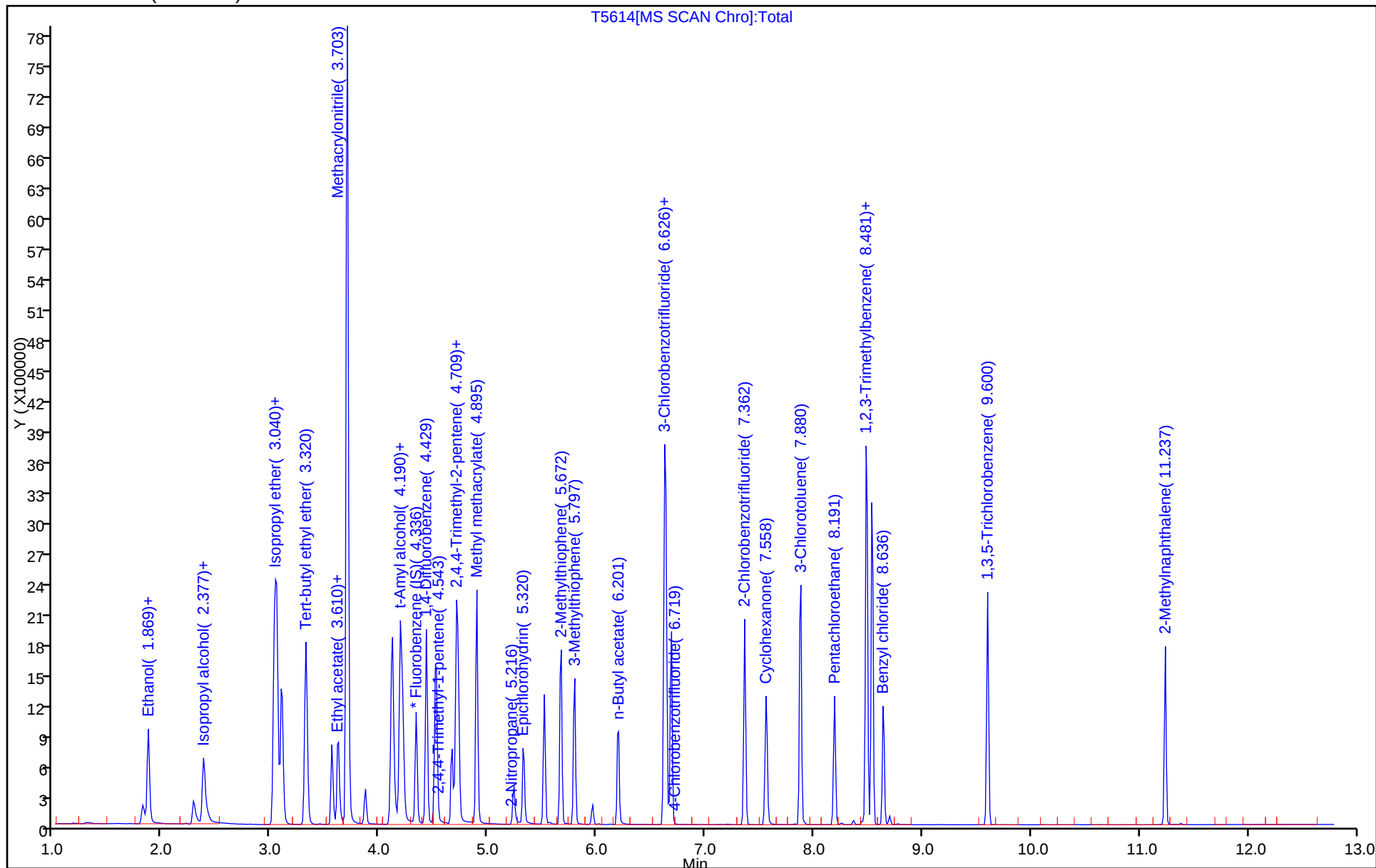
Dil. Factor: 1.0000

ALS Bottle#: 53

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140921-35561.b\T5614.D

Injection Date: 21-Sep-2014 19:25:30

Instrument ID: HP5975T

Lims ID: IC 12

Client ID:

Operator ID: LH

ALS Bottle#:

53

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

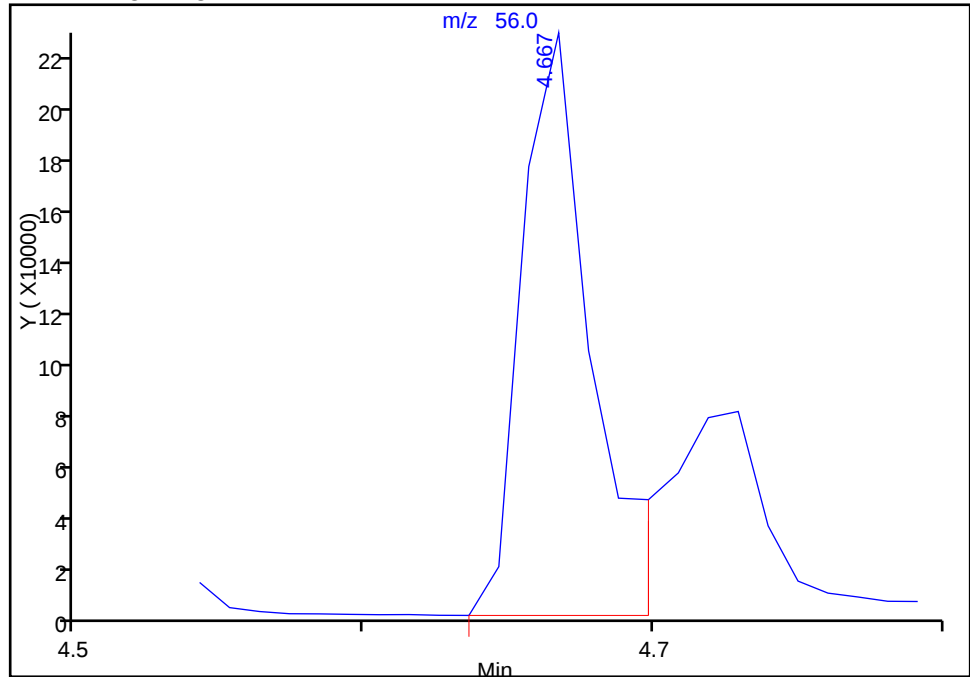
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

61 n-Butanol, CAS: 71-36-3

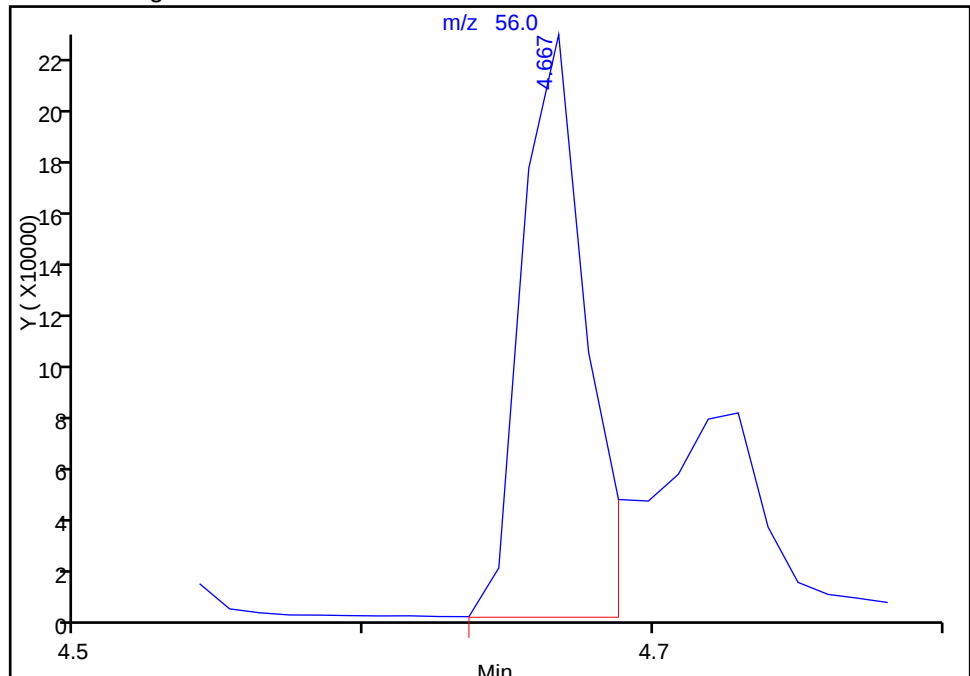
RT: 4.67
Response: 373167
Amount: 498.9648

Processing Integration Results



RT: 4.67
Response: 346572
Amount: 494.8818

Manual Integration Results



Reviewer: HillL, 22-Sep-2014 09:55:53

Audit Action: Manually Integrated

Audit Reason: Coelution

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140921-35561.b\T5615.D
 Lims ID: IC 13
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 21-Sep-2014 19:49:30 ALS Bottle#: 54 Worklist Smp#: 24
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 13
 Misc. Info.: 480-0035561-024
 Operator ID: LH Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub55
 Method: \\Bufchrom\ChromData\HP5975T\20140921-35561.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 22-Sep-2014 22:55:12 Calib Date: 21-Sep-2014 19:49:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5975T\20140921-35561.b\T5615.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: HillL

Date: 21-Sep-2014 20:07:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.335	4.336	-0.001	98	687449	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.636	6.636	0.000	90	482305	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.491	8.491	0.000	51	243800	25.0	25.0	
12 Chlorodifluoromethane	51	0.926	0.926	0.000	98	682685	100.0	103.4	
148 Ethanol	45	1.828	1.817	0.011	99	644149	5000.0	5214.3	
84 Propene oxide	58	1.869	1.869	0.000	96	1197360	NC	NC	
26 Isopropyl alcohol	45	2.294	2.294	0.000	99	796546	1000.0	887.4	
29 Acetonitrile	40	2.387	2.387	0.000	99	761923	1000.0	962.3	
37 Isopropyl ether	45	3.030	3.030	0.000	96	3070513	100.0	97.9	
38 2-Chloro-1,3-butadiene	53	3.050	3.051	-0.001	94	1419472	100.0	100.3	
139 Halothane	117	3.061	3.061	0.000	93	461772	100.0	99.3	
40 1,1-Dimethoxyethane	75	3.102	3.102	0.000	99	875106	500.0	514.4	
41 Tert-butyl ethyl ether	59	3.320	3.320	0.000	99	2811127	100.0	99.0	
45 Ethyl acetate	43	3.558	3.558	0.000	99	1488034	200.0	205.5	
46 Propionitrile	54	3.620	3.621	-0.001	99	1597744	1000.0	1026.0	
49 Methacrylonitrile	41	3.703	3.703	0.000	95	6853040	1000.0	990.6	
152 Isooctane	57	4.118	4.118	0.000	97	3075092	100.0	102.9	
58 Tert-amyl methyl ether	73	4.190	4.190	0.000	96	2860424	100.0	106.1	
147 t-Amyl alcohol	59	4.211	4.211	0.000	84	1047646	1000.0	1090.3	
1 1,4-Difluorobenzene	114	4.429	4.429	0.000	97	2107771	100.0	100.6	
141 2,4,4-Trimethyl-1-pentene	55	4.522	4.522	0.000	99	626866	NC	NC	
61 n-Butanol	56	4.667	4.667	0.000	87	744441	1000.0	1013.3	M
140 2,4,4-Trimethyl-2-pentene	97	4.708	4.709	-0.001	93	1433853	NC	NC	
142 Ethyl acrylate	55	4.719	4.719	0.000	97	3045697	100.0	103.2	
64 Methyl methacrylate	41	4.895	4.895	0.000	95	1890261	200.0	204.9	
68 2-Nitropropane	43	5.237	5.237	0.000	97	299769	200.0	211.7	
70 Epichlorohydrin	57	5.320	5.320	0.000	100	1070685	1000.0	1020.0	
74 2-Methylthiophene	97	5.672	5.672	0.000	98	1938952	100.0	102.1	
76 3-Methylthiophene	97	5.797	5.797	0.000	100	1549540	100.0	96.2	
155 n-Butyl acetate	43	6.201	6.201	0.000	0	1253134	100.0	100.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
146 1-Chlorohexane	55	6.626	6.626	0.000	89	857779	100.0	99.5	
85 3-Chlorobenzotrifluoride	180	6.636	6.636	0.000	92	976494	100.0	97.6	
87 4-Chlorobenzotrifluoride	180	6.688	6.688	0.000	97	898153	100.0	100.0	
94 2-Chlorobenzotrifluoride	180	7.361	7.362	-0.001	95	958967	100.0	97.7	
96 Cyclohexanone	55	7.558	7.558	0.000	95	431084	1000.0	986.6	
103 3-Chlorotoluene	126	7.880	7.880	0.000	98	792391	100.0	100.3	
108 Pentachloroethane	167	8.190	8.191	-0.001	88	328151	100.0	106.5	
112 Dicyclopentadiene	66	8.481	8.481	0.000	97	3952539	100.0	96.9	
114 1,2,3-Trimethylbenzene	105	8.532	8.533	-0.001	100	3098932	100.0	100.2	
150 Benzyl chloride	126	8.636	8.636	0.000	99	281975	100.0	112.3	
118 1,3,5-Trichlorobenzene	180	9.600	9.600	0.000	97	1104120	100.0	99.9	
149 2-Methylnaphthalene	142	11.237	11.237	0.000	93	1359387	100.0	123.2	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

ADD CORP mix_00014

Amount Added: 50.00

Units: uL

T_8260_IS_00086

Amount Added: 1.00

Units: uL

3_MCP_Add_WRK_00045

Amount Added: 50.00

Units: uL

2MTP_WRK_00036

Amount Added: 50.00

Units: uL

3MTP_WRK_00039

Amount Added: 50.00

Units: uL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140921-35561.b\T5615.D

Injection Date: 21-Sep-2014 19:49:30

Instrument ID: HP5975T

Operator ID: LH

Lims ID: IC 13

Worklist Smp#: 24

Client ID:

Purge Vol: 5.000 mL

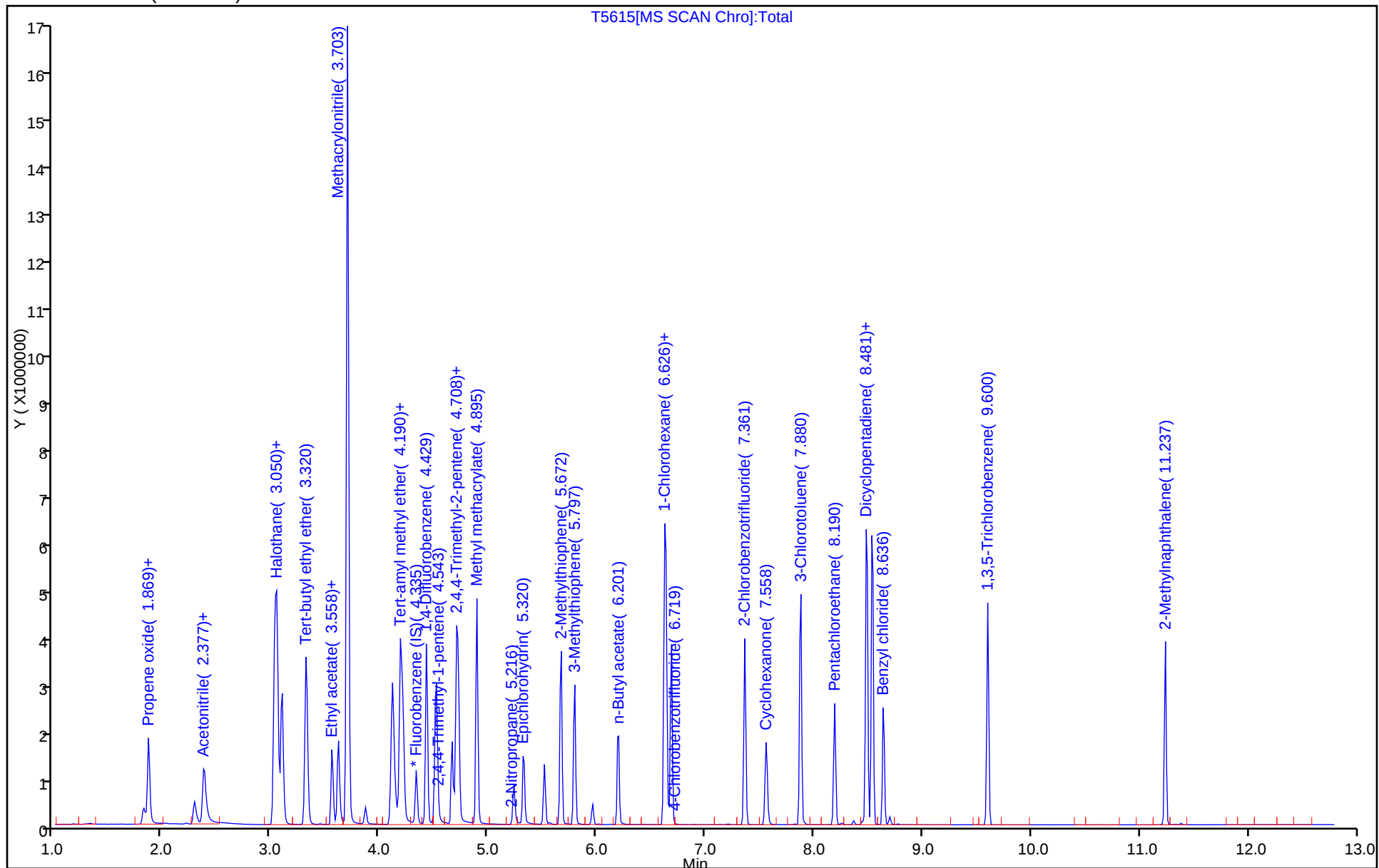
Dil. Factor: 1.0000

ALS Bottle#: 54

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140921-35561.b\T5615.D

Injection Date: 21-Sep-2014 19:49:30

Instrument ID: HP5975T

Lims ID: IC 13

Client ID:

Operator ID: LH

ALS Bottle#:

54

Worklist Smp#: 24

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

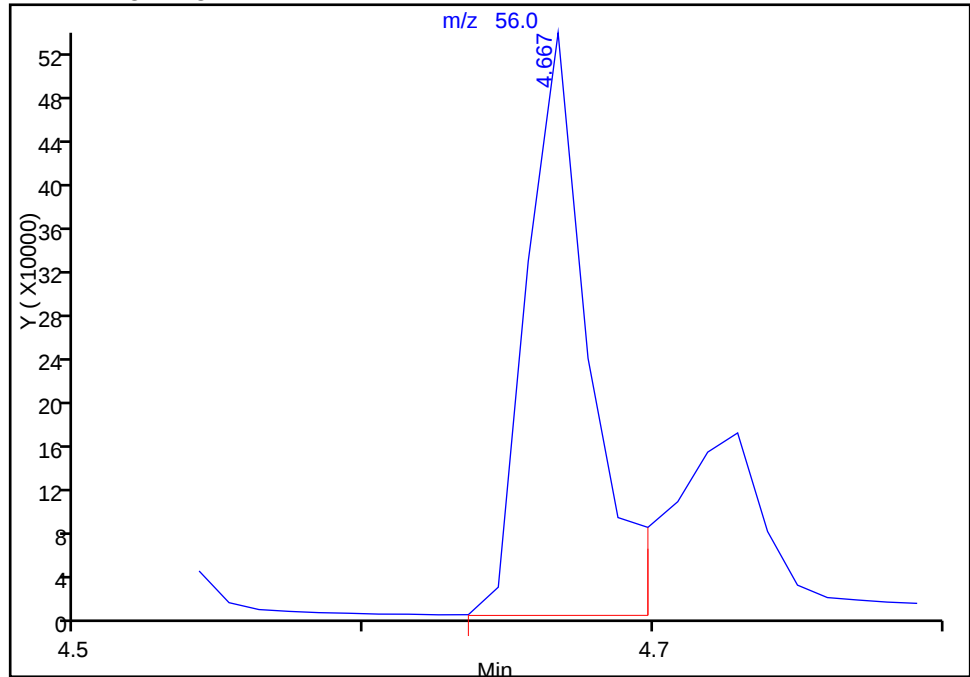
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

61 n-Butanol, CAS: 71-36-3

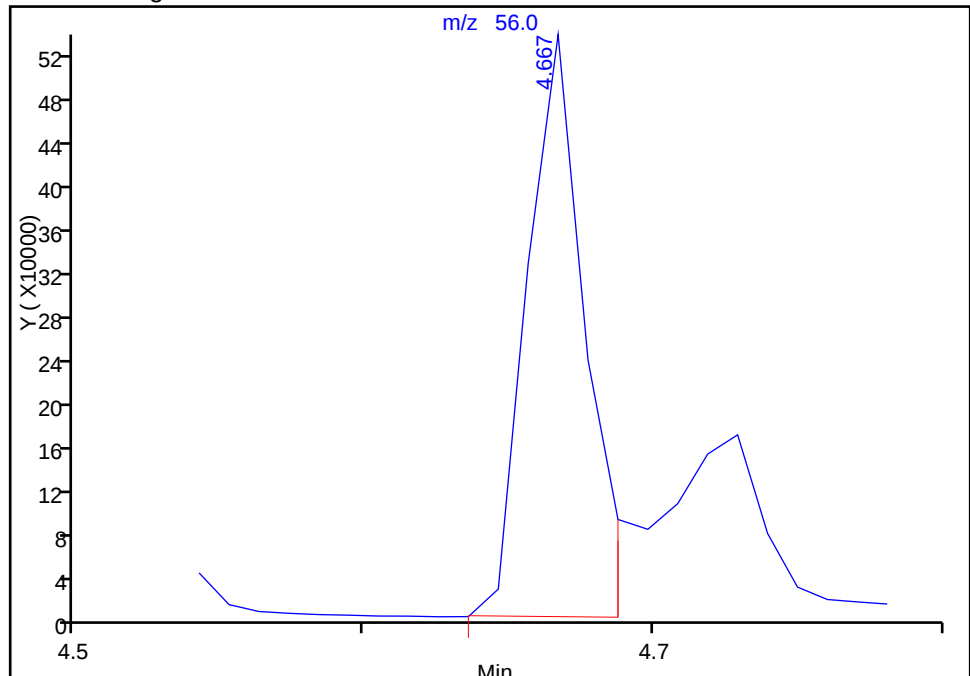
RT: 4.67
Response: 797167
Amount: 1024.4682

Processing Integration Results



RT: 4.67
Response: 744441
Amount: 1013.3210

Manual Integration Results



Reviewer: HillL, 22-Sep-2014 09:56:14

Audit Action: Manually Integrated

Audit Reason: Coelution

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-69812-1 Analy Batch No.: 206953

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/09/2014 20:23 Calibration End Date: 10/09/2014 22:47 Calibration ID: 20631

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-206953/7	T6142.D
Level 2	IC 480-206953/8	T6143.D
Level 3	IC 480-206953/9	T6144.D
Level 4	IC 480-206953/10	T6145.D
Level 5	ICIS 480-206953/11	T6146.D
Level 6	IC 480-206953/12	T6147.D
Level 7	IC 480-206953/13	T6148.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								
Dichlorodifluoromethane	+++++ 0.2198	0.2379 0.2150	0.2316	0.2529	0.2257	Ave		0.2305			0.1000	5.9		20.0			
Chloromethane	+++++ 0.3419	0.3837 0.3410	0.3511	0.3844	0.3393	Ave		0.3569			0.1000	6.0		20.0			
Vinyl chloride	0.3270 0.3201	0.3381 0.3150	0.3318	0.3665	0.3164	Ave		0.3307			0.1000	5.4		20.0			
Butadiene	+++++ 0.3117	0.3553 0.3087	0.3513	0.3838	0.3166	Ave		0.3379				9.0		20.0			
Bromomethane	+++++ 0.1181	0.1900 0.1291	0.1273	0.1364	0.1128	Lin1	0.0552	0.1230			0.1000				0.9960		0.9900
Chloroethane	+++++ 0.1770	0.1584 0.1762	0.1407	0.1615	0.1649	Ave		0.1631			0.1000	8.2		20.0			
Trichlorofluoromethane	+++++ 0.3358	0.3766 0.3322	0.3780	0.3853	0.3397	Ave		0.3579			0.1000	6.8		20.0			
Dichlorofluoromethane	+++++ 0.4093	0.4412 0.4111	0.4196	0.4756	0.3981	Ave		0.4258				6.7		20.0			
Ethyl ether	+++++ 0.2897	0.3232 0.2840	0.2951	0.2894	0.2800	Ave		0.2936				5.3		20.0			
Acrolein	+++++ 0.0375	0.0448 0.0385	0.0389	0.0386	0.0370	Ave		0.0392				7.2		20.0			
1,1-Dichloroethene	+++++ 0.2107	0.2366 0.2113	0.2248	0.2193	0.2096	Ave		0.2187			0.1000	4.8		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 0.2248	0.2576 0.2149	0.2399	0.2431	0.2190	Ave		0.2332			0.1000	7.0		20.0			
Iodomethane	+++++ 0.3599	0.4150 0.3638	0.3754	0.3747	0.3542	Ave		0.3739				5.8		20.0			
Acetone	+++++ 0.1218	0.1067 0.1206	0.1199	0.1284	0.1226	Ave		0.1200			0.1000	6.0		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.: 480-69812-1 Analy Batch No.: 206953

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/09/2014 20:23 Calibration End Date: 10/09/2014 22:47 Calibration ID: 20631

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								
Carbon disulfide	++++ 0.7980	0.8754 0.7965	0.8603	0.8284	0.7877	Ave		0.8244			0.1000	4.4		20.0			
Allyl chloride	++++ 0.5066	0.5404 0.5179	0.4781	0.4953	0.4925	Ave		0.5051				4.3		20.0			
Methyl acetate	++++ 0.3204	0.3086 0.3253	0.2961	0.3107	0.3118	Ave		0.3122			0.1000	3.3		20.0			
Methylene Chloride	++++ 0.2721	0.3656 0.2755	0.2941	0.2906	0.2706	Ave		0.2947			0.1000	12.0		20.0			
trans-1,2-Dichloroethene	++++ 0.2564	0.2594 0.2543	0.2690	0.2650	0.2579	Ave		0.2603			0.1000	2.1		20.0			
Methyl tert-butyl ether	++++ 0.8070	0.8630 0.8273	0.8183	0.8192	0.7887	Ave		0.8206			0.1000	3.0		20.0			
2-Methyl-2-propanol	++++ 0.0325	0.0192 0.0382	0.0226	0.0259	0.0268	Lin	-1.407	0.0385							0.9930		0.9900
Acrylonitrile	0.1365 0.1486	0.1441 0.1509	0.1442	0.1527	0.1474	Ave		0.1464				3.7		20.0			
Hexane	++++ 0.4690	0.5475 0.4666	0.5066	0.4815	0.4563	Ave		0.4879				7.0		20.0			
1,1-Dichloroethane	++++ 0.5401	0.5713 0.5474	0.5744	0.5597	0.5422	Ave		0.5558			0.2000	2.7		20.0			
Vinyl acetate	++++ 0.3527	0.2584 0.4005	0.2503	0.2817	0.3085	Ave		0.3087				19.0		20.0			
2,2-Dichloropropane	++++ 0.2256	0.2233 0.2396	0.2187	0.2094	0.2059	Ave		0.2204				5.5		20.0			
cis-1,2-Dichloroethene	++++ 0.2808	0.2919 0.2840	0.2906	0.2935	0.2772	Ave		0.2863			0.1000	2.3		20.0			
2-Butanone (MEK)	++++ 0.1944	0.1887 0.1991	0.1904	0.2013	0.1935	Ave		0.1946			0.1000	2.5		20.0			
Chlorobromomethane	++++ 0.1328	0.1423 0.1375	0.1395	0.1442	0.1341	Ave		0.1384				3.2		20.0			
Tetrahydrofuran	++++ 0.1255	0.1595 0.1263	0.1272	0.1361	0.1250	Ave		0.1333				10.0		20.0			
Chloroform	++++ 0.4668	0.5099 0.4695	0.5012	0.4750	0.4646	Ave		0.4812			0.2000	4.0		20.0			
Cyclohexane	++++ 0.5715	0.6486 0.5807	0.6241	0.5954	0.5602	Ave		0.5967			0.1000	5.6		20.0			
1,1,1-Trichloroethane	++++ 0.3361	0.3485 0.3505	0.3030	0.3034	0.3185	Ave		0.3267			0.1000	6.6		20.0			
Carbon tetrachloride	++++ 0.2366	0.2007 0.2646	0.1927	0.1961	0.2056	Ave		0.2160			0.1000	13.0		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.: 480-69812-1 Analy Batch No.: 206953

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/09/2014 20:23 Calibration End Date: 10/09/2014 22:47 Calibration ID: 20631

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								
1,1-Dichloropropene	+++++ 0.3466	0.3649 0.3486	0.3595	0.3541	0.3393	Ave		0.3522				2.6		20.0			
Benzene	+++++ 1.0664	1.1095 1.0820	1.0983	1.0890	1.0494	Ave		1.0824			0.5000	2.0		20.0			
1,2-Dichloroethane	+++++ 0.4125	0.5143 0.4201	0.4355	0.4258	0.4109	Ave		0.4365			0.1000	9.0		20.0			
Isobutyl alcohol	+++++ 0.0129	0.0062 0.0164	0.0076	0.0087	0.0102	Qua	-0.261	0.0093	0.0000029						1.0000		0.9900
n-Heptane	+++++ 0.5246	0.7257 0.5227	0.5749	0.5536	0.5342	Ave		0.5726				14.0		20.0			
Trichloroethene	+++++ 0.2654	0.2732 0.2659	0.2719	0.2701	0.2680	Ave		0.2691			0.2000	1.2		20.0			
Methylcyclohexane	+++++ 0.4508	0.4897 0.4473	0.4620	0.4493	0.4404	Ave		0.4566			0.1000	3.9		20.0			
1,2-Dichloropropane	+++++ 0.3137	0.3047 0.3213	0.3111	0.3167	0.3081	Ave		0.3126			0.1000	1.9		20.0			
Dibromomethane	+++++ 0.1698	0.1786 0.1708	0.1708	0.1651	0.1670	Ave		0.1704			0.1000	2.7		20.0			
1,4-Dioxane	+++++ 0.0052	0.0036 0.0051	0.0045	0.0055	0.0052	Ave		0.0048				14.0		20.0			
Bromodichloromethane	+++++ 0.3191	0.2928 0.3529	0.2769	0.2889	0.3024	Ave		0.3055			0.2000	8.9		20.0			
2-Chloroethyl vinyl ether	+++++ 0.1902	0.1481 0.2030	0.1634	0.1717	0.1711	Ave		0.1746				11.0		20.0			
cis-1,3-Dichloropropene	0.2767 0.3931	0.3168 0.4241	0.3319	0.3349	0.3500	Ave		0.3468			0.2000	14.0		20.0			
4-Methyl-2-pentanone (MIBK)	+++++ 0.5731	0.5961 0.5905	0.5587	0.5879	0.5785	Ave		0.5808			0.1000	2.3		20.0			
Toluene	+++++ 0.9093	0.9768 0.9329	0.9621	0.9409	0.9190	Ave		0.9402			0.4000	2.7		20.0			
trans-1,3-Dichloropropene	0.2401 0.4420	0.3128 0.5043	0.3232	0.3585	0.3817	Lin	-1.229	0.5030			0.1000				0.9950		0.9900
Ethyl methacrylate	+++++ 0.4580	0.3185 0.5196	0.3343	0.3491	0.4047	Ave		0.3974				20.0		20.0			
1,1,2-Trichloroethane	+++++ 0.2924	0.2982 0.3002	0.2895	0.3019	0.2925	Ave		0.2958			0.1000	1.7		20.0			
Tetrachloroethene	+++++ 0.3431	0.3837 0.3487	0.3713	0.3566	0.3401	Ave		0.3573			0.2000	4.8		20.0			
1,3-Dichloropropane	+++++ 0.6003	0.7101 0.6258	0.6190	0.6102	0.6142	Ave		0.6300				6.4		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.: 480-69812-1 Analy Batch No.: 206953

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/09/2014 20:23 Calibration End Date: 10/09/2014 22:47 Calibration ID: 20631

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								
2-Hexanone	++++ 0.4242	0.3811 0.4283	0.3894	0.4153	0.4249	Ave		0.4105			0.1000	4.9		20.0			
Dibromochloromethane	++++ 0.2787	0.2018 0.3308	0.2112	0.2261	0.2427	Ave		0.2486			0.1000	20.0		20.0			
1,2-Dibromoethane	++++ 0.3155	0.2433 0.3435	0.2379	0.2603	0.2864	Ave		0.2811				15.0		20.0			
Chlorobenzene	++++ 0.9823	1.0739 0.9998	1.0237	1.0210	0.9965	Ave		1.0162			0.5000	3.2		20.0			
1,1,1,2-Tetrachloroethane	++++ 0.2594	0.1743 0.3034	0.1962	0.2018	0.2326	Lin	-0.998	0.3052							0.9940		0.9900
Ethylbenzene	++++ 1.7387	1.8689 1.7586	1.8430	1.7961	1.7424	Ave		1.7913			0.1000	3.1		20.0			
m,p-Xylene	++++ 0.6556	0.6598 0.6653	0.6575	0.6727	0.6497	Ave		0.6601			0.1000	1.2		20.0			
o-Xylene	++++ 0.6396	0.6889 0.6471	0.6834	0.6494	0.6441	Ave		0.6587			0.3000	3.3		20.0			
Styrene	++++ 1.1201	1.1406 1.1572	1.1382	1.1369	1.0850	Ave		1.1297			0.3000	2.2		20.0			
Bromoform	++++ 0.1459	0.1059 0.1800	0.1022	0.1098	0.1259	Lin	-0.732	0.1809			0.1000				0.9900		0.9900
Isopropylbenzene	++++ 3.2953	3.6940 3.4366	3.4026	3.3497	3.3234	Ave		3.4169			0.1000	4.2		20.0			
Bromobenzene	++++ 0.7586	0.8426 0.7983	0.7547	0.7670	0.7585	Ave		0.7799				4.4		20.0			
1,1,2,2-Tetrachloroethane	++++ 0.9242	0.8867 0.9781	0.8581	0.8774	0.9139	Ave		0.9064			0.3000	4.7		20.0			
N-Propylbenzene	++++ 4.0041	4.5542 4.1687	4.1917	4.0623	3.9873	Ave		4.1614				5.0		20.0			
1,2,3-Trichloropropane	++++ 0.2834	0.2617 0.2890	0.2542	0.2833	0.2798	Ave		0.2752				5.1		20.0			
trans-1,4-Dichloro-2-butene	++++ 0.2956	0.1729 0.3385	0.2074	0.2474	0.2759	Lin1	-0.273	0.3186							0.9910		0.9900
2-Chlorotoluene	++++ 0.7329	0.8520 0.7656	0.7683	0.7538	0.7609	Ave		0.7723				5.3		20.0			
1,3,5-Trimethylbenzene	++++ 2.8551	3.2368 2.9002	2.8857	2.8299	2.8667	Ave		2.9291				5.2		20.0			
4-Chlorotoluene	++++ 2.8210	3.1018 2.9282	2.9412	2.8811	2.8259	Ave		2.9165				3.6		20.0			
tert-Butylbenzene	++++ 0.5598	0.5951 0.5815	0.5916	0.5616	0.5708	Ave		0.5767				2.6		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.: 480-69812-1 Analy Batch No.: 206953

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/09/2014 20:23 Calibration End Date: 10/09/2014 22:47 Calibration ID: 20631

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								
1,2,4-Trimethylbenzene	++++ 2.9602	3.1884 2.9832	3.0048	2.9825	2.9436	Ave		3.0105				3.0		20.0			
sec-Butylbenzene	++++ 3.6067	3.9758 3.6674	3.7573	3.6880	3.6338	Ave		3.7215				3.6		20.0			
1,3-Dichlorobenzene	++++ 1.4951	1.7189 1.5294	1.5966	1.5666	1.5284	Ave		1.5725			0.6000	5.1		20.0			
4-Isopropyltoluene	++++ 3.0640	3.2995 3.0997	3.1375	3.1006	3.0999	Ave		3.1336				2.7		20.0			
1,4-Dichlorobenzene	++++ 1.5476	1.7496 1.5645	1.6440	1.6459	1.5492	Ave		1.6168			0.5000	4.9		20.0			
n-Butylbenzene	++++ 2.9204	3.1221 2.9488	3.0262	3.0082	2.9114	Ave		2.9895				2.7		20.0			
1,2-Dichlorobenzene	++++ 1.4762	1.5337 1.4917	1.5282	1.5552	1.4723	Ave		1.5096			0.4000	2.3		20.0			
1,2-Dibromo-3-Chloropropane	++++ 0.1262	0.0526 0.1514	0.0743	0.0828	0.1011	Lin	-0.676	0.1533			0.0500				0.9910		0.9900
1,2,4-Trichlorobenzene	++++ 0.9449	0.8972 0.8943	0.9302	1.0214	0.9601	Ave		0.9414			0.2000	5.0		20.0			
Hexachlorobutadiene	0.4916 0.4468	0.5213 0.4232	0.4723	0.4901	0.4734	Ave		0.4741				6.7		20.0			
Naphthalene	++++ 2.6352	2.5140 2.5174	2.3988	2.7021	2.6534	Ave		2.5701				4.4		20.0			
1,2,3-Trichlorobenzene	++++ 0.8605	0.9043 0.8077	0.8541	0.9485	0.9135	Ave		0.8814				5.7		20.0			
Dibromofluoromethane (Surr)	0.2390 0.2426	0.2300 0.2450	0.2376	0.2391	0.2387	Ave		0.2389				2.0		20.0			
1,2-Dichloroethane-d4 (Surr)	0.3204 0.3191	0.3219 0.3263	0.3204	0.3265	0.3202	Ave		0.3221				1.0		20.0			
Toluene-d8 (Surr)	1.3186 1.3279	1.3317 1.3602	1.3556	1.3223	1.3307	Ave		1.3353				1.2		20.0			
4-Bromofluorobenzene (Surr)	0.3584 0.3545	0.3582 0.3576	0.3637	0.3610	0.3630	Ave		0.3595				0.9		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.: 480-69812-1 Analy Batch No.: 206953

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/09/2014 20:23 Calibration End Date: 10/09/2014 22:47 Calibration ID: 20631

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-206953/7	T6142.D
Level 2	IC 480-206953/8	T6143.D
Level 3	IC 480-206953/9	T6144.D
Level 4	IC 480-206953/10	T6145.D
Level 5	ICIS 480-206953/11	T6146.D
Level 6	IC 480-206953/12	T6147.D
Level 7	IC 480-206953/13	T6148.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
Dichlorodifluoromethane	FB	Ave	++++ 304418	6441 623699	31921	62543	154794	++++ 50.0	1.00 100	5.00	10.0	25.0
Chloromethane	FB	Ave	++++ 473559	10389 988955	48395	95093	232729	++++ 50.0	1.00 100	5.00	10.0	25.0
Vinyl chloride	FB	Ave	3492 443362	9154 913502	45725	90657	217008	0.400 50.0	1.00 100	5.00	10.0	25.0
Butadiene	FB	Ave	++++ 431681	9619 895202	48424	94925	217134	++++ 50.0	1.00 100	5.00	10.0	25.0
Bromomethane	FB	Lin1	++++ 163574	5143 374383	17549	33739	77359	++++ 50.0	1.00 100	5.00	10.0	25.0
Chloroethane	FB	Ave	++++ 245094	4288 510975	19398	39952	113106	++++ 50.0	1.00 100	5.00	10.0	25.0
Trichlorofluoromethane	FB	Ave	++++ 465020	10196 963449	52093	95306	232982	++++ 50.0	1.00 100	5.00	10.0	25.0
Dichlorofluoromethane	FB	Ave	++++ 566810	11944 1192422	57832	117634	272996	++++ 50.0	1.00 100	5.00	10.0	25.0
Ethyl ether	FB	Ave	++++ 401167	8751 823649	40670	71589	192001	++++ 50.0	1.00 100	5.00	10.0	25.0
Acrolein	FB	Ave	++++ 259363	6064 558598	26817	47789	126768	++++ 250	5.00 500	25.0	50.0	125
1,1-Dichloroethene	FB	Ave	++++ 291805	6407 612777	30984	54248	143725	++++ 50.0	1.00 100	5.00	10.0	25.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	++++ 311362	6974 623396	33067	60135	150226	++++ 50.0	1.00 100	5.00	10.0	25.0
Iodomethane	FB	Ave	++++ 498485	11237 1055041	51743	92687	242937	++++ 50.0	1.00 100	5.00	10.0	25.0
Acetone	FB	Ave	++++ 843552	14444 1748315	82622	158757	420497	++++ 250	5.00 500	25.0	50.0	125
Carbon disulfide	FB	Ave	++++ 1105117	23701 2309987	118568	204902	540243	++++ 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.: 480-69812-1 Analy Batch No.: 206953

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/09/2014 20:23 Calibration End Date: 10/09/2014 22:47 Calibration ID: 20631

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
Allyl chloride	FB	Ave	++++ 701609	14632 1501955	65899	122524	337739	++++ 50.0	1.00 100	5.00	10.0	25.0
Methyl acetate	FB	Ave	++++ 2218935	41773 4717559	204029	384313	1069115	++++ 250	5.00 500	25.0	50.0	125
Methylene Chloride	FB	Ave	++++ 376846	9897 798966	40539	71875	185599	++++ 50.0	1.00 100	5.00	10.0	25.0
trans-1,2-Dichloroethene	FB	Ave	++++ 355137	7024 737634	37071	65550	176882	++++ 50.0	1.00 100	5.00	10.0	25.0
Methyl tert-butyl ether	FB	Ave	++++ 1117651	23365 2399278	112790	202635	540899	++++ 50.0	1.00 100	5.00	10.0	25.0
2-Methyl-2-propanol	FB	Lin	++++ 449877	5202 1107167	31181	64114	183922	++++ 500	10.0 1000	50.0	100	250
Acrylonitrile	FB	Ave	14577 2058546	39016 4376780	198815	377668	1011143	4.00 500	10.0 1000	50.0	100	250
Hexane	FB	Ave	++++ 649542	14823 1353135	69823	119091	312945	++++ 50.0	1.00 100	5.00	10.0	25.0
1,1-Dichloroethane	FB	Ave	++++ 747988	15467 1587559	79167	138442	371881	++++ 50.0	1.00 100	5.00	10.0	25.0
Vinyl acetate	FB	Ave	++++ 976940	13990 2323363	68987	139359	423170	++++ 100	2.00 200	10.0	20.0	50.0
2,2-Dichloropropane	FB	Ave	++++ 312374	6045 694842	30137	51795	141225	++++ 50.0	1.00 100	5.00	10.0	25.0
cis-1,2-Dichloroethene	FB	Ave	++++ 388812	7903 823737	40056	72590	190146	++++ 50.0	1.00 100	5.00	10.0	25.0
2-Butanone (MEK)	FB	Ave	++++ 1346143	25545 2887859	131213	248954	663407	++++ 250	5.00 500	25.0	50.0	125
Chlorobromomethane	FB	Ave	++++ 183973	3853 398667	19233	35667	91989	++++ 50.0	1.00 100	5.00	10.0	25.0
Tetrahydrofuran	FB	Ave	++++ 347487	8635 732601	35077	67341	171510	++++ 100	2.00 200	10.0	20.0	50.0
Chloroform	FB	Ave	++++ 646408	13804 1361775	69081	117500	318618	++++ 50.0	1.00 100	5.00	10.0	25.0
Cyclohexane	FB	Ave	++++ 791449	17560 1684124	86022	147264	384208	++++ 50.0	1.00 100	5.00	10.0	25.0
1,1,1-Trichloroethane	FB	Ave	++++ 465408	9434 1016686	41759	75051	218445	++++ 50.0	1.00 100	5.00	10.0	25.0
Carbon tetrachloride	FB	Ave	++++ 327627	5434 767335	26559	48496	141015	++++ 50.0	1.00 100	5.00	10.0	25.0
1,1-Dichloropropene	FB	Ave	++++ 479988	9880 1011169	49546	87579	232721	++++ 50.0	1.00 100	5.00	10.0	25.0
Benzene	FB	Ave	++++ 1476921	30040 3138105	151381	269362	719711	++++ 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.: 480-69812-1 Analy Batch No.: 206953

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/09/2014 20:23 Calibration End Date: 10/09/2014 22:47 Calibration ID: 20631

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
1,2-Dichloroethane	FB	Ave	++++ 571319	13923 1218393	60031	105324	281797	++++ 50.0	1.00 100	5.00	10.0	25.0
Isobutyl alcohol	FB	Qua	++++ 447124	4197 1188186	26044	53849	174275	++++ 1250	25.0 2500	125	250	625
n-Heptane	FB	Ave	++++ 726497	19649 1516070	79243	136925	366353	++++ 50.0	1.00 100	5.00	10.0	25.0
Trichloroethene	FB	Ave	++++ 367607	7396 771247	37471	66820	183777	++++ 50.0	1.00 100	5.00	10.0	25.0
Methylcyclohexane	FB	Ave	++++ 624286	13258 1297362	63683	111142	302060	++++ 50.0	1.00 100	5.00	10.0	25.0
1,2-Dichloropropane	FB	Ave	++++ 434443	8250 931862	42880	78345	211298	++++ 50.0	1.00 100	5.00	10.0	25.0
Dibromomethane	FB	Ave	++++ 235157	4835 495414	23544	40841	114529	++++ 50.0	1.00 100	5.00	10.0	25.0
1,4-Dioxane	CBZ	Ave	++++ 102904	1346 206756	8531	18937	49718	++++ 1000	20.0 2000	100	200	500
Bromodichloromethane	FB	Ave	++++ 441963	7928 1023404	38162	71472	207418	++++ 50.0	1.00 100	5.00	10.0	25.0
2-Chloroethyl vinyl ether	FB	Ave	++++ 263356	4009 588624	22525	42481	117313	++++ 50.0	1.00 100	5.00	10.0	25.0
cis-1,3-Dichloropropene	FB	Ave	2954 544348	8577 1229967	45741	82849	240052	0.400 50.0	1.00 100	5.00	10.0	25.0
4-Methyl-2-pentanone (MIBK)	CBZ	Ave	++++ 2850663	56051 6029794	266005	507819	1387799	++++ 250	5.00 500	25.0	50.0	125
Toluene	CBZ	Ave	++++ 904568	18369 1905383	91608	162543	440895	++++ 50.0	1.00 100	5.00	10.0	25.0
trans-1,3-Dichloropropene	CBZ	Lin	1793 439667	5883 1029919	30777	61931	183122	0.400 50.0	1.00 100	5.00	10.0	25.0
Ethyl methacrylate	CBZ	Ave	++++ 455566	5990 1061260	31831	60309	194135	++++ 50.0	1.00 100	5.00	10.0	25.0
1,1,2-Trichloroethane	CBZ	Ave	++++ 290840	5608 613179	27563	52151	140310	++++ 50.0	1.00 100	5.00	10.0	25.0
Tetrachloroethene	CBZ	Ave	++++ 341314	7216 712272	35357	61599	163185	++++ 50.0	1.00 100	5.00	10.0	25.0
1,3-Dichloropropane	CBZ	Ave	++++ 597176	13354 1278149	58941	105415	294673	++++ 50.0	1.00 100	5.00	10.0	25.0
2-Hexanone	CBZ	Ave	++++ 2110048	35832 4373904	185404	358722	1019168	++++ 250	5.00 500	25.0	50.0	125
Dibromochloromethane	CBZ	Ave	++++ 277287	3795 675660	20110	39061	116450	++++ 50.0	1.00 100	5.00	10.0	25.0
1,2-Dibromoethane	CBZ	Ave	++++ 313837	4576 701471	22651	44964	137394	++++ 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.: 480-69812-1 Analy Batch No.: 206953

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/09/2014 20:23 Calibration End Date: 10/09/2014 22:47 Calibration ID: 20631

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
Chlorobenzene	CBZ	Ave	++++ 977170	20195 2042063	97474	176371	478071	++++ 50.0	1.00 100	5.00	10.0	25.0
1,1,1,2-Tetrachloroethane	CBZ	Lin	++++ 258074	3277 619646	18682	34867	111577	++++ 50.0	1.00 100	5.00	10.0	25.0
Ethylbenzene	CBZ	Ave	++++ 1729619	35145 3591642	175479	310283	835903	++++ 50.0	1.00 100	5.00	10.0	25.0
m,p-Xylene	CBZ	Ave	++++ 652190	12408 1358821	62607	116202	311698	++++ 50.0	1.00 100	5.00	10.0	25.0
o-Xylene	CBZ	Ave	++++ 636288	12954 1321630	65071	112182	309010	++++ 50.0	1.00 100	5.00	10.0	25.0
Styrene	CBZ	Ave	++++ 1114261	21449 2363356	108372	196393	520559	++++ 50.0	1.00 100	5.00	10.0	25.0
Bromoform	CBZ	Lin	++++ 145128	1992 367715	9729	18973	60413	++++ 50.0	1.00 100	5.00	10.0	25.0
Isopropylbenzene	DCB	Ave	++++ 1678731	34775 3482324	168823	303385	822680	++++ 50.0	1.00 100	5.00	10.0	25.0
Bromobenzene	DCB	Ave	++++ 386435	7932 808938	37446	69466	187750	++++ 50.0	1.00 100	5.00	10.0	25.0
1,1,2,2-Tetrachloroethane	DCB	Ave	++++ 470800	8347 991156	42574	79466	226231	++++ 50.0	1.00 100	5.00	10.0	25.0
N-Propylbenzene	DCB	Ave	++++ 2039821	42873 4224180	207975	367923	987008	++++ 50.0	1.00 100	5.00	10.0	25.0
1,2,3-Trichloropropane	DCB	Ave	++++ 144372	2464 292871	12613	25661	69257	++++ 50.0	1.00 100	5.00	10.0	25.0
trans-1,4-Dichloro-2-butene	DCB	Lin1	++++ 150603	1628 342992	10288	22404	68288	++++ 50.0	1.00 100	5.00	10.0	25.0
2-Chlorotoluene	DCB	Ave	++++ 373348	8021 775823	38119	68272	188358	++++ 50.0	1.00 100	5.00	10.0	25.0
1,3,5-Trimethylbenzene	DCB	Ave	++++ 1454486	30471 2938786	143176	256309	709629	++++ 50.0	1.00 100	5.00	10.0	25.0
4-Chlorotoluene	DCB	Ave	++++ 1437095	29200 2967109	145928	260940	699512	++++ 50.0	1.00 100	5.00	10.0	25.0
tert-Butylbenzene	DCB	Ave	++++ 285199	5602 589235	29352	50864	141289	++++ 50.0	1.00 100	5.00	10.0	25.0
1,2,4-Trimethylbenzene	DCB	Ave	++++ 1508045	30016 3022827	149086	270125	728654	++++ 50.0	1.00 100	5.00	10.0	25.0
sec-Butylbenzene	DCB	Ave	++++ 1837394	37428 3716178	186422	334026	899504	++++ 50.0	1.00 100	5.00	10.0	25.0
1,3-Dichlorobenzene	DCB	Ave	++++ 761656	16182 1549762	79218	141891	378345	++++ 50.0	1.00 100	5.00	10.0	25.0
4-Isopropyltoluene	DCB	Ave	++++ 1560930	31062 3140958	155671	280823	767335	++++ 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.: 480-69812-1 Analy Batch No.: 206953

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/09/2014 20:23 Calibration End Date: 10/09/2014 22:47 Calibration ID: 20631

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
1,4-Dichlorobenzene	DCB	Ave	+++++ 788414	16471 1585309	81568	149067	383486	+++++ 50.0	1.00 100	5.00	10.0	25.0
n-Butylbenzene	DCB	Ave	+++++ 1487772	29392 2987994	150148	272453	720680	+++++ 50.0	1.00 100	5.00	10.0	25.0
1,2-Dichlorobenzene	DCB	Ave	+++++ 752032	14438 1511529	75824	140859	364447	+++++ 50.0	1.00 100	5.00	10.0	25.0
1,2-Dibromo-3-Chloropropane	DCB	Lin	+++++ 64308	495 153366	3687	7503	25026	+++++ 50.0	1.00 100	5.00	10.0	25.0
1,2,4-Trichlorobenzene	DCB	Ave	+++++ 481387	8446 906243	46152	92513	237659	+++++ 50.0	1.00 100	5.00	10.0	25.0
Hexachlorobutadiene	DCB	Ave	1853 227597	4908 428867	23432	44385	117186	0.400 50.0	1.00 100	5.00	10.0	25.0
Naphthalene	DCB	Ave	+++++ 1342456	23667 2550874	119016	244728	656820	+++++ 50.0	1.00 100	5.00	10.0	25.0
1,2,3-Trichlorobenzene	DCB	Ave	+++++ 438344	8513 818474	42378	85909	226123	+++++ 50.0	1.00 100	5.00	10.0	25.0
Dibromofluoromethane (Surr)	FB	Ave	159495 168017	155696 177663	163760	147829	163694	25.0 25.0	25.0 25.0	25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	213821 220970	217853 236622	220784	201925	219575	25.0 25.0	25.0 25.0	25.0	25.0	25.0
Toluene-d8 (Surr)	CBZ	Ave	615376 660505	626063 694498	645388	571091	638394	25.0 25.0	25.0 25.0	25.0	25.0	25.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	167242 176319	168395 182604	173145	155906	174130	25.0 25.0	25.0 25.0	25.0	25.0	25.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD
Qua = Quadratic ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T6142.D
 Lims ID: IC 0.4
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 09-Oct-2014 20:23:30 ALS Bottle#: 28 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 0.4
 Misc. Info.: 480-0036177-007
 Operator ID: gtg Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 14-Oct-2014 01:54:41 Calib Date: 09-Oct-2014 22:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T6148.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: goliszekg

Date: 14-Oct-2014 01:54:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.336	4.335	0.001	98	667347	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.636	6.626	0.010	90	466691	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.491	8.491	0.000	98	235573	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	3.869	3.869	0.000	92	159495	25.0	25.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.118	4.118	0.000	0	213821	25.0	24.9	
\$ 6 Toluene-d8 (Surr)	98	5.517	5.517	0.000	94	615376	25.0	24.7	
\$ 7 4-Bromofluorobenzene (Surr	174	7.569	7.558	0.011	88	167242	25.0	24.9	
11 Dichlorodifluoromethane	85		0.905					ND	
13 Chloromethane	50		1.019					ND	
14 Vinyl chloride	62	1.092	1.092	0.000	96	3492	0.4000	0.3956	
151 Butadiene	54		1.113					ND	
15 Bromomethane	94		1.320					ND	
16 Chloroethane	64		1.392					ND	
17 Trichlorofluoromethane	101		1.558					ND	
18 Dichlorofluoromethane	67		1.558					ND	
19 Ethyl ether	59		1.796					ND	
21 Acrolein	56		1.952					ND	
22 1,1-Dichloroethene	96		1.962					ND	
20 1,1,2-Trichloro-1,2,2-trif	101		1.973					ND	
23 Acetone	43		2.107					ND	
24 Iodomethane	142		2.107					ND	
25 Carbon disulfide	76		2.128					ND	
27 3-Chloro-1-propene	41		2.304					ND	
28 Methyl acetate	43		2.366					ND	
30 Methylene Chloride	84		2.429					ND	
31 2-Methyl-2-propanol	59		2.636					ND	
33 Methyl tert-butyl ether	73		2.636					ND	
32 trans-1,2-Dichloroethene	96		2.636					ND	
34 Acrylonitrile	53	2.709	2.708	0.001	98	14577	4.00	3.73	
35 Hexane	57		2.802					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63		2.999					ND	
39 Vinyl acetate	43		3.071					ND	
42 2,2-Dichloropropane	77		3.444					ND	
43 cis-1,2-Dichloroethene	96		3.475					ND	
44 2-Butanone (MEK)	43		3.537					ND	
47 Chlorobromomethane	128		3.672					ND	
48 Tetrahydrofuran	42		3.703					ND	
50 Chloroform	83		3.734					ND	
52 Cyclohexane	56		3.817					ND	
51 1,1,1-Trichloroethane	97		3.817					ND	
53 Carbon tetrachloride	117		3.931					ND	
54 1,1-Dichloropropene	75		3.942					ND	
55 Benzene	78		4.107					ND	
57 1,2-Dichloroethane	62		4.170					ND	
56 Isobutyl alcohol	43		4.180					ND	
59 n-Heptane	43		4.263					ND	
60 Trichloroethene	95		4.605					ND	
62 Methylcyclohexane	83		4.688					ND	
63 1,2-Dichloropropane	63		4.791					ND	
65 Dibromomethane	93		4.895					ND	
66 1,4-Dioxane	88		4.936					ND	
67 Dichlorobromomethane	83		5.019					ND	
69 2-Chloroethyl vinyl ether	63		5.258					ND	
71 cis-1,3-Dichloropropene	75	5.351	5.351	0.000	91	2954	0.4000	0.3191	
72 4-Methyl-2-pentanone (MIBK)	43		5.475					ND	
73 Toluene	92		5.569					ND	
75 trans-1,3-Dichloropropene	75	5.786	5.786	0.000	33	1793	0.4000	2.63	
77 Ethyl methacrylate	69		5.828					ND	
78 1,1,2-Trichloroethane	83		5.931					ND	
79 Tetrachloroethene	166		5.962					ND	
80 1,3-Dichloropropane	76		6.045					ND	
81 2-Hexanone	43		6.118					ND	
82 Chlorodibromomethane	129		6.221					ND	
83 Ethylene Dibromide	107		6.294					ND	
86 Chlorobenzene	112		6.657					ND	
89 1,1,1,2-Tetrachloroethane	131		6.729					ND	
88 Ethylbenzene	91		6.729					ND	
90 m-Xylene & p-Xylene	106		6.812					ND	
91 o-Xylene	106		7.133					ND	
92 Styrene	104		7.154					ND	
93 Bromoform	173		7.330					ND	
95 Isopropylbenzene	105		7.413					ND	
97 Bromobenzene	156		7.672					ND	
98 1,1,2,2-Tetrachloroethane	83		7.724					ND	
99 N-Propylbenzene	91		7.745					ND	
100 1,2,3-Trichloropropane	110		7.755					ND	
101 trans-1,4-Dichloro-2-buten	53		7.766					ND	
105 2-Chlorotoluene	126		7.817					ND	
104 1,3,5-Trimethylbenzene	105		7.890					ND	
102 4-Chlorotoluene	91		7.911					ND	
106 tert-Butylbenzene	134		8.149					ND	
107 1,2,4-Trimethylbenzene	105		8.190					ND	

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		8.325					ND	
110 1,3-Dichlorobenzene	146		8.429					ND	
111 4-Isopropyltoluene	119		8.439					ND	
113 1,4-Dichlorobenzene	146		8.501					ND	
115 n-Butylbenzene	91		8.781					ND	
116 1,2-Dichlorobenzene	146		8.812					ND	
117 1,2-Dibromo-3-Chloropropan	75		9.475					ND	
119 1,2,4-Trichlorobenzene	180		10.118					ND	
120 Hexachlorobutadiene	225	10.232	10.232	0.000	87	1853	0.4000	0.4148	
121 Naphthalene	128		10.336					ND	
122 1,2,3-Trichlorobenzene	180		10.533					ND	
S 125 Total BTEX	1		30.000					0	
S 126 Xylenes, Total	1		30.000					0	
S 123 1,3-Dichloropropene, Total	1				0			2.95	
S 124 1,2-Dichloroethene, Total	1		30.000					0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

8260 CORP mix_00023	Amount Added: 0.40	Units: uL	
GAS CORP mix_00050	Amount Added: 0.40	Units: uL	
T_8260_IS_00086	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_Surr_00081	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T6142.D

Injection Date: 09-Oct-2014 20:23:30

Instrument ID: HP5975T

Operator ID: gtg

Lims ID: IC 0.4

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

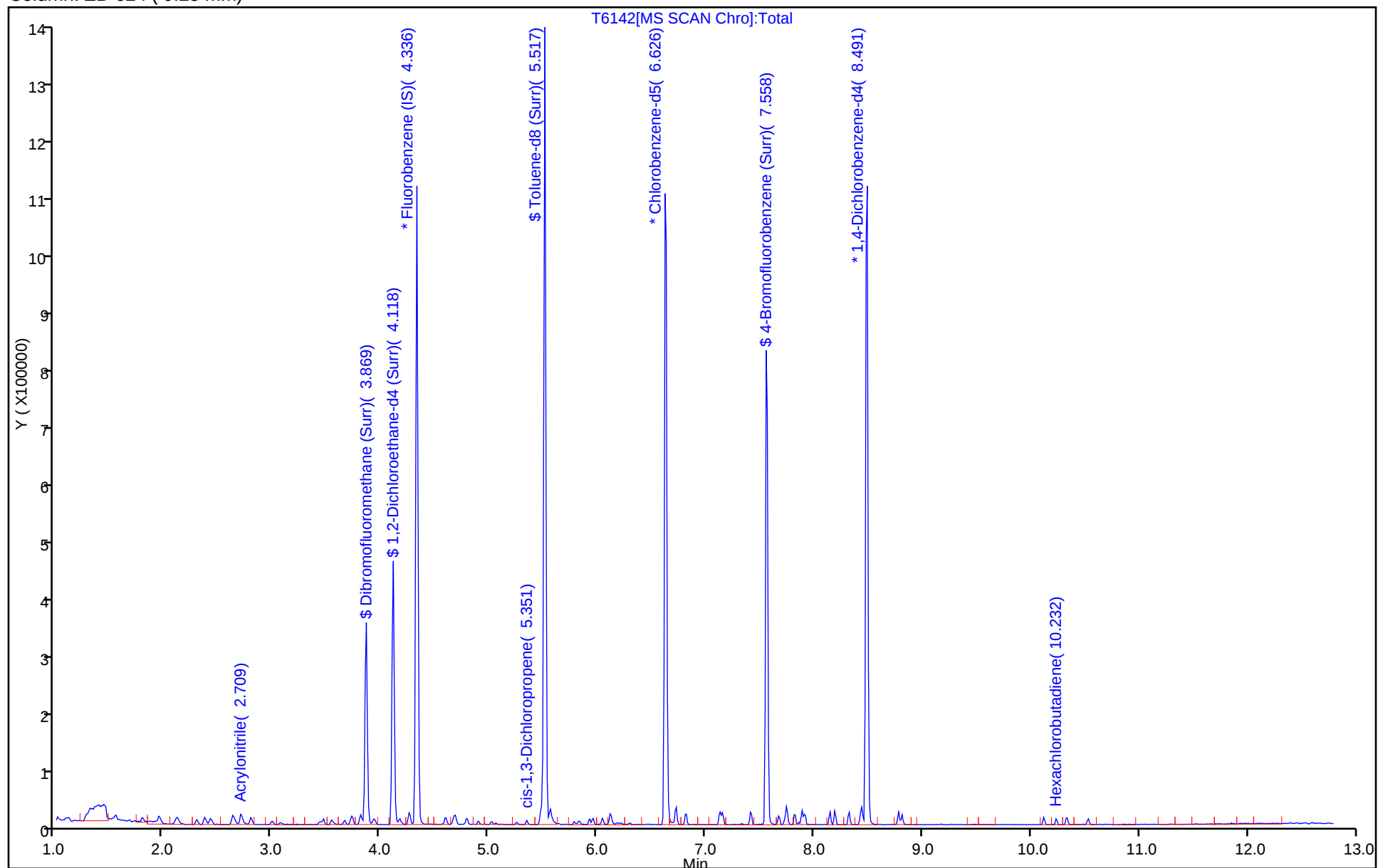
Dil. Factor: 1.0000

ALS Bottle#: 28

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T6143.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 09-Oct-2014 20:47:30 ALS Bottle#: 29 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 480-0036177-008
 Operator ID: gtg Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 14-Oct-2014 01:57:24 Calib Date: 09-Oct-2014 22:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T6148.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: HillL

Date: 10-Oct-2014 14:48:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.336	4.335	0.001	98	676854	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.626	6.626	0.000	92	470120	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.491	8.491	0.000	98	235351	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	3.869	3.869	0.000	92	155696	25.0	24.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.118	4.118	0.000	0	217853	25.0	25.0	
\$ 6 Toluene-d8 (Surr)	98	5.517	5.517	0.000	94	626063	25.0	24.9	
\$ 7 4-Bromofluorobenzene (Surr	174	7.569	7.558	0.011	87	168395	25.0	24.9	
11 Dichlorodifluoromethane	85	0.905	0.905	0.000	97	6441	1.00	1.03	
13 Chloromethane	50	1.019	1.019	0.000	99	10389	1.00	1.08	
14 Vinyl chloride	62	1.092	1.092	0.000	97	9154	1.00	1.02	
151 Butadiene	54	1.123	1.113	0.010	94	9619	1.00	1.05	
15 Bromomethane	94	1.320	1.320	0.000	88	5143	1.00	1.10	
16 Chloroethane	64	1.393	1.392	0.000	96	4288	1.00	0.9709	
17 Trichlorofluoromethane	101	1.548	1.558	-0.010	58	10196	1.00	1.05	
18 Dichlorofluoromethane	67	1.558	1.558	0.000	96	11944	1.00	1.04	
19 Ethyl ether	59	1.807	1.796	0.011	96	8751	1.00	1.10	
21 Acrolein	56	1.962	1.952	0.010	60	6064	5.00	5.71	
22 1,1-Dichloroethene	96	1.962	1.962	0.000	91	6407	1.00	1.08	
20 1,1,2-Trichloro-1,2,2-trif	101	1.962	1.973	-0.011	56	6974	1.00	1.10	
24 Iodomethane	142	2.097	2.107	-0.010	99	11237	1.00	1.11	
23 Acetone	43	2.118	2.107	0.011	64	14444	5.00	4.45	
25 Carbon disulfide	76	2.118	2.128	-0.010	99	23701	1.00	1.06	
27 3-Chloro-1-propene	41	2.304	2.304	0.000	88	14632	1.00	1.07	
28 Methyl acetate	43	2.377	2.366	0.011	99	41773	5.00	4.94	
30 Methylene Chloride	84	2.429	2.429	0.000	97	9897	1.00	1.24	
31 2-Methyl-2-propanol	59	2.667	2.636	0.031	38	5202	10.0	41.6	
33 Methyl tert-butyl ether	73	2.646	2.636	0.010	98	23365	1.00	1.05	
32 trans-1,2-Dichloroethene	96	2.636	2.636	0.000	92	7024	1.00	1.00	
34 Acrylonitrile	53	2.709	2.708	0.001	95	39016	10.0	9.85	
35 Hexane	57	2.802	2.802	0.000	95	14823	1.00	1.12	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	2.999	2.999	0.000	96	15467	1.00	1.03	
39 Vinyl acetate	43	3.071	3.071	0.000	96	13990	2.00	1.67	
42 2,2-Dichloropropane	77	3.444	3.444	0.000	80	6045	1.00	1.01	
43 cis-1,2-Dichloroethene	96	3.475	3.475	0.000	83	7903	1.00	1.02	
44 2-Butanone (MEK)	43	3.548	3.537	0.011	98	25545	5.00	4.85	
47 Chlorobromomethane	128	3.672	3.672	0.000	90	3853	1.00	1.03	
48 Tetrahydrofuran	42	3.724	3.703	0.021	95	8635	2.00	2.39	
50 Chloroform	83	3.735	3.734	0.001	95	13804	1.00	1.06	
51 1,1,1-Trichloroethane	97	3.817	3.817	0.000	67	9434	1.00	1.07	
52 Cyclohexane	56	3.817	3.817	0.000	95	17560	1.00	1.09	
53 Carbon tetrachloride	117	3.931	3.931	0.000	95	5434	1.00	0.9290	
54 1,1-Dichloropropene	75	3.942	3.942	0.000	93	9880	1.00	1.04	
55 Benzene	78	4.118	4.107	0.011	95	30040	1.00	1.03	
57 1,2-Dichloroethane	62	4.180	4.170	0.010	96	13923	1.00	1.18	
56 Isobutyl alcohol	43	4.201	4.180	0.021	55	4197	25.0	44.1	
59 n-Heptane	43	4.263	4.263	0.000	94	19649	1.00	1.27	
60 Trichloroethene	95	4.605	4.605	0.000	94	7396	1.00	1.02	
62 Methylcyclohexane	83	4.688	4.688	0.000	96	13258	1.00	1.07	
63 1,2-Dichloropropane	63	4.802	4.791	0.011	91	8250	1.00	0.9748	
65 Dibromomethane	93	4.895	4.895	0.000	92	4835	1.00	1.05	
66 1,4-Dioxane	88	4.947	4.936	0.011	1	1346	20.0	14.8	M
67 Dichlorobromomethane	83	5.020	5.019	0.001	96	7928	1.00	0.9585	
69 2-Chloroethyl vinyl ether	63	5.258	5.258	0.000	83	4009	1.00	0.8482	
71 cis-1,3-Dichloropropene	75	5.351	5.351	0.000	90	8577	1.00	0.9136	
72 4-Methyl-2-pentanone (MIBK)	43	5.486	5.475	0.011	96	56051	5.00	5.13	
73 Toluene	92	5.569	5.569	0.000	97	18369	1.00	1.04	
75 trans-1,3-Dichloropropene	75	5.786	5.786	0.000	96	5883	1.00	3.06	
77 Ethyl methacrylate	69	5.838	5.828	0.010	94	5990	1.00	0.8016	
78 1,1,2-Trichloroethane	83	5.932	5.931	0.001	92	5608	1.00	1.01	
79 Tetrachloroethene	166	5.963	5.962	0.001	92	7216	1.00	1.07	
80 1,3-Dichloropropane	76	6.046	6.045	0.001	94	13354	1.00	1.13	
81 2-Hexanone	43	6.118	6.118	0.000	99	35832	5.00	4.64	
82 Chlorodibromomethane	129	6.222	6.221	0.001	94	3795	1.00	0.8119	
83 Ethylene Dibromide	107	6.294	6.294	0.000	92	4576	1.00	0.8656	
86 Chlorobenzene	112	6.657	6.657	0.000	91	20195	1.00	1.06	
89 1,1,1,2-Tetrachloroethane	131	6.729	6.729	0.000	40	3277	1.00	3.84	
88 Ethylbenzene	91	6.729	6.729	0.000	99	35145	1.00	1.04	
90 m-Xylene & p-Xylene	106	6.812	6.812	0.000	0	12408	1.00	1.00	
91 o-Xylene	106	7.134	7.133	0.001	96	12954	1.00	1.05	
92 Styrene	104	7.154	7.154	0.000	95	21449	1.00	1.01	
93 Bromoform	173	7.331	7.330	0.001	89	1992	1.00	4.63	
95 Isopropylbenzene	105	7.413	7.413	0.000	96	34775	1.00	1.08	
97 Bromobenzene	156	7.673	7.672	0.000	96	7932	1.00	1.08	
98 1,1,2,2-Tetrachloroethane	83	7.724	7.724	0.000	96	8347	1.00	0.9782	
99 N-Propylbenzene	91	7.745	7.745	0.000	99	42873	1.00	1.09	
100 1,2,3-Trichloropropane	110	7.755	7.755	0.000	89	2464	1.00	0.9509	
101 trans-1,4-Dichloro-2-buten	53	7.766	7.766	0.000	63	1628	1.00	1.40	
105 2-Chlorotoluene	126	7.828	7.817	0.011	95	8021	1.00	1.10	
104 1,3,5-Trimethylbenzene	105	7.890	7.890	0.000	94	30471	1.00	1.11	
102 4-Chlorotoluene	91	7.911	7.911	0.000	98	29200	1.00	1.06	
106 tert-Butylbenzene	134	8.149	8.149	0.000	95	5602	1.00	1.03	
107 1,2,4-Trimethylbenzene	105	8.191	8.190	0.001	98	30016	1.00	1.06	

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	8.325	8.325	0.000	95	37428	1.00	1.07	
110 1,3-Dichlorobenzene	146	8.429	8.429	0.000	98	16182	1.00	1.09	
111 4-Isopropyltoluene	119	8.439	8.439	0.000	97	31062	1.00	1.05	
113 1,4-Dichlorobenzene	146	8.502	8.501	0.001	94	16471	1.00	1.08	
115 n-Butylbenzene	91	8.781	8.781	0.000	99	29392	1.00	1.04	
116 1,2-Dichlorobenzene	146	8.812	8.812	0.000	94	14438	1.00	1.02	
117 1,2-Dibromo-3-Chloropropan	75	9.486	9.475	0.011	1	495	1.00	4.75	
119 1,2,4-Trichlorobenzene	180	10.118	10.118	0.000	91	8446	1.00	0.9531	
120 Hexachlorobutadiene	225	10.232	10.232	0.000	94	4908	1.00	1.10	
121 Naphthalene	128	10.336	10.336	0.000	96	23667	1.00	0.9782	
122 1,2,3-Trichlorobenzene	180	10.533	10.533	0.000	91	8513	1.00	1.03	
S 123 1,3-Dichloropropene, Total	1				0			3.98	
S 124 1,2-Dichloroethene, Total	1				0			2.02	
S 125 Total BTEX	1				0			5.15	
S 126 Xylenes, Total	1				0			2.05	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00023

Amount Added: 1.00

Units: uL

GAS CORP mix_00050

Amount Added: 1.00

Units: uL

T_8260_IS_00086

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_Surr_00081

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T6143.D

Injection Date: 09-Oct-2014 20:47:30

Instrument ID: HP5975T

Operator ID: gtg

Lims ID: IC

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

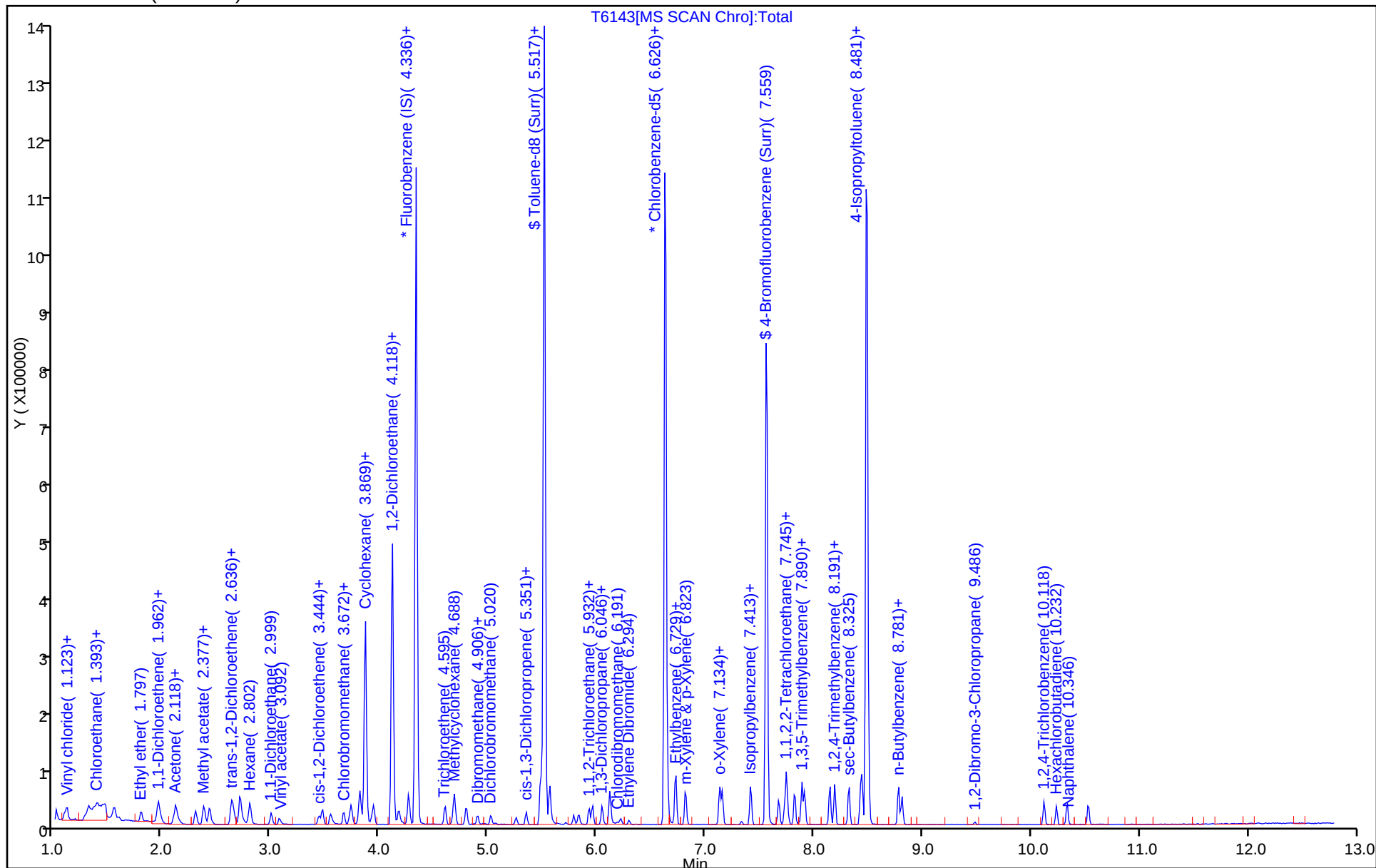
Dil. Factor: 1.0000

ALS Bottle#: 29

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T6143.D

Injection Date: 09-Oct-2014 20:47:30

Instrument ID: HP5975T

Lims ID: IC

Client ID:

Operator ID: gtg

ALS Bottle#: 29 Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

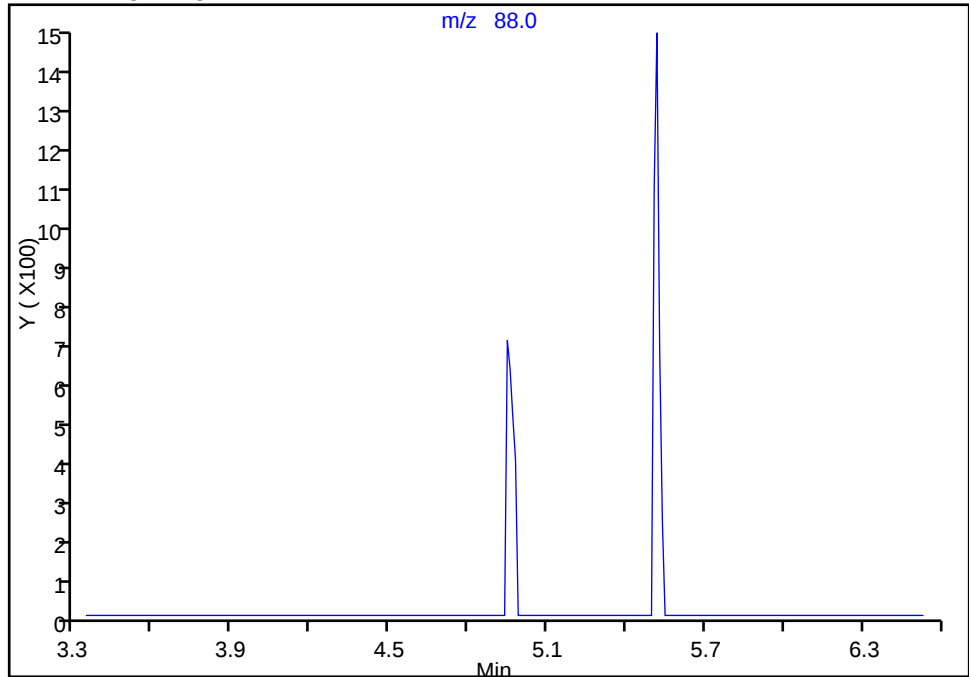
Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

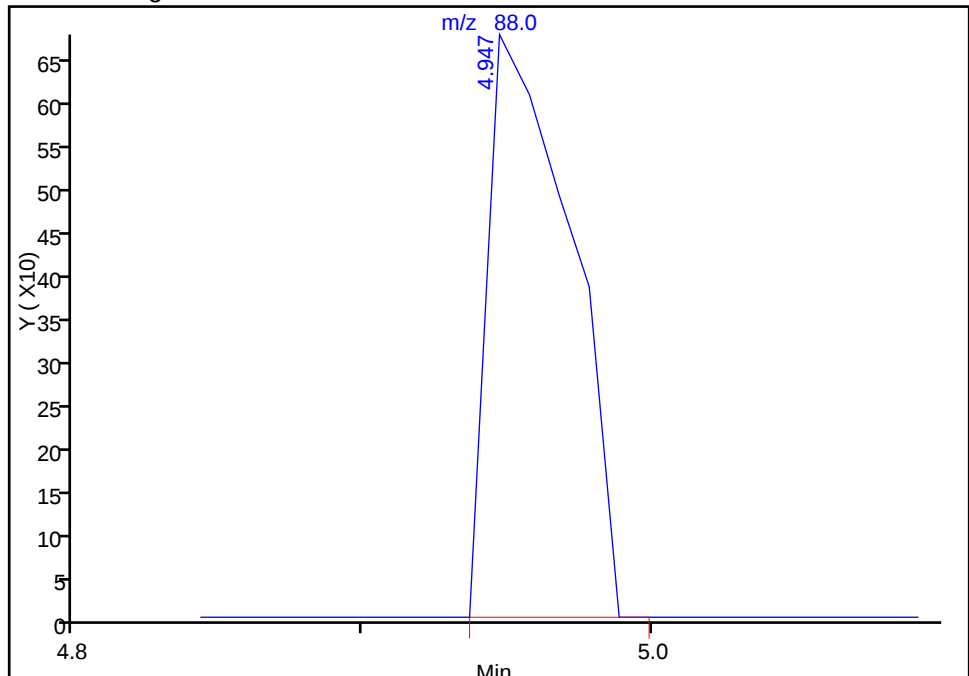
Not Detected

Expected RT: 4.94

Processing Integration Results

RT: 4.95
Response: 1346
Amount: 14.832096

Manual Integration Results



Reviewer: HillL, 10-Oct-2014 14:48:37

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T6144.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 09-Oct-2014 21:11:30 ALS Bottle#: 30 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 2
 Misc. Info.: 480-0036177-009
 Operator ID: gtg Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 14-Oct-2014 01:59:01 Calib Date: 09-Oct-2014 22:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T6148.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: HillL

Date: 10-Oct-2014 14:49:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.336	4.335	0.001	98	689143	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.626	6.626	0.000	90	476081	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.491	8.491	0.000	97	248079	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	3.869	3.869	0.000	92	163760	25.0	24.9	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.118	4.118	0.000	0	220784	25.0	24.9	
\$ 6 Toluene-d8 (Surr)	98	5.517	5.517	0.000	95	645388	25.0	25.4	
\$ 7 4-Bromofluorobenzene (Surr	174	7.558	7.558	0.000	84	173145	25.0	25.3	
11 Dichlorodifluoromethane	85	0.905	0.905	0.000	98	31921	5.00	5.02	
13 Chloromethane	50	1.019	1.019	0.000	98	48395	5.00	4.92	
14 Vinyl chloride	62	1.092	1.092	0.000	97	45725	5.00	5.02	
151 Butadiene	54	1.123	1.113	0.010	91	48424	5.00	5.20	
15 Bromomethane	94	1.320	1.320	0.000	93	17549	5.00	4.73	
16 Chloroethane	64	1.392	1.392	0.000	97	19398	5.00	4.31	
17 Trichlorofluoromethane	101	1.558	1.558	0.000	97	52093	5.00	5.28	
18 Dichlorofluoromethane	67	1.558	1.558	0.000	97	57832	5.00	4.93	
19 Ethyl ether	59	1.797	1.796	0.001	99	40670	5.00	5.03	
21 Acrolein	56	1.952	1.952	0.000	99	26817	25.0	24.8	
22 1,1-Dichloroethene	96	1.962	1.962	0.000	95	30984	5.00	5.14	
20 1,1,2-Trichloro-1,2,2-trif	101	1.973	1.973	0.000	95	33067	5.00	5.14	
24 Iodomethane	142	2.108	2.107	0.001	98	51743	5.00	5.02	
23 Acetone	43	2.118	2.107	0.011	99	82622	25.0	25.0	
25 Carbon disulfide	76	2.128	2.128	0.000	100	118568	5.00	5.22	
27 3-Chloro-1-propene	41	2.304	2.304	0.000	88	65899	5.00	4.73	
28 Methyl acetate	43	2.367	2.366	0.001	100	204029	25.0	23.7	
30 Methylene Chloride	84	2.429	2.429	0.000	98	40539	5.00	4.99	
31 2-Methyl-2-propanol	59	2.646	2.636	0.010	37	31181	50.0	66.0	
33 Methyl tert-butyl ether	73	2.636	2.636	0.000	98	112790	5.00	4.99	
32 trans-1,2-Dichloroethene	96	2.636	2.636	0.000	93	37071	5.00	5.17	
34 Acrylonitrile	53	2.709	2.708	0.001	99	198815	50.0	49.3	
35 Hexane	57	2.802	2.802	0.000	95	69823	5.00	5.19	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	2.999	2.999	0.000	96	79167	5.00	5.17	
39 Vinyl acetate	43	3.071	3.071	0.000	97	68987	10.0	8.11	
42 2,2-Dichloropropane	77	3.444	3.444	0.000	81	30137	5.00	4.96	
43 cis-1,2-Dichloroethene	96	3.475	3.475	0.000	84	40056	5.00	5.07	
44 2-Butanone (MEK)	43	3.538	3.537	0.001	98	131213	25.0	24.5	
47 Chlorobromomethane	128	3.672	3.672	0.000	91	19233	5.00	5.04	
48 Tetrahydrofuran	42	3.714	3.703	0.011	94	35077	10.0	9.55	
50 Chloroform	83	3.735	3.734	0.001	95	69081	5.00	5.21	
51 1,1,1-Trichloroethane	97	3.817	3.817	0.000	67	41759	5.00	4.64	
52 Cyclohexane	56	3.817	3.817	0.000	93	86022	5.00	5.23	
53 Carbon tetrachloride	117	3.931	3.931	0.000	94	26559	5.00	4.46	
54 1,1-Dichloropropene	75	3.942	3.942	0.000	92	49546	5.00	5.10	
55 Benzene	78	4.118	4.107	0.011	73	151381	5.00	5.07	
57 1,2-Dichloroethane	62	4.170	4.170	0.000	96	60031	5.00	4.99	
56 Isobutyl alcohol	43	4.180	4.180	0.000	95	26044	125.0	124.7	
59 n-Heptane	43	4.263	4.263	0.000	97	79243	5.00	5.02	
60 Trichloroethene	95	4.605	4.605	0.000	95	37471	5.00	5.05	
62 Methylcyclohexane	83	4.688	4.688	0.000	98	63683	5.00	5.06	
63 1,2-Dichloropropane	63	4.792	4.791	0.001	94	42880	5.00	4.98	
65 Dibromomethane	93	4.895	4.895	0.000	95	23544	5.00	5.01	
66 1,4-Dioxane	88	4.937	4.936	0.001	90	8531	100.0	92.8	
67 Dichlorobromomethane	83	5.020	5.019	0.001	97	38162	5.00	4.53	
69 2-Chloroethyl vinyl ether	63	5.258	5.258	0.000	92	22525	5.00	4.68	
71 cis-1,3-Dichloropropene	75	5.351	5.351	0.000	91	45741	5.00	4.79	
72 4-Methyl-2-pentanone (MIBK)	43	5.476	5.475	0.001	99	266005	25.0	24.0	
73 Toluene	92	5.569	5.569	0.000	98	91608	5.00	5.12	
75 trans-1,3-Dichloropropene	75	5.786	5.786	0.000	97	30777	5.00	5.66	
77 Ethyl methacrylate	69	5.828	5.828	0.000	95	31831	5.00	4.21	
78 1,1,2-Trichloroethane	83	5.931	5.931	0.000	92	27563	5.00	4.89	
79 Tetrachloroethene	166	5.963	5.962	0.001	93	35357	5.00	5.20	
80 1,3-Dichloropropane	76	6.045	6.045	0.000	98	58941	5.00	4.91	
81 2-Hexanone	43	6.118	6.118	0.000	99	185404	25.0	23.7	
82 Chlorodibromomethane	129	6.222	6.221	0.001	92	20110	5.00	4.25	
83 Ethylene Dibromide	107	6.294	6.294	0.000	98	22651	5.00	4.23	
86 Chlorobenzene	112	6.657	6.657	0.000	92	97474	5.00	5.04	
89 1,1,1,2-Tetrachloroethane	131	6.729	6.729	0.000	40	18682	5.00	6.49	
88 Ethylbenzene	91	6.729	6.729	0.000	99	175479	5.00	5.14	
90 m-Xylene & p-Xylene	106	6.812	6.812	0.000	0	62607	5.00	4.98	
91 o-Xylene	106	7.134	7.133	0.001	97	65071	5.00	5.19	
92 Styrene	104	7.154	7.154	0.000	95	108372	5.00	5.04	
93 Bromoform	173	7.331	7.330	0.000	93	9729	5.00	6.87	
95 Isopropylbenzene	105	7.413	7.413	0.000	97	168823	5.00	4.98	
97 Bromobenzene	156	7.672	7.672	0.000	98	37446	5.00	4.84	
98 1,1,2,2-Tetrachloroethane	83	7.724	7.724	0.000	95	42574	5.00	4.73	
99 N-Propylbenzene	91	7.745	7.745	0.000	99	207975	5.00	5.04	
100 1,2,3-Trichloropropane	110	7.755	7.755	0.000	90	12613	5.00	4.62	
101 trans-1,4-Dichloro-2-buten	53	7.766	7.766	0.000	66	10288	5.00	4.11	
105 2-Chlorotoluene	126	7.828	7.817	0.011	95	38119	5.00	4.97	
104 1,3,5-Trimethylbenzene	105	7.890	7.890	0.000	94	143176	5.00	4.93	
102 4-Chlorotoluene	91	7.911	7.911	0.000	99	145928	5.00	5.04	
106 tert-Butylbenzene	134	8.149	8.149	0.000	95	29352	5.00	5.13	
107 1,2,4-Trimethylbenzene	105	8.191	8.190	0.001	98	149086	5.00	4.99	

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	8.325	8.325	0.000	95	186422	5.00	5.05	
110 1,3-Dichlorobenzene	146	8.429	8.429	0.000	96	79218	5.00	5.08	
111 4-Isopropyltoluene	119	8.439	8.439	0.000	98	155671	5.00	5.01	
113 1,4-Dichlorobenzene	146	8.502	8.501	0.001	95	81568	5.00	5.08	
115 n-Butylbenzene	91	8.781	8.781	0.000	98	150148	5.00	5.06	
116 1,2-Dichlorobenzene	146	8.812	8.812	0.000	96	75824	5.00	5.06	
117 1,2-Dibromo-3-Chloropropan	75	9.476	9.475	0.001	64	3687	5.00	6.83	
119 1,2,4-Trichlorobenzene	180	10.118	10.118	0.000	94	46152	5.00	4.94	
120 Hexachlorobutadiene	225	10.232	10.232	0.000	96	23432	5.00	4.98	
121 Naphthalene	128	10.336	10.336	0.000	97	119016	5.00	4.67	
122 1,2,3-Trichlorobenzene	180	10.533	10.533	0.000	95	42378	5.00	4.85	
S 123 1,3-Dichloropropene, Total	1				0			10.4	
S 124 1,2-Dichloroethene, Total	1				0			10.2	
S 125 Total BTEX	1				0			25.5	
S 126 Xylenes, Total	1				0			10.2	

Reagents:

8260 CORP mix_00023	Amount Added: 5.00	Units: uL	
GAS CORP mix_00050	Amount Added: 5.00	Units: uL	
T_8260_IS_00086	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_Surr_00081	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T6144.D

Injection Date: 09-Oct-2014 21:11:30

Instrument ID: HP5975T

Operator ID: gtg

Lims ID: IC 2

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

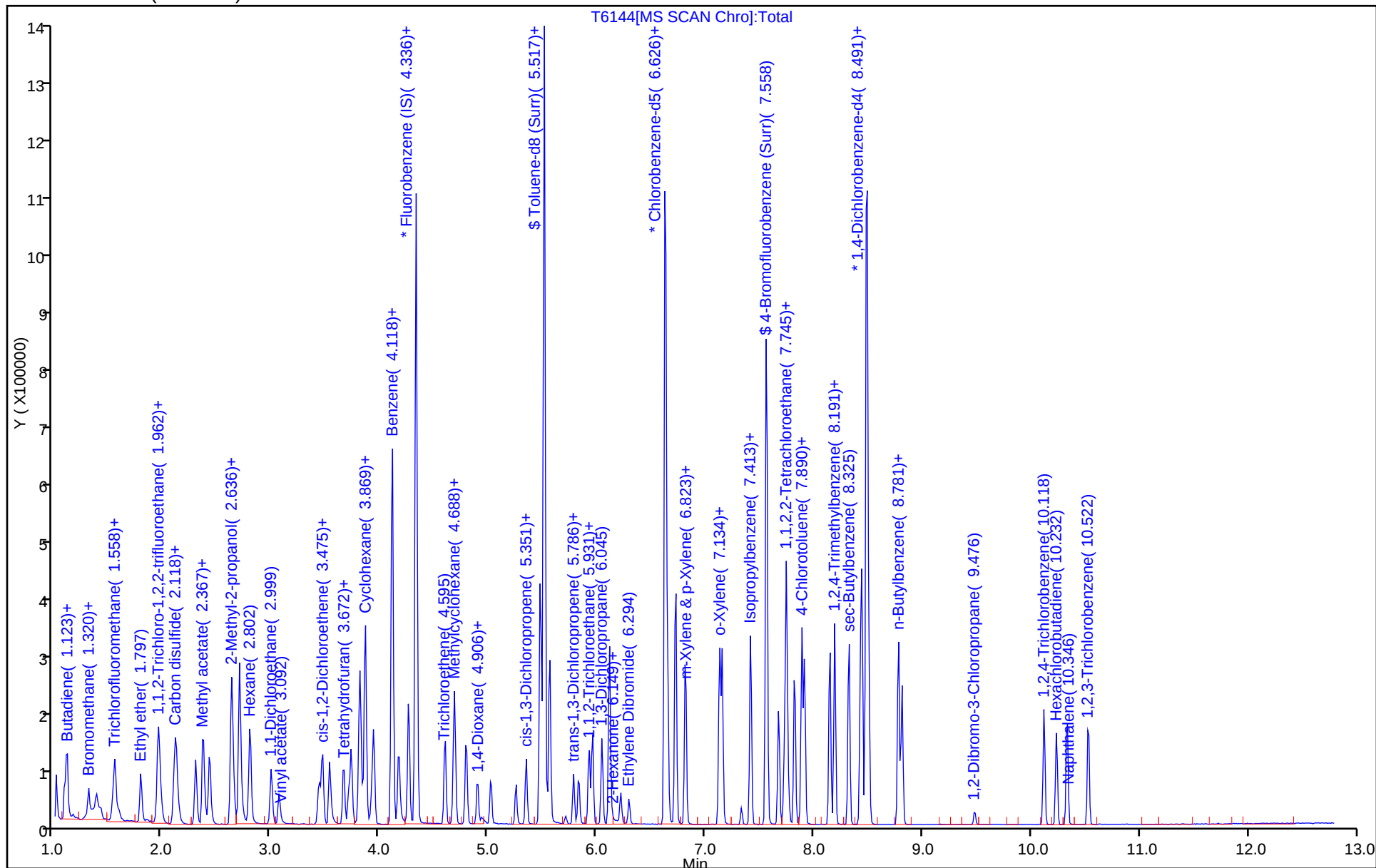
Dil. Factor: 1.0000

ALS Bottle#: 30

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T6145.D
 Lims ID: IC 3
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 09-Oct-2014 21:35:30 ALS Bottle#: 31 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 3
 Misc. Info.: 480-0036177-010
 Operator ID: gtg Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 14-Oct-2014 02:00:13 Calib Date: 09-Oct-2014 22:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T6148.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: HillL

Date: 10-Oct-2014 14:49:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.335	4.335	0.000	98	618377	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.626	6.626	0.000	90	431876	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.491	8.491	0.000	97	226427	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	3.869	3.869	0.000	92	147829	25.0	25.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.118	4.118	0.000	0	201925	25.0	25.3	
\$ 6 Toluene-d8 (Surr)	98	5.517	5.517	0.000	95	571091	25.0	24.8	
\$ 7 4-Bromofluorobenzene (Surr	174	7.558	7.558	0.000	83	155906	25.0	25.1	
11 Dichlorodifluoromethane	85	0.905	0.905	0.000	99	62543	10.0	11.0	
13 Chloromethane	50	1.019	1.019	0.000	99	95093	10.0	10.8	
14 Vinyl chloride	62	1.092	1.092	0.000	97	90657	10.0	11.1	
151 Butadiene	54	1.113	1.113	0.000	93	94925	10.0	11.4	
15 Bromomethane	94	1.320	1.320	0.000	93	33739	10.0	10.6	
16 Chloroethane	64	1.392	1.392	0.000	98	39952	10.0	9.90	
17 Trichlorofluoromethane	101	1.558	1.558	0.000	97	95306	10.0	10.8	
18 Dichlorofluoromethane	67	1.558	1.558	0.000	97	117634	10.0	11.2	
19 Ethyl ether	59	1.796	1.796	0.000	97	71589	10.0	9.86	
21 Acrolein	56	1.952	1.952	0.000	100	47789	50.0	49.3	
22 1,1-Dichloroethene	96	1.962	1.962	0.000	93	54248	10.0	10.0	
20 1,1,2-Trichloro-1,2,2-trif	101	1.973	1.973	0.000	96	60135	10.0	10.4	
23 Acetone	43	2.107	2.107	0.000	99	158757	50.0	53.5	
24 Iodomethane	142	2.107	2.107	0.000	98	92687	10.0	10.0	
25 Carbon disulfide	76	2.128	2.128	0.000	100	204902	10.0	10.0	
27 3-Chloro-1-propene	41	2.304	2.304	0.000	88	122524	10.0	9.81	
28 Methyl acetate	43	2.366	2.366	0.000	100	384313	50.0	49.8	
30 Methylene Chloride	84	2.429	2.429	0.000	97	71875	10.0	9.86	
31 2-Methyl-2-propanol	59	2.636	2.636	0.000	37	64114	100.0	103.9	
33 Methyl tert-butyl ether	73	2.636	2.636	0.000	99	202635	10.0	9.98	
32 trans-1,2-Dichloroethene	96	2.636	2.636	0.000	93	65550	10.0	10.2	
34 Acrylonitrile	53	2.708	2.708	0.000	100	377668	100.0	104.3	
35 Hexane	57	2.802	2.802	0.000	95	119091	10.0	9.87	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	2.999	2.999	0.000	96	138442	10.0	10.1	
39 Vinyl acetate	43	3.071	3.071	0.000	97	139359	20.0	18.3	
42 2,2-Dichloropropane	77	3.444	3.444	0.000	83	51795	10.0	9.50	
43 cis-1,2-Dichloroethene	96	3.475	3.475	0.000	83	72590	10.0	10.2	
44 2-Butanone (MEK)	43	3.537	3.537	0.000	98	248954	50.0	51.7	
47 Chlorobromomethane	128	3.672	3.672	0.000	93	35667	10.0	10.4	
48 Tetrahydrofuran	42	3.703	3.703	0.000	93	67341	20.0	20.4	
50 Chloroform	83	3.734	3.734	0.000	95	117500	10.0	9.87	
52 Cyclohexane	56	3.817	3.817	0.000	96	147264	10.0	9.98	
51 1,1,1-Trichloroethane	97	3.817	3.817	0.000	97	75051	10.0	9.29	
53 Carbon tetrachloride	117	3.931	3.931	0.000	97	48496	10.0	9.08	
54 1,1-Dichloropropene	75	3.942	3.942	0.000	94	87579	10.0	10.1	
55 Benzene	78	4.107	4.107	0.000	97	269362	10.0	10.1	
57 1,2-Dichloroethane	62	4.170	4.170	0.000	96	105324	10.0	9.75	
56 Isobutyl alcohol	43	4.180	4.180	0.000	95	53849	250.0	243.5	
59 n-Heptane	43	4.263	4.263	0.000	98	136925	10.0	9.67	
60 Trichloroethene	95	4.605	4.605	0.000	97	66820	10.0	10.0	
62 Methylcyclohexane	83	4.688	4.688	0.000	97	111142	10.0	9.84	
63 1,2-Dichloropropane	63	4.791	4.791	0.000	94	78345	10.0	10.1	
65 Dibromomethane	93	4.895	4.895	0.000	96	40841	10.0	9.69	
66 1,4-Dioxane	88	4.936	4.936	0.000	94	18937	200.0	227.2	
67 Dichlorobromomethane	83	5.019	5.019	0.000	97	71472	10.0	9.46	
69 2-Chloroethyl vinyl ether	63	5.258	5.258	0.000	91	42481	10.0	9.84	
71 cis-1,3-Dichloropropene	75	5.351	5.351	0.000	91	82849	10.0	9.66	
72 4-Methyl-2-pentanone (MIBK)	43	5.475	5.475	0.000	98	507819	50.0	50.6	
73 Toluene	92	5.569	5.569	0.000	97	162543	10.0	10.0	
75 trans-1,3-Dichloropropene	75	5.786	5.786	0.000	98	61931	10.0	9.57	
77 Ethyl methacrylate	69	5.828	5.828	0.000	95	60309	10.0	8.79	
78 1,1,2-Trichloroethane	83	5.931	5.931	0.000	94	52151	10.0	10.2	
79 Tetrachloroethene	166	5.962	5.962	0.000	93	61599	10.0	9.98	
80 1,3-Dichloropropane	76	6.045	6.045	0.000	98	105415	10.0	9.69	
81 2-Hexanone	43	6.118	6.118	0.000	99	358722	50.0	50.6	
82 Chlorodibromomethane	129	6.221	6.221	0.000	91	39061	10.0	9.10	
83 Ethylene Dibromide	107	6.294	6.294	0.000	100	44964	10.0	9.26	
86 Chlorobenzene	112	6.657	6.657	0.000	92	176371	10.0	10.0	
89 1,1,1,2-Tetrachloroethane	131	6.729	6.729	0.000	40	34867	10.0	9.88	
88 Ethylbenzene	91	6.729	6.729	0.000	99	310283	10.0	10.0	
90 m-Xylene & p-Xylene	106	6.812	6.812	0.000	0	116202	10.0	10.2	
91 o-Xylene	106	7.133	7.133	0.000	98	112182	10.0	9.86	
92 Styrene	104	7.154	7.154	0.000	94	196393	10.0	10.1	
93 Bromoform	173	7.330	7.330	0.000	92	18973	10.0	10.1	
95 Isopropylbenzene	105	7.413	7.413	0.000	97	303385	10.0	9.80	
97 Bromobenzene	156	7.672	7.672	0.000	98	69466	10.0	9.83	
98 1,1,2,2-Tetrachloroethane	83	7.724	7.724	0.000	93	79466	10.0	9.68	
99 N-Propylbenzene	91	7.745	7.745	0.000	99	367923	10.0	9.76	
100 1,2,3-Trichloropropane	110	7.755	7.755	0.000	89	25661	10.0	10.3	
101 trans-1,4-Dichloro-2-buten	53	7.766	7.766	0.000	69	22404	10.0	8.62	
105 2-Chlorotoluene	126	7.817	7.817	0.000	95	68272	10.0	9.76	
104 1,3,5-Trimethylbenzene	105	7.890	7.890	0.000	93	256309	10.0	9.66	
102 4-Chlorotoluene	91	7.911	7.911	0.000	99	260940	10.0	9.88	
106 tert-Butylbenzene	134	8.149	8.149	0.000	95	50864	10.0	9.74	
107 1,2,4-Trimethylbenzene	105	8.190	8.190	0.000	98	270125	10.0	9.91	

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	8.325	8.325	0.000	95	334026	10.0	9.91	
110 1,3-Dichlorobenzene	146	8.429	8.429	0.000	97	141891	10.0	9.96	
111 4-Isopropyltoluene	119	8.439	8.439	0.000	97	280823	10.0	9.89	
113 1,4-Dichlorobenzene	146	8.501	8.501	0.000	94	149067	10.0	10.2	
115 n-Butylbenzene	91	8.781	8.781	0.000	99	272453	10.0	10.1	
116 1,2-Dichlorobenzene	146	8.812	8.812	0.000	95	140859	10.0	10.3	
117 1,2-Dibromo-3-Chloropropan	75	9.475	9.475	0.000	66	7503	10.0	9.81	
119 1,2,4-Trichlorobenzene	180	10.118	10.118	0.000	95	92513	10.0	10.9	
120 Hexachlorobutadiene	225	10.232	10.232	0.000	96	44385	10.0	10.3	
121 Naphthalene	128	10.336	10.336	0.000	97	244728	10.0	10.5	
122 1,2,3-Trichlorobenzene	180	10.533	10.533	0.000	95	85909	10.0	10.8	
S 125 Total BTEX	1				0			50.1	
S 126 Xylenes, Total	1				0			20.0	
S 123 1,3-Dichloropropene, Total	1				0			19.2	
S 124 1,2-Dichloroethene, Total	1				0			20.4	

Reagents:

8260 CORP mix_00023	Amount Added: 5.00	Units: uL	
GAS CORP mix_00050	Amount Added: 5.00	Units: uL	
T_8260_IS_00086	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_Surr_00081	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T6145.D

Injection Date: 09-Oct-2014 21:35:30

Instrument ID: HP5975T

Lims ID: IC 3

Operator ID: gtg

Client ID:

Worklist Smp#: 10

Purge Vol: 5.000 mL

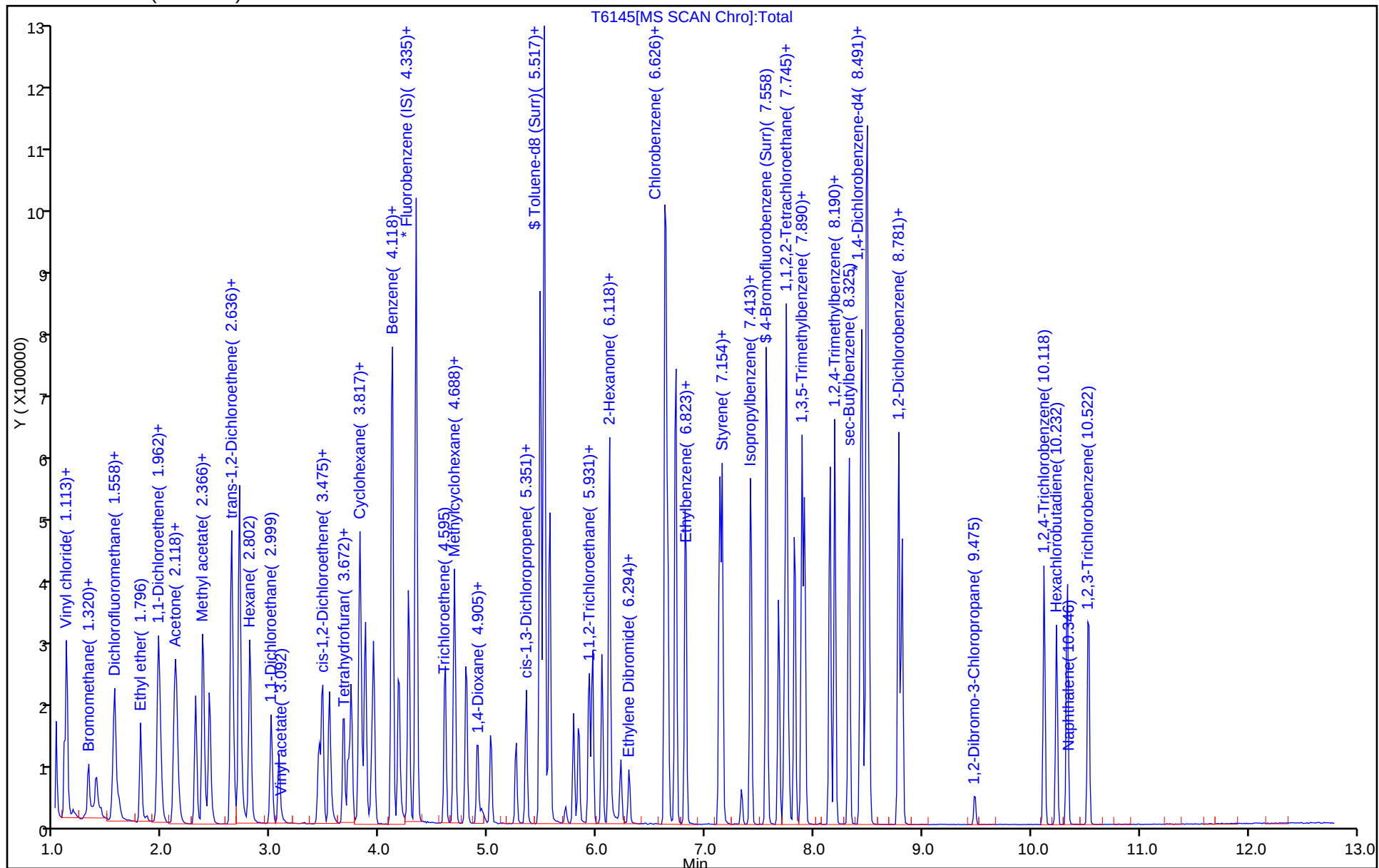
Dil. Factor: 1.0000

ALS Bottle#: 31

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T6146.D
 Lims ID: ICIS 4
 Client ID:
 Sample Type: ICIS Calib Level: 5
 Inject. Date: 09-Oct-2014 21:59:30 ALS Bottle#: 32 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICIS 4
 Misc. Info.: 480-0036177-011
 Operator ID: gtg Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 14-Oct-2014 02:01:11 Calib Date: 09-Oct-2014 22:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T6148.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: HillL

Date: 10-Oct-2014 14:50:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.335	4.335	0.000	98	685832	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.636	6.636	0.000	89	479756	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.491	8.491	0.000	97	247538	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	3.869	3.869	0.000	93	163694	25.0	25.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.118	4.118	0.000	0	219575	25.0	24.8	
\$ 6 Toluene-d8 (Surr)	98	5.517	5.517	0.000	95	638394	25.0	24.9	
\$ 7 4-Bromofluorobenzene (Surr	174	7.569	7.569	0.000	89	174130	25.0	25.2	
11 Dichlorodifluoromethane	85	0.905	0.905	0.000	98	154794	25.0	24.5	
13 Chloromethane	50	1.019	1.019	0.000	99	232729	25.0	23.8	
14 Vinyl chloride	62	1.102	1.102	0.000	99	217008	25.0	23.9	
151 Butadiene	54	1.123	1.123	0.000	93	217134	25.0	23.4	
15 Bromomethane	94	1.320	1.320	0.000	91	77359	25.0	22.5	
16 Chloroethane	64	1.392	1.392	0.000	98	113106	25.0	25.3	
17 Trichlorofluoromethane	101	1.558	1.558	0.000	98	232982	25.0	23.7	
18 Dichlorofluoromethane	67	1.558	1.558	0.000	97	272996	25.0	23.4	
19 Ethyl ether	59	1.797	1.797	0.000	98	192001	25.0	23.8	
21 Acrolein	56	1.952	1.952	0.000	99	126768	125.0	117.8	
22 1,1-Dichloroethene	96	1.962	1.962	0.000	92	143725	25.0	24.0	
20 1,1,2-Trichloro-1,2,2-trif	101	1.973	1.973	0.000	95	150226	25.0	23.5	
24 Iodomethane	142	2.107	2.107	0.000	99	242937	25.0	23.7	
23 Acetone	43	2.107	2.107	0.000	99	420497	125.0	127.7	
25 Carbon disulfide	76	2.128	2.128	0.000	100	540243	25.0	23.9	
27 3-Chloro-1-propene	41	2.304	2.304	0.000	89	337739	25.0	24.4	
28 Methyl acetate	43	2.366	2.366	0.000	100	1069115	125.0	124.8	
30 Methylene Chloride	84	2.439	2.439	0.000	97	185599	25.0	23.0	
31 2-Methyl-2-propanol	59	2.636	2.636	0.000	40	183922	250.0	210.8	
33 Methyl tert-butyl ether	73	2.636	2.636	0.000	97	540899	25.0	24.0	
32 trans-1,2-Dichloroethene	96	2.636	2.636	0.000	94	176882	25.0	24.8	
34 Acrylonitrile	53	2.708	2.708	0.000	99	1011143	250.0	251.8	
35 Hexane	57	2.802	2.802	0.000	94	312945	25.0	23.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	2.999	2.999	0.000	97	371881	25.0	24.4	
39 Vinyl acetate	43	3.071	3.071	0.000	97	423170	50.0	50.0	
42 2,2-Dichloropropane	77	3.444	3.444	0.000	86	141225	25.0	23.4	
43 cis-1,2-Dichloroethene	96	3.475	3.475	0.000	83	190146	25.0	24.2	
44 2-Butanone (MEK)	43	3.527	3.527	0.000	98	663407	125.0	124.3	
47 Chlorobromomethane	128	3.672	3.672	0.000	91	91989	25.0	24.2	
48 Tetrahydrofuran	42	3.703	3.703	0.000	93	171510	50.0	46.9	
50 Chloroform	83	3.734	3.734	0.000	95	318618	25.0	24.1	
51 1,1,1-Trichloroethane	97	3.817	3.817	0.000	96	218445	25.0	24.4	
52 Cyclohexane	56	3.817	3.817	0.000	95	384208	25.0	23.5	
53 Carbon tetrachloride	117	3.931	3.931	0.000	97	141015	25.0	23.8	
54 1,1-Dichloropropene	75	3.942	3.942	0.000	93	232721	25.0	24.1	
55 Benzene	78	4.118	4.118	0.000	96	719711	25.0	24.2	
57 1,2-Dichloroethane	62	4.170	4.170	0.000	96	281797	25.0	23.5	
56 Isobutyl alcohol	43	4.170	4.170	0.000	63	174275	625.0	599.3	
59 n-Heptane	43	4.263	4.263	0.000	97	366353	25.0	23.3	
60 Trichloroethene	95	4.605	4.605	0.000	98	183777	25.0	24.9	
62 Methylcyclohexane	83	4.688	4.688	0.000	98	302060	25.0	24.1	
63 1,2-Dichloropropane	63	4.791	4.791	0.000	94	211298	25.0	24.6	
65 Dibromomethane	93	4.895	4.895	0.000	94	114529	25.0	24.5	
66 1,4-Dioxane	88	4.937	4.937	0.000	96	49718	500.0	536.9	M
67 Dichlorobromomethane	83	5.019	5.019	0.000	97	207418	25.0	24.7	
69 2-Chloroethyl vinyl ether	63	5.258	5.258	0.000	92	117313	25.0	24.5	
71 cis-1,3-Dichloropropene	75	5.351	5.351	0.000	91	240052	25.0	25.2	
72 4-Methyl-2-pentanone (MIBK)	43	5.475	5.475	0.000	98	1387799	125.0	124.5	
73 Toluene	92	5.569	5.569	0.000	98	440895	25.0	24.4	
75 trans-1,3-Dichloropropene	75	5.786	5.786	0.000	97	183122	25.0	21.4	
77 Ethyl methacrylate	69	5.828	5.828	0.000	94	194135	25.0	25.5	
78 1,1,2-Trichloroethane	83	5.931	5.931	0.000	93	140310	25.0	24.7	
79 Tetrachloroethene	166	5.962	5.962	0.000	93	163185	25.0	23.8	
80 1,3-Dichloropropane	76	6.045	6.045	0.000	98	294673	25.0	24.4	
81 2-Hexanone	43	6.118	6.118	0.000	99	1019168	125.0	129.4	
82 Chlorodibromomethane	129	6.222	6.222	0.000	92	116450	25.0	24.4	
83 Ethylene Dibromide	107	6.294	6.294	0.000	98	137394	25.0	25.5	
86 Chlorobenzene	112	6.657	6.657	0.000	93	478071	25.0	24.5	
89 1,1,1,2-Tetrachloroethane	131	6.729	6.729	0.000	41	111577	25.0	22.3	
88 Ethylbenzene	91	6.729	6.729	0.000	99	835903	25.0	24.3	
90 m-Xylene & p-Xylene	106	6.812	6.812	0.000	0	311698	25.0	24.6	
91 o-Xylene	106	7.133	7.133	0.000	99	309010	25.0	24.4	
92 Styrene	104	7.154	7.154	0.000	93	520559	25.0	24.0	
93 Bromoform	173	7.330	7.330	0.000	94	60413	25.0	21.4	
95 Isopropylbenzene	105	7.413	7.413	0.000	97	822680	25.0	24.3	
97 Bromobenzene	156	7.672	7.672	0.000	98	187750	25.0	24.3	
98 1,1,2,2-Tetrachloroethane	83	7.724	7.724	0.000	93	226231	25.0	25.2	
99 N-Propylbenzene	91	7.745	7.745	0.000	99	987008	25.0	24.0	
100 1,2,3-Trichloropropane	110	7.755	7.755	0.000	90	69257	25.0	25.4	
101 trans-1,4-Dichloro-2-buten	53	7.766	7.766	0.000	72	68288	25.0	22.5	
105 2-Chlorotoluene	126	7.828	7.828	0.000	95	188358	25.0	24.6	
104 1,3,5-Trimethylbenzene	105	7.890	7.890	0.000	94	709629	25.0	24.5	
102 4-Chlorotoluene	91	7.911	7.911	0.000	99	699512	25.0	24.2	
106 tert-Butylbenzene	134	8.149	8.149	0.000	94	141289	25.0	24.7	
107 1,2,4-Trimethylbenzene	105	8.191	8.191	0.000	98	728654	25.0	24.4	

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	8.325	8.325	0.000	95	899504	25.0	24.4	
110 1,3-Dichlorobenzene	146	8.429	8.429	0.000	97	378345	25.0	24.3	
111 4-Isopropyltoluene	119	8.439	8.439	0.000	98	767335	25.0	24.7	
113 1,4-Dichlorobenzene	146	8.501	8.501	0.000	94	383486	25.0	24.0	
115 n-Butylbenzene	91	8.781	8.781	0.000	98	720680	25.0	24.3	
116 1,2-Dichlorobenzene	146	8.812	8.812	0.000	96	364447	25.0	24.4	
117 1,2-Dibromo-3-Chloropropan	75	9.476	9.476	0.000	71	25026	25.0	20.9	
119 1,2,4-Trichlorobenzene	180	10.118	10.118	0.000	94	237659	25.0	25.5	
120 Hexachlorobutadiene	225	10.232	10.232	0.000	97	117186	25.0	25.0	
121 Naphthalene	128	10.336	10.336	0.000	97	656820	25.0	25.8	
122 1,2,3-Trichlorobenzene	180	10.533	10.533	0.000	95	226123	25.0	25.9	
S 123 1,3-Dichloropropene, Total	1				0			46.6	
S 124 1,2-Dichloroethene, Total	1				0			49.0	
S 125 Total BTEX	1				0			122.0	
S 126 Xylenes, Total	1				0			49.1	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00023

Amount Added: 12.50

Units: uL

GAS CORP mix_00050

Amount Added: 12.50

Units: uL

T_8260_IS_00086

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_Surr_00081

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T6146.D

Injection Date: 09-Oct-2014 21:59:30

Instrument ID: HP5975T

Operator ID: gtg

Lims ID: ICIS 4

Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL

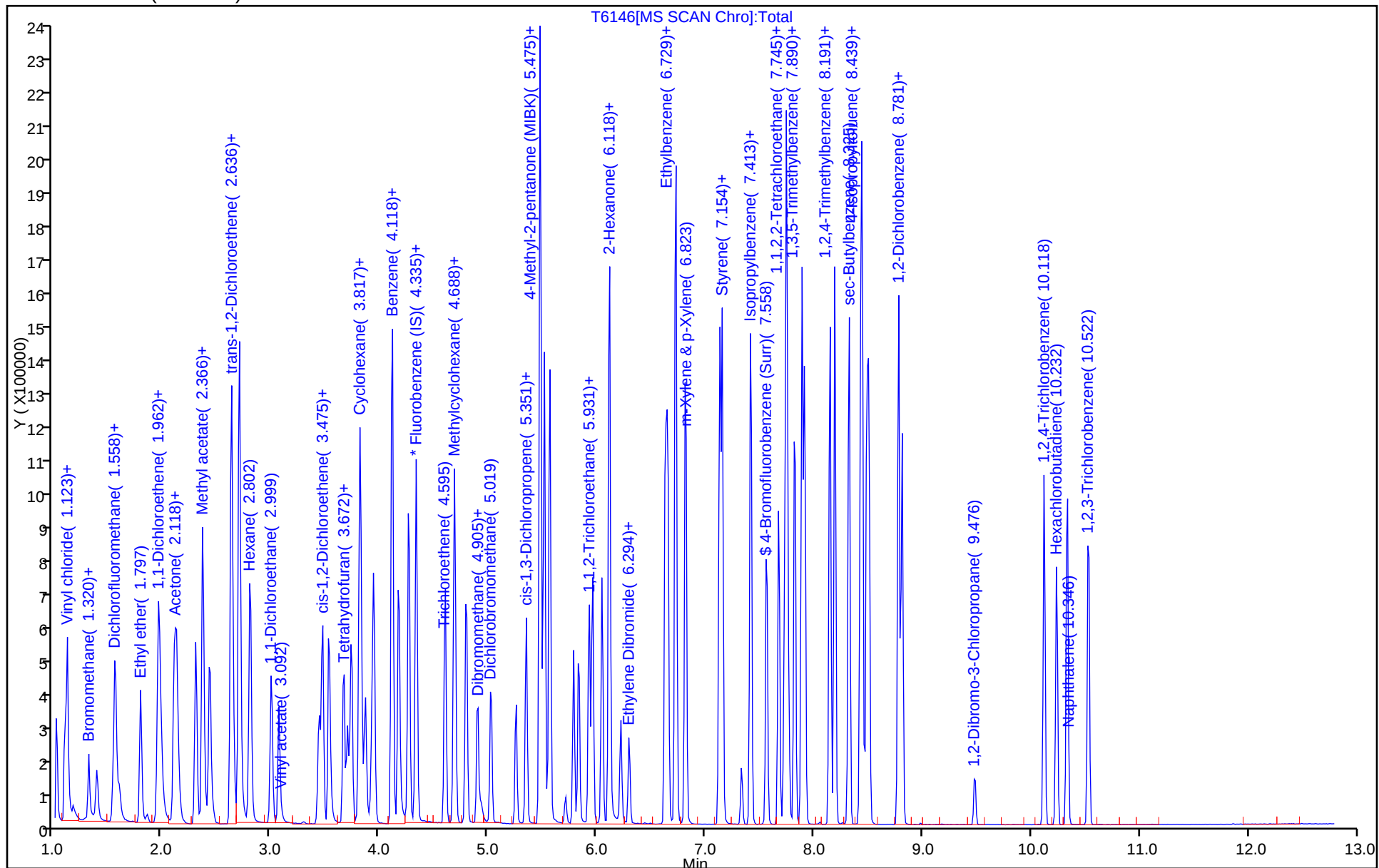
Dil. Factor: 1.0000

ALS Bottle#: 32

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T6146.D

Injection Date: 09-Oct-2014 21:59:30

Instrument ID: HP5975T

Lims ID: ICIS 4

Client ID:

Operator ID: gtg

ALS Bottle#:

32

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: T-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

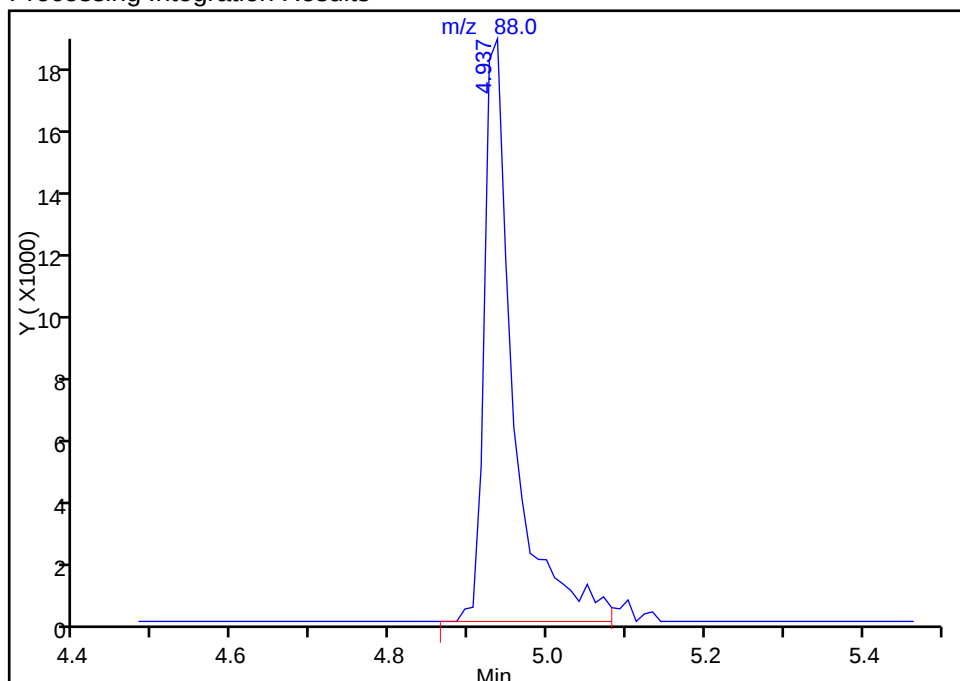
Detector

MS SCAN

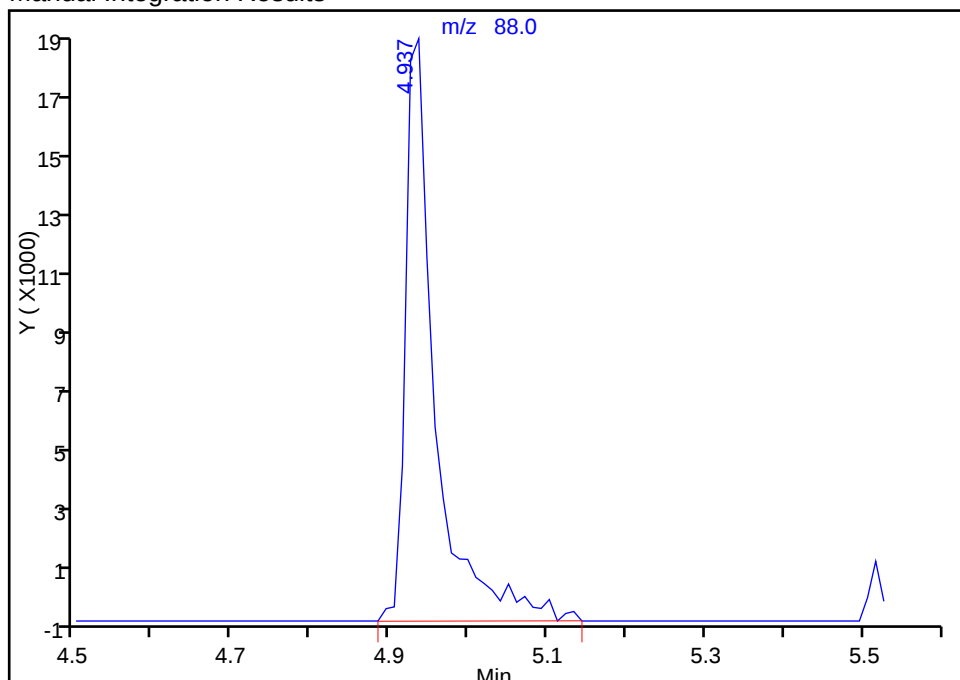
66 1,4-Dioxane, CAS: 123-91-1

RT: 4.94
Response: 48696
Amount: 527.7638

Processing Integration Results

RT: 4.94
Response: 49718
Amount: 536.8580

Manual Integration Results



Reviewer: HillL, 10-Oct-2014 14:52:05

Audit Action: Manually Integrated

Audit Reason: Peak Tail

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T6147.D
 Lims ID: IC 5
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 09-Oct-2014 22:23:30 ALS Bottle#: 33 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 5
 Misc. Info.: 480-0036177-012
 Operator ID: gtg Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 14-Oct-2014 02:02:20 Calib Date: 09-Oct-2014 22:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T6148.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: HillL

Date: 10-Oct-2014 14:50:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.336	4.335	0.001	98	692452	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.636	6.636	0.000	89	497395	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.491	8.491	0.000	96	254717	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	3.869	3.869	0.000	92	168017	25.0	25.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.118	4.118	0.000	0	220970	25.0	24.8	
\$ 6 Toluene-d8 (Surr)	98	5.517	5.517	0.000	95	660505	25.0	24.9	
\$ 7 4-Bromofluorobenzene (Surr	174	7.569	7.569	0.000	88	176319	25.0	24.7	
11 Dichlorodifluoromethane	85	0.916	0.905	0.011	99	304418	50.0	47.7	
13 Chloromethane	50	1.030	1.019	0.011	100	473559	50.0	47.9	
14 Vinyl chloride	62	1.102	1.102	0.000	98	443362	50.0	48.4	
151 Butadiene	54	1.123	1.123	0.000	92	431681	50.0	46.1	
15 Bromomethane	94	1.320	1.320	0.000	92	163574	50.0	47.6	
16 Chloroethane	64	1.403	1.392	0.011	98	245094	50.0	54.2	
17 Trichlorofluoromethane	101	1.569	1.558	0.011	97	465020	50.0	46.9	
18 Dichlorofluoromethane	67	1.569	1.558	0.011	98	566810	50.0	48.1	
19 Ethyl ether	59	1.797	1.797	0.000	98	401167	50.0	49.3	
21 Acrolein	56	1.952	1.952	0.000	99	259363	250.0	238.8	
22 1,1-Dichloroethene	96	1.973	1.962	0.011	92	291805	50.0	48.2	
20 1,1,2-Trichloro-1,2,2-trif	101	1.983	1.973	0.010	94	311362	50.0	48.2	
23 Acetone	43	2.108	2.107	0.001	99	843552	250.0	253.8	
24 Iodomethane	142	2.108	2.107	0.001	98	498485	50.0	48.1	
25 Carbon disulfide	76	2.128	2.128	0.000	100	1105117	50.0	48.4	
27 3-Chloro-1-propene	41	2.304	2.304	0.000	89	701609	50.0	50.1	
28 Methyl acetate	43	2.367	2.366	0.001	100	2218935	250.0	256.6	
30 Methylene Chloride	84	2.439	2.439	0.000	96	376846	50.0	46.2	
31 2-Methyl-2-propanol	59	2.636	2.636	0.000	42	449877	500.0	458.8	
33 Methyl tert-butyl ether	73	2.636	2.636	0.000	98	1117651	50.0	49.2	
32 trans-1,2-Dichloroethene	96	2.636	2.636	0.000	92	355137	50.0	49.2	
34 Acrylonitrile	53	2.709	2.708	0.001	99	2058546	500.0	507.8	
35 Hexane	57	2.812	2.802	0.010	94	649542	50.0	48.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	2.999	2.999	0.000	96	747988	50.0	48.6	
39 Vinyl acetate	43	3.071	3.071	0.000	97	976940	100.0	114.3	
42 2,2-Dichloropropane	77	3.444	3.444	0.000	89	312374	50.0	51.2	
43 cis-1,2-Dichloroethene	96	3.475	3.475	0.000	83	388812	50.0	49.0	
44 2-Butanone (MEK)	43	3.527	3.527	0.000	98	1346143	250.0	249.8	
47 Chlorobromomethane	128	3.672	3.672	0.000	92	183973	50.0	48.0	
48 Tetrahydrofuran	42	3.703	3.703	0.000	94	347487	100.0	94.1	
50 Chloroform	83	3.735	3.734	0.000	96	646408	50.0	48.5	
52 Cyclohexane	56	3.817	3.817	0.000	94	791449	50.0	47.9	
51 1,1,1-Trichloroethane	97	3.828	3.817	0.011	97	465408	50.0	51.4	
53 Carbon tetrachloride	117	3.931	3.931	0.000	97	327627	50.0	54.8	
54 1,1-Dichloropropene	75	3.942	3.942	0.000	94	479988	50.0	49.2	
55 Benzene	78	4.118	4.118	0.000	97	1476921	50.0	49.3	
57 1,2-Dichloroethane	62	4.170	4.170	0.000	96	571319	50.0	47.3	
56 Isobutyl alcohol	43	4.170	4.170	0.000	95	447124	1250.0	1266.1	
59 n-Heptane	43	4.263	4.263	0.000	97	726497	50.0	45.8	
60 Trichloroethene	95	4.605	4.605	0.000	97	367607	50.0	49.3	
62 Methylcyclohexane	83	4.688	4.688	0.000	98	624286	50.0	49.4	
63 1,2-Dichloropropane	63	4.792	4.791	0.001	94	434443	50.0	50.2	
65 Dibromomethane	93	4.895	4.895	0.000	94	235157	50.0	49.8	
66 1,4-Dioxane	88	4.926	4.937	-0.011	95	102904	1000.0	1071.8	M
67 Dichlorobromomethane	83	5.020	5.019	0.001	98	441963	50.0	52.2	
69 2-Chloroethyl vinyl ether	63	5.258	5.258	0.000	92	263356	50.0	54.5	
71 cis-1,3-Dichloropropene	75	5.351	5.351	0.000	92	544348	50.0	56.7	
72 4-Methyl-2-pentanone (MIBK)	43	5.475	5.475	0.000	98	2850663	250.0	246.7	
73 Toluene	92	5.569	5.569	0.000	98	904568	50.0	48.4	
75 trans-1,3-Dichloropropene	75	5.786	5.786	0.000	97	439667	50.0	46.4	
77 Ethyl methacrylate	69	5.828	5.828	0.000	94	455566	50.0	57.6	
78 1,1,2-Trichloroethane	83	5.931	5.931	0.000	93	290840	50.0	49.4	
79 Tetrachloroethene	166	5.963	5.962	0.001	96	341314	50.0	48.0	
80 1,3-Dichloropropane	76	6.045	6.045	0.000	97	597176	50.0	47.6	
81 2-Hexanone	43	6.118	6.118	0.000	99	2110048	250.0	258.3	
82 Chlorodibromomethane	129	6.222	6.222	0.000	91	277287	50.0	56.1	
83 Ethylene Dibromide	107	6.294	6.294	0.000	97	313837	50.0	56.1	
86 Chlorobenzene	112	6.657	6.657	0.000	93	977170	50.0	48.3	
89 1,1,1,2-Tetrachloroethane	131	6.729	6.729	0.000	42	258074	50.0	45.8	
88 Ethylbenzene	91	6.729	6.729	0.000	99	1729619	50.0	48.5	
90 m-Xylene & p-Xylene	106	6.812	6.812	0.000	0	652190	50.0	49.7	
91 o-Xylene	106	7.134	7.133	0.001	98	636288	50.0	48.5	
92 Styrene	104	7.154	7.154	0.000	94	1114261	50.0	49.6	
93 Bromoform	173	7.330	7.330	0.000	93	145128	50.0	44.4	
95 Isopropylbenzene	105	7.413	7.413	0.000	97	1678731	50.0	48.2	
97 Bromobenzene	156	7.672	7.672	0.000	99	386435	50.0	48.6	
98 1,1,2,2-Tetrachloroethane	83	7.724	7.724	0.000	95	470800	50.0	51.0	
99 N-Propylbenzene	91	7.745	7.745	0.000	99	2039821	50.0	48.1	
100 1,2,3-Trichloropropane	110	7.755	7.755	0.000	91	144372	50.0	51.5	
101 trans-1,4-Dichloro-2-buten	53	7.766	7.766	0.000	78	150603	50.0	47.3	
105 2-Chlorotoluene	126	7.828	7.828	0.000	95	373348	50.0	47.4	
104 1,3,5-Trimethylbenzene	105	7.890	7.890	0.000	93	1454486	50.0	48.7	
102 4-Chlorotoluene	91	7.911	7.911	0.000	99	1437095	50.0	48.4	
106 tert-Butylbenzene	134	8.149	8.149	0.000	94	285199	50.0	48.5	
107 1,2,4-Trimethylbenzene	105	8.191	8.191	0.001	97	1508045	50.0	49.2	

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	8.325	8.325	0.000	95	1837394	50.0	48.5	
110 1,3-Dichlorobenzene	146	8.429	8.429	0.000	97	761656	50.0	47.5	
111 4-Isopropyltoluene	119	8.450	8.439	0.011	98	1560930	50.0	48.9	
113 1,4-Dichlorobenzene	146	8.502	8.501	0.001	92	788414	50.0	47.9	
115 n-Butylbenzene	91	8.781	8.781	0.000	98	1487772	50.0	48.8	
116 1,2-Dichlorobenzene	146	8.812	8.812	0.000	96	752032	50.0	48.9	
117 1,2-Dibromo-3-Chloropropan	75	9.476	9.476	0.000	75	64308	50.0	45.6	
119 1,2,4-Trichlorobenzene	180	10.118	10.118	0.000	94	481387	50.0	50.2	
120 Hexachlorobutadiene	225	10.232	10.232	0.000	96	227597	50.0	47.1	
121 Naphthalene	128	10.336	10.336	0.000	97	1342456	50.0	51.3	
122 1,2,3-Trichlorobenzene	180	10.533	10.533	0.000	95	438344	50.0	48.8	
S 125 Total BTEX	1				0			244.4	
S 126 Xylenes, Total	1				0			98.2	
S 123 1,3-Dichloropropene, Total	1				0			103.0	
S 124 1,2-Dichloroethene, Total	1				0			98.3	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00023

Amount Added: 25.00

Units: uL

GAS CORP mix_00050

Amount Added: 25.00

Units: uL

T_8260_IS_00086

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_Surr_00081

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T6147.D

Injection Date: 09-Oct-2014 22:23:30

Instrument ID: HP5975T

Lims ID: IC 5

Operator ID: gtg

Client ID:

Worklist Smp#: 12

Purge Vol: 5.000 mL

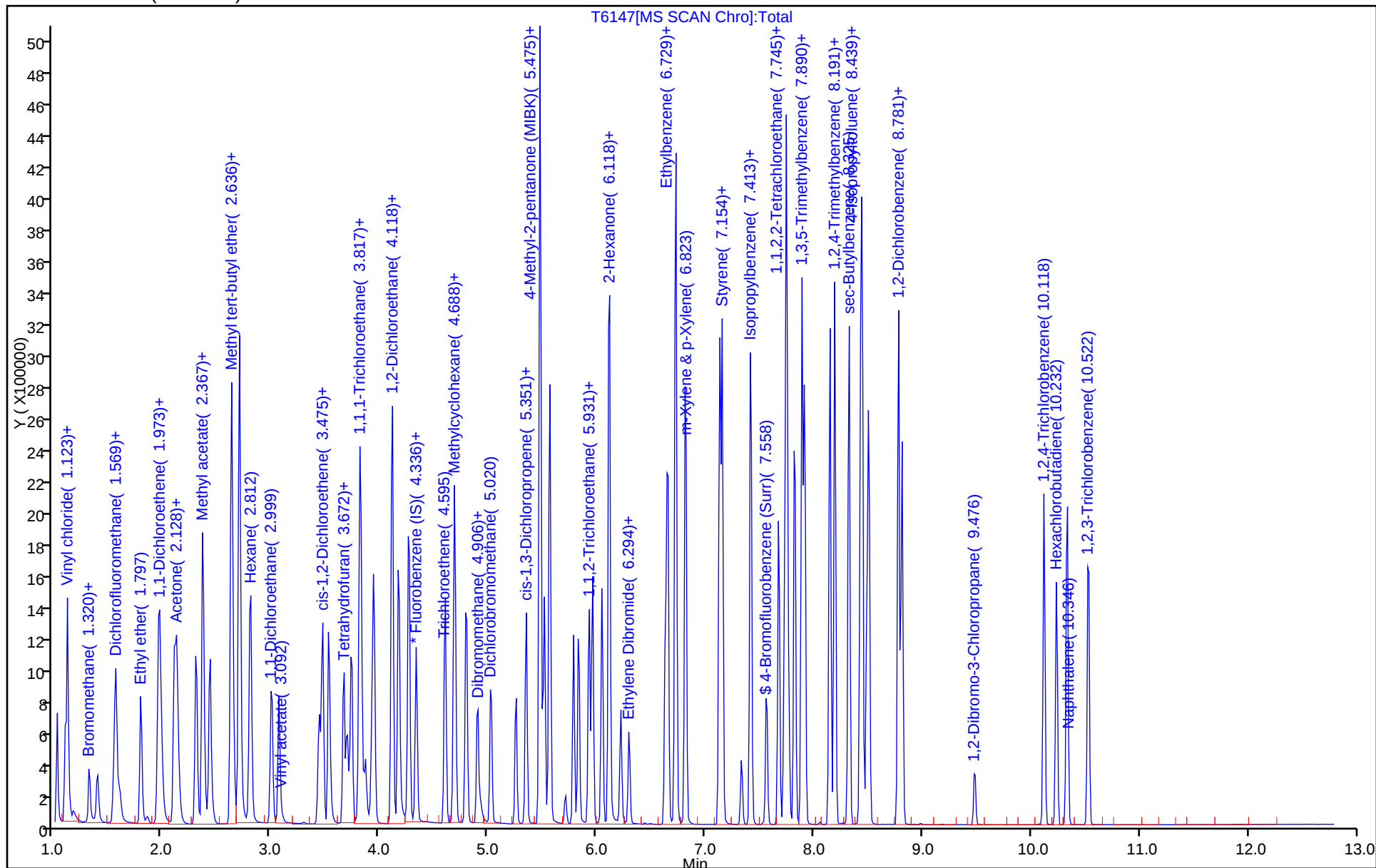
Dil. Factor: 1.0000

ALS Bottle#: 33

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T6147.D

Injection Date: 09-Oct-2014 22:23:30

Instrument ID: HP5975T

Lims ID: IC 5

Client ID:

Operator ID: gtg

ALS Bottle#:

33

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: T-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

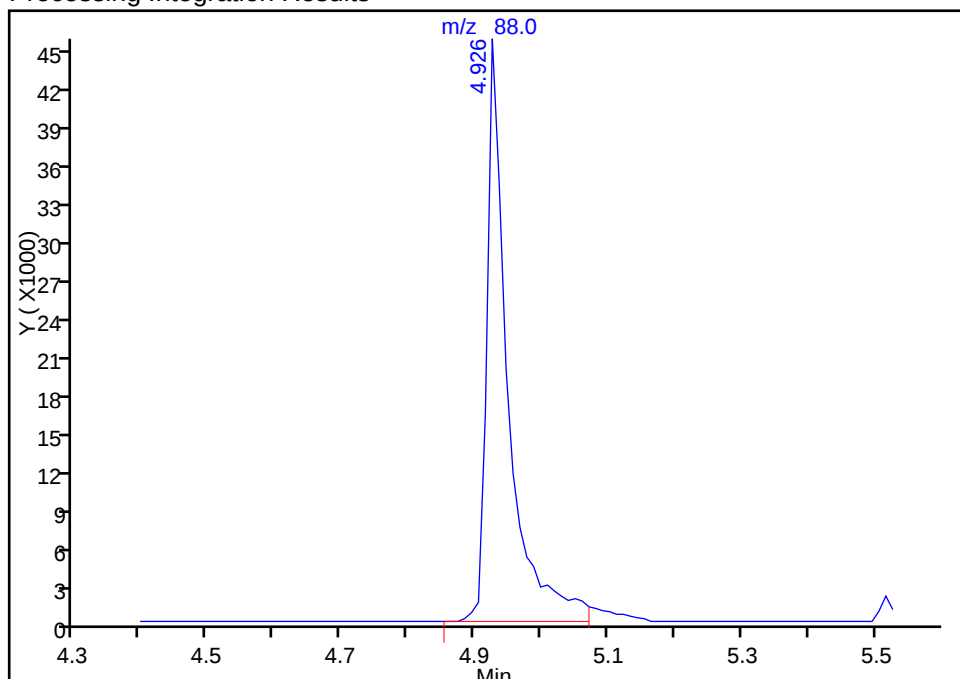
Detector

MS SCAN

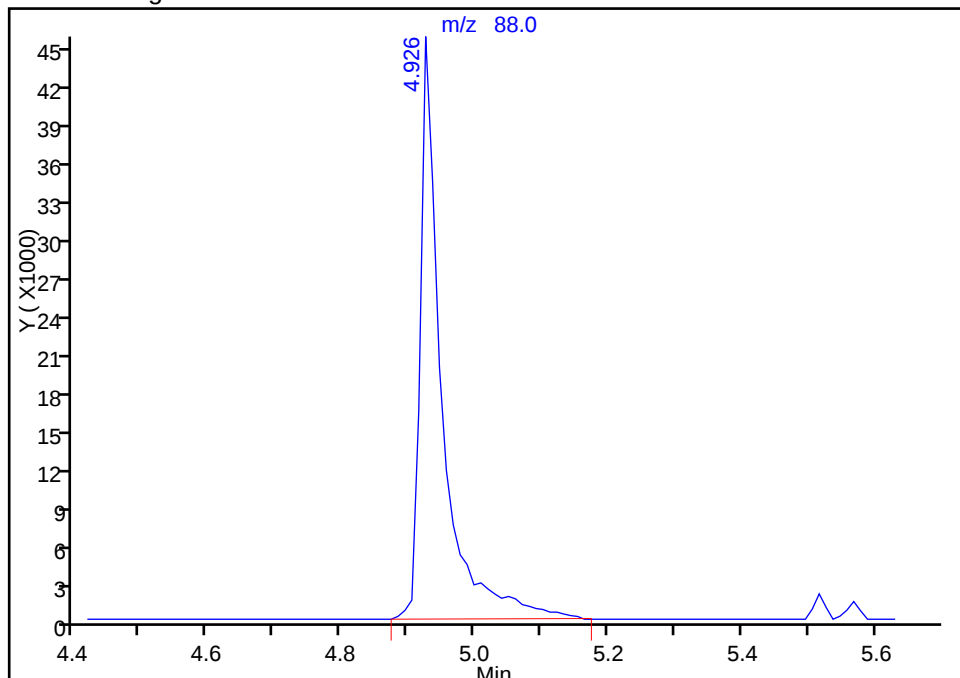
66 1,4-Dioxane, CAS: 123-91-1

RT: 4.93
Response: 100591
Amount: 1055.7913

Processing Integration Results

RT: 4.93
Response: 102904
Amount: 1071.7587

Manual Integration Results



Reviewer: HillL, 10-Oct-2014 14:51:50

Audit Action: Manually Integrated

Audit Reason: Peak Tail

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T6148.D
 Lims ID: IC 6
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 09-Oct-2014 22:47:30 ALS Bottle#: 34 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 6
 Misc. Info.: 480-0036177-013
 Operator ID: gtg Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 14-Oct-2014 02:03:05 Calib Date: 09-Oct-2014 22:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T6148.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: HillL

Date: 10-Oct-2014 14:51:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.335	4.335	0.000	98	725073	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.636	6.636	0.000	88	510594	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.491	8.491	0.000	96	253325	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	3.869	3.869	0.000	93	177663	25.0	25.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.118	4.118	0.000	0	236622	25.0	25.3	
\$ 6 Toluene-d8 (Surr)	98	5.517	5.517	0.000	93	694498	25.0	25.5	
\$ 7 4-Bromofluorobenzene (Surr	174	7.569	7.569	0.000	87	182604	25.0	24.9	
11 Dichlorodifluoromethane	85	0.916	0.905	0.011	99	623699	100.0	93.3	
13 Chloromethane	50	1.030	1.019	0.011	99	988955	100.0	95.5	
14 Vinyl chloride	62	1.102	1.102	0.000	97	913502	100.0	95.2	
151 Butadiene	54	1.123	1.123	0.000	93	895202	100.0	91.3	
15 Bromomethane	94	1.330	1.320	0.010	92	374383	100.0	104.5	
16 Chloroethane	64	1.403	1.392	0.011	98	510975	100.0	108.0	
17 Trichlorofluoromethane	101	1.569	1.558	0.010	98	963449	100.0	92.8	
18 Dichlorofluoromethane	67	1.569	1.558	0.010	98	1192422	100.0	96.6	
19 Ethyl ether	59	1.796	1.797	-0.001	98	823649	100.0	96.7	
21 Acrolein	56	1.952	1.952	0.000	100	558598	500.0	491.1	
22 1,1-Dichloroethene	96	1.973	1.962	0.011	93	612777	100.0	96.6	
20 1,1,2-Trichloro-1,2,2-trif	101	1.983	1.973	0.010	96	623396	100.0	92.2	
24 Iodomethane	142	2.107	2.107	0.000	70	1055041	100.0	97.3	
23 Acetone	43	2.107	2.107	0.000	99	1748315	500.0	502.4	
25 Carbon disulfide	76	2.128	2.128	0.000	100	2309987	100.0	96.6	
27 3-Chloro-1-propene	41	2.304	2.304	0.000	90	1501955	100.0	102.5	
28 Methyl acetate	43	2.366	2.366	0.000	100	4717559	500.0	521.1	
30 Methylene Chloride	84	2.439	2.439	0.000	97	798966	100.0	93.5	
31 2-Methyl-2-propanol	59	2.626	2.636	-0.010	97	1107167	1000.0	1028.9	
33 Methyl tert-butyl ether	73	2.636	2.636	0.000	98	2399278	100.0	100.8	
32 trans-1,2-Dichloroethene	96	2.636	2.636	0.000	73	737634	100.0	97.7	
34 Acrylonitrile	53	2.708	2.708	0.000	99	4376780	1000.0	1031.1	
35 Hexane	57	2.812	2.802	0.010	95	1353135	100.0	95.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	2.999	2.999	0.000	96	1587559	100.0	98.5	
39 Vinyl acetate	43	3.071	3.071	0.000	97	2323363	200.0	259.5	
42 2,2-Dichloropropane	77	3.444	3.444	0.000	90	694842	100.0	108.7	
43 cis-1,2-Dichloroethene	96	3.475	3.475	0.000	83	823737	100.0	99.2	
44 2-Butanone (MEK)	43	3.527	3.527	0.000	98	2887859	500.0	511.8	
47 Chlorobromomethane	128	3.672	3.672	0.000	91	398667	100.0	99.3	
48 Tetrahydrofuran	42	3.693	3.703	-0.010	93	732601	200.0	189.5	
50 Chloroform	83	3.734	3.734	0.000	96	1361775	100.0	97.6	
52 Cyclohexane	56	3.817	3.817	0.000	94	1684124	100.0	97.3	
51 1,1,1-Trichloroethane	97	3.828	3.817	0.011	98	1016686	100.0	107.3	
53 Carbon tetrachloride	117	3.931	3.931	0.000	96	767335	100.0	122.5	
54 1,1-Dichloropropene	75	3.942	3.942	0.000	94	1011169	100.0	99.0	
55 Benzene	78	4.118	4.118	0.000	98	3138105	100.0	100.0	
56 Isobutyl alcohol	43	4.170	4.170	0.000	95	1188186	2500.0	2498.1	
57 1,2-Dichloroethane	62	4.170	4.170	0.000	96	1218393	100.0	96.2	
59 n-Heptane	43	4.263	4.263	0.000	98	1516070	100.0	91.3	
60 Trichloroethene	95	4.605	4.605	0.000	98	771247	100.0	98.8	
62 Methylcyclohexane	83	4.688	4.688	0.000	98	1297362	100.0	98.0	
63 1,2-Dichloropropane	63	4.802	4.791	0.011	95	931862	100.0	102.8	
65 Dibromomethane	93	4.905	4.895	0.010	94	495414	100.0	100.3	
66 1,4-Dioxane	88	4.926	4.937	-0.011	96	206756	2000.0	2097.7	M
67 Dichlorobromomethane	83	5.019	5.019	0.000	98	1023404	100.0	115.5	
69 2-Chloroethyl vinyl ether	63	5.258	5.258	0.000	92	588624	100.0	116.3	
71 cis-1,3-Dichloropropene	75	5.351	5.351	0.000	92	1229967	100.0	122.3	
72 4-Methyl-2-pentanone (MIBK)	43	5.475	5.475	0.000	98	6029794	500.0	508.3	
73 Toluene	92	5.569	5.569	0.000	97	1905383	100.0	99.2	
75 trans-1,3-Dichloropropene	75	5.786	5.786	0.000	97	1029919	100.0	102.7	
77 Ethyl methacrylate	69	5.828	5.828	0.000	94	1061260	100.0	130.8	
78 1,1,2-Trichloroethane	83	5.931	5.931	0.000	93	613179	100.0	101.5	
79 Tetrachloroethene	166	5.962	5.962	0.000	94	712272	100.0	97.6	
80 1,3-Dichloropropane	76	6.045	6.045	0.000	97	1278149	100.0	99.3	
81 2-Hexanone	43	6.118	6.118	0.000	98	4373904	500.0	521.6	
82 Chlorodibromomethane	129	6.222	6.222	0.000	91	675660	100.0	133.1	
83 Ethylene Dibromide	107	6.294	6.294	0.000	99	701471	100.0	122.2	
86 Chlorobenzene	112	6.657	6.657	0.000	93	2042063	100.0	98.4	
89 1,1,1,2-Tetrachloroethane	131	6.729	6.729	0.000	43	619646	100.0	102.7	
88 Ethylbenzene	91	6.729	6.729	0.000	99	3591642	100.0	98.2	
90 m-Xylene & p-Xylene	106	6.812	6.812	0.000	0	1358821	100.0	100.8	
91 o-Xylene	106	7.133	7.133	0.000	99	1321630	100.0	98.2	
92 Styrene	104	7.154	7.154	0.000	96	2363356	100.0	102.4	
93 Bromoform	173	7.330	7.330	0.000	95	367715	100.0	103.6	
95 Isopropylbenzene	105	7.413	7.413	0.000	97	3482324	100.0	100.6	
97 Bromobenzene	156	7.672	7.672	0.000	99	808938	100.0	102.4	
98 1,1,2,2-Tetrachloroethane	83	7.724	7.724	0.000	94	991156	100.0	107.9	
99 N-Propylbenzene	91	7.745	7.745	0.000	99	4224180	100.0	100.2	
100 1,2,3-Trichloropropane	110	7.755	7.755	0.000	90	292871	100.0	105.0	
101 trans-1,4-Dichloro-2-buten	53	7.766	7.766	0.000	80	342992	100.0	107.1	
105 2-Chlorotoluene	126	7.828	7.828	0.000	96	775823	100.0	99.1	
104 1,3,5-Trimethylbenzene	105	7.890	7.890	0.000	93	2938786	100.0	99.0	
102 4-Chlorotoluene	91	7.911	7.911	0.000	99	2967109	100.0	100.4	
106 tert-Butylbenzene	134	8.149	8.149	0.000	94	589235	100.0	100.8	
107 1,2,4-Trimethylbenzene	105	8.190	8.191	0.000	97	3022827	100.0	99.1	

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	8.325	8.325	0.000	95	3716178	100.0	98.5	
110 1,3-Dichlorobenzene	146	8.429	8.429	0.000	98	1549762	100.0	97.3	
111 4-Isopropyltoluene	119	8.450	8.439	0.011	97	3140958	100.0	98.9	
113 1,4-Dichlorobenzene	146	8.501	8.501	0.000	92	1585309	100.0	96.8	
115 n-Butylbenzene	91	8.781	8.781	0.000	99	2987994	100.0	98.6	
116 1,2-Dichlorobenzene	146	8.812	8.812	0.000	96	1511529	100.0	98.8	
117 1,2-Dibromo-3-Chloropropan	75	9.476	9.476	0.000	78	153366	100.0	103.1	
119 1,2,4-Trichlorobenzene	180	10.118	10.118	0.000	95	906243	100.0	95.0	
120 Hexachlorobutadiene	225	10.232	10.232	0.000	96	428867	100.0	89.3	
121 Naphthalene	128	10.336	10.336	0.000	97	2550874	100.0	97.9	
122 1,2,3-Trichlorobenzene	180	10.533	10.533	0.000	95	818474	100.0	91.6	
S 123 1,3-Dichloropropene, Total	1				0			225.0	
S 124 1,2-Dichloroethene, Total	1				0			196.9	
S 125 Total BTEX	1				0			496.4	
S 126 Xylenes, Total	1				0			199.0	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00023

Amount Added: 50.00

Units: uL

GAS CORP mix_00050

Amount Added: 50.00

Units: uL

T_8260_IS_00086

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_Surr_00081

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T6148.D

Injection Date: 09-Oct-2014 22:47:30

Instrument ID: HP5975T

Operator ID: gtg

Lims ID: IC 6

Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL

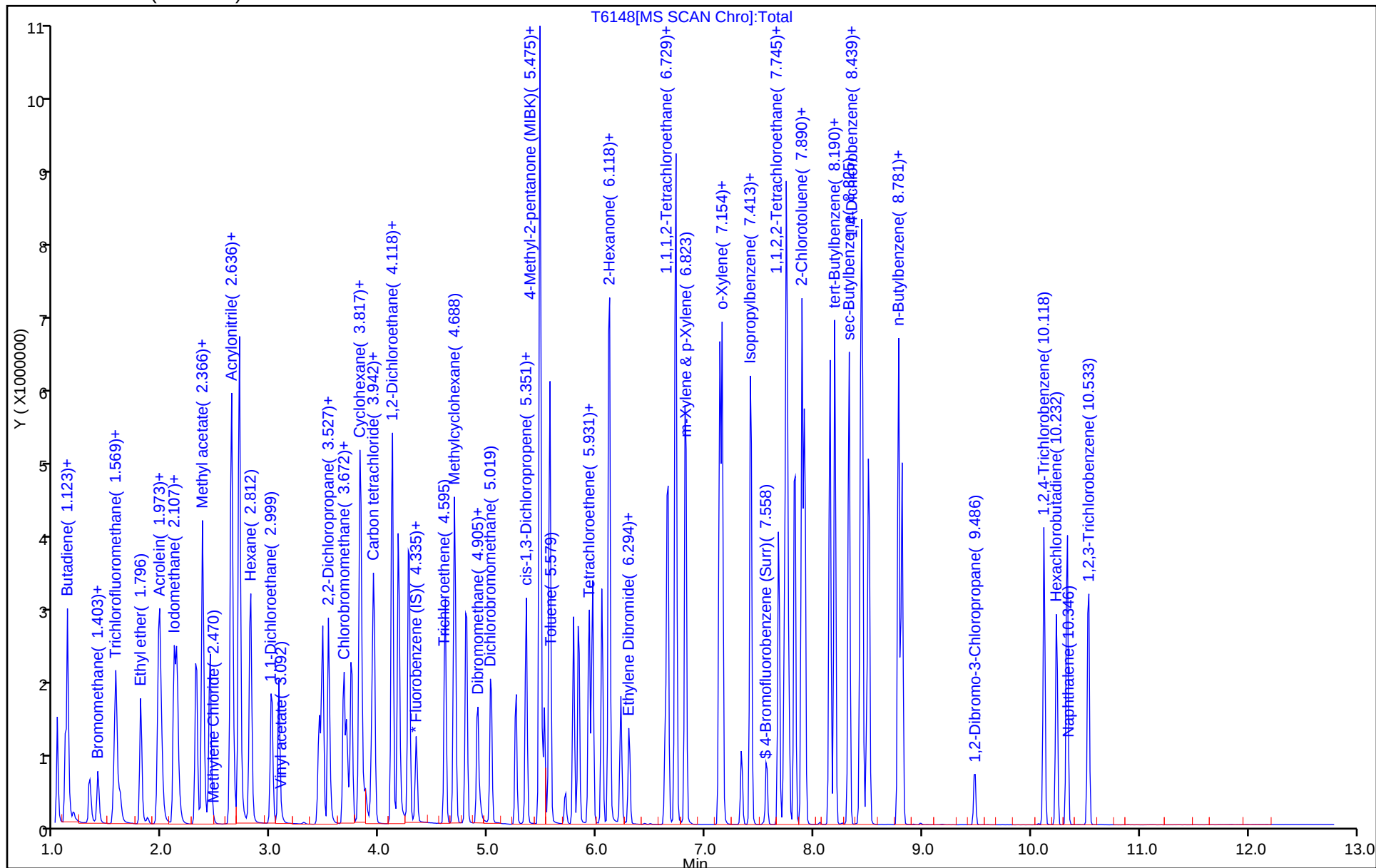
Dil. Factor: 1.0000

ALS Bottle#: 34

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T6148.D

Injection Date: 09-Oct-2014 22:47:30

Instrument ID: HP5975T

Lims ID: IC 6

Client ID:

Operator ID: gtg

ALS Bottle#:

34

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: T-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

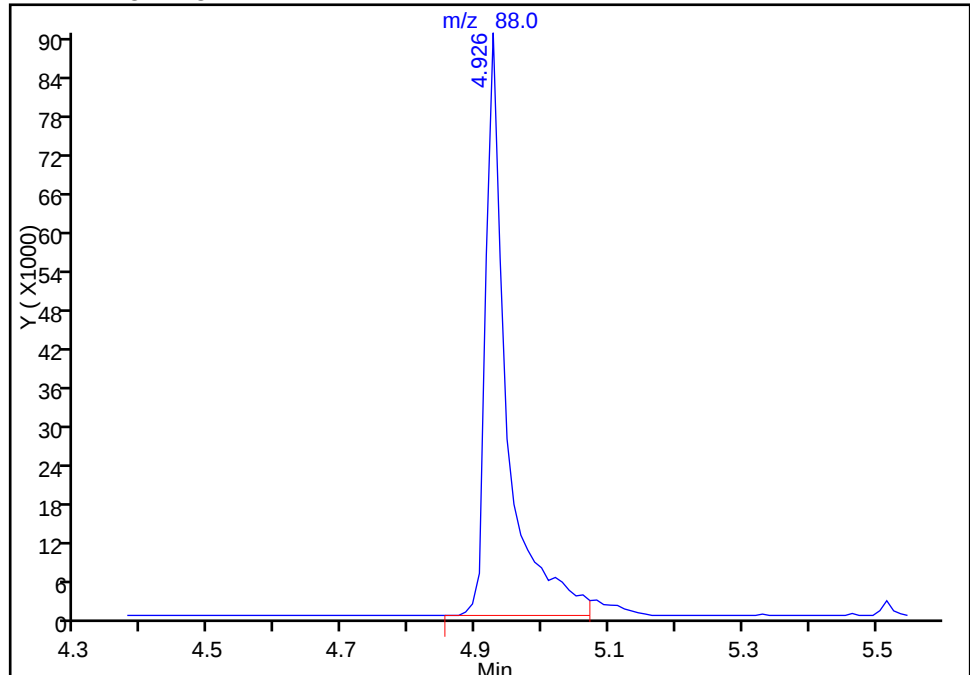
Detector

MS SCAN

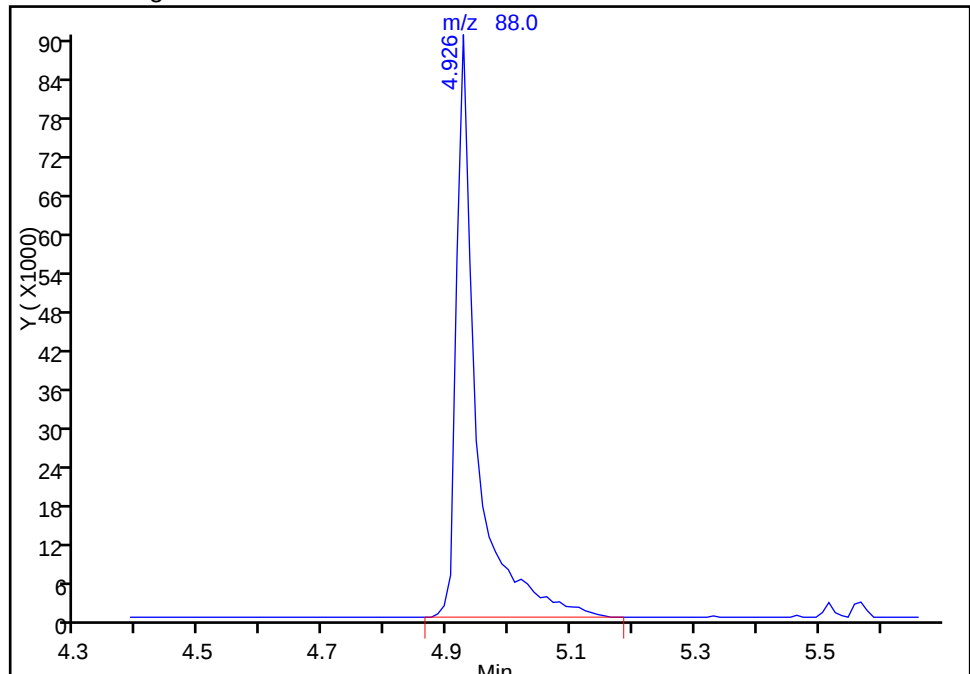
66 1,4-Dioxane, CAS: 123-91-1

RT: 4.93
Response: 201149
Amount: 2066.5329

Processing Integration Results

RT: 4.93
Response: 206756
Amount: 2097.7252

Manual Integration Results



Reviewer: HillL, 10-Oct-2014 14:51:27

Audit Action: Manually Integrated

Audit Reason: Peak Tail

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-69812-1

SDG No.: _____

Lab Sample ID: CCVIS 480-211429/2 Calibration Date: 11/01/2014 09:12

Instrument ID: HP5975T Calib Start Date: 10/09/2014 20:23

GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 10/09/2014 22:47

Lab File ID: T7131.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	0.2305	0.1774	0.1000	19.2	25.0	-23.0	50.0
Chloromethane	Ave	0.3569	0.3102	0.1000	21.7	25.0	-13.1	20.0
Vinyl chloride	Ave	0.3307	0.2969	0.1000	22.4	25.0	-10.2	20.0
Butadiene	Ave	0.3379	0.2553		18.9	25.0	-24.4*	20.0
Bromomethane	Lin1		0.1215	0.1000	24.2	25.0	-3.0	50.0
Chloroethane	Ave	0.1631	0.1663	0.1000	25.5	25.0	2.0	50.0
Trichlorofluoromethane	Ave	0.3579	0.3748	0.1000	26.2	25.0	4.7	20.0
Dichlorofluoromethane	Ave	0.4258	0.4672		27.4	25.0	9.7	20.0
Ethyl ether	Ave	0.2936	0.2763		23.5	25.0	-5.9	20.0
Acrolein	Ave	0.0392	0.0387		123	125	-1.2	50.0
1,1-Dichloroethene	Ave	0.2187	0.2167	0.1000	24.8	25.0	-0.9	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2332	0.2115	0.1000	22.7	25.0	-9.3	20.0
Acetone	Ave	0.1200	0.1033	0.1000	108	125	-13.9	50.0
Iodomethane	Ave	0.3739	0.3645		24.4	25.0	-2.5	20.0
Carbon disulfide	Ave	0.8244	0.7884	0.1000	23.9	25.0	-4.4	20.0
Allyl chloride	Ave	0.5051	0.4854		24.0	25.0	-3.9	20.0
Methyl acetate	Ave	0.3122	0.2735	0.1000	110	125	-12.4	50.0
Methylene Chloride	Ave	0.2947	0.2691	0.1000	22.8	25.0	-8.7	20.0
2-Methyl-2-propanol	Lin		0.0347		262	250	4.9	50.0
Methyl tert-butyl ether	Ave	0.8206	0.7810	0.1000	23.8	25.0	-4.8	20.0
trans-1,2-Dichloroethene	Ave	0.2603	0.2590	0.1000	24.9	25.0	-0.5	20.0
Acrylonitrile	Ave	0.1464	0.1272		217	250	-13.1	20.0
Hexane	Ave	0.4879	0.4355		22.3	25.0	-10.7	20.0
1,1-Dichloroethane	Ave	0.5558	0.5227	0.2000	23.5	25.0	-6.0	20.0
Vinyl acetate	Ave	0.3087	0.3543		57.4	50.0	14.8	20.0
2,2-Dichloropropane	Ave	0.2204	0.2635		29.9	25.0	19.5	20.0
cis-1,2-Dichloroethene	Ave	0.2863	0.2865	0.1000	25.0	25.0	0.0	20.0
2-Butanone (MEK)	Ave	0.1946	0.1574	0.1000	101	125	-19.1	20.0
Chlorobromomethane	Ave	0.1384	0.1361		24.6	25.0	-1.7	20.0
Tetrahydrofuran	Ave	0.1333	0.1033		38.7	50.0	-22.5*	20.0
Chloroform	Ave	0.4812	0.4607	0.2000	23.9	25.0	-4.3	20.0
1,1,1-Trichloroethane	Ave	0.3267	0.3577	0.1000	27.4	25.0	9.5	20.0
Cyclohexane	Ave	0.5967	0.5261	0.1000	22.0	25.0	-11.8	20.0
Carbon tetrachloride	Ave	0.2160	0.2959	0.1000	34.2	25.0	37.0*	20.0
1,1-Dichloropropene	Ave	0.3522	0.3251		23.1	25.0	-7.7	20.0
Benzene	Ave	1.082	1.030	0.5000	23.8	25.0	-4.9	20.0
1,2-Dichloroethane	Ave	0.4365	0.3877	0.1000	22.2	25.0	-11.2	20.0
Isobutyl alcohol	Qua		0.0138		771	625	23.3	50.0
n-Heptane	Ave	0.5726	0.4864		21.2	25.0	-15.1	20.0
Trichloroethene	Ave	0.2691	0.2556	0.2000	23.7	25.0	-5.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-69812-1

SDG No.: _____

Lab Sample ID: CCVIS 480-211429/2 Calibration Date: 11/01/2014 09:12

Instrument ID: HP5975T Calib Start Date: 10/09/2014 20:23

GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 10/09/2014 22:47

Lab File ID: T7131.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	0.4566	0.4285	0.1000	23.5	25.0	-6.2	20.0
1,2-Dichloropropane	Ave	0.3126	0.2923	0.1000	23.4	25.0	-6.5	20.0
Dibromomethane	Ave	0.1704	0.1569	0.1000	23.0	25.0	-7.9	20.0
1,4-Dioxane	Ave	0.0048	0.0052		543	500	8.5	50.0
Bromodichloromethane	Ave	0.3055	0.3458	0.2000	28.3	25.0	13.2	20.0
2-Chloroethyl vinyl ether	Ave	0.1746	0.1281		18.4	25.0	-26.6*	20.0
cis-1,3-Dichloropropene	Ave	0.3468	0.3938	0.2000	28.4	25.0	13.6	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.5808	0.4675	0.1000	101	125	-19.5	20.0
Toluene	Ave	0.9402	0.8926	0.4000	23.7	25.0	-5.1	20.0
trans-1,3-Dichloropropene	Lin		0.4595	0.1000	25.3	25.0	1.1	20.0
Ethyl methacrylate	Ave	0.3974	0.4454		28.0	25.0	12.1	20.0
1,1,2-Trichloroethane	Ave	0.2958	0.2813	0.1000	23.8	25.0	-4.9	20.0
Tetrachloroethene	Ave	0.3573	0.3466	0.2000	24.3	25.0	-3.0	20.0
1,3-Dichloropropane	Ave	0.6300	0.5716		22.7	25.0	-9.3	20.0
2-Hexanone	Ave	0.4105	0.3409	0.1000	104	125	-17.0	20.0
Dibromochloromethane	Ave	0.2486	0.3346	0.1000	33.6	25.0	34.6*	20.0
1,2-Dibromoethane	Ave	0.2811	0.3223		28.7	25.0	14.6	20.0
Chlorobenzene	Ave	1.016	0.9721	0.5000	23.9	25.0	-4.3	20.0
Ethylbenzene	Ave	1.791	1.704	0.1000	23.8	25.0	-4.9	20.0
1,1,1,2-Tetrachloroethane	Lin		0.3112		28.8	25.0	15.1	20.0
m,p-Xylene	Ave	0.6601	0.6520	0.1000	24.7	25.0	-1.2	20.0
o-Xylene	Ave	0.6587	0.6444	0.3000	24.5	25.0	-2.2	20.0
Styrene	Ave	1.130	1.141	0.3000	25.2	25.0	1.0	20.0
Bromoform	Lin		0.1891	0.1000	30.2	25.0	20.7	50.0
Isopropylbenzene	Ave	3.417	3.229	0.1000	23.6	25.0	-5.5	20.0
Bromobenzene	Ave	0.7799	0.7482		24.0	25.0	-4.1	20.0
1,1,2,2-Tetrachloroethane	Ave	0.9064	0.8624	0.3000	23.8	25.0	-4.9	20.0
N-Propylbenzene	Ave	4.161	3.882		23.3	25.0	-6.7	20.0
1,2,3-Trichloropropane	Ave	0.2752	0.2603		23.6	25.0	-5.4	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.2491		20.4	25.0	-18.4	50.0
2-Chlorotoluene	Ave	0.7723	0.7192		23.3	25.0	-6.9	20.0
1,3,5-Trimethylbenzene	Ave	2.929	2.791		23.8	25.0	-4.7	20.0
4-Chlorotoluene	Ave	2.916	2.771		23.8	25.0	-5.0	20.0
tert-Butylbenzene	Ave	0.5767	0.5541		24.0	25.0	-3.9	20.0
1,2,4-Trimethylbenzene	Ave	3.010	2.912		24.2	25.0	-3.3	20.0
sec-Butylbenzene	Ave	3.722	3.512		23.6	25.0	-5.6	20.0
1,3-Dichlorobenzene	Ave	1.573	1.510	0.6000	24.0	25.0	-4.0	20.0
4-Isopropyltoluene	Ave	3.134	3.014		24.0	25.0	-3.8	20.0
1,4-Dichlorobenzene	Ave	1.617	1.552	0.5000	24.0	25.0	-4.0	20.0
n-Butylbenzene	Ave	2.990	2.861		23.9	25.0	-4.3	20.0
1,2-Dichlorobenzene	Ave	1.510	1.450	0.4000	24.0	25.0	-3.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-69812-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-211429/2 Calibration Date: 11/01/2014 09:12
 Instrument ID: HP5975T Calib Start Date: 10/09/2014 20:23
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 10/09/2014 22:47
 Lab File ID: T7131.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	Lin		0.1446	0.0500	28.0	25.0	11.9	50.0
1,2,4-Trichlorobenzene	Ave	0.9414	0.9479	0.2000	25.2	25.0	0.7	20.0
Hexachlorobutadiene	Ave	0.4741	0.4838		25.5	25.0	2.0	20.0
Naphthalene	Ave	2.570	2.395		23.3	25.0	-6.8	20.0
1,2,3-Trichlorobenzene	Ave	0.8814	0.8729		24.8	25.0	-1.0	20.0
Dibromofluoromethane (Surr)	Ave	0.2389	0.2506		26.2	25.0	4.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3221	0.3112		24.1	25.0	-3.4	20.0
Toluene-d8 (Surr)	Ave	1.335	1.332		24.9	25.0	-0.2	20.0
4-Bromofluorobenzene (Surr)	Ave	0.3595	0.3761		26.2	25.0	4.6	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20141101-36941.b\T7131.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 01-Nov-2014 09:12:30 ALS Bottle#: 94 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 480-0036941-002
 Operator ID: LH Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\Bufchrom\ChromData\HP5975T\20141101-36941.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Nov-2014 09:32:02 Calib Date: 09-Oct-2014 22:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T6148.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: HillL

Date: 01-Nov-2014 09:32:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.336	4.336	0.000	98	617324	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.626	6.626	0.000	88	431969	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.491	8.491	0.000	97	225785	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	3.869	3.869	0.000	93	154676	25.0	26.2	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.118	4.118	0.000	0	192079	25.0	24.1	
\$ 6 Toluene-d8 (Surr)	98	5.517	5.517	0.000	94	575487	25.0	24.9	
\$ 7 4-Bromofluorobenzene (Surr	174	7.559	7.559	0.000	86	162442	25.0	26.2	
11 Dichlorodifluoromethane	85	0.905	0.905	0.000	99	109502	25.0	19.2	
13 Chloromethane	50	1.019	1.019	0.000	99	191479	25.0	21.7	
14 Vinyl chloride	62	1.102	1.102	0.000	97	183258	25.0	22.4	
151 Butadiene	54	1.123	1.123	0.000	90	157592	25.0	18.9	
15 Bromomethane	94	1.320	1.320	0.000	92	74987	25.0	24.2	
16 Chloroethane	64	1.403	1.403	0.000	98	102688	25.0	25.5	
17 Trichlorofluoromethane	101	1.558	1.558	0.000	98	231354	25.0	26.2	
18 Dichlorofluoromethane	67	1.569	1.569	0.000	98	288384	25.0	27.4	
19 Ethyl ether	59	1.797	1.797	0.000	96	170564	25.0	23.5	
21 Acrolein	56	1.952	1.952	0.000	100	119579	125.0	123.5	
22 1,1-Dichloroethene	96	1.962	1.962	0.000	94	133756	25.0	24.8	
20 1,1,2-Trichloro-1,2,2-trif	101	1.973	1.973	0.000	94	130577	25.0	22.7	
23 Acetone	43	2.097	2.097	0.000	100	318863	125.0	107.6	
24 Iodomethane	142	2.108	2.108	0.000	79	224983	25.0	24.4	
25 Carbon disulfide	76	2.128	2.128	0.000	100	486721	25.0	23.9	
27 3-Chloro-1-propene	41	2.304	2.304	0.000	92	299658	25.0	24.0	
28 Methyl acetate	43	2.367	2.367	0.000	99	844329	125.0	109.5	
30 Methylene Chloride	84	2.429	2.429	0.000	98	166130	25.0	22.8	
31 2-Methyl-2-propanol	59	2.626	2.626	0.000	92	214488	250.0	262.4	
32 trans-1,2-Dichloroethene	96	2.636	2.636	0.000	72	159879	25.0	24.9	
33 Methyl tert-butyl ether	73	2.636	2.636	0.000	98	482133	25.0	23.8	
34 Acrylonitrile	53	2.698	2.698	0.000	99	785129	250.0	217.2	
35 Hexane	57	2.802	2.802	0.000	92	268818	25.0	22.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	2.999	2.999	0.000	96	322669	25.0	23.5	
39 Vinyl acetate	43	3.071	3.071	0.000	97	437465	50.0	57.4	
42 2,2-Dichloropropane	77	3.444	3.444	0.000	92	162651	25.0	29.9	
43 cis-1,2-Dichloroethene	96	3.475	3.475	0.000	82	176843	25.0	25.0	
44 2-Butanone (MEK)	43	3.527	3.527	0.000	99	485739	125.0	101.1	
47 Chlorobromomethane	128	3.662	3.662	0.000	94	84030	25.0	24.6	
48 Tetrahydrofuran	42	3.703	3.703	0.000	92	127503	50.0	38.7	
50 Chloroform	83	3.735	3.735	0.000	94	284373	25.0	23.9	
51 1,1,1-Trichloroethane	97	3.817	3.817	0.000	98	220825	25.0	27.4	
52 Cyclohexane	56	3.817	3.817	0.000	93	324782	25.0	22.0	
53 Carbon tetrachloride	117	3.931	3.931	0.000	97	182688	25.0	34.2	
54 1,1-Dichloropropene	75	3.942	3.942	0.000	96	200707	25.0	23.1	
55 Benzene	78	4.108	4.108	0.000	96	635692	25.0	23.8	
56 Isobutyl alcohol	43	4.170	4.170	0.000	95	212948	625.0	770.6	
57 1,2-Dichloroethane	62	4.170	4.170	0.000	96	239307	25.0	22.2	
59 n-Heptane	43	4.263	4.263	0.000	95	300243	25.0	21.2	
60 Trichloroethene	95	4.595	4.595	0.000	98	157791	25.0	23.7	
62 Methylcyclohexane	83	4.688	4.688	0.000	96	264530	25.0	23.5	
63 1,2-Dichloropropane	63	4.792	4.792	0.000	97	180420	25.0	23.4	
65 Dibromomethane	93	4.895	4.895	0.000	96	96856	25.0	23.0	
66 1,4-Dioxane	88	4.926	4.926	0.000	98	45239	500.0	542.5	
67 Dichlorobromomethane	83	5.020	5.020	0.000	99	213443	25.0	28.3	
69 2-Chloroethyl vinyl ether	63	5.258	5.258	0.000	91	79105	25.0	18.4	
71 cis-1,3-Dichloropropene	75	5.351	5.351	0.000	94	243081	25.0	28.4	
72 4-Methyl-2-pentanone (MIBK)	43	5.476	5.476	0.000	97	1009759	125.0	100.6	
73 Toluene	92	5.569	5.569	0.000	98	385561	25.0	23.7	
75 trans-1,3-Dichloropropene	75	5.786	5.786	0.000	95	198500	25.0	25.3	
77 Ethyl methacrylate	69	5.828	5.828	0.000	93	192376	25.0	28.0	
78 1,1,2-Trichloroethane	83	5.932	5.932	0.000	92	121527	25.0	23.8	
79 Tetrachloroethene	166	5.963	5.963	0.000	95	149724	25.0	24.3	
80 1,3-Dichloropropane	76	6.046	6.046	0.000	94	246894	25.0	22.7	
81 2-Hexanone	43	6.108	6.108	0.000	98	736304	125.0	103.8	
82 Chlorodibromomethane	129	6.222	6.222	0.000	90	144521	25.0	33.6	
83 Ethylene Dibromide	107	6.294	6.294	0.000	98	139211	25.0	28.7	
86 Chlorobenzene	112	6.647	6.647	0.000	93	419899	25.0	23.9	
88 Ethylbenzene	91	6.719	6.719	0.000	99	735892	25.0	23.8	
89 1,1,1,2-Tetrachloroethane	131	6.729	6.729	0.000	44	134439	25.0	28.8	
90 m-Xylene & p-Xylene	106	6.812	6.812	0.000	0	281638	25.0	24.7	
91 o-Xylene	106	7.134	7.134	0.000	98	278367	25.0	24.5	
92 Styrene	104	7.154	7.154	0.000	96	492675	25.0	25.2	
93 Bromoform	173	7.331	7.331	0.000	95	81683	25.0	30.2	
95 Isopropylbenzene	105	7.413	7.413	0.000	96	729165	25.0	23.6	
97 Bromobenzene	156	7.673	7.673	0.000	97	168926	25.0	24.0	
98 1,1,2,2-Tetrachloroethane	83	7.724	7.724	0.000	92	194713	25.0	23.8	
99 N-Propylbenzene	91	7.745	7.745	0.000	99	876455	25.0	23.3	
100 1,2,3-Trichloropropane	110	7.755	7.755	0.000	88	58764	25.0	23.6	
101 trans-1,4-Dichloro-2-buten	53	7.766	7.766	0.000	78	56243	25.0	20.4	
105 2-Chlorotoluene	126	7.818	7.818	0.000	95	162380	25.0	23.3	
104 1,3,5-Trimethylbenzene	105	7.890	7.890	0.000	94	630261	25.0	23.8	
102 4-Chlorotoluene	91	7.911	7.911	0.000	99	625635	25.0	23.8	
106 tert-Butylbenzene	134	8.149	8.149	0.000	94	125101	25.0	24.0	
107 1,2,4-Trimethylbenzene	105	8.191	8.191	0.000	97	657479	25.0	24.2	

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	8.325	8.325	0.000	95	792905	25.0	23.6	
110 1,3-Dichlorobenzene	146	8.429	8.429	0.000	97	340909	25.0	24.0	
111 4-Isopropyltoluene	119	8.439	8.439	0.000	97	680565	25.0	24.0	
113 1,4-Dichlorobenzene	146	8.502	8.502	0.000	95	350481	25.0	24.0	
115 n-Butylbenzene	91	8.781	8.781	0.000	98	645867	25.0	23.9	
116 1,2-Dichlorobenzene	146	8.812	8.812	0.000	97	327436	25.0	24.0	
117 1,2-Dibromo-3-Chloropropan	75	9.476	9.476	0.000	79	32646	25.0	28.0	
119 1,2,4-Trichlorobenzene	180	10.118	10.118	0.000	94	214016	25.0	25.2	
120 Hexachlorobutadiene	225	10.232	10.232	0.000	97	109231	25.0	25.5	
121 Naphthalene	128	10.336	10.336	0.000	97	540820	25.0	23.3	
122 1,2,3-Trichlorobenzene	180	10.533	10.533	0.000	96	197089	25.0	24.8	
S 123 1,3-Dichloropropene, Total	1				0			53.7	
S 124 1,2-Dichloroethene, Total	1				0			49.9	
S 125 Total BTEX	1				0			120.4	
S 126 Xylenes, Total	1				0			49.1	

Reagents:

GAS CORP mix_00054	Amount Added: 12.50	Units: uL	
8260 CORP mix_00023	Amount Added: 12.50	Units: uL	
T_8260_IS_00087	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_Surr_00082	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20141101-36941.b\T7131.D

Injection Date: 01-Nov-2014 09:12:30

Instrument ID: HP5975T

Lims ID: CCVIS

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

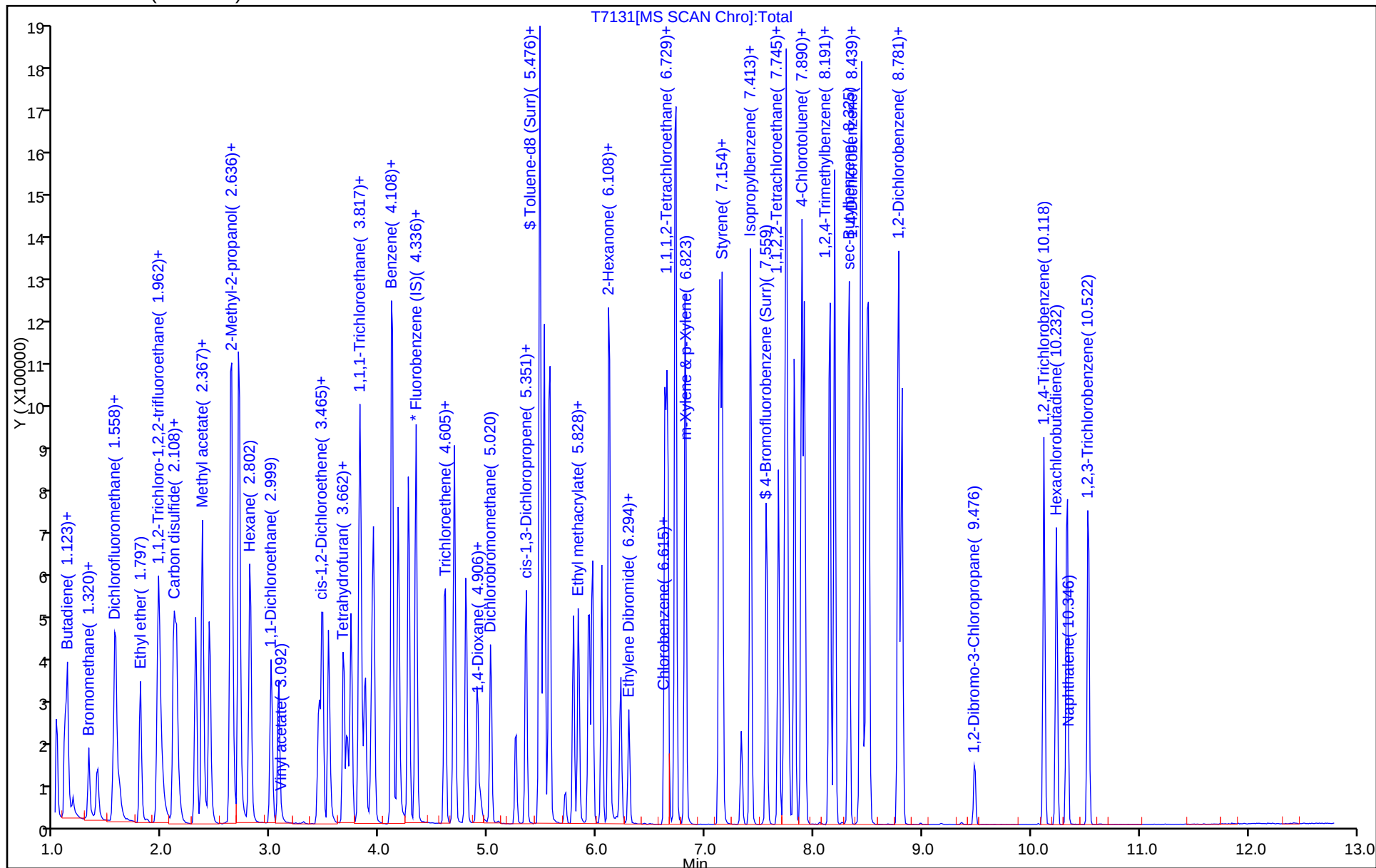
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Operator ID: LH

Worklist Smp#: 2

ALS Bottle#: 94



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-69812-1

SDG No.: _____

Lab Sample ID: CCV 480-211429/3 Calibration Date: 11/01/2014 09:48

Instrument ID: HP5975T Calib Start Date: 09/21/2014 17:25

GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 09/21/2014 19:49

Lab File ID: T7132.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	Lin		0.0932		13.7	25.0	-45.1*	20.0
Ethanol	Lin1		0.0048		1300	1250	4.4	20.0
Isopropyl alcohol	Ave	0.0326	0.0243		186	250	-25.5*	20.0
Acetonitrile	Ave	0.0288	0.0235		204	250	-18.5	20.0
Isopropyl ether	Ave	1.141	1.146		25.1	25.0	0.5	20.0
Chloroprene	Ave	0.5147	0.5044		24.5	25.0	-2.0	20.0
1,1-Dimethoxyethane	Ave	0.0619	0.0255		51.5	125	-58.8*	20.0
Tert-butyl ethyl ether	Ave	1.033	0.9945		24.1	25.0	-3.7	20.0
Ethyl acetate	Ave	0.2633	0.2957		56.1	50.0	12.3	20.0
Propionitrile	Ave	0.0566	0.0522		230	250	-7.8	20.0
Methacrylonitrile	Ave	0.2516	0.2152		214	250	-14.5	20.0
Isooctane	Ave	1.087	1.131		26.0	25.0	4.1	20.0
Tert-amyl methyl ether	Ave	0.9803	0.9556		24.4	25.0	-2.5	20.0
t-Amyl alcohol	Ave	0.0349	0.0297		212	250	-15.1	50.0
1,4-Difluorobenzene	Ave	0.7621	0.7592		24.9	25.0	-0.4	20.0
n-Butanol	Lin		0.0192		214	250	-14.2	20.0
Ethyl acrylate	Ave	1.073	0.4113		9.58	25.0	-61.7*	20.0
Methyl methacrylate	Ave	0.3354	0.2767		41.2	50.0	-17.5	20.0
2-Nitropropane	Ave	0.1452	0.1305		45.0	50.0	-10.1	20.0
Epichlorohydrin	Ave	0.0382	0.0328		215	250	-14.2	20.0
2-Methylthiophene	Ave	1.948	2.461		31.6	25.0	26.4*	20.0
3-Methylthiophene	Ave	1.651	2.611		39.5	25.0	58.1*	20.0
n-Butyl acetate	Ave	0.6497	0.6629	0.1000	25.5	25.0	2.0	20.0
1-Chlorohexane	Lin1		0.4496		24.6	25.0	-1.7	20.0
3-Chlorobenzotrifluoride	Ave	1.025	0.9549		23.3	25.0	-6.9	20.0
4-Chlorobenzotrifluoride	Ave	0.9211	0.9723		26.4	25.0	5.6	20.0
2-Chlorobenzotrifluoride	Ave	1.006	0.9673		24.0	25.0	-3.9	20.0
Cyclohexanone	Ave	0.0448	0.0354		198	250	-21.0*	20.0
3-Chlorotoluene	Ave	0.8099	0.8352		25.8	25.0	3.1	20.0
Pentachloroethane	Ave	0.3159	0.3810		30.2	25.0	20.6*	20.0
Dicyclopentadiene	Ave	4.183	3.756		22.4	25.0	-10.2	20.0
1,2,3-Trimethylbenzene	Ave	3.171	3.172		25.0	25.0	0.0	20.0
Benzyl chloride	Ave	0.1301	0.1085		20.8	25.0	-16.6	20.0
1,3,5-Trichlorobenzene	Ave	1.133	1.121		24.7	25.0	-1.1	20.0
2-Methylnaphthalene	Ave	1.132	1.174		25.9	25.0	3.7	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20141101-36941.b\T7132.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 01-Nov-2014 09:48:30 ALS Bottle#: 95 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCV
 Misc. Info.: 480-0036941-003
 Operator ID: LH Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub57
 Method: \\Bufchrom\ChromData\HP5975T\20141101-36941.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Nov-2014 10:48:42 Calib Date: 09-Oct-2014 22:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T6148.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: HillL

Date: 01-Nov-2014 10:48:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.335	4.335	0.000	98	611733	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.626	6.626	0.000	90	425171	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.491	8.491	0.000	97	220538	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	3.869	3.869	0.000	92	149990	25.0	25.7	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.118	4.118	0.000	0	193214	25.0	24.5	
\$ 6 Toluene-d8 (Surr)	98	5.517	5.517	0.000	94	565838	25.0	24.9	
\$ 7 4-Bromofluorobenzene (Surr	174	7.558	7.558	0.000	84	161513	25.0	26.4	
12 Chlorodifluoromethane	51	0.926	0.926	0.000	97	57023	25.0	13.7	
148 Ethanol	45	1.817	1.817	0.000	99	145445	1250.0	1304.4	
84 Propene oxide	58	1.869	1.869	0.000	96	242126	NC	NC	
26 Isopropyl alcohol	45	2.284	2.284	0.000	98	148771	250.0	186.3	
29 Acetonitrile	40	2.377	2.377	0.000	99	143483	250.0	203.6	
37 Isopropyl ether	45	3.030	3.030	0.000	96	701328	25.0	25.1	
38 2-Chloro-1,3-butadiene	53	3.050	3.050	0.000	93	308559	25.0	24.5	
40 1,1-Dimethoxyethane	75	3.102	3.102	0.000	98	78000	125.0	51.5	
41 Tert-butyl ethyl ether	59	3.320	3.320	0.000	99	608394	25.0	24.1	
45 Ethyl acetate	43	3.558	3.558	0.000	99	361737	50.0	56.1	
46 Propionitrile	54	3.620	3.620	0.000	100	319340	250.0	230.5	
49 Methacrylonitrile	41	3.693	3.693	0.000	95	1316560	250.0	213.9	
152 Isooctane	57	4.107	4.107	0.000	96	691839	25.0	26.0	
58 Tert-amyl methyl ether	73	4.190	4.190	0.000	95	584545	25.0	24.4	
147 t-Amyl alcohol	59	4.211	4.211	0.000	74	181428	250.0	212.2	
1 1,4-Difluorobenzene	114	4.429	4.429	0.000	96	464421	25.0	24.9	
61 n-Butanol	56	4.667	4.667	0.000	88	117465	250.0	214.4	
142 Ethyl acrylate	55	4.729	4.729	0.000	98	251586	25.0	9.58	
64 Methyl methacrylate	41	4.895	4.895	0.000	96	338488	50.0	41.2	
68 2-Nitropropane	43	5.237	5.237	0.000	99	57575	50.0	45.0	
70 Epichlorohydrin	57	5.320	5.320	0.000	99	200463	250.0	214.6	
74 2-Methylthiophene	97	5.672	5.672	0.000	97	542775	25.0	31.6	
76 3-Methylthiophene	97	5.797	5.797	0.000	100	575876	25.0	39.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
155 n-Butyl acetate	43	6.190	6.190	0.000	0	281827	25.0	25.5	
146 1-Chlorohexane	55	6.626	6.626	0.000	91	191167	25.0	24.6	
85 3-Chlorobenzotrifluoride	180	6.636	6.636	0.000	92	210592	25.0	23.3	
87 4-Chlorobenzotrifluoride	180	6.688	6.688	0.000	96	214424	25.0	26.4	
94 2-Chlorobenzotrifluoride	180	7.361	7.361	0.000	94	213327	25.0	24.0	
96 Cyclohexanone	55	7.558	7.558	0.000	93	78079	250.0	197.5	
103 3-Chlorotoluene	126	7.880	7.880	0.000	97	184185	25.0	25.8	
108 Pentachloroethane	167	8.191	8.191	0.000	86	84030	25.0	30.2	
112 Dicyclopentadiene	66	8.481	8.481	0.000	97	828237	25.0	22.4	
114 1,2,3-Trimethylbenzene	105	8.533	8.533	0.000	99	699464	25.0	25.0	
150 Benzyl chloride	126	8.636	8.636	0.000	99	46112	25.0	20.8	
118 1,3,5-Trichlorobenzene	180	9.600	9.600	0.000	96	247167	25.0	24.7	
149 2-Methylnaphthalene	142	11.237	11.237	0.000	92	258934	25.0	25.9	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

ADD CORP mix_00014	Amount Added: 12.50	Units: uL	
2MTP_WRK_00036	Amount Added: 12.50	Units: uL	
3MTP_WRK_00039	Amount Added: 12.50	Units: uL	
T_8260_IS_00087	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_Surr_00082	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20141101-36941.b\T7132.D

Injection Date: 01-Nov-2014 09:48:30

Instrument ID: HP5975T

Operator ID: LH

Lims ID: CCV

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

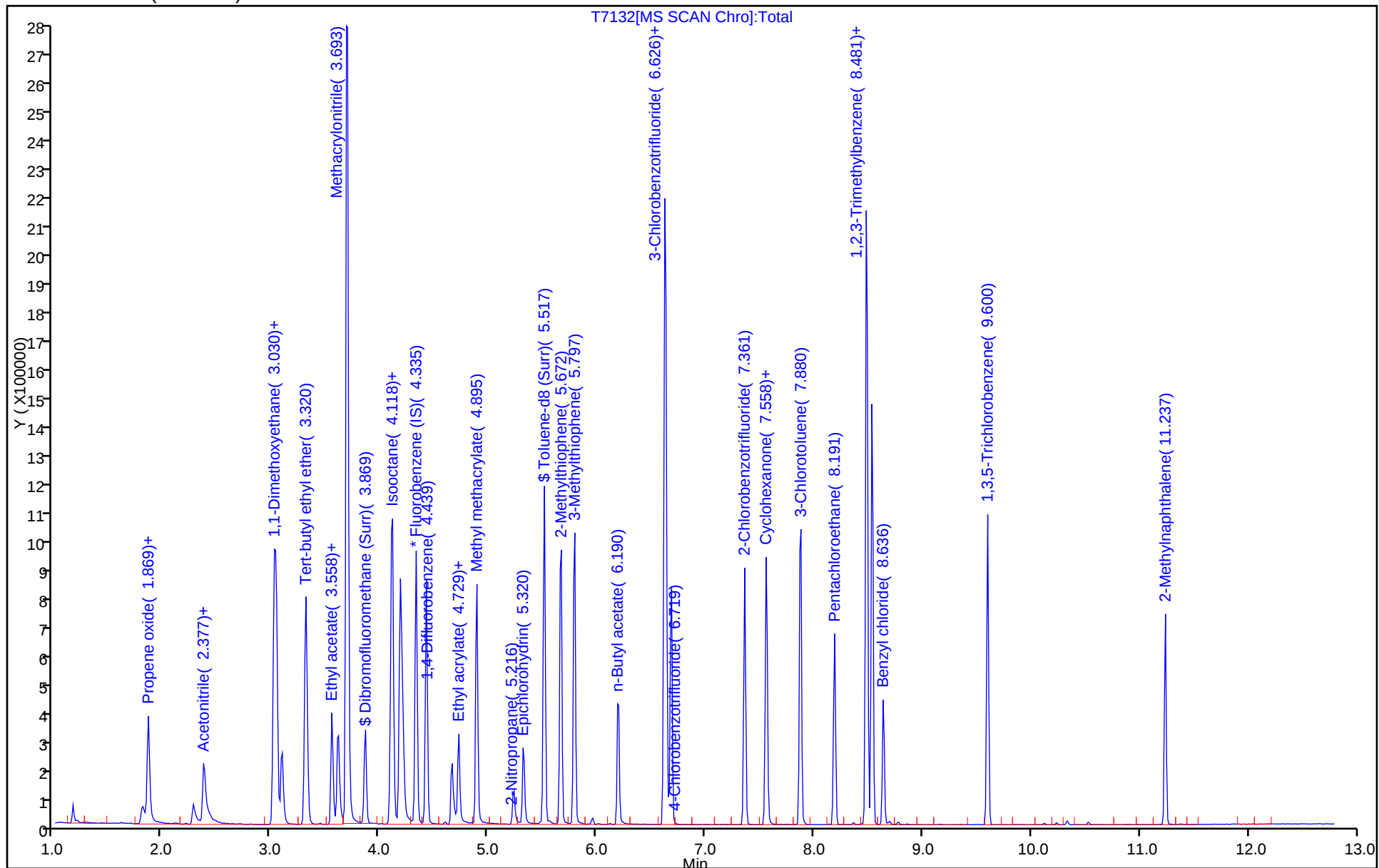
Dil. Factor: 1.0000

ALS Bottle#: 95

Method: T-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.: 480-69812-1
SDG No.: _____
Lab Sample ID: CCV 480-211429/3 Calibration Date: 11/01/2014 09:48
Instrument ID: HP5975T Calib Start Date: 10/09/2014 20:23
GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 10/09/2014 22:47
Lab File ID: T7132.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	0.2389	0.2452		25.7	25.0	2.6	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3221	0.3159		24.5	25.0	-1.9	20.0
Toluene-d8 (Surr)	Ave	1.335	1.331		24.9	25.0	-0.3	20.0
4-Bromofluorobenzene (Surr)	Ave	0.3595	0.3799		26.4	25.0	5.7	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20141101-36941.b\T7132.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 01-Nov-2014 09:48:30 ALS Bottle#: 95 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCV
 Misc. Info.: 480-0036941-003
 Operator ID: LH Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub57
 Method: \\Bufchrom\ChromData\HP5975T\20141101-36941.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Nov-2014 10:48:42 Calib Date: 09-Oct-2014 22:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T6148.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: HillL

Date: 01-Nov-2014 10:48:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.335	4.335	0.000	98	611733	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.626	6.626	0.000	90	425171	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.491	8.491	0.000	97	220538	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	3.869	3.869	0.000	92	149990	25.0	25.7	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.118	4.118	0.000	0	193214	25.0	24.5	
\$ 6 Toluene-d8 (Surr)	98	5.517	5.517	0.000	94	565838	25.0	24.9	
\$ 7 4-Bromofluorobenzene (Surr	174	7.558	7.558	0.000	84	161513	25.0	26.4	
12 Chlorodifluoromethane	51	0.926	0.926	0.000	97	57023	25.0	13.7	
148 Ethanol	45	1.817	1.817	0.000	99	145445	1250.0	1304.4	
84 Propene oxide	58	1.869	1.869	0.000	96	242126	NC	NC	
26 Isopropyl alcohol	45	2.284	2.284	0.000	98	148771	250.0	186.3	
29 Acetonitrile	40	2.377	2.377	0.000	99	143483	250.0	203.6	
37 Isopropyl ether	45	3.030	3.030	0.000	96	701328	25.0	25.1	
38 2-Chloro-1,3-butadiene	53	3.050	3.050	0.000	93	308559	25.0	24.5	
40 1,1-Dimethoxyethane	75	3.102	3.102	0.000	98	78000	125.0	51.5	
41 Tert-butyl ethyl ether	59	3.320	3.320	0.000	99	608394	25.0	24.1	
45 Ethyl acetate	43	3.558	3.558	0.000	99	361737	50.0	56.1	
46 Propionitrile	54	3.620	3.620	0.000	100	319340	250.0	230.5	
49 Methacrylonitrile	41	3.693	3.693	0.000	95	1316560	250.0	213.9	
152 Isooctane	57	4.107	4.107	0.000	96	691839	25.0	26.0	
58 Tert-amyl methyl ether	73	4.190	4.190	0.000	95	584545	25.0	24.4	
147 t-Amyl alcohol	59	4.211	4.211	0.000	74	181428	250.0	212.2	
1 1,4-Difluorobenzene	114	4.429	4.429	0.000	96	464421	25.0	24.9	
61 n-Butanol	56	4.667	4.667	0.000	88	117465	250.0	214.4	
142 Ethyl acrylate	55	4.729	4.729	0.000	98	251586	25.0	9.58	
64 Methyl methacrylate	41	4.895	4.895	0.000	96	338488	50.0	41.2	
68 2-Nitropropane	43	5.237	5.237	0.000	99	57575	50.0	45.0	
70 Epichlorohydrin	57	5.320	5.320	0.000	99	200463	250.0	214.6	
74 2-Methylthiophene	97	5.672	5.672	0.000	97	542775	25.0	31.6	
76 3-Methylthiophene	97	5.797	5.797	0.000	100	575876	25.0	39.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
155 n-Butyl acetate	43	6.190	6.190	0.000	0	281827	25.0	25.5	
146 1-Chlorohexane	55	6.626	6.626	0.000	91	191167	25.0	24.6	
85 3-Chlorobenzotrifluoride	180	6.636	6.636	0.000	92	210592	25.0	23.3	
87 4-Chlorobenzotrifluoride	180	6.688	6.688	0.000	96	214424	25.0	26.4	
94 2-Chlorobenzotrifluoride	180	7.361	7.361	0.000	94	213327	25.0	24.0	
96 Cyclohexanone	55	7.558	7.558	0.000	93	78079	250.0	197.5	
103 3-Chlorotoluene	126	7.880	7.880	0.000	97	184185	25.0	25.8	
108 Pentachloroethane	167	8.191	8.191	0.000	86	84030	25.0	30.2	
112 Dicyclopentadiene	66	8.481	8.481	0.000	97	828237	25.0	22.4	
114 1,2,3-Trimethylbenzene	105	8.533	8.533	0.000	99	699464	25.0	25.0	
150 Benzyl chloride	126	8.636	8.636	0.000	99	46112	25.0	20.8	
118 1,3,5-Trichlorobenzene	180	9.600	9.600	0.000	96	247167	25.0	24.7	
149 2-Methylnaphthalene	142	11.237	11.237	0.000	92	258934	25.0	25.9	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

ADD CORP mix_00014	Amount Added: 12.50	Units: uL	
2MTP_WRK_00036	Amount Added: 12.50	Units: uL	
3MTP_WRK_00039	Amount Added: 12.50	Units: uL	
T_8260_IS_00087	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_Surr_00082	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20141101-36941.b\T7132.D

Injection Date: 01-Nov-2014 09:48:30

Instrument ID: HP5975T

Operator ID: LH

Lims ID: CCV

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

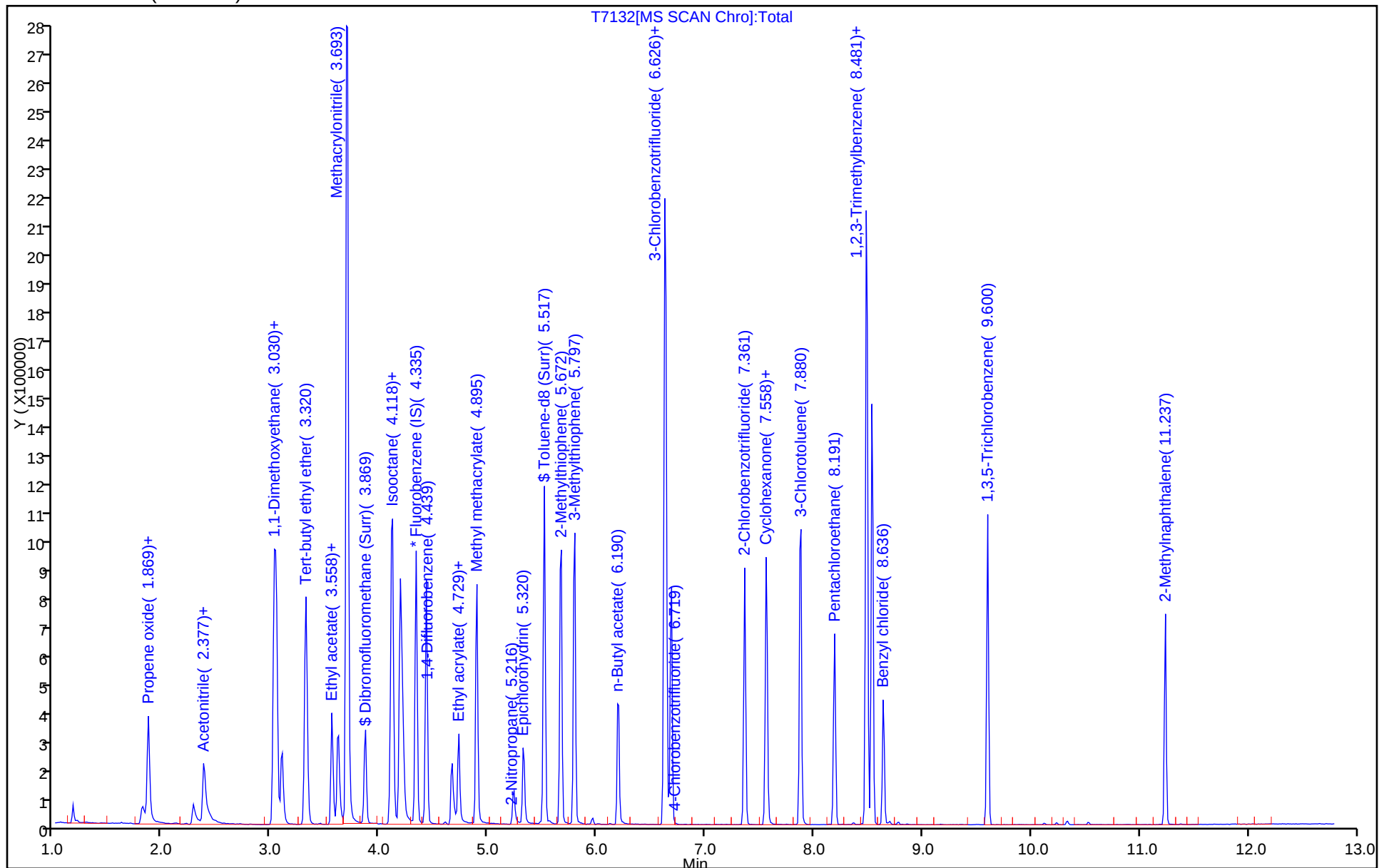
Dil. Factor: 1.0000

ALS Bottle#: 95

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140921-35561.b\T5597.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 21-Sep-2014 12:30:30 ALS Bottle#: 36 Worklist Smp#: 29
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 480-0035561-029
 Operator ID: LH Instrument ID: HP5975T
 Method: \\Bufchrom\ChromData\HP5975T\20140921-35561.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 22-Sep-2014 22:58:36 Calib Date: 21-Sep-2014 19:49:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5975T\20140921-35561.b\T5615.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: HillL

Date: 21-Sep-2014 12:42:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.852	4.852	0.000	36	19331	25.0	25.0	s
* 2 Chlorobenzene-d5	117		6.636					0	
* 3 1,4-Dichlorobenzene-d4	152		8.491					0	
\$ 154 Dibromofluoromethane (Surr	113		3.869					ND	
\$ 4 1,2-Dichloroethane-d4 (Sur	65		4.118					ND	
\$ 6 Toluene-d8 (Surr)	98		5.517					ND	
\$ 7 4-Bromofluorobenzene (Surr	174		7.569					ND	
\$ 5 BFB	95	4.852	4.852	0.000	80	295407	NR	NR	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

ND - Not Detected or Marked ND

7 - Failed Limit of Detection

s - Failed ISTD Recovery Test

Reagents:

BFB_WRK_00036	Amount Added: 1.00	Units: uL	
T_8260_IS_00086	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_Surr_00081	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140921-35561.b\T5597.D

Injection Date: 21-Sep-2014 12:30:30

Instrument ID: HP5975T

Lims ID: BFB

Client ID:

Operator ID: LH

ALS Bottle#: 36 Worklist Smp#: 29

Injection Vol: 1.0 uL

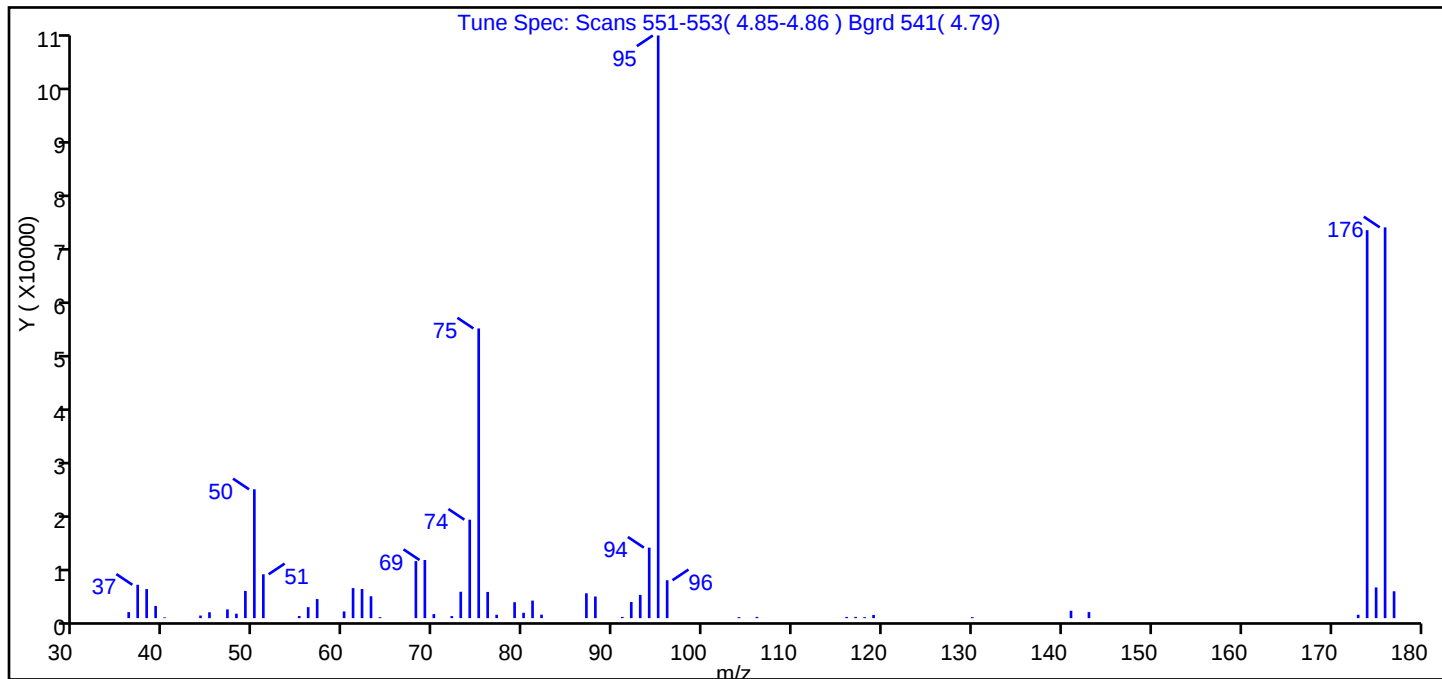
Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Tune Method: BFB Method 8260

\$ 5 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.10
75	30.00 - 60.00% of mass 95	49.70
96	5.00 - 9.00% of mass 95	6.50
173	Less than 2.00% of mass 174	0.60 (0.90)
174	50.00 - 120.00% of mass 95	66.60
175	5.00 - 9.00% of mass 174	5.30 (7.90)
176	95.00 - 101.00% of mass 174	67.10 (100.70)
177	5.00 - 9.00% of mass 176	4.60 (6.90)

Data File: \\Bufchrom\ChromData\HP5975T\20140921-35561.b\T5597.D\T-8260.rslt\spectra.d
Injection Date: 21-Sep-2014 12:30:30
Spectrum: Tune Spec: Scans 551-553(4.85-4.86) Bgrd 541(4.79)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 55

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1055	57.00	3332	77.00	589	106.00	223
37.00	5827	60.00	1170	79.00	2785	116.00	212
38.00	5081	61.00	5248	80.00	933	117.00	220
39.00	2128	62.00	5087	81.00	3064	118.00	180
40.00	134	63.00	3825	82.00	607	119.00	554
44.00	453	64.00	173	87.00	4343	130.00	183
45.00	1030	68.00	9962	88.00	3778	141.00	1288
47.00	1526	69.00	10147	91.00	216	143.00	1055
48.00	777	70.00	712	92.00	2815	173.00	584
49.00	4752	72.00	361	93.00	4056	174.00	67744
50.00	22496	73.00	4612	94.00	12310	175.00	5368
51.00	7660	74.00	17192	95.00	101736	176.00	68232
55.00	374	75.00	50584	96.00	6620	177.00	4694
56.00	1919	76.00	4577	104.00	188		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T6140.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 09-Oct-2014 19:07:30 ALS Bottle#: 26 Worklist Smp#: 5
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0036177-005
Operator ID: gtg Instrument ID: HP5975T
Method: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Oct-2014 01:53:39 Calib Date: 09-Oct-2014 22:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T6148.D
Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: goliszekg

Date: 09-Oct-2014 19:43:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
\$ 5 BFB	95	4.870	4.870	0.000	80	328908	NR	NR	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Reagents:

BFB_WRK_00037

Amount Added: 1.00

Units: uL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T6140.D

Injection Date: 09-Oct-2014 19:07:30

Instrument ID: HP5975T

Lims ID: BFB

Client ID:

Operator ID: gtg

ALS Bottle#: 26 Worklist Smp#: 5

Injection Vol: 1.0 uL

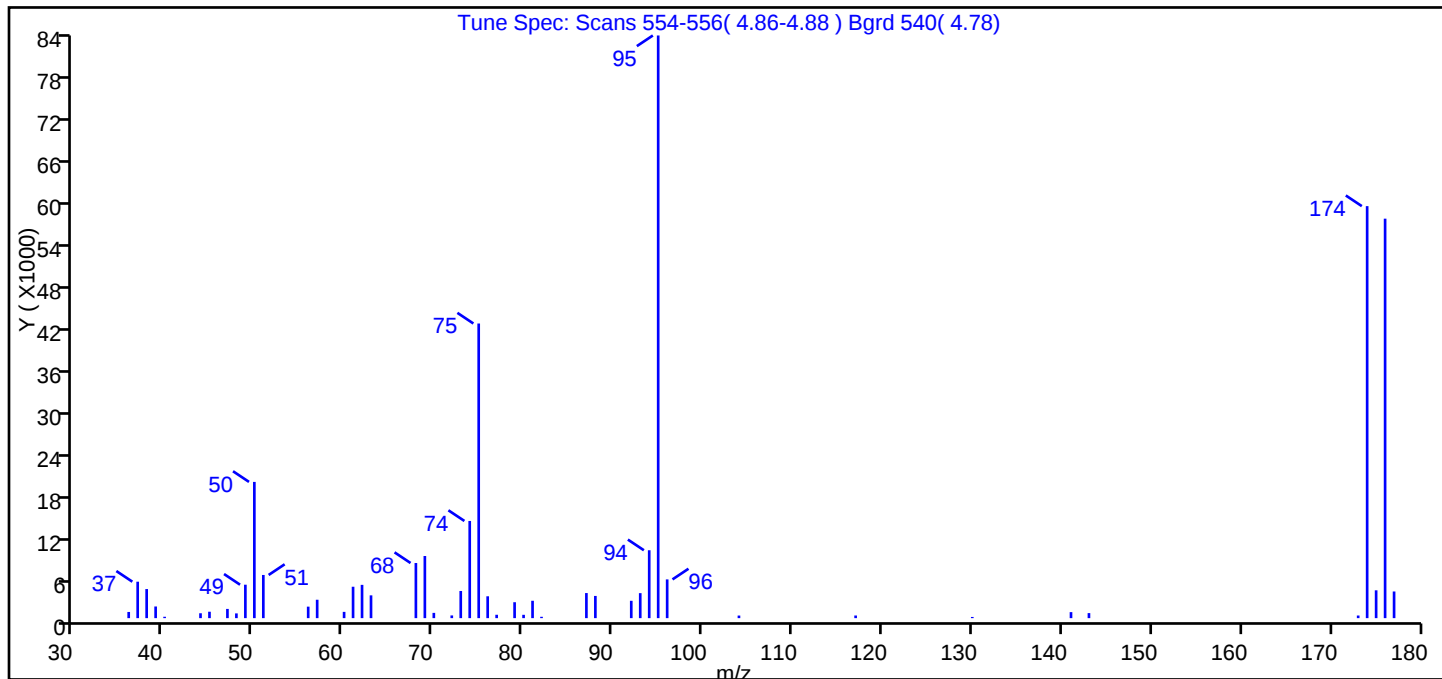
Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Tune Method: BFB Method 8260

\$ 5 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	23.40
75	30.00 - 60.00% of mass 95	50.60
96	5.00 - 9.00% of mass 95	6.60
173	Less than 2.00% of mass 174	0.50 (0.60)
174	50.00 - 120.00% of mass 95	70.70
175	5.00 - 9.00% of mass 174	4.80 (6.80)
176	95.00 - 101.00% of mass 174	68.60 (97.00)
177	5.00 - 9.00% of mass 176	4.60 (6.70)

Data File: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T6140.D\T-8260.rslt\spectra.d
Injection Date: 09-Oct-2014 19:07:30
Spectrum: Tune Spec: Scans 554-556(4.86-4.88) Bgrd 540(4.78)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 48

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	884	56.00	1644	75.00	42112	95.00	83280
37.00	5208	57.00	2630	76.00	3124	96.00	5537
38.00	4157	60.00	896	77.00	482	104.00	371
39.00	1666	61.00	4489	79.00	2276	117.00	378
40.00	197	62.00	4757	80.00	477	130.00	169
44.00	698	63.00	3257	81.00	2483	141.00	860
45.00	917	68.00	7879	82.00	194	143.00	720
47.00	1318	69.00	8882	87.00	3585	173.00	376
48.00	678	70.00	753	88.00	3174	174.00	58888
49.00	4780	72.00	388	92.00	2479	175.00	3977
50.00	19472	73.00	3881	93.00	3573	176.00	57096
51.00	6172	74.00	13890	94.00	9704	177.00	3810

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20141101-36941.b\T7130.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 01-Nov-2014 08:49:30 ALS Bottle#: 93 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0036941-001
Operator ID: LH Instrument ID: HP5975T
Method: \\Bufchrom\ChromData\HP5975T\20141101-36941.b\T-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 01-Nov-2014 08:57:21 Calib Date: 09-Oct-2014 22:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T6148.D
Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: HillL

Date: 01-Nov-2014 08:57:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
\$ 5 BFB	95	4.840	4.840	0.000	82	222853	NR	NR	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Reagents:

BFB_WRK_00037

Amount Added: 1.00

Units: uL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20141101-36941.b\T7130.D

Injection Date: 01-Nov-2014 08:49:30

Instrument ID: HP5975T

Lims ID: BFB

Client ID:

Operator ID: LH

ALS Bottle#: 93

Worklist Smp#: 1

Injection Vol: 1.0 uL

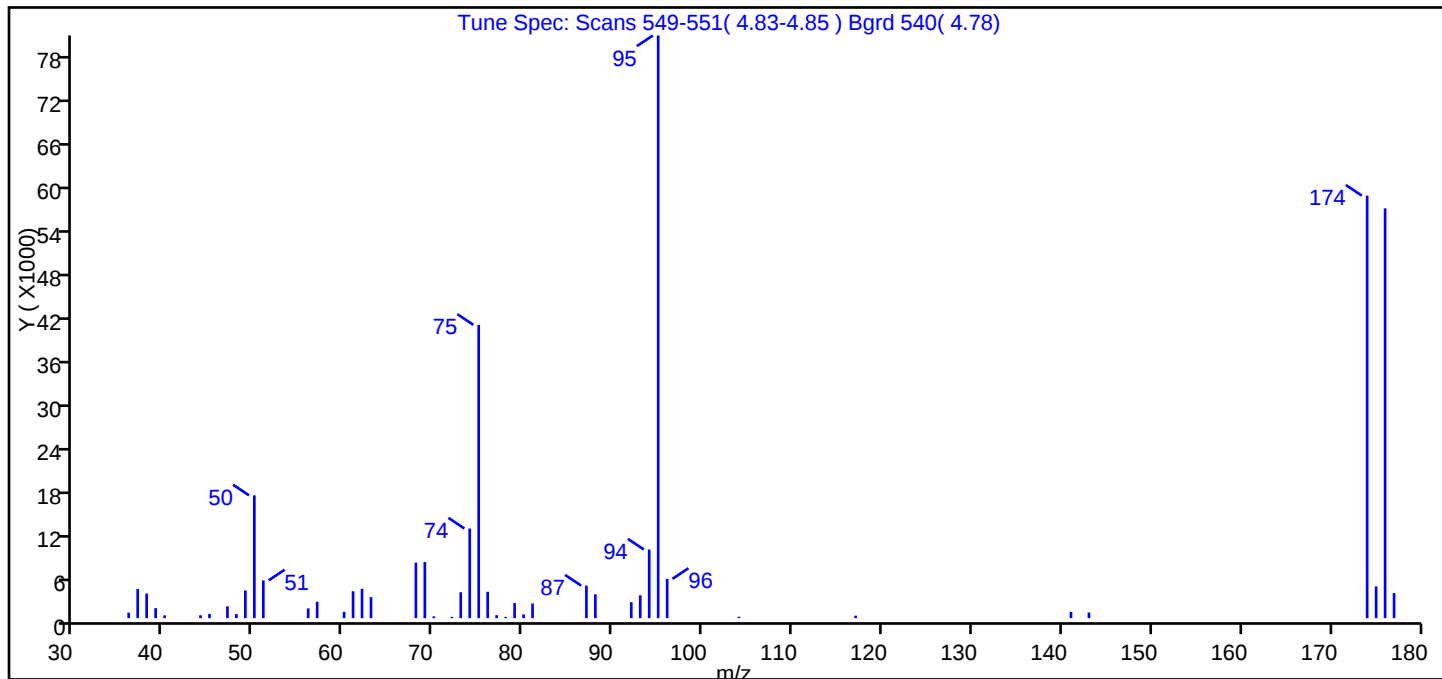
Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Tune Method: BFB Method 8260

\$ 5 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.10
75	30.00 - 60.00% of mass 95	50.30
96	5.00 - 9.00% of mass 95	6.70
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	72.50
175	5.00 - 9.00% of mass 174	5.50 (7.50)
176	95.00 - 101.00% of mass 174	70.30 (97.00)
177	5.00 - 9.00% of mass 176	4.30 (6.10)

Data File: \\Bufchrom\ChromData\HP5975T\20141101-36941.b\T7130.D\T-8260.rslt\spectra.d

Injection Date: 01-Nov-2014 08:49:30

Spectrum: Tune Spec: Scans 549-551(4.83-4.85) Bgrd 540(4.78)

Base Peak: 95.00

Minimum % Base Peak: 0

Number of Points: 46

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	759	56.00	1349	75.00	40496	95.00	80448
37.00	4009	57.00	2261	76.00	3639	96.00	5426
38.00	3392	60.00	874	77.00	412	104.00	192
39.00	1385	61.00	3713	78.00	170	117.00	340
40.00	386	62.00	4049	79.00	2085	141.00	866
44.00	400	63.00	2897	80.00	518	143.00	779
45.00	585	68.00	7660	81.00	2026	174.00	58336
47.00	1628	69.00	7749	87.00	4497	175.00	4386
48.00	559	70.00	244	88.00	3293	176.00	56576
49.00	3826	72.00	170	92.00	2200	177.00	3465
50.00	16952	73.00	3580	93.00	3163		
51.00	5215	74.00	12374	94.00	9472		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-69812-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 480-211429/6

Matrix: Water Lab File ID: T7135.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 11/01/2014 10:59

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.: 211429 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
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
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
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39
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
526-73-8	1,2,3-Trimethylbenzene	1.0	U	1.0	0.26
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)	10	U	10	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	10	U	10	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
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32
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
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-69812-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 480-211429/6

Matrix: Water Lab File ID: T7135.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 11/01/2014 10:59

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.: 211429 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
2037-26-5	Toluene-d8 (Surr)	99		71-126
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		66-137
460-00-4	4-Bromofluorobenzene (Surr)	103		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20141101-36941.b\T7135.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 01-Nov-2014 10:59:30 ALS Bottle#: 98 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 480-0036941-006
 Operator ID: LH Instrument ID: HP5975T
 Method: \\Bufchrom\ChromData\HP5975T\20141101-36941.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Nov-2014 11:18:30 Calib Date: 09-Oct-2014 22:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T6148.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: HillL

Date: 01-Nov-2014 11:18:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.331	4.335	-0.004	98	586454	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.632	6.626	0.006	88	421865	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.487	8.491	-0.004	97	209983	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	3.865	3.869	-0.004	92	146387	25.0	26.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.113	4.118	-0.005	0	185781	25.0	24.6	
\$ 6 Toluene-d8 (Surr)	98	5.512	5.517	-0.005	94	556206	25.0	24.7	
\$ 7 4-Bromofluorobenzene (Surr	174	7.564	7.558	0.006	85	156224	25.0	25.8	
11 Dichlorodifluoromethane	85		0.905					ND	
12 Chlorodifluoromethane	51		0.926					ND	
13 Chloromethane	50		1.019					ND	
14 Vinyl chloride	62		1.102					ND	
151 Butadiene	54		1.123					ND	
15 Bromomethane	94		1.320					ND	
16 Chloroethane	64		1.403					ND	
17 Trichlorofluoromethane	101		1.558					ND	
18 Dichlorofluoromethane	67		1.569					ND	
19 Ethyl ether	59		1.797					ND	
148 Ethanol	45		1.817					ND	
84 Propene oxide	58		1.869					ND	
21 Acrolein	56		1.952					ND	
22 1,1-Dichloroethene	96		1.962					ND	
20 1,1,2-Trichloro-1,2,2-trif	101		1.973					ND	
23 Acetone	43		2.097					ND	
24 Iodomethane	142		2.108					ND	
25 Carbon disulfide	76		2.128					ND	
26 Isopropyl alcohol	45		2.284					ND	
27 3-Chloro-1-propene	41		2.304					ND	
28 Methyl acetate	43		2.367					ND	
29 Acetonitrile	40		2.377					ND	
30 Methylene Chloride	84		2.429					ND	
31 2-Methyl-2-propanol	59		2.626					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
32 trans-1,2-Dichloroethene	96		2.636					ND	
33 Methyl tert-butyl ether	73		2.636					ND	
34 Acrylonitrile	53		2.698					ND	
35 Hexane	57		2.802					ND	
36 1,1-Dichloroethane	63		2.999					ND	
37 Isopropyl ether	45		3.030					ND	
38 2-Chloro-1,3-butadiene	53		3.050					ND	
139 Halothane	117		3.061					ND	
39 Vinyl acetate	43		3.071					ND	
40 1,1-Dimethoxyethane	75		3.102					ND	
41 Tert-butyl ethyl ether	59		3.320					ND	
42 2,2-Dichloropropane	77		3.444					ND	
43 cis-1,2-Dichloroethene	96		3.475					ND	
44 2-Butanone (MEK)	43		3.527					ND	
45 Ethyl acetate	43		3.558					ND	
46 Propionitrile	54		3.620					ND	
47 Chlorobromomethane	128		3.662					ND	
49 Methacrylonitrile	41		3.693					ND	
48 Tetrahydrofuran	42		3.703					ND	
50 Chloroform	83		3.735					ND	
51 1,1,1-Trichloroethane	97		3.817					ND	
52 Cyclohexane	56		3.817					ND	
53 Carbon tetrachloride	117		3.931					ND	
54 1,1-Dichloropropene	75		3.942					ND	
152 Isooctane	57		4.107					ND	
55 Benzene	78		4.108					ND	
56 Isobutyl alcohol	43		4.170					ND	
57 1,2-Dichloroethane	62		4.170					ND	
58 Tert-amyl methyl ether	73		4.190					ND	
147 t-Amyl alcohol	59		4.211					ND	
59 n-Heptane	43		4.263					ND	
1 1,4-Difluorobenzene	114		4.429					ND	
141 2,4,4-Trimethyl-1-pentene	55		4.512					ND	
60 Trichloroethene	95		4.595					ND	
61 n-Butanol	56		4.667					ND	
62 Methylcyclohexane	83		4.688					ND	
140 2,4,4-Trimethyl-2-pentene	97		4.709					ND	
142 Ethyl acrylate	55		4.729					ND	
63 1,2-Dichloropropane	63		4.792					ND	
64 Methyl methacrylate	41		4.895					ND	
65 Dibromomethane	93		4.895					ND	
66 1,4-Dioxane	88		4.926					ND	
67 Dichlorobromomethane	83		5.020					ND	
68 2-Nitropropane	43		5.237					ND	
69 2-Chloroethyl vinyl ether	63		5.258					ND	
70 Epichlorohydrin	57		5.320					ND	
71 cis-1,3-Dichloropropene	75		5.351					ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.476					ND	
73 Toluene	92		5.569					ND	
74 2-Methylthiophene	97		5.672					ND	
75 trans-1,3-Dichloropropene	75		5.786					ND	
76 3-Methylthiophene	97		5.797					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
77 Ethyl methacrylate	69		5.828					ND	
78 1,1,2-Trichloroethane	83		5.932					ND	
79 Tetrachloroethene	166		5.963					ND	
80 1,3-Dichloropropane	76		6.046					ND	
81 2-Hexanone	43		6.108					ND	
155 n-Butyl acetate	43		6.190					ND	
82 Chlorodibromomethane	129		6.222					ND	
83 Ethylene Dibromide	107		6.294					ND	
146 1-Chlorohexane	55		6.626					ND	
85 3-Chlorobenzotrifluoride	180		6.636					ND	
86 Chlorobenzene	112		6.647					ND	
87 4-Chlorobenzotrifluoride	180		6.688					ND	
88 Ethylbenzene	91		6.719					ND	
89 1,1,1,2-Tetrachloroethane	131		6.729					ND	
90 m-Xylene & p-Xylene	106		6.812					ND	
91 o-Xylene	106		7.134					ND	
92 Styrene	104		7.154					ND	
93 Bromoform	173		7.331					ND	
94 2-Chlorobenzotrifluoride	180		7.361					ND	
95 Isopropylbenzene	105		7.413					ND	
96 Cyclohexanone	55		7.558					ND	
97 Bromobenzene	156		7.673					ND	
98 1,1,2,2-Tetrachloroethane	83		7.724					ND	
99 N-Propylbenzene	91		7.745					ND	
100 1,2,3-Trichloropropane	110		7.755					ND	
101 trans-1,4-Dichloro-2-buten	53		7.766					ND	
105 2-Chlorotoluene	126		7.818					ND	
103 3-Chlorotoluene	126		7.880					ND	
104 1,3,5-Trimethylbenzene	105		7.890					ND	
102 4-Chlorotoluene	91		7.911					ND	
106 tert-Butylbenzene	134		8.149					ND	
108 Pentachloroethane	167		8.191					ND	
107 1,2,4-Trimethylbenzene	105		8.191					ND	
109 sec-Butylbenzene	105		8.325					ND	
110 1,3-Dichlorobenzene	146		8.429					ND	
111 4-Isopropyltoluene	119		8.439					ND	
112 Dicyclopentadiene	66		8.481					ND	
113 1,4-Dichlorobenzene	146		8.502					ND	
114 1,2,3-Trimethylbenzene	105		8.533					ND	
150 Benzyl chloride	126		8.636					ND	
115 n-Butylbenzene	91		8.781					ND	
116 1,2-Dichlorobenzene	146		8.812					ND	
117 1,2-Dibromo-3-Chloropropan	75		9.476					ND	
118 1,3,5-Trichlorobenzene	180		9.600					ND	
119 1,2,4-Trichlorobenzene	180		10.118					ND	
120 Hexachlorobutadiene	225		10.232					ND	
121 Naphthalene	128		10.336					ND	
122 1,2,3-Trichlorobenzene	180		10.533					ND	
149 2-Methylnaphthalene	142		11.237					ND	
144 1-Bromopropane TIC	1		0.000					ND	
145 Ethylene oxide TIC	1		0.000					ND	
143 Propene oxide TIC	1		0.000					ND	

Data File: \\Bufchrom\ChromData\HP5975T\20141101-36941.b\T7135.D

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
138 cis-1,4-Dichloro-2-butene	88		0.000					ND	
136 Nitrobenzene	77		0.000					ND	
135 Hexachloroethane	117		0.000					ND	
137 Methyl acrylate	1		0.000					ND	
S 123 1,3-Dichloropropene, Total	1		30.000					0	
S 124 1,2-Dichloroethene, Total	1		30.000					0	
S 125 Total BTEX	1		30.000					0	
S 126 Xylenes, Total	1		30.000					0	
T 131 tert-amyl alcohol TIC	1		0.000					0	
T 130 Bromoethane TIC	1		0.000					0	
T 132 bis(chloromethyl)ether TIC	1		0.000					0	
T 134 1-Bromopropane	1		0.000					0	
T 133 Pentachloroethane TIC	1		0.000					0	
T 129 Aziridine TIC	1		0.000					0	
T 128 Hexachloroethane TIC	117		0.000					0	
T 127 Ethanol TIC	1		0.000					0	
T 9 bis(2-chloromethyl)ether T	1		0.000					0	
T 10 Ethylene oxide	1		0.000					0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

T_8260_IS_00087

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_Surr_00082

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20141101-36941.b\T7135.D

Injection Date: 01-Nov-2014 10:59:30

Instrument ID: HP5975T

Operator ID: LH

Lims ID: MB

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

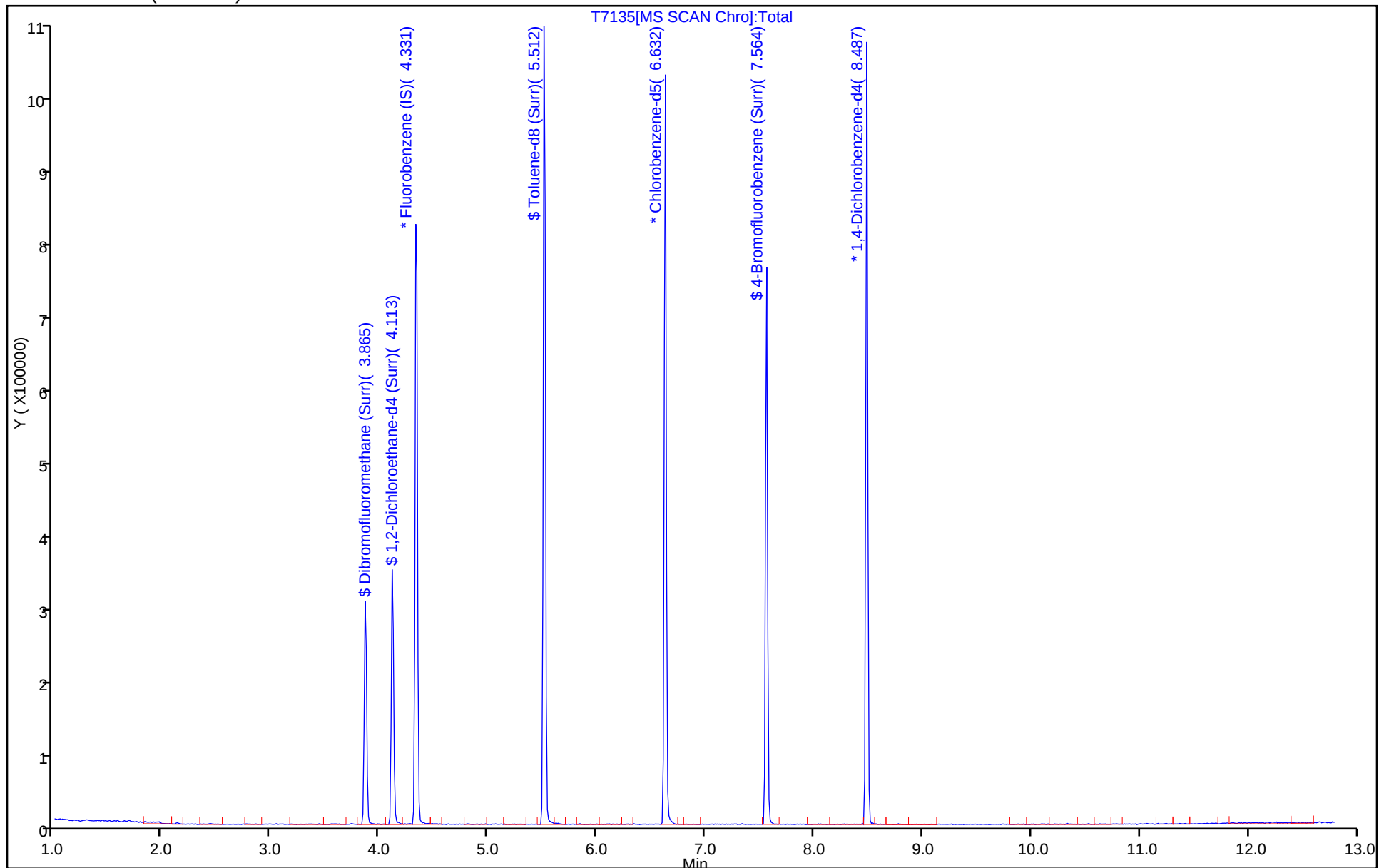
Dil. Factor: 1.0000

ALS Bottle#: 98

Method: T-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.: 480-69812-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 480-211429/4

Matrix: Water Lab File ID: T7133.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 11/01/2014 10:12

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.: 211429 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	27.6		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	23.3		1.0	0.21
79-00-5	1,1,2-Trichloroethane	23.1		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	22.4		1.0	0.31
75-34-3	1,1-Dichloroethane	23.9		1.0	0.38
75-35-4	1,1-Dichloroethene	24.1		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	24.8		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	26.8		1.0	0.39
95-50-1	1,2-Dichlorobenzene	24.1		1.0	0.79
107-06-2	1,2-Dichloroethane	23.1		1.0	0.21
78-87-5	1,2-Dichloropropane	24.1		1.0	0.72
541-73-1	1,3-Dichlorobenzene	23.2		1.0	0.78
106-46-7	1,4-Dichlorobenzene	23.0		1.0	0.84
78-93-3	2-Butanone (MEK)	104		10	1.3
591-78-6	2-Hexanone	100		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	100		5.0	2.1
67-64-1	Acetone	108		10	3.0
71-43-2	Benzene	24.6		1.0	0.41
75-27-4	Bromodichloromethane	28.8		1.0	0.39
75-25-2	Bromoform	29.2		1.0	0.26
74-83-9	Bromomethane	24.1		1.0	0.69
75-15-0	Carbon disulfide	24.0		1.0	0.19
56-23-5	Carbon tetrachloride	33.4		1.0	0.27
108-90-7	Chlorobenzene	23.2		1.0	0.75
124-48-1	Dibromochloromethane	32.6		1.0	0.32
75-00-3	Chloroethane	23.9		1.0	0.32
67-66-3	Chloroform	24.7		1.0	0.34
74-87-3	Chloromethane	20.7		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	25.0		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	28.5		1.0	0.36
110-82-7	Cyclohexane	21.8		1.0	0.18
75-71-8	Dichlorodifluoromethane	16.2		1.0	0.68
100-41-4	Ethylbenzene	23.4		1.0	0.74
106-93-4	1,2-Dibromoethane	28.2		1.0	0.73
98-82-8	Isopropylbenzene	23.3		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-69812-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-211429/4
 Matrix: Water Lab File ID: T7133.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 11/01/2014 10:12
 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.: 211429 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	109		2.5	0.50
1634-04-4	Methyl tert-butyl ether	24.2		1.0	0.16
108-87-2	Methylcyclohexane	23.6		1.0	0.16
75-09-2	Methylene Chloride	23.5		1.0	0.44
100-42-5	Styrene	23.9		1.0	0.73
127-18-4	Tetrachloroethene	24.1		1.0	0.36
108-88-3	Toluene	23.6		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	24.9		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	24.6		1.0	0.37
79-01-6	Trichloroethene	24.4		1.0	0.46
75-69-4	Trichlorofluoromethane	24.0		1.0	0.88
75-01-4	Vinyl chloride	20.8		1.0	0.90
1330-20-7	Xylenes, Total	48.5		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		71-126
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		66-137
460-00-4	4-Bromofluorobenzene (Surr)	106		73-120
1868-53-7	Dibromofluoromethane (Surr)	106		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20141101-36941.b\T7133.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 01-Nov-2014 10:12:30 ALS Bottle#: 96 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 480-0036941-004
 Operator ID: LH Instrument ID: HP5975T
 Method: \\Bufchrom\ChromData\HP5975T\20141101-36941.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Nov-2014 10:49:23 Calib Date: 09-Oct-2014 22:47:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5975T\20141009-36177.b\T6148.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: HillL

Date: 01-Nov-2014 10:49:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.336	4.335	0.001	98	589399	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.626	6.626	0.000	88	429102	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.491	8.491	0.000	97	222166	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	3.869	3.869	0.000	93	149645	25.0	26.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.118	4.118	0.000	0	187291	25.0	24.7	
\$ 6 Toluene-d8 (Surr)	98	5.517	5.517	0.000	95	565620	25.0	24.7	
\$ 7 4-Bromofluorobenzene (Surr	174	7.558	7.558	0.000	86	163027	25.0	26.4	
11 Dichlorodifluoromethane	85	0.905	0.905	0.000	99	87899	25.0	16.2	
13 Chloromethane	50	1.030	1.019	0.011	99	174459	25.0	20.7	
14 Vinyl chloride	62	1.102	1.102	0.000	97	162331	25.0	20.8	
151 Butadiene	54	1.123	1.123	0.000	88	137613	25.0	17.3	
15 Bromomethane	94	1.320	1.320	0.000	92	71271	25.0	24.1	
16 Chloroethane	64	1.403	1.403	0.000	99	91811	25.0	23.9	
17 Trichlorofluoromethane	101	1.558	1.558	0.000	97	202122	25.0	24.0	
18 Dichlorofluoromethane	67	1.569	1.569	0.000	97	260192	25.0	25.9	
19 Ethyl ether	59	1.797	1.797	0.000	97	164880	25.0	23.8	
21 Acrolein	56	1.952	1.952	0.000	100	115199	125.0	124.6	
22 1,1-Dichloroethene	96	1.962	1.962	0.000	94	124287	25.0	24.1	
20 1,1,2-Trichloro-1,2,2-trif	101	1.983	1.973	0.010	95	123358	25.0	22.4	
23 Acetone	43	2.107	2.097	0.010	100	306608	125.0	108.4	
24 Iodomethane	142	2.107	2.108	-0.001	75	214372	25.0	24.3	
25 Carbon disulfide	76	2.128	2.128	0.000	100	465892	25.0	24.0	
27 3-Chloro-1-propene	41	2.304	2.304	0.000	92	288610	25.0	24.2	
28 Methyl acetate	43	2.367	2.367	0.000	99	805048	125.0	109.4	
30 Methylene Chloride	84	2.439	2.429	0.010	99	163078	25.0	23.5	
31 2-Methyl-2-propanol	59	2.626	2.626	0.000	94	203999	250.0	261.5	
32 trans-1,2-Dichloroethene	96	2.636	2.636	0.000	73	152628	25.0	24.9	
33 Methyl tert-butyl ether	73	2.636	2.636	0.000	99	467589	25.0	24.2	
34 Acrylonitrile	53	2.709	2.698	0.011	99	767418	250.0	222.4	
35 Hexane	57	2.802	2.802	0.000	93	253815	25.0	22.1	
36 1,1-Dichloroethane	63	2.999	2.999	0.000	96	313045	25.0	23.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 Vinyl acetate	43	3.071	3.071	0.000	97	441053	50.0	60.6	
42 2,2-Dichloropropane	77	3.444	3.444	0.000	93	164425	25.0	31.6	
43 cis-1,2-Dichloroethene	96	3.475	3.475	0.000	82	168591	25.0	25.0	
44 2-Butanone (MEK)	43	3.527	3.527	0.000	99	475076	125.0	103.6	
47 Chlorobromomethane	128	3.672	3.662	0.010	97	82717	25.0	25.3	
48 Tetrahydrofuran	42	3.703	3.703	0.000	93	124404	50.0	39.6	
50 Chloroform	83	3.734	3.735	-0.001	94	280606	25.0	24.7	
51 1,1,1-Trichloroethane	97	3.817	3.817	0.000	97	212651	25.0	27.6	
52 Cyclohexane	56	3.817	3.817	0.000	93	307134	25.0	21.8	
53 Carbon tetrachloride	117	3.931	3.931	0.000	98	169870	25.0	33.4	
54 1,1-Dichloropropene	75	3.942	3.942	0.000	95	199383	25.0	24.0	
55 Benzene	78	4.118	4.108	0.010	96	628077	25.0	24.6	
57 1,2-Dichloroethane	62	4.170	4.170	0.000	97	237700	25.0	23.1	
56 Isobutyl alcohol	43	4.170	4.170	0.000	95	198744	625.0	756.5	
59 n-Heptane	43	4.263	4.263	0.000	96	288224	25.0	21.3	
60 Trichloroethene	95	4.605	4.595	0.010	97	154654	25.0	24.4	
62 Methylcyclohexane	83	4.688	4.688	0.000	96	253606	25.0	23.6	
63 1,2-Dichloropropane	63	4.792	4.792	0.000	96	177701	25.0	24.1	
65 Dibromomethane	93	4.895	4.895	0.000	96	94342	25.0	23.5	
66 1,4-Dioxane	88	4.926	4.926	0.000	98	36590	500.0	441.7	
67 Dichlorobromomethane	83	5.019	5.020	-0.001	98	207648	25.0	28.8	
69 2-Chloroethyl vinyl ether	63	5.258	5.258	0.000	92	71062	25.0	17.3	
71 cis-1,3-Dichloropropene	75	5.351	5.351	0.000	94	232631	25.0	28.5	
72 4-Methyl-2-pentanone (MIBK)	43	5.475	5.476	-0.001	97	997322	125.0	100.0	
73 Toluene	92	5.569	5.569	0.000	98	381175	25.0	23.6	
75 trans-1,3-Dichloropropene	75	5.786	5.786	0.000	94	191054	25.0	24.6	
77 Ethyl methacrylate	69	5.828	5.828	0.000	93	191241	25.0	28.0	
78 1,1,2-Trichloroethane	83	5.931	5.932	-0.001	92	117329	25.0	23.1	
79 Tetrachloroethene	166	5.963	5.963	0.000	95	147737	25.0	24.1	
80 1,3-Dichloropropane	76	6.045	6.046	-0.001	94	241427	25.0	22.3	
81 2-Hexanone	43	6.108	6.108	0.000	98	706340	125.0	100.2	
82 Chlorodibromomethane	129	6.222	6.222	0.000	89	139289	25.0	32.6	
83 Ethylene Dibromide	107	6.294	6.294	0.000	99	136027	25.0	28.2	
86 Chlorobenzene	112	6.646	6.647	-0.001	93	403938	25.0	23.2	
88 Ethylbenzene	91	6.729	6.719	0.010	99	718203	25.0	23.4	
89 1,1,1,2-Tetrachloroethane	131	6.729	6.729	0.000	45	133070	25.0	28.7	
90 m-Xylene & p-Xylene	106	6.812	6.812	0.000	0	275317	25.0	24.3	
91 o-Xylene	106	7.134	7.134	0.000	98	273309	25.0	24.2	
92 Styrene	104	7.154	7.154	0.000	95	464028	25.0	23.9	
93 Bromoform	173	7.330	7.331	-0.001	96	78037	25.0	29.2	
95 Isopropylbenzene	105	7.413	7.413	0.000	97	708612	25.0	23.3	
97 Bromobenzene	156	7.672	7.673	-0.001	97	170515	25.0	24.6	
98 1,1,2,2-Tetrachloroethane	83	7.724	7.724	0.000	93	187372	25.0	23.3	
99 N-Propylbenzene	91	7.745	7.745	0.000	99	853610	25.0	23.1	
100 1,2,3-Trichloropropane	110	7.755	7.755	0.000	87	57514	25.0	23.5	
101 trans-1,4-Dichloro-2-buten	53	7.766	7.766	0.000	78	45653	25.0	17.0	
105 2-Chlorotoluene	126	7.818	7.818	0.000	96	165980	25.0	24.2	
104 1,3,5-Trimethylbenzene	105	7.890	7.890	0.000	94	622456	25.0	23.9	
102 4-Chlorotoluene	91	7.911	7.911	0.000	99	597043	25.0	23.0	
106 tert-Butylbenzene	134	8.149	8.149	0.000	94	125673	25.0	24.5	
107 1,2,4-Trimethylbenzene	105	8.191	8.191	0.000	97	644987	25.0	24.1	
109 sec-Butylbenzene	105	8.325	8.325	0.000	95	767083	25.0	23.2	

Data File: \\Bufchrom\ChromData\HP5975T\20141101-36941.b\T7133.D

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
110 1,3-Dichlorobenzene	146	8.429	8.429	0.000	97	324759	25.0	23.2	
111 4-Isopropyltoluene	119	8.439	8.439	0.000	97	654678	25.0	23.5	
113 1,4-Dichlorobenzene	146	8.501	8.502	-0.001	95	330908	25.0	23.0	
115 n-Butylbenzene	91	8.781	8.781	0.000	98	623229	25.0	23.5	
116 1,2-Dichlorobenzene	146	8.812	8.812	0.000	96	322687	25.0	24.1	
117 1,2-Dibromo-3-Chloropropan	75	9.476	9.476	0.000	80	30563	25.0	26.8	
119 1,2,4-Trichlorobenzene	180	10.118	10.118	0.000	95	207611	25.0	24.8	
120 Hexachlorobutadiene	225	10.232	10.232	0.000	97	102488	25.0	24.3	
121 Naphthalene	128	10.336	10.336	0.000	97	509318	25.0	22.3	
122 1,2,3-Trichlorobenzene	180	10.522	10.533	-0.011	95	183976	25.0	23.5	

Reagents:

8260 CORP mix_00023	Amount Added: 12.50	Units: uL	
GAS CORP mix_00054	Amount Added: 12.50	Units: uL	
T_8260_IS_00087	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_Surr_00082	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20141101-36941.b\T7133.D

Injection Date: 01-Nov-2014 10:12:30

Instrument ID: HP5975T

Lims ID: LCS

Operator ID: LH

Client ID:

Worklist Smp#: 4

Purge Vol: 5.000 mL

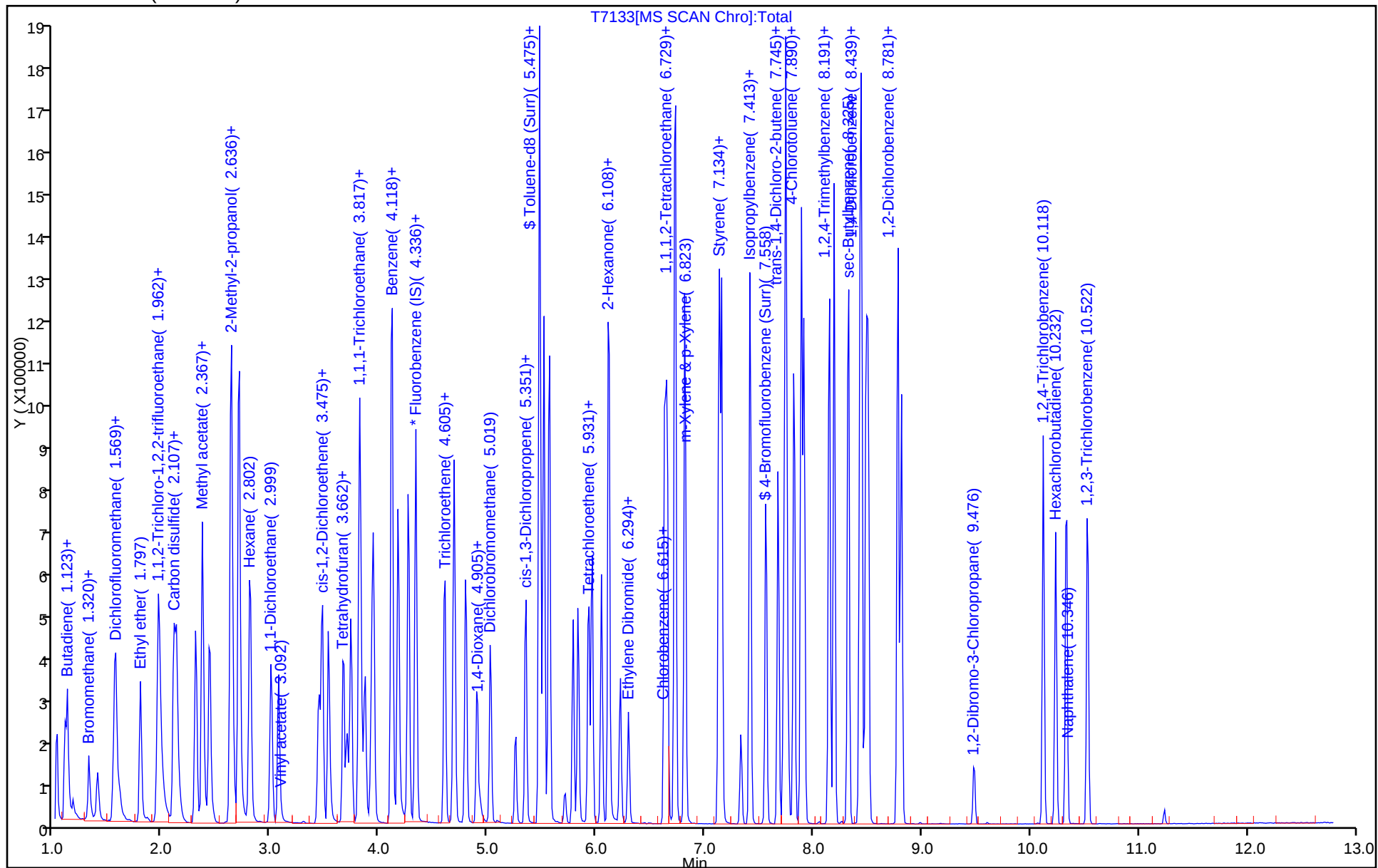
Dil. Factor: 1.0000

ALS Bottle#: 96

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-69812-1

SDG No.: _____

Instrument ID: HP5975T Start Date: 09/21/2014 12:30Analysis Batch Number: 203521 End Date: 09/21/2014 21:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-203521/29		09/21/2014 12:30	1	T5597.D	ZB-624 (60) 0.25 (mm)
IC 480-203521/8		09/21/2014 13:21	1		ZB-624 (60) 0.25 (mm)
IC 480-203521/9		09/21/2014 13:45	1		ZB-624 (60) 0.25 (mm)
IC 480-203521/10		09/21/2014 14:09	1		ZB-624 (60) 0.25 (mm)
IC 480-203521/11		09/21/2014 14:34	1		ZB-624 (60) 0.25 (mm)
ICIS 480-203521/12		09/21/2014 14:57	1		ZB-624 (60) 0.25 (mm)
IC 480-203521/13		09/21/2014 15:21	1		ZB-624 (60) 0.25 (mm)
IC 480-203521/14		09/21/2014 15:45	1		ZB-624 (60) 0.25 (mm)
MDLV 480-203521/16		09/21/2014 16:33	1		ZB-624 (60) 0.25 (mm)
IC 480-203521/18		09/21/2014 17:25	1	T5609.D	ZB-624 (60) 0.25 (mm)
IC 480-203521/19		09/21/2014 17:49	1	T5610.D	ZB-624 (60) 0.25 (mm)
IC 480-203521/20		09/21/2014 18:13	1	T5611.D	ZB-624 (60) 0.25 (mm)
IC 480-203521/21		09/21/2014 18:37	1	T5612.D	ZB-624 (60) 0.25 (mm)
IC 480-203521/22		09/21/2014 19:01	1	T5613.D	ZB-624 (60) 0.25 (mm)
IC 480-203521/23		09/21/2014 19:25	1	T5614.D	ZB-624 (60) 0.25 (mm)
IC 480-203521/24		09/21/2014 19:49	1	T5615.D	ZB-624 (60) 0.25 (mm)
MDLV 480-203521/26		09/21/2014 20:38	1		ZB-624 (60) 0.25 (mm)
ICV 480-203521/27		09/21/2014 21:02	1		ZB-624 (60) 0.25 (mm)
ICV 480-203521/28		09/21/2014 21:26	1		ZB-624 (60) 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-69812-1

SDG No.: _____

Instrument ID: HP5975T Start Date: 10/09/2014 19:07Analysis Batch Number: 206953 End Date: 10/10/2014 00:23

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-206953/5		10/09/2014 19:07	1	T6140.D	ZB-624 (60) 0.25 (mm)
IC 480-206953/7		10/09/2014 20:23	1	T6142.D	ZB-624 (60) 0.25 (mm)
IC 480-206953/8		10/09/2014 20:47	1	T6143.D	ZB-624 (60) 0.25 (mm)
IC 480-206953/9		10/09/2014 21:11	1	T6144.D	ZB-624 (60) 0.25 (mm)
IC 480-206953/10		10/09/2014 21:35	1	T6145.D	ZB-624 (60) 0.25 (mm)
ICIS 480-206953/11		10/09/2014 21:59	1	T6146.D	ZB-624 (60) 0.25 (mm)
IC 480-206953/12		10/09/2014 22:23	1	T6147.D	ZB-624 (60) 0.25 (mm)
IC 480-206953/13		10/09/2014 22:47	1	T6148.D	ZB-624 (60) 0.25 (mm)
MDLV 480-206953/15		10/09/2014 23:35	1		ZB-624 (60) 0.25 (mm)
ICV 480-206953/17		10/10/2014 00:23	1		ZB-624 (60) 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-69812-1

SDG No.: _____

Instrument ID: HP5975T Start Date: 11/01/2014 08:49Analysis Batch Number: 211429 End Date: 11/01/2014 18:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-211429/1		11/01/2014 08:49	1	T7130.D	ZB-624 (60) 0.25 (mm)
CCVIS 480-211429/2		11/01/2014 09:12	1	T7131.D	ZB-624 (60) 0.25 (mm)
CCV 480-211429/3		11/01/2014 09:48	1	T7132.D	ZB-624 (60) 0.25 (mm)
LCS 480-211429/4		11/01/2014 10:12	1	T7133.D	ZB-624 (60) 0.25 (mm)
MDLV 480-211429/5		11/01/2014 10:36	1		ZB-624 (60) 0.25 (mm)
MB 480-211429/6		11/01/2014 10:59	1	T7135.D	ZB-624 (60) 0.25 (mm)
480-69812-1	WELL 1-2A	11/01/2014 11:33	1	T7136.D	ZB-624 (60) 0.25 (mm)
480-69812-2	WELL 1-3A	11/01/2014 11:58	1	T7137.D	ZB-624 (60) 0.25 (mm)
480-69812-3	TRIP BLANK	11/01/2014 12:22	1	T7138.D	ZB-624 (60) 0.25 (mm)
ZZZZZ		11/01/2014 12:46	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/01/2014 13:10	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/01/2014 13:34	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/01/2014 13:58	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/01/2014 14:22	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/01/2014 14:46	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/01/2014 15:11	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/01/2014 15:35	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/01/2014 15:59	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/01/2014 16:23	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/01/2014 16:48	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/01/2014 17:12	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/01/2014 17:36	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/01/2014 18:00	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/01/2014 18:24	1		ZB-624 (60) 0.25 (mm)

GC/MS VOA Worksheet

Batch Number: 480-211429

Method: 8260C

Analyst: Boldt, Erik D

Date Open: Nov 01 2014 8:49AM

Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	2MTP_WRK_00036	3MTP_WRK_00039
BFB~480-211429/1		8260C			1 uL	1 uL	HP5975T		
CCVIS~480-211429/2		8260C			5 mL	5 mL	HP5975T		
CCV~480-211429/3		8260C			5 mL	5 mL	HP5975T	12.5 uL	12.5 uL
LCS~480-211429/4		8260C			5 mL	5 mL	HP5975T		
MDLV~480-211429/5					5 mL	5 mL	HP5975T		
MB~480-211429/6		8260C			5 mL	5 mL	HP5975T		
480-69777-L-1	B-4A	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-69777-L-2	TRI-6D	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-69777-L-3	DGC-2D	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-69777-L-3~MS	DGC-2D	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-69777-L-3~MS D	DGC-2D	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-69777-L-4	DGC-2I	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-69777-L-5	DGC-2SB	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-69777-L-6	DGC-3D	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-69777-L-7	DGC-3I	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-69777-L-8	DGC-3SB	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-69777-M-9	DGC-4	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-69777-M-10	TK-1	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-69777-L-11	TRI-1	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-69777-L-12	DO-3	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-69777-L-13	SW-1	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-69812-A-1	WELL 1-2A	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-69812-A-2	WELL 1-3A	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-69812-A-3	TRIP BLANK	8260C	T	<2 SU	5 mL	5 mL	HP5975T		

GC/MS VOA Worksheet

Batch Number: 480-211429

Method: 8260C

Analyst: Boldt, Erik D

Date Open: Nov 01 2014 8:49AM

Batch End:

Lab ID	Client ID	Method Chain	Basis	8260 CORP mix_00023	ADD CORP mix_00014	BFB_WRK_00037	GAS CORP mix_00054	T_8260_IS_00087	T_8260_Surr_00082
BFB~480-211429/1		8260C				1 uL			
CCVIS~480-211429/ 2		8260C		12.5 uL			12.5 uL	1 uL	1 uL
CCV~480-211429/3		8260C			12.5 uL			1 uL	1 uL
LCS~480-211429/4		8260C		12.5 uL			12.5 uL	1 uL	1 uL
MDLV~480-211429/ 5				1 uL			1 uL	1 uL	1 uL
MB~480-211429/6		8260C						1 uL	1 uL
480-69777-L-1	B-4A	8260C	T					1 uL	1 uL
480-69777-L-2	TRI-6D	8260C	T					1 uL	1 uL
480-69777-L-3	DGC-2D	8260C	T					1 uL	1 uL
480-69777-L-3~MS	DGC-2D	8260C	T	12.5 uL			12.5 uL	1 uL	1 uL
480-69777-L-3~MS D	DGC-2D	8260C	T	12.5 uL			12.5 uL	1 uL	1 uL
480-69777-L-4	DGC-2I	8260C	T					1 uL	1 uL
480-69777-L-5	DGC-2SB	8260C	T					1 uL	1 uL
480-69777-L-6	DGC-3D	8260C	T					1 uL	1 uL
480-69777-L-7	DGC-3I	8260C	T					1 uL	1 uL
480-69777-L-8	DGC-3SB	8260C	T					1 uL	1 uL
480-69777-M-9	DGC-4	8260C	T					1 uL	1 uL
480-69777-M-10	TK-1	8260C	T					1 uL	1 uL
480-69777-L-11	TRI-1	8260C	T					1 uL	1 uL
480-69777-L-12	DO-3	8260C	T					1 uL	1 uL
480-69777-L-13	SW-1	8260C	T					1 uL	1 uL
480-69812-A-1	WELL 1-2A	8260C	T					1 uL	1 uL
480-69812-A-2	WELL 1-3A	8260C	T					1 uL	1 uL
480-69812-A-3	TRIP BLANK	8260C	T					1 uL	1 uL

Shipping and Receiving Documents

Chain of Custody Record

Client Information Client Contact: Mr. Jeremy Wyckoff Company: ARCADIS U.S., Inc. Address: 630 Plaza Drive, Suite 600 City: Highlands Ranch State, Zip: CO, 80129 Phone: 518-250-7300(Tel) Email: jeremy.wyckoff@arcadis-us.com Project Name: NYSDEC Standby VESTAL Site: Vestal		Sampler: J. Wyckoff Lab PM: Stone, Judy L Phone: 607-206-6262 E-Mail: judy.stone@testamerica.com		Carrier Tracking No(s): 480-57052-13941.1 Page: Page 1 of 1 Job #:	
Due Date Requested: TAT Requested (days): 10		Analysis Requested			
PO #: Project 00266401.0000 WO #: Contract D007618 Project #: 48005198 SSOW#:		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:			
Sample Identification Well 1-2A Well 1-3A Trip Blank		Sample Date 10/21/14 1415 -	Sample Time 1410 1415 -	Sample Type (C=Comp, G=grab) G G -	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) Water Water wak
Field Filtered Sample (Yes or No)		Field Filtered Sample (Yes or No)		Total Number of Containers	
Special Instructions/Note:		Special Instructions/Note:			
Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological					
Deliverable Requested: I, II, III, IV, Other (specify)					
Empty Kit Relinquished by:					
Relinquished by:		Date/Time: 10/21/14		Date/Time: 10/22/14	
Relinquished by:		Date/Time:		Date/Time:	
Relinquished by:		Date/Time:		Date/Time:	
Custody Seals Intact: A Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: #1 5.3	

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-69812-1

Login Number: 69812

List Source: TestAmerica Buffalo

List Number: 1

Creator: Robison, Zachary J

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	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: 480-72008-1

Client Project/Site: NYSDEC-Standby VESTAL

For:

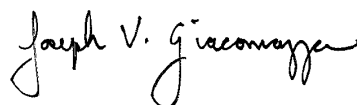
ARCADIS U.S. Inc

855 Route 146

Suite 210

Clifton Park, New York 12065

Attn: Jeremy Wyckoff



Authorized for release by:

12/10/2014 9:55:34 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: 480-72008-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.
*	LCS or LCSD exceeds the control limits

Glossary

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

Detection Summary

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

TestAmerica Job ID: 480-72008-1

Client Sample ID: WELL 1-2A-20141125

Lab Sample ID: 480-72008-1

No Detections.

Client Sample ID: WELL 1-3-20141125

Lab Sample ID: 480-72008-2

No Detections.

Client Sample ID: TRIP BLANK-20141125

Lab Sample ID: 480-72008-3

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: 480-72008-1

Client Sample ID: WELL 1-2A-20141125

Lab Sample ID: 480-72008-1

Date Collected: 11/25/14 08:30

Matrix: Water

Date Received: 11/26/14 02:30

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			12/08/14 17:34	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/08/14 17:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/08/14 17:34	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/08/14 17:34	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/08/14 17:34	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/08/14 17:34	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/08/14 17:34	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/08/14 17:34	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/08/14 17:34	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/08/14 17:34	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/08/14 17:34	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/08/14 17:34	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/08/14 17:34	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/08/14 17:34	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/08/14 17:34	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/08/14 17:34	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/08/14 17:34	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/08/14 17:34	1
2-Hexanone	5.0	U *	5.0	1.2	ug/L			12/08/14 17:34	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/08/14 17:34	1
Acetone	10	U	10	3.0	ug/L			12/08/14 17:34	1
Benzene	1.0	U	1.0	0.41	ug/L			12/08/14 17:34	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/08/14 17:34	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/08/14 17:34	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/08/14 17:34	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/08/14 17:34	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/08/14 17:34	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/08/14 17:34	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/08/14 17:34	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/08/14 17:34	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/08/14 17:34	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/08/14 17:34	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/08/14 17:34	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/08/14 17:34	1
Dibromochloromethane	1.0	U *	1.0	0.32	ug/L			12/08/14 17:34	1
Dichlorodifluoromethane	1.0	U *	1.0	0.68	ug/L			12/08/14 17:34	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/08/14 17:34	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/08/14 17:34	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			12/08/14 17:34	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/08/14 17:34	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/08/14 17:34	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/08/14 17:34	1
Styrene	1.0	U	1.0	0.73	ug/L			12/08/14 17:34	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/08/14 17:34	1
Toluene	1.0	U	1.0	0.51	ug/L			12/08/14 17:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/08/14 17:34	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/08/14 17:34	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/08/14 17:34	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/08/14 17:34	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72008-1

Client Sample ID: WELL 1-2A-20141125

Lab Sample ID: 480-72008-1

Date Collected: 11/25/14 08:30

Matrix: Water

Date Received: 11/26/14 02:30

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			12/08/14 17:34	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/08/14 17:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	122		66 - 137					12/08/14 17:34	1
4-Bromofluorobenzene (Surr)	99		73 - 120					12/08/14 17:34	1
Dibromofluoromethane (Surr)	111		60 - 140					12/08/14 17:34	1
Toluene-d8 (Surr)	99		71 - 126					12/08/14 17:34	1

Client Sample ID: WELL 1-3-20141125

Lab Sample ID: 480-72008-2

Date Collected: 11/25/14 08:40

Matrix: Water

Date Received: 11/26/14 02:30

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			12/08/14 17:58	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/08/14 17:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/08/14 17:58	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/08/14 17:58	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/08/14 17:58	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/08/14 17:58	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/08/14 17:58	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/08/14 17:58	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/08/14 17:58	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/08/14 17:58	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/08/14 17:58	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/08/14 17:58	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/08/14 17:58	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/08/14 17:58	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/08/14 17:58	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/08/14 17:58	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/08/14 17:58	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/08/14 17:58	1
2-Hexanone	5.0	U *	5.0	1.2	ug/L			12/08/14 17:58	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/08/14 17:58	1
Acetone	10	U	10	3.0	ug/L			12/08/14 17:58	1
Benzene	1.0	U	1.0	0.41	ug/L			12/08/14 17:58	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/08/14 17:58	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/08/14 17:58	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/08/14 17:58	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/08/14 17:58	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/08/14 17:58	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/08/14 17:58	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/08/14 17:58	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/08/14 17:58	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/08/14 17:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/08/14 17:58	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/08/14 17:58	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/08/14 17:58	1
Dibromochloromethane	1.0	U *	1.0	0.32	ug/L			12/08/14 17:58	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72008-1

Client Sample ID: WELL 1-3-20141125

Lab Sample ID: 480-72008-2

Date Collected: 11/25/14 08:40

Matrix: Water

Date Received: 11/26/14 02:30

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			12/08/14 17:58	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/08/14 17:58	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/08/14 17:58	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			12/08/14 17:58	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/08/14 17:58	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/08/14 17:58	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/08/14 17:58	1
Styrene	1.0	U	1.0	0.73	ug/L			12/08/14 17:58	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/08/14 17:58	1
Toluene	1.0	U	1.0	0.51	ug/L			12/08/14 17:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/08/14 17:58	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/08/14 17:58	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/08/14 17:58	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/08/14 17:58	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/08/14 17:58	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/08/14 17:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	124		66 - 137		12/08/14 17:58	1
4-Bromofluorobenzene (Surr)	100		73 - 120		12/08/14 17:58	1
Dibromofluoromethane (Surr)	115		60 - 140		12/08/14 17:58	1
Toluene-d8 (Surr)	99		71 - 126		12/08/14 17:58	1

Client Sample ID: TRIP BLANK-20141125

Lab Sample ID: 480-72008-3

Date Collected: 11/25/14 00:00

Matrix: Water

Date Received: 11/26/14 02:30

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			12/08/14 18:22	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/08/14 18:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/08/14 18:22	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/08/14 18:22	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/08/14 18:22	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/08/14 18:22	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/08/14 18:22	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/08/14 18:22	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/08/14 18:22	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/08/14 18:22	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/08/14 18:22	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/08/14 18:22	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/08/14 18:22	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/08/14 18:22	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/08/14 18:22	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/08/14 18:22	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/08/14 18:22	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/08/14 18:22	1
2-Hexanone	5.0	U *	5.0	1.2	ug/L			12/08/14 18:22	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/08/14 18:22	1
Acetone	10	U	10	3.0	ug/L			12/08/14 18:22	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72008-1

Client Sample ID: TRIP BLANK-20141125

Lab Sample ID: 480-72008-3

Date Collected: 11/25/14 00:00

Matrix: Water

Date Received: 11/26/14 02:30

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			12/08/14 18:22	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/08/14 18:22	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/08/14 18:22	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/08/14 18:22	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/08/14 18:22	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/08/14 18:22	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/08/14 18:22	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/08/14 18:22	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/08/14 18:22	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/08/14 18:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/08/14 18:22	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/08/14 18:22	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/08/14 18:22	1
Dibromochloromethane	1.0	U *	1.0	0.32	ug/L			12/08/14 18:22	1
Dichlorodifluoromethane	1.0	U *	1.0	0.68	ug/L			12/08/14 18:22	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/08/14 18:22	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/08/14 18:22	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			12/08/14 18:22	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/08/14 18:22	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/08/14 18:22	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/08/14 18:22	1
Styrene	1.0	U	1.0	0.73	ug/L			12/08/14 18:22	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/08/14 18:22	1
Toluene	1.0	U	1.0	0.51	ug/L			12/08/14 18:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/08/14 18:22	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/08/14 18:22	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/08/14 18:22	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/08/14 18:22	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/08/14 18:22	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/08/14 18:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	124		66 - 137		12/08/14 18:22	1
4-Bromofluorobenzene (Surr)	98		73 - 120		12/08/14 18:22	1
Dibromofluoromethane (Surr)	116		60 - 140		12/08/14 18:22	1
Toluene-d8 (Surr)	97		71 - 126		12/08/14 18:22	1

TestAmerica Buffalo

Surrogate Summary

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

TestAmerica Job ID: 480-72008-1

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)
480-72008-1	WELL 1-2A-20141125	122	99	111	99
480-72008-2	WELL 1-3-20141125	124	100	115	99
480-72008-3	TRIP BLANK-20141125	124	98	116	97
LCS 480-217787/5	Lab Control Sample	114	99	110	104
MB 480-217787/7	Method Blank	119	99	110	100

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: 480-72008-1

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

Lab Sample ID: MB 480-217787/7

Matrix: Water

Analysis Batch: 217787

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			12/08/14 11:12	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/08/14 11:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/08/14 11:12	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/08/14 11:12	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/08/14 11:12	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/08/14 11:12	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/08/14 11:12	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/08/14 11:12	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/08/14 11:12	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/08/14 11:12	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/08/14 11:12	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/08/14 11:12	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/08/14 11:12	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/08/14 11:12	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/08/14 11:12	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/08/14 11:12	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/08/14 11:12	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/08/14 11:12	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/08/14 11:12	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/08/14 11:12	1
Acetone	10	U	10	3.0	ug/L			12/08/14 11:12	1
Benzene	1.0	U	1.0	0.41	ug/L			12/08/14 11:12	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/08/14 11:12	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/08/14 11:12	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/08/14 11:12	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/08/14 11:12	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/08/14 11:12	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/08/14 11:12	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/08/14 11:12	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/08/14 11:12	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/08/14 11:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/08/14 11:12	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/08/14 11:12	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/08/14 11:12	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/08/14 11:12	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/08/14 11:12	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/08/14 11:12	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/08/14 11:12	1
Methyl acetate	2.5	U	2.5	0.50	ug/L			12/08/14 11:12	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/08/14 11:12	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/08/14 11:12	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/08/14 11:12	1
Styrene	1.0	U	1.0	0.73	ug/L			12/08/14 11:12	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/08/14 11:12	1
Toluene	1.0	U	1.0	0.51	ug/L			12/08/14 11:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/08/14 11:12	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/08/14 11:12	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/08/14 11:12	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-72008-1

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

Lab Sample ID: MB 480-217787/7

Matrix: Water

Analysis Batch: 217787

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			12/08/14 11:12	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/08/14 11:12	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/08/14 11:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		66 - 137		12/08/14 11:12	1
4-Bromofluorobenzene (Surr)	99		73 - 120		12/08/14 11:12	1
Dibromofluoromethane (Surr)	110		60 - 140		12/08/14 11:12	1
Toluene-d8 (Surr)	100		71 - 126		12/08/14 11:12	1

Lab Sample ID: LCS 480-217787/5

Matrix: Water

Analysis Batch: 217787

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	26.2		ug/L		105	71 - 129
1,1-Dichloroethene	25.0	26.1		ug/L		104	58 - 121
1,2,4-Trimethylbenzene	25.0	26.1		ug/L		104	76 - 121
1,2-Dichlorobenzene	25.0	26.4		ug/L		106	80 - 124
1,2-Dichloroethane	25.0	28.8		ug/L		115	75 - 127
1,3,5-Trimethylbenzene	25.0	25.3		ug/L		101	77 - 121
Benzene	25.0	24.1		ug/L		96	71 - 124
Chlorobenzene	25.0	25.2		ug/L		101	72 - 120
cis-1,2-Dichloroethene	25.0	24.4		ug/L		97	74 - 124
Ethylbenzene	25.0	26.0		ug/L		104	77 - 123
Methyl tert-butyl ether	25.0	26.9		ug/L		108	64 - 127
Tetrachloroethene	25.0	23.8		ug/L		95	74 - 122
Toluene	25.0	24.0		ug/L		96	80 - 122
trans-1,2-Dichloroethene	25.0	24.0		ug/L		96	73 - 127
Trichloroethene	25.0	24.1		ug/L		97	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	114		66 - 137
4-Bromofluorobenzene (Surr)	99		73 - 120
Dibromofluoromethane (Surr)	110		60 - 140
Toluene-d8 (Surr)	104		71 - 126

TestAmerica Buffalo

QC Association Summary

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

TestAmerica Job ID: 480-72008-1

GC/MS VOA

Analysis Batch: 217787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-72008-1	WELL 1-2A-20141125	Total/NA	Water	8260C	
480-72008-2	WELL 1-3-20141125	Total/NA	Water	8260C	
480-72008-3	TRIP BLANK-20141125	Total/NA	Water	8260C	
LCS 480-217787/5	Lab Control Sample	Total/NA	Water	8260C	
MB 480-217787/7	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

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

TestAmerica Job ID: 480-72008-1

Client Sample ID: WELL 1-2A-20141125

Lab Sample ID: 480-72008-1

Date Collected: 11/25/14 08:30

Matrix: Water

Date Received: 11/26/14 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	217787	12/08/14 17:34	CXM	TAL BUF

Client Sample ID: WELL 1-3-20141125

Lab Sample ID: 480-72008-2

Date Collected: 11/25/14 08:40

Matrix: Water

Date Received: 11/26/14 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	217787	12/08/14 17:58	CXM	TAL BUF

Client Sample ID: TRIP BLANK-20141125

Lab Sample ID: 480-72008-3

Date Collected: 11/25/14 00:00

Matrix: Water

Date Received: 11/26/14 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	217787	12/08/14 18:22	CXM	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: 480-72008-1

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

Method Summary

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

TestAmerica Job ID: 480-72008-1

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: 480-72008-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-72008-1	WELL 1-2A-20141125	Water	11/25/14 08:30	11/26/14 02:30
480-72008-2	WELL 1-3-20141125	Water	11/25/14 08:40	11/26/14 02:30
480-72008-3	TRIP BLANK-20141125	Water	11/25/14 00:00	11/26/14 02:30

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact Company Name: ARCADIS Address: 855 Route 146, Suite 210 City/State/Zip: Clifton Park, NY 12065 Phone: (518) 250-7300 Fax: (518) 250-7301 Project Name: NYSDEC Standby Vestal Site: Vestal, NY PO # 00266401.0000 / 48065198		Project Manager: Bruce Nelson Tel/Fax: (518) 250-7300		Site Contact: Katie Bidwell Lab Contact:		Date: 11/25/14 Carrier:		COC No: 1 of 1 COCs	
Analysis Turnaround Time ☐ CALENDAR DAYS ☐ WORKING DAYS TAT if different from Below ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Sample Date		Sample Time		Sample Type (C-Comp, G-Grab)		# of Cont.	
Well 1-2A-2014125		11/25/14 0830		6		GW		3 NM3	
Well 1-3-2014125		11/25/14 0840		6		GW		3 MM3	
Trip Blank 2014125		-		-		-		2 MM2	
Sample Identification		Sample Date		Sample Time		Sample Type (C-Comp, G-Grab)		# of Cont.	
Well 1-2A-2014125		11/25/14 0830		6		GW		3 NM3	
Well 1-3-2014125		11/25/14 0840		6		GW		3 MM3	
Trip Blank 2014125		-		-		-		2 MM2	
Sample Specific Notes:		Perform MS/MSD (Y/N)		Filtered Sample (Y/N)		8260 + TMB		Sample Specific Notes:	
Trip Blank									
Barcode		480-72008 Chain of Custody							
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other		Possible Hazard Identification:		Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.					
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown		Special Instructions/QC Requirements & Comments:		Temp 214#1					
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.:		Cooler Temp. (°C): Obs'd:		Corr'd:		Therm ID No.:	
Relinquished by: [Signature]		Company: ARCADIS		Date/Time: 11/25/14 1404		Received by: [Signature]		Company: TA	
Relinquished by: [Signature]		Company: TA		Date/Time: 11-25-14 1800		Received by: [Signature]		Company: TA	
Relinquished by: [Signature]		Company: TA		Date/Time: 11/26/14 0230		Received in Laboratory by: [Signature]		Company: TA	

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-72008-1

Login Number: 72008

List Source: TestAmerica Buffalo

List Number: 1

Creator: Kolb, Chris M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	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.	True	
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: 480-72829-1

Client Project/Site: NYSDEC-Standby VESTAL

Revision: 1

For:

ARCADIS U.S. Inc

855 Route 146

Suite 210

Clifton Park, New York 12065

Attn: Jeremy Wyckoff



Authorized for release by:

12/31/2014 5:48:49 PM

Judy Stone, Senior Project Manager

(484)685-0868

judy.stone@testamericainc.com

LINKS

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

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

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

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Definitions/Glossary

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

TestAmerica Job ID: 480-72829-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.
J	Indicates an estimated value.
*	LCS or LCSD exceeds the control limits
*	MS or MSD exceeds the control limits
*	Duplicate RPD exceeds control limits
E	Compound concentration exceeds the upper level of the calibration range of the instrument for that specific analysis.
B	The analyte was found in an associated blank, as well as in the sample.

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: 480-72829-1

Job ID: 480-72829-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-72829-1

Revision (1)

The report was revised to include results for 1,2,4-trichlorobenzene as requested by the client.

Receipt

The samples were received on 12/11/2014 5:10 AM; 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) for analytical batch 161982 exceeded control criteria for multiple compounds. The samples associated with this CCV were non-detects for the affected analytes. In accordance with the laboratory SOP, a low level CCV at the reporting limit (labeled as an MRL) was analyzed and the affected compounds were detected; therefore the data has been reported. No further corrective action was required.

4009-12-20141209 (480-72829-13), 4009-23D-20141209 (480-72829-23), 4009-25D-20141209 (480-72829-26), 4009-25S-20141209 (480-72829-25), 4009-26-20141209 (480-72829-27), 4009-8-20141209 (480-72829-8)

Method(s) 8260C: The laboratory control sample (LCS) for batch 161982 recovered outside control limits for the following analytes: Bromoform. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260C: The continuing calibration verification (CCV) for analytical batch 162001 exceeded control criteria for multiple compounds. The samples associated with this CCV were non-detects for the affected analytes. In accordance with the laboratory SOP, a low level CCV at the reporting limit (labeled as an MRL) was analyzed and the affected compounds were detected; therefore the data has been reported. No further corrective action was required.

4009-10-20141209 (480-72829-10), 4009-11-20141209 (480-72829-11), 4009-11A-20141209 (480-72829-12), 4009-1-20141209 (480-72829-1), 4009-12A-20141209 (480-72829-14), 4009-13-20141209 (480-72829-15), 4009-13A-20141209 (480-72829-16), 4009-14-20141209 (480-72829-17), 4009-15-20141209 (480-72829-18), 4009-16-20141209 (480-72829-19), 4009-16A-20141209 (480-72829-20), 4009-2-20141209 (480-72829-2), 4009-22-20141209 (480-72829-21), 4009-23S-20141209 (480-72829-22), 4009-3-20141209 (480-72829-3), 4009-4-20141209 (480-72829-4), 4009-5-20141209 (480-72829-5), 4009-6-20141209 (480-72829-6), 4009-7-20141209 (480-72829-7), 4009-9-20141209 (480-72829-9)

Method(s) 8260C: The laboratory control sample (LCS) for batch 162001 recovered outside control limits for multiple analytes. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260C: No MS/MSD in batch 162132 due to insufficient sample.

4009-12A-20141209 (480-72829-14), 4009-2-20141209 (480-72829-2)

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 161995 recovered above the upper control limit for Acetone. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The following samples are impacted: 4009-27D-20141209 (480-72829-30), 4009-27I-20141209 (480-72829-29), 4009-28-20141209 (480-72829-31), 4009-29D-20141209 (480-72829-34), 4009-29I-20141209 (480-72829-33), 4009-29S-20141209 (480-72829-32), DUP-01-20141209 (480-72829-35), DUP-02-20141209 (480-72829-36), WELL 1-2A-20141209 (480-72829-41), WELL 1-3-20141209 (480-72829-42).

Method(s) 8260C: No Ms/Msd for batch 161994 due to instrument failure.

4009-24-20141209 (480-72829-24), FIELD BLANK-20141209 (480-72829-43), TRIP BLANK-01-20141209 (480-72829-44), TRIP BLANK-02-20141209 (480-72829-45)

Method(s) 8260C: The continuing calibration verification (CCV) for analytical batch 162145 exceeded control criteria for Bromomethane. The samples associated with this CCV were non-detects for the affected analyte. In accordance with the laboratory SOP, a low level CCV

Case Narrative

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

TestAmerica Job ID: 480-72829-1

Job ID: 480-72829-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

at the reporting limit (labeled as an MRL) was analyzed and the affected compound was detected; therefore the data has been reported.

No further corrective action was required.

4009-27S-20141209 (480-72829-28)

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

VOA Prep

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: 480-72829-1

Client Sample ID: 4009-1-20141209

Lab Sample ID: 480-72829-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.37	J	1.0	0.26	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	2.4		1.0	0.20	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.84	J *	1.0	0.20	ug/L	1		8260C	Total/NA
Trichloroethene	1.5		1.0	0.15	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-2-20141209

Lab Sample ID: 480-72829-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	1.5		1.0	0.37	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	3.4		1.0	0.26	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	6.9		1.0	0.20	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.51	J *	1.0	0.20	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	0.46	J	1.0	0.26	ug/L	1		8260C	Total/NA
Trichloroethene	2.5		1.0	0.15	ug/L	1		8260C	Total/NA
Vinyl chloride	6.5		1.0	0.29	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-3-20141209

Lab Sample ID: 480-72829-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	4.8		1.0	0.26	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	0.87	J	1.0	0.45	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	48		2.0	0.40	ug/L	2		8260C	Total/NA
trans-1,2-Dichloroethene	0.45	J	1.0	0.26	ug/L	1		8260C	Total/NA
Trichloroethene	11		1.0	0.15	ug/L	1		8260C	Total/NA
Vinyl chloride	16		1.0	0.29	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-4-20141209

Lab Sample ID: 480-72829-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.45	J	1.0	0.20	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-5-20141209

Lab Sample ID: 480-72829-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.7	J	2.5	0.65	ug/L	2.5		8260C	Total/NA
Benzene	0.62	J	2.5	0.60	ug/L	2.5		8260C	Total/NA
cis-1,2-Dichloroethene	170		6.7	1.3	ug/L	6.67		8260C	Total/NA
trans-1,2-Dichloroethene	0.69	J	2.5	0.65	ug/L	2.5		8260C	Total/NA
Trichloroethene	14		2.5	0.38	ug/L	2.5		8260C	Total/NA
Vinyl chloride	31		2.5	0.73	ug/L	2.5		8260C	Total/NA

Client Sample ID: 4009-6-20141209

Lab Sample ID: 480-72829-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.24	J	1.0	0.20	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	0.23	J	1.0	0.16	ug/L	1		8260C	Total/NA
Trichloroethene	0.37	J	1.0	0.15	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-7-20141209

Lab Sample ID: 480-72829-7

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: 480-72829-1

Client Sample ID: 4009-7-20141209 (Continued)

Lab Sample ID: 480-72829-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	38		3.3	0.67	ug/L	3.33		8260C	Total/NA
Trichloroethene	2.7	J	3.3	0.50	ug/L	3.33		8260C	Total/NA
Vinyl chloride	3.0	J	3.3	0.97	ug/L	3.33		8260C	Total/NA

Client Sample ID: 4009-8-20141209

Lab Sample ID: 480-72829-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1500		50	11	ug/L	50		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	17	J	25	9.3	ug/L	25		8260C	Total/NA
1,1-Dichloroethane	58		25	6.5	ug/L	25		8260C	Total/NA
1,1-Dichloroethene	120		25	11	ug/L	25		8260C	Total/NA
cis-1,2-Dichloroethene	490		25	5.0	ug/L	25		8260C	Total/NA
Trichloroethene	7.1	J	25	3.8	ug/L	25		8260C	Total/NA
Vinyl chloride	44		25	7.3	ug/L	25		8260C	Total/NA

Client Sample ID: 4009-9-20141209

Lab Sample ID: 480-72829-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.3		1.0	0.24	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	7.0		1.0	0.20	ug/L	1		8260C	Total/NA
Trichloroethene	0.80	J	1.0	0.15	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-10-20141209

Lab Sample ID: 480-72829-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.32	J	1.0	0.22	ug/L	1		8260C	Total/NA
Benzene	26		1.0	0.24	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-11-20141209

Lab Sample ID: 480-72829-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	7.8		1.0	0.24	ug/L	1		8260C	Total/NA
Toluene	1.0		1.0	0.22	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-11A-20141209

Lab Sample ID: 480-72829-12

No Detections.

Client Sample ID: 4009-12-20141209

Lab Sample ID: 480-72829-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	290		22	4.9	ug/L	22.22		8260C	Total/NA
1,1-Dichloroethane	29		22	5.8	ug/L	22.22		8260C	Total/NA
1,1-Dichloroethene	30		22	10	ug/L	22.22		8260C	Total/NA
cis-1,2-Dichloroethene	63		22	4.4	ug/L	22.22		8260C	Total/NA
Trichloroethene	64		22	3.3	ug/L	22.22		8260C	Total/NA
Vinyl chloride	30		22	6.4	ug/L	22.22		8260C	Total/NA

Client Sample ID: 4009-12A-20141209

Lab Sample ID: 480-72829-14

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: 480-72829-1

Client Sample ID: 4009-12A-20141209 (Continued)

Lab Sample ID: 480-72829-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.8		1.0	0.26	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	0.53	J	1.0	0.45	ug/L	1		8260C	Total/NA
Benzene	0.31	J	1.0	0.24	ug/L	1		8260C	Total/NA
Chloroethane	4.1		1.0	0.33	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	14		1.0	0.20	ug/L	1		8260C	Total/NA
Trichloroethene	0.30	J	1.0	0.15	ug/L	1		8260C	Total/NA
Vinyl chloride	6.5		1.0	0.29	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-13-20141209

Lab Sample ID: 480-72829-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.0		1.0	0.24	ug/L	1		8260C	Total/NA
Toluene	0.55	J	1.0	0.22	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-13A-20141209

Lab Sample ID: 480-72829-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.96	J	1.0	0.24	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-14-20141209

Lab Sample ID: 480-72829-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.54	J	1.0	0.24	ug/L	1		8260C	Total/NA
Toluene	0.92	J	1.0	0.22	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-15-20141209

Lab Sample ID: 480-72829-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.86	J	1.0	0.24	ug/L	1		8260C	Total/NA
Toluene	0.72	J	1.0	0.22	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-16-20141209

Lab Sample ID: 480-72829-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.39	J	1.0	0.24	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-16A-20141209

Lab Sample ID: 480-72829-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	8.0		1.0	0.24	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-22-20141209

Lab Sample ID: 480-72829-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.82	J	1.0	0.24	ug/L	1		8260C	Total/NA
Toluene	0.64	J	1.0	0.22	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-23S-20141209

Lab Sample ID: 480-72829-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
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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: 480-72829-1

Client Sample ID: 4009-23S-20141209 (Continued)

Lab Sample ID: 480-72829-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.2		1.0	0.26	ug/L	1		8260C	Total/NA
Benzene	1.1		1.0	0.24	ug/L	1		8260C	Total/NA
Chloroethane	0.64	J	1.0	0.33	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	2.9		1.0	0.20	ug/L	1		8260C	Total/NA
Isopropylbenzene	2.2		1.0	0.35	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	1.8		1.0	0.26	ug/L	1		8260C	Total/NA
Trichloroethene	1.8		1.0	0.15	ug/L	1		8260C	Total/NA
Vinyl chloride	0.80	J	1.0	0.29	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-23D-20141209

Lab Sample ID: 480-72829-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	570		25	5.5	ug/L	25		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	8.2		6.7	2.5	ug/L	6.67		8260C	Total/NA
1,1-Dichloroethane	280		25	6.5	ug/L	25		8260C	Total/NA
1,1-Dichloroethene	40		6.7	3.0	ug/L	6.67		8260C	Total/NA
Chloroethane	2.8	J	6.7	2.2	ug/L	6.67		8260C	Total/NA
cis-1,2-Dichloroethene	330		25	5.0	ug/L	25		8260C	Total/NA
Trichloroethene	4.9	J	6.7	1.0	ug/L	6.67		8260C	Total/NA
Vinyl chloride	340		25	7.3	ug/L	25		8260C	Total/NA

Client Sample ID: 4009-24-20141209

Lab Sample ID: 480-72829-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.48	J	1.0	0.21	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-25S-20141209

Lab Sample ID: 480-72829-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	3800		170	37	ug/L	166.67		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	32	J	50	19	ug/L	50		8260C	Total/NA
1,1-Dichloroethane	99		50	13	ug/L	50		8260C	Total/NA
1,1-Dichloroethene	280		50	23	ug/L	50		8260C	Total/NA
cis-1,2-Dichloroethene	260		50	10	ug/L	50		8260C	Total/NA
Trichloroethene	230		50	7.5	ug/L	50		8260C	Total/NA
Vinyl chloride	29	J	50	15	ug/L	50		8260C	Total/NA

Client Sample ID: 4009-25D-20141209

Lab Sample ID: 480-72829-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1900		83	18	ug/L	83.33		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	25	J	33	12	ug/L	33.33		8260C	Total/NA
1,1-Dichloroethane	50		33	8.7	ug/L	33.33		8260C	Total/NA
1,1-Dichloroethene	190		33	15	ug/L	33.33		8260C	Total/NA
cis-1,2-Dichloroethene	260		33	6.7	ug/L	33.33		8260C	Total/NA
Trichloroethene	100		33	5.0	ug/L	33.33		8260C	Total/NA
Vinyl chloride	32	J	33	9.7	ug/L	33.33		8260C	Total/NA

Client Sample ID: 4009-26-20141209

Lab Sample ID: 480-72829-27

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: 480-72829-1

Client Sample ID: 4009-26-20141209 (Continued)

Lab Sample ID: 480-72829-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,1,1-Trichloroethane	92		4.0	0.88	ug/L	4			8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	7.7		2.0	0.74	ug/L	2			8260C	Total/NA
1,1-Dichloroethane	14		2.0	0.52	ug/L	2			8260C	Total/NA
1,1-Dichloroethene	7.8		2.0	0.90	ug/L	2			8260C	Total/NA
Benzene	0.55	J	2.0	0.48	ug/L	2			8260C	Total/NA
cis-1,2-Dichloroethene	85		4.0	0.80	ug/L	4			8260C	Total/NA
Dichlorodifluoromethane	2.8		2.0	1.0	ug/L	2			8260C	Total/NA
Tetrachloroethene	0.89	J	2.0	0.40	ug/L	2			8260C	Total/NA
Trichloroethene	49		2.0	0.30	ug/L	2			8260C	Total/NA
Vinyl chloride	9.4		2.0	0.58	ug/L	2			8260C	Total/NA

Client Sample ID: 4009-27S-20141209

Lab Sample ID: 480-72829-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,1,1-Trichloroethane	49		2.0	0.44	ug/L	2			8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	2.6		2.0	0.74	ug/L	2			8260C	Total/NA
1,1-Dichloroethane	1.9	J	2.0	0.52	ug/L	2			8260C	Total/NA
1,1-Dichloroethene	4.6		2.0	0.90	ug/L	2			8260C	Total/NA
cis-1,2-Dichloroethene	19		2.0	0.40	ug/L	2			8260C	Total/NA
Trichloroethene	22		2.0	0.30	ug/L	2			8260C	Total/NA

Client Sample ID: 4009-27I-20141209

Lab Sample ID: 480-72829-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Carbon disulfide	0.86	J	1.0	0.28	ug/L	1			8260C	Total/NA
Toluene	0.77	J	1.0	0.22	ug/L	1			8260C	Total/NA
Trichloroethene	0.34	J	1.0	0.15	ug/L	1			8260C	Total/NA

Client Sample ID: 4009-27D-20141209

Lab Sample ID: 480-72829-30

No Detections.

Client Sample ID: 4009-28-20141209

Lab Sample ID: 480-72829-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,1,1-Trichloroethane	3.0		1.0	0.22	ug/L	1			8260C	Total/NA
1,1-Dichloroethane	0.28	J	1.0	0.26	ug/L	1			8260C	Total/NA
cis-1,2-Dichloroethene	0.25	J	1.0	0.20	ug/L	1			8260C	Total/NA

Client Sample ID: 4009-29S-20141209

Lab Sample ID: 480-72829-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,1,1-Trichloroethane	480		17	3.7	ug/L	16.67			8260C	Total/NA
1,1-Dichloroethane	29		17	4.3	ug/L	16.67			8260C	Total/NA
1,1-Dichloroethene	33		17	7.5	ug/L	16.67			8260C	Total/NA
cis-1,2-Dichloroethene	270		17	3.3	ug/L	16.67			8260C	Total/NA
Methylene Chloride	5.6	J B	17	4.7	ug/L	16.67			8260C	Total/NA
Trichloroethene	3.5	J	17	2.5	ug/L	16.67			8260C	Total/NA
Vinyl chloride	16	J	17	4.8	ug/L	16.67			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: 480-72829-1

Client Sample ID: 4009-29I-20141209

Lab Sample ID: 480-72829-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1100		40	8.8	ug/L	40		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	15	J	40	15	ug/L	40		8260C	Total/NA
1,1-Dichloroethane	82		40	10	ug/L	40		8260C	Total/NA
1,1-Dichloroethene	92		40	18	ug/L	40		8260C	Total/NA
cis-1,2-Dichloroethene	330		40	8.0	ug/L	40		8260C	Total/NA
Methylene Chloride	14	J B	40	11	ug/L	40		8260C	Total/NA
Trichloroethene	360		40	6.0	ug/L	40		8260C	Total/NA
Vinyl chloride	78		40	12	ug/L	40		8260C	Total/NA

Client Sample ID: 4009-29D-20141209

Lab Sample ID: 480-72829-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	170		5.7	1.3	ug/L	5.71		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	2.9	J	5.7	2.1	ug/L	5.71		8260C	Total/NA
1,1-Dichloroethane	27		5.7	1.5	ug/L	5.71		8260C	Total/NA
1,1-Dichloroethene	27		5.7	2.6	ug/L	5.71		8260C	Total/NA
cis-1,2-Dichloroethene	150		5.7	1.1	ug/L	5.71		8260C	Total/NA
Methylene Chloride	2.0	J B	5.7	1.6	ug/L	5.71		8260C	Total/NA
Trichloroethene	26		5.7	0.86	ug/L	5.71		8260C	Total/NA
Vinyl chloride	34		5.7	1.7	ug/L	5.71		8260C	Total/NA

Client Sample ID: DUP-01-20141209

Lab Sample ID: 480-72829-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1100		40	8.8	ug/L	40		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	15	J	40	15	ug/L	40		8260C	Total/NA
1,1-Dichloroethane	83		40	10	ug/L	40		8260C	Total/NA
1,1-Dichloroethene	83		40	18	ug/L	40		8260C	Total/NA
cis-1,2-Dichloroethene	330		40	8.0	ug/L	40		8260C	Total/NA
Methylene Chloride	15	J B	40	11	ug/L	40		8260C	Total/NA
Trichloroethene	360		40	6.0	ug/L	40		8260C	Total/NA
Vinyl chloride	68		40	12	ug/L	40		8260C	Total/NA

Client Sample ID: DUP-02-20141209

Lab Sample ID: 480-72829-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1800		77	17	ug/L	76.92		8260C	Total/NA
1,1-Dichloroethane	53	J	77	20	ug/L	76.92		8260C	Total/NA
1,1-Dichloroethene	130		77	35	ug/L	76.92		8260C	Total/NA
cis-1,2-Dichloroethene	280		77	15	ug/L	76.92		8260C	Total/NA
Methylene Chloride	26	J B	77	22	ug/L	76.92		8260C	Total/NA
Trichloroethene	84		77	12	ug/L	76.92		8260C	Total/NA
Vinyl chloride	32	J	77	22	ug/L	76.92		8260C	Total/NA

Client Sample ID: WELL 1-2A-20141209

Lab Sample ID: 480-72829-41

No Detections.

Client Sample ID: WELL1-3-20141209

Lab Sample ID: 480-72829-42

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: 480-72829-1

Client Sample ID: FIELD BLANK-20141209

Lab Sample ID: 480-72829-43

No Detections.

Client Sample ID: TRIP BLANK-01-20141209

Lab Sample ID: 480-72829-44

No Detections.

Client Sample ID: TRIP BLANK-02-20141209

Lab Sample ID: 480-72829-45

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: 480-72829-1

Client Sample ID: 4009-1-20141209

Lab Sample ID: 480-72829-1

Date Collected: 12/09/14 11:10

Matrix: Water

Date Received: 12/11/14 05:10

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	0.22	ug/L			12/20/14 13:27	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			12/20/14 13:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.37	ug/L			12/20/14 13:27	1
1,1,2-Trichloroethane	1.0	U	1.0	0.17	ug/L			12/20/14 13:27	1
1,1-Dichloroethane	0.37	J	1.0	0.26	ug/L			12/20/14 13:27	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			12/20/14 13:27	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.47	ug/L			12/20/14 13:27	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			12/20/14 13:27	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			12/20/14 13:27	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			12/20/14 13:27	1
1,2-Dibromoethane	1.0	U	1.0	0.19	ug/L			12/20/14 13:27	1
1,2-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 13:27	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			12/20/14 13:27	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			12/20/14 13:27	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			12/20/14 13:27	1
1,3-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 13:27	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			12/20/14 13:27	1
2-Butanone (MEK)	10	U	10	4.1	ug/L			12/20/14 13:27	1
2-Hexanone	10	U	10	3.9	ug/L			12/20/14 13:27	1
4-Methyl-2-pentanone (MIBK)	10	U	10	3.6	ug/L			12/20/14 13:27	1
Acetone	10	U	10	3.4	ug/L			12/20/14 13:27	1
Benzene	1.0	U	1.0	0.24	ug/L			12/20/14 13:27	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			12/20/14 13:27	1
Bromoform	1.0	U	1.0	0.56	ug/L			12/20/14 13:27	1
Bromomethane	1.0	U	1.0	0.63	ug/L			12/20/14 13:27	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			12/20/14 13:27	1
Carbon tetrachloride	1.0	U	1.0	0.17	ug/L			12/20/14 13:27	1
Chlorobenzene	1.0	U	1.0	0.19	ug/L			12/20/14 13:27	1
Chloroethane	1.0	U	1.0	0.33	ug/L			12/20/14 13:27	1
Chloroform	1.0	U	1.0	0.21	ug/L			12/20/14 13:27	1
Chloromethane	1.0	U	1.0	0.44	ug/L			12/20/14 13:27	1
cis-1,2-Dichloroethene	2.4		1.0	0.20	ug/L			12/20/14 13:27	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			12/20/14 13:27	1
Cyclohexane	1.0	U	1.0	0.33	ug/L			12/20/14 13:27	1
Dibromochloromethane	1.0	U *	1.0	0.43	ug/L			12/20/14 13:27	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/20/14 13:27	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			12/20/14 13:27	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			12/20/14 13:27	1
Methyl acetate	10	U	10	2.3	ug/L			12/20/14 13:27	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/20/14 13:27	1
Methylcyclohexane	1.0	U	1.0	0.23	ug/L			12/20/14 13:27	1
Methylene Chloride	1.0	U	1.0	0.28	ug/L			12/20/14 13:27	1
Styrene	1.0	U	1.0	0.45	ug/L			12/20/14 13:27	1
Tetrachloroethene	0.84	J *	1.0	0.20	ug/L			12/20/14 13:27	1
Toluene	1.0	U	1.0	0.22	ug/L			12/20/14 13:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			12/20/14 13:27	1
trans-1,3-Dichloropropene	1.0	U *	1.0	0.56	ug/L			12/20/14 13:27	1
Trichloroethene	1.5		1.0	0.15	ug/L			12/20/14 13:27	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			12/20/14 13:27	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-1-20141209

Lab Sample ID: 480-72829-1

Date Collected: 12/09/14 11:10

Matrix: Water

Date Received: 12/11/14 05:10

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	0.29	ug/L			12/20/14 13:27	1
Xylenes, Total	2.0	U	2.0	0.43	ug/L			12/20/14 13:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		63 - 129					12/20/14 13:27	1
4-Bromofluorobenzene (Surr)	83		66 - 120					12/20/14 13:27	1
Dibromofluoromethane (Surr)	87		75 - 121					12/20/14 13:27	1
Toluene-d8 (Surr)	87		74 - 120					12/20/14 13:27	1

Client Sample ID: 4009-2-20141209

Lab Sample ID: 480-72829-2

Date Collected: 12/09/14 11:23

Matrix: Water

Date Received: 12/11/14 05:10

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	0.22	ug/L			12/20/14 13:49	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			12/20/14 13:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.5		1.0	0.37	ug/L			12/22/14 11:22	1
1,1,2-Trichloroethane	1.0	U	1.0	0.17	ug/L			12/20/14 13:49	1
1,1-Dichloroethane	3.4		1.0	0.26	ug/L			12/20/14 13:49	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			12/20/14 13:49	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.47	ug/L			12/20/14 13:49	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			12/20/14 13:49	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			12/20/14 13:49	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			12/20/14 13:49	1
1,2-Dibromoethane	1.0	U	1.0	0.19	ug/L			12/20/14 13:49	1
1,2-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 13:49	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			12/20/14 13:49	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			12/20/14 13:49	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			12/20/14 13:49	1
1,3-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 13:49	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			12/20/14 13:49	1
2-Butanone (MEK)	10	U	10	4.1	ug/L			12/20/14 13:49	1
2-Hexanone	10	U	10	3.9	ug/L			12/20/14 13:49	1
4-Methyl-2-pentanone (MIBK)	10	U	10	3.6	ug/L			12/20/14 13:49	1
Acetone	10	U	10	3.4	ug/L			12/20/14 13:49	1
Benzene	1.0	U	1.0	0.24	ug/L			12/20/14 13:49	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			12/20/14 13:49	1
Bromoform	1.0	U	1.0	0.56	ug/L			12/20/14 13:49	1
Bromomethane	1.0	U	1.0	0.63	ug/L			12/20/14 13:49	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			12/20/14 13:49	1
Carbon tetrachloride	1.0	U	1.0	0.17	ug/L			12/20/14 13:49	1
Chlorobenzene	1.0	U	1.0	0.19	ug/L			12/20/14 13:49	1
Chloroethane	1.0	U	1.0	0.33	ug/L			12/20/14 13:49	1
Chloroform	1.0	U	1.0	0.21	ug/L			12/20/14 13:49	1
Chloromethane	1.0	U	1.0	0.44	ug/L			12/20/14 13:49	1
cis-1,2-Dichloroethene	6.9		1.0	0.20	ug/L			12/20/14 13:49	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			12/20/14 13:49	1
Cyclohexane	1.0	U	1.0	0.33	ug/L			12/20/14 13:49	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-2-20141209

Lab Sample ID: 480-72829-2

Date Collected: 12/09/14 11:23

Matrix: Water

Date Received: 12/11/14 05:10

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	0.43	ug/L			12/20/14 13:49	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/20/14 13:49	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			12/20/14 13:49	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			12/20/14 13:49	1
Methyl acetate	10	U	10	2.3	ug/L			12/20/14 13:49	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/20/14 13:49	1
Methylcyclohexane	1.0	U	1.0	0.23	ug/L			12/20/14 13:49	1
Methylene Chloride	1.0	U	1.0	0.28	ug/L			12/20/14 13:49	1
Styrene	1.0	U	1.0	0.45	ug/L			12/20/14 13:49	1
Tetrachloroethene	0.51	J *	1.0	0.20	ug/L			12/20/14 13:49	1
Toluene	1.0	U	1.0	0.22	ug/L			12/20/14 13:49	1
trans-1,2-Dichloroethene	0.46	J	1.0	0.26	ug/L			12/20/14 13:49	1
trans-1,3-Dichloropropene	1.0	U *	1.0	0.56	ug/L			12/20/14 13:49	1
Trichloroethene	2.5		1.0	0.15	ug/L			12/20/14 13:49	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			12/20/14 13:49	1
Vinyl chloride	6.5		1.0	0.29	ug/L			12/20/14 13:49	1
Xylenes, Total	2.0	U	2.0	0.43	ug/L			12/20/14 13:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		63 - 129		12/20/14 13:49	1
1,2-Dichloroethane-d4 (Surr)	98		63 - 129		12/22/14 11:22	1
4-Bromofluorobenzene (Surr)	86		66 - 120		12/20/14 13:49	1
4-Bromofluorobenzene (Surr)	83		66 - 120		12/22/14 11:22	1
Dibromofluoromethane (Surr)	84		75 - 121		12/20/14 13:49	1
Dibromofluoromethane (Surr)	87		75 - 121		12/22/14 11:22	1
Toluene-d8 (Surr)	81		74 - 120		12/20/14 13:49	1
Toluene-d8 (Surr)	85		74 - 120		12/22/14 11:22	1

Client Sample ID: 4009-3-20141209

Lab Sample ID: 480-72829-3

Date Collected: 12/09/14 11:38

Matrix: Water

Date Received: 12/11/14 05:10

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	0.22	ug/L			12/20/14 14:11	1
1,1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			12/20/14 14:11	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.37	ug/L			12/20/14 14:11	1
1,1,2-Trichloroethane	1.0	U	1.0	0.17	ug/L			12/20/14 14:11	1
1,1-Dichloroethane	4.8		1.0	0.26	ug/L			12/20/14 14:11	1
1,1-Dichloroethene	0.87	J	1.0	0.45	ug/L			12/20/14 14:11	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.47	ug/L			12/20/14 14:11	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			12/20/14 14:11	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			12/20/14 14:11	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			12/20/14 14:11	1
1,2-Dibromoethane	1.0	U	1.0	0.19	ug/L			12/20/14 14:11	1
1,2-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 14:11	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			12/20/14 14:11	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			12/20/14 14:11	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			12/20/14 14:11	1
1,3-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 14:11	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-3-20141209

Lab Sample ID: 480-72829-3

Date Collected: 12/09/14 11:38

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			12/20/14 14:11	1
2-Butanone (MEK)	10	U	10	4.1	ug/L			12/20/14 14:11	1
2-Hexanone	10	U	10	3.9	ug/L			12/20/14 14:11	1
4-Methyl-2-pentanone (MIBK)	10	U	10	3.6	ug/L			12/20/14 14:11	1
Acetone	10	U	10	3.4	ug/L			12/20/14 14:11	1
Benzene	1.0	U	1.0	0.24	ug/L			12/20/14 14:11	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			12/20/14 14:11	1
Bromoform	1.0	U	1.0	0.56	ug/L			12/20/14 14:11	1
Bromomethane	1.0	U	1.0	0.63	ug/L			12/20/14 14:11	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			12/20/14 14:11	1
Carbon tetrachloride	1.0	U	1.0	0.17	ug/L			12/20/14 14:11	1
Chlorobenzene	1.0	U	1.0	0.19	ug/L			12/20/14 14:11	1
Chloroethane	1.0	U	1.0	0.33	ug/L			12/20/14 14:11	1
Chloroform	1.0	U	1.0	0.21	ug/L			12/20/14 14:11	1
Chloromethane	1.0	U	1.0	0.44	ug/L			12/20/14 14:11	1
cis-1,2-Dichloroethene	48		2.0	0.40	ug/L			12/21/14 18:02	2
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			12/20/14 14:11	1
Cyclohexane	1.0	U	1.0	0.33	ug/L			12/20/14 14:11	1
Dibromochloromethane	1.0	U *	1.0	0.43	ug/L			12/20/14 14:11	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/20/14 14:11	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			12/20/14 14:11	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			12/20/14 14:11	1
Methyl acetate	10	U	10	2.3	ug/L			12/20/14 14:11	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/20/14 14:11	1
Methylcyclohexane	1.0	U	1.0	0.23	ug/L			12/20/14 14:11	1
Methylene Chloride	1.0	U	1.0	0.28	ug/L			12/20/14 14:11	1
Styrene	1.0	U	1.0	0.45	ug/L			12/20/14 14:11	1
Tetrachloroethene	1.0	U *	1.0	0.20	ug/L			12/20/14 14:11	1
Toluene	1.0	U	1.0	0.22	ug/L			12/20/14 14:11	1
trans-1,2-Dichloroethene	0.45	J	1.0	0.26	ug/L			12/20/14 14:11	1
trans-1,3-Dichloropropene	1.0	U *	1.0	0.56	ug/L			12/20/14 14:11	1
Trichloroethene	11		1.0	0.15	ug/L			12/20/14 14:11	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			12/20/14 14:11	1
Vinyl chloride	16		1.0	0.29	ug/L			12/20/14 14:11	1
Xylenes, Total	2.0	U	2.0	0.43	ug/L			12/20/14 14:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		63 - 129		12/20/14 14:11	1
1,2-Dichloroethane-d4 (Surr)	86		63 - 129		12/21/14 18:02	2
4-Bromofluorobenzene (Surr)	83		66 - 120		12/20/14 14:11	1
4-Bromofluorobenzene (Surr)	90		66 - 120		12/21/14 18:02	2
Dibromofluoromethane (Surr)	84		75 - 121		12/20/14 14:11	1
Dibromofluoromethane (Surr)	93		75 - 121		12/21/14 18:02	2
Toluene-d8 (Surr)	81		74 - 120		12/20/14 14:11	1
Toluene-d8 (Surr)	79		74 - 120		12/21/14 18:02	2

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-4-20141209

Lab Sample ID: 480-72829-4

Date Collected: 12/09/14 12:10

Matrix: Water

Date Received: 12/11/14 05:10

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	0.22	ug/L			12/20/14 14:34	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			12/20/14 14:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.37	ug/L			12/20/14 14:34	1
1,1,2-Trichloroethane	1.0	U	1.0	0.17	ug/L			12/20/14 14:34	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			12/20/14 14:34	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			12/20/14 14:34	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.47	ug/L			12/20/14 14:34	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			12/20/14 14:34	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			12/20/14 14:34	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			12/20/14 14:34	1
1,2-Dibromoethane	1.0	U	1.0	0.19	ug/L			12/20/14 14:34	1
1,2-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 14:34	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			12/20/14 14:34	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			12/20/14 14:34	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			12/20/14 14:34	1
1,3-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 14:34	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			12/20/14 14:34	1
2-Butanone (MEK)	10	U	10	4.1	ug/L			12/20/14 14:34	1
2-Hexanone	10	U	10	3.9	ug/L			12/20/14 14:34	1
4-Methyl-2-pentanone (MIBK)	10	U	10	3.6	ug/L			12/20/14 14:34	1
Acetone	10	U	10	3.4	ug/L			12/20/14 14:34	1
Benzene	1.0	U	1.0	0.24	ug/L			12/20/14 14:34	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			12/20/14 14:34	1
Bromoform	1.0	U	1.0	0.56	ug/L			12/20/14 14:34	1
Bromomethane	1.0	U	1.0	0.63	ug/L			12/20/14 14:34	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			12/20/14 14:34	1
Carbon tetrachloride	1.0	U	1.0	0.17	ug/L			12/20/14 14:34	1
Chlorobenzene	1.0	U	1.0	0.19	ug/L			12/20/14 14:34	1
Chloroethane	1.0	U	1.0	0.33	ug/L			12/20/14 14:34	1
Chloroform	1.0	U	1.0	0.21	ug/L			12/20/14 14:34	1
Chloromethane	1.0	U	1.0	0.44	ug/L			12/20/14 14:34	1
cis-1,2-Dichloroethene	0.45	J	1.0	0.20	ug/L			12/20/14 14:34	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			12/20/14 14:34	1
Cyclohexane	1.0	U	1.0	0.33	ug/L			12/20/14 14:34	1
Dibromochloromethane	1.0	U *	1.0	0.43	ug/L			12/20/14 14:34	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/20/14 14:34	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			12/20/14 14:34	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			12/20/14 14:34	1
Methyl acetate	10	U	10	2.3	ug/L			12/20/14 14:34	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/20/14 14:34	1
Methylcyclohexane	1.0	U	1.0	0.23	ug/L			12/20/14 14:34	1
Methylene Chloride	1.0	U	1.0	0.28	ug/L			12/20/14 14:34	1
Styrene	1.0	U	1.0	0.45	ug/L			12/20/14 14:34	1
Tetrachloroethene	1.0	U *	1.0	0.20	ug/L			12/20/14 14:34	1
Toluene	1.0	U	1.0	0.22	ug/L			12/20/14 14:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			12/20/14 14:34	1
trans-1,3-Dichloropropene	1.0	U *	1.0	0.56	ug/L			12/20/14 14:34	1
Trichloroethene	1.0	U	1.0	0.15	ug/L			12/20/14 14:34	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			12/20/14 14:34	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-4-20141209

Lab Sample ID: 480-72829-4

Date Collected: 12/09/14 12:10

Matrix: Water

Date Received: 12/11/14 05:10

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	0.29	ug/L			12/20/14 14:34	1
Xylenes, Total	2.0	U	2.0	0.43	ug/L			12/20/14 14:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		63 - 129					12/20/14 14:34	1
4-Bromofluorobenzene (Surr)	83		66 - 120					12/20/14 14:34	1
Dibromofluoromethane (Surr)	84		75 - 121					12/20/14 14:34	1
Toluene-d8 (Surr)	82		74 - 120					12/20/14 14:34	1

Client Sample ID: 4009-5-20141209

Lab Sample ID: 480-72829-5

Date Collected: 12/09/14 11:52

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.5	U	2.5	0.55	ug/L			12/20/14 14:56	2.5
1,1,2,2-Tetrachloroethane	2.5	U	2.5	0.55	ug/L			12/20/14 14:56	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane	2.5	U	2.5	0.93	ug/L			12/20/14 14:56	2.5
1,1,2-Trichloroethane	2.5	U	2.5	0.43	ug/L			12/20/14 14:56	2.5
1,1-Dichloroethane	1.7	J	2.5	0.65	ug/L			12/20/14 14:56	2.5
1,1-Dichloroethene	2.5	U	2.5	1.1	ug/L			12/20/14 14:56	2.5
1,2,3-Trimethylbenzene	13	U	13	1.2	ug/L			12/20/14 14:56	2.5
1,2,4-Trichlorobenzene	2.5	U	2.5	0.80	ug/L			12/20/14 14:56	2.5
1,2,4-Trimethylbenzene	2.5	U	2.5	1.0	ug/L			12/20/14 14:56	2.5
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.1	ug/L			12/20/14 14:56	2.5
1,2-Dibromoethane	2.5	U	2.5	0.48	ug/L			12/20/14 14:56	2.5
1,2-Dichlorobenzene	2.5	U	2.5	0.43	ug/L			12/20/14 14:56	2.5
1,2-Dichloroethane	2.5	U	2.5	0.50	ug/L			12/20/14 14:56	2.5
1,2-Dichloropropane	2.5	U	2.5	0.55	ug/L			12/20/14 14:56	2.5
1,3,5-Trimethylbenzene	2.5	U	2.5	1.2	ug/L			12/20/14 14:56	2.5
1,3-Dichlorobenzene	2.5	U	2.5	0.43	ug/L			12/20/14 14:56	2.5
1,4-Dichlorobenzene	2.5	U	2.5	0.40	ug/L			12/20/14 14:56	2.5
2-Butanone (MEK)	25	U	25	10	ug/L			12/20/14 14:56	2.5
2-Hexanone	25	U	25	9.7	ug/L			12/20/14 14:56	2.5
4-Methyl-2-pentanone (MIBK)	25	U	25	9.0	ug/L			12/20/14 14:56	2.5
Acetone	25	U	25	8.6	ug/L			12/20/14 14:56	2.5
Benzene	0.62	J	2.5	0.60	ug/L			12/20/14 14:56	2.5
Bromodichloromethane	2.5	U	2.5	0.38	ug/L			12/20/14 14:56	2.5
Bromoform	2.5	U	2.5	1.4	ug/L			12/20/14 14:56	2.5
Bromomethane	2.5	U	2.5	1.6	ug/L			12/20/14 14:56	2.5
Carbon disulfide	2.5	U	2.5	0.70	ug/L			12/20/14 14:56	2.5
Carbon tetrachloride	2.5	U	2.5	0.43	ug/L			12/20/14 14:56	2.5
Chlorobenzene	2.5	U	2.5	0.48	ug/L			12/20/14 14:56	2.5
Chloroethane	2.5	U	2.5	0.83	ug/L			12/20/14 14:56	2.5
Chloroform	2.5	U	2.5	0.53	ug/L			12/20/14 14:56	2.5
Chloromethane	2.5	U	2.5	1.1	ug/L			12/20/14 14:56	2.5
cis-1,2-Dichloroethene	170		6.7	1.3	ug/L			12/21/14 18:24	6.67
cis-1,3-Dichloropropene	2.5	U	2.5	1.2	ug/L			12/20/14 14:56	2.5
Cyclohexane	2.5	U	2.5	0.83	ug/L			12/20/14 14:56	2.5
Dibromochloromethane	2.5	U *	2.5	1.1	ug/L			12/20/14 14:56	2.5

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-5-20141209

Lab Sample ID: 480-72829-5

Date Collected: 12/09/14 11:52

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	2.5	U	2.5	1.3	ug/L			12/20/14 14:56	2.5
Ethylbenzene	2.5	U	2.5	0.58	ug/L			12/20/14 14:56	2.5
Isopropylbenzene	2.5	U	2.5	0.88	ug/L			12/20/14 14:56	2.5
Methyl acetate	25	U	25	5.7	ug/L			12/20/14 14:56	2.5
Methyl tert-butyl ether	2.5	U	2.5	0.40	ug/L			12/20/14 14:56	2.5
Methylcyclohexane	2.5	U	2.5	0.58	ug/L			12/20/14 14:56	2.5
Methylene Chloride	2.5	U	2.5	0.70	ug/L			12/20/14 14:56	2.5
Styrene	2.5	U	2.5	1.1	ug/L			12/20/14 14:56	2.5
Tetrachloroethene	2.5	U *	2.5	0.50	ug/L			12/20/14 14:56	2.5
Toluene	2.5	U	2.5	0.55	ug/L			12/20/14 14:56	2.5
trans-1,2-Dichloroethene	0.69	J	2.5	0.65	ug/L			12/20/14 14:56	2.5
trans-1,3-Dichloropropene	2.5	U *	2.5	1.4	ug/L			12/20/14 14:56	2.5
Trichloroethene	14		2.5	0.38	ug/L			12/20/14 14:56	2.5
Trichlorofluoromethane	2.5	U	2.5	1.2	ug/L			12/20/14 14:56	2.5
Vinyl chloride	31		2.5	0.73	ug/L			12/20/14 14:56	2.5
Xylenes, Total	5.0	U	5.0	1.1	ug/L			12/20/14 14:56	2.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		63 - 129		12/20/14 14:56	2.5
1,2-Dichloroethane-d4 (Surr)	78		63 - 129		12/21/14 18:24	6.67
4-Bromofluorobenzene (Surr)	87		66 - 120		12/20/14 14:56	2.5
4-Bromofluorobenzene (Surr)	88		66 - 120		12/21/14 18:24	6.67
Dibromofluoromethane (Surr)	89		75 - 121		12/20/14 14:56	2.5
Dibromofluoromethane (Surr)	87		75 - 121		12/21/14 18:24	6.67
Toluene-d8 (Surr)	85		74 - 120		12/20/14 14:56	2.5
Toluene-d8 (Surr)	77		74 - 120		12/21/14 18:24	6.67

Client Sample ID: 4009-6-20141209

Lab Sample ID: 480-72829-6

Date Collected: 12/09/14 11:15

Matrix: Water

Date Received: 12/11/14 05:10

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	0.22	ug/L			12/20/14 15:19	1
1,1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			12/20/14 15:19	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.37	ug/L			12/20/14 15:19	1
1,1,2-Trichloroethane	1.0	U	1.0	0.17	ug/L			12/20/14 15:19	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			12/20/14 15:19	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			12/20/14 15:19	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.47	ug/L			12/20/14 15:19	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			12/20/14 15:19	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			12/20/14 15:19	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			12/20/14 15:19	1
1,2-Dibromoethane	1.0	U	1.0	0.19	ug/L			12/20/14 15:19	1
1,2-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 15:19	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			12/20/14 15:19	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			12/20/14 15:19	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			12/20/14 15:19	1
1,3-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 15:19	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			12/20/14 15:19	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-6-20141209

Lab Sample ID: 480-72829-6

Date Collected: 12/09/14 11:15

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	10	U	10	4.1	ug/L			12/20/14 15:19	1
2-Hexanone	10	U	10	3.9	ug/L			12/20/14 15:19	1
4-Methyl-2-pentanone (MIBK)	10	U	10	3.6	ug/L			12/20/14 15:19	1
Acetone	10	U	10	3.4	ug/L			12/20/14 15:19	1
Benzene	1.0	U	1.0	0.24	ug/L			12/20/14 15:19	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			12/20/14 15:19	1
Bromoform	1.0	U	1.0	0.56	ug/L			12/20/14 15:19	1
Bromomethane	1.0	U	1.0	0.63	ug/L			12/20/14 15:19	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			12/20/14 15:19	1
Carbon tetrachloride	1.0	U	1.0	0.17	ug/L			12/20/14 15:19	1
Chlorobenzene	1.0	U	1.0	0.19	ug/L			12/20/14 15:19	1
Chloroethane	1.0	U	1.0	0.33	ug/L			12/20/14 15:19	1
Chloroform	1.0	U	1.0	0.21	ug/L			12/20/14 15:19	1
Chloromethane	1.0	U	1.0	0.44	ug/L			12/20/14 15:19	1
cis-1,2-Dichloroethene	0.24	J	1.0	0.20	ug/L			12/20/14 15:19	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			12/20/14 15:19	1
Cyclohexane	1.0	U	1.0	0.33	ug/L			12/20/14 15:19	1
Dibromochloromethane	1.0	U *	1.0	0.43	ug/L			12/20/14 15:19	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/20/14 15:19	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			12/20/14 15:19	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			12/20/14 15:19	1
Methyl acetate	10	U	10	2.3	ug/L			12/20/14 15:19	1
Methyl tert-butyl ether	0.23	J	1.0	0.16	ug/L			12/20/14 15:19	1
Methylcyclohexane	1.0	U	1.0	0.23	ug/L			12/20/14 15:19	1
Methylene Chloride	1.0	U	1.0	0.28	ug/L			12/20/14 15:19	1
Styrene	1.0	U	1.0	0.45	ug/L			12/20/14 15:19	1
Tetrachloroethene	1.0	U *	1.0	0.20	ug/L			12/20/14 15:19	1
Toluene	1.0	U	1.0	0.22	ug/L			12/20/14 15:19	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			12/20/14 15:19	1
trans-1,3-Dichloropropene	1.0	U *	1.0	0.56	ug/L			12/20/14 15:19	1
Trichloroethene	0.37	J	1.0	0.15	ug/L			12/20/14 15:19	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			12/20/14 15:19	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			12/20/14 15:19	1
Xylenes, Total	2.0	U	2.0	0.43	ug/L			12/20/14 15:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		63 - 129		12/20/14 15:19	1
4-Bromofluorobenzene (Surr)	86		66 - 120		12/20/14 15:19	1
Dibromofluoromethane (Surr)	87		75 - 121		12/20/14 15:19	1
Toluene-d8 (Surr)	86		74 - 120		12/20/14 15:19	1

Client Sample ID: 4009-7-20141209

Lab Sample ID: 480-72829-7

Date Collected: 12/09/14 12:20

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	3.3	U	3.3	0.73	ug/L			12/20/14 15:41	3.33
1,1,2,2-Tetrachloroethane	3.3	U	3.3	0.73	ug/L			12/20/14 15:41	3.33
1,1,2-Trichloro-1,2,2-trifluoroethane	3.3	U	3.3	1.2	ug/L			12/20/14 15:41	3.33

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-7-20141209

Lab Sample ID: 480-72829-7

Date Collected: 12/09/14 12:20

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	3.3	U	3.3	0.57	ug/L			12/20/14 15:41	3.33
1,1-Dichloroethane	3.3	U	3.3	0.87	ug/L			12/20/14 15:41	3.33
1,1-Dichloroethene	3.3	U	3.3	1.5	ug/L			12/20/14 15:41	3.33
1,2,3-Trimethylbenzene	17	U	17	1.6	ug/L			12/20/14 15:41	3.33
1,2,4-Trichlorobenzene	3.3	U	3.3	1.1	ug/L			12/20/14 15:41	3.33
1,2,4-Trimethylbenzene	3.3	U	3.3	1.4	ug/L			12/20/14 15:41	3.33
1,2-Dibromo-3-Chloropropane	6.7	U	6.7	2.7	ug/L			12/20/14 15:41	3.33
1,2-Dibromoethane	3.3	U	3.3	0.63	ug/L			12/20/14 15:41	3.33
1,2-Dichlorobenzene	3.3	U	3.3	0.57	ug/L			12/20/14 15:41	3.33
1,2-Dichloroethane	3.3	U	3.3	0.67	ug/L			12/20/14 15:41	3.33
1,2-Dichloropropane	3.3	U	3.3	0.73	ug/L			12/20/14 15:41	3.33
1,3,5-Trimethylbenzene	3.3	U	3.3	1.6	ug/L			12/20/14 15:41	3.33
1,3-Dichlorobenzene	3.3	U	3.3	0.57	ug/L			12/20/14 15:41	3.33
1,4-Dichlorobenzene	3.3	U	3.3	0.53	ug/L			12/20/14 15:41	3.33
2-Butanone (MEK)	33	U	33	14	ug/L			12/20/14 15:41	3.33
2-Hexanone	33	U	33	13	ug/L			12/20/14 15:41	3.33
4-Methyl-2-pentanone (MIBK)	33	U	33	12	ug/L			12/20/14 15:41	3.33
Acetone	33	U	33	11	ug/L			12/20/14 15:41	3.33
Benzene	3.3	U	3.3	0.80	ug/L			12/20/14 15:41	3.33
Bromodichloromethane	3.3	U	3.3	0.50	ug/L			12/20/14 15:41	3.33
Bromoform	3.3	U	3.3	1.9	ug/L			12/20/14 15:41	3.33
Bromomethane	3.3	U	3.3	2.1	ug/L			12/20/14 15:41	3.33
Carbon disulfide	3.3	U	3.3	0.93	ug/L			12/20/14 15:41	3.33
Carbon tetrachloride	3.3	U	3.3	0.57	ug/L			12/20/14 15:41	3.33
Chlorobenzene	3.3	U	3.3	0.63	ug/L			12/20/14 15:41	3.33
Chloroethane	3.3	U	3.3	1.1	ug/L			12/20/14 15:41	3.33
Chloroform	3.3	U	3.3	0.70	ug/L			12/20/14 15:41	3.33
Chloromethane	3.3	U	3.3	1.5	ug/L			12/20/14 15:41	3.33
cis-1,2-Dichloroethene	38		3.3	0.67	ug/L			12/20/14 15:41	3.33
cis-1,3-Dichloropropene	3.3	U	3.3	1.5	ug/L			12/20/14 15:41	3.33
Cyclohexane	3.3	U	3.3	1.1	ug/L			12/20/14 15:41	3.33
Dibromochloromethane	3.3	U *	3.3	1.4	ug/L			12/20/14 15:41	3.33
Dichlorodifluoromethane	3.3	U	3.3	1.7	ug/L			12/20/14 15:41	3.33
Ethylbenzene	3.3	U	3.3	0.77	ug/L			12/20/14 15:41	3.33
Isopropylbenzene	3.3	U	3.3	1.2	ug/L			12/20/14 15:41	3.33
Methyl acetate	33	U	33	7.6	ug/L			12/20/14 15:41	3.33
Methyl tert-butyl ether	3.3	U	3.3	0.53	ug/L			12/20/14 15:41	3.33
Methylcyclohexane	3.3	U	3.3	0.77	ug/L			12/20/14 15:41	3.33
Methylene Chloride	3.3	U	3.3	0.93	ug/L			12/20/14 15:41	3.33
Styrene	3.3	U	3.3	1.5	ug/L			12/20/14 15:41	3.33
Tetrachloroethene	3.3	U *	3.3	0.67	ug/L			12/20/14 15:41	3.33
Toluene	3.3	U	3.3	0.73	ug/L			12/20/14 15:41	3.33
trans-1,2-Dichloroethene	3.3	U	3.3	0.87	ug/L			12/20/14 15:41	3.33
trans-1,3-Dichloropropene	3.3	U *	3.3	1.9	ug/L			12/20/14 15:41	3.33
Trichloroethene	2.7	J	3.3	0.50	ug/L			12/20/14 15:41	3.33
Trichlorofluoromethane	3.3	U	3.3	1.6	ug/L			12/20/14 15:41	3.33
Vinyl chloride	3.0	J	3.3	0.97	ug/L			12/20/14 15:41	3.33
Xylenes, Total	6.7	U	6.7	1.4	ug/L			12/20/14 15:41	3.33

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-7-20141209

Lab Sample ID: 480-72829-7

Date Collected: 12/09/14 12:20

Matrix: Water

Date Received: 12/11/14 05:10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		63 - 129		12/20/14 15:41	3.33
4-Bromofluorobenzene (Surr)	85		66 - 120		12/20/14 15:41	3.33
Dibromofluoromethane (Surr)	84		75 - 121		12/20/14 15:41	3.33
Toluene-d8 (Surr)	83		74 - 120		12/20/14 15:41	3.33

Client Sample ID: 4009-8-20141209

Lab Sample ID: 480-72829-8

Date Collected: 12/09/14 10:58

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1500		50	11	ug/L			12/21/14 16:09	50
1,1,2,2-Tetrachloroethane	25	U	25	5.5	ug/L			12/20/14 13:57	25
1,1,2-Trichloro-1,2,2-trifluoroethane	17	J	25	9.3	ug/L			12/20/14 13:57	25
1,1,2-Trichloroethane	25	U	25	4.3	ug/L			12/20/14 13:57	25
1,1-Dichloroethane	58		25	6.5	ug/L			12/20/14 13:57	25
1,1-Dichloroethene	120		25	11	ug/L			12/20/14 13:57	25
1,2,3-Trimethylbenzene	130	U	130	12	ug/L			12/20/14 13:57	25
1,2,4-Trichlorobenzene	25	U	25	8.0	ug/L			12/20/14 13:57	25
1,2,4-Trimethylbenzene	25	U	25	10	ug/L			12/20/14 13:57	25
1,2-Dibromo-3-Chloropropane	50	U	50	21	ug/L			12/20/14 13:57	25
1,2-Dibromoethane	25	U	25	4.8	ug/L			12/20/14 13:57	25
1,2-Dichlorobenzene	25	U	25	4.3	ug/L			12/20/14 13:57	25
1,2-Dichloroethane	25	U	25	5.0	ug/L			12/20/14 13:57	25
1,2-Dichloropropane	25	U	25	5.5	ug/L			12/20/14 13:57	25
1,3,5-Trimethylbenzene	25	U	25	12	ug/L			12/20/14 13:57	25
1,3-Dichlorobenzene	25	U	25	4.3	ug/L			12/20/14 13:57	25
1,4-Dichlorobenzene	25	U	25	4.0	ug/L			12/20/14 13:57	25
2-Butanone (MEK)	250	U	250	100	ug/L			12/20/14 13:57	25
2-Hexanone	250	U	250	97	ug/L			12/20/14 13:57	25
4-Methyl-2-pentanone (MIBK)	250	U	250	90	ug/L			12/20/14 13:57	25
Acetone	250	U	250	86	ug/L			12/20/14 13:57	25
Benzene	25	U	25	6.0	ug/L			12/20/14 13:57	25
Bromodichloromethane	25	U	25	3.8	ug/L			12/20/14 13:57	25
Bromoform	25	U *	25	14	ug/L			12/20/14 13:57	25
Bromomethane	25	U	25	16	ug/L			12/20/14 13:57	25
Carbon disulfide	25	U	25	7.0	ug/L			12/20/14 13:57	25
Carbon tetrachloride	25	U	25	4.3	ug/L			12/20/14 13:57	25
Chlorobenzene	25	U	25	4.8	ug/L			12/20/14 13:57	25
Chloroethane	25	U	25	8.3	ug/L			12/20/14 13:57	25
Chloroform	25	U	25	5.3	ug/L			12/20/14 13:57	25
Chloromethane	25	U	25	11	ug/L			12/20/14 13:57	25
cis-1,2-Dichloroethene	490		25	5.0	ug/L			12/20/14 13:57	25
cis-1,3-Dichloropropene	25	U	25	12	ug/L			12/20/14 13:57	25
Cyclohexane	25	U	25	8.3	ug/L			12/20/14 13:57	25
Dibromochloromethane	25	U	25	11	ug/L			12/20/14 13:57	25
Dichlorodifluoromethane	25	U	25	13	ug/L			12/20/14 13:57	25
Ethylbenzene	25	U	25	5.8	ug/L			12/20/14 13:57	25
Isopropylbenzene	25	U	25	8.8	ug/L			12/20/14 13:57	25

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-8-20141209

Lab Sample ID: 480-72829-8

Date Collected: 12/09/14 10:58

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl acetate	250	U	250	57	ug/L			12/20/14 13:57	25
Methyl tert-butyl ether	25	U	25	4.0	ug/L			12/20/14 13:57	25
Methylcyclohexane	25	U	25	5.8	ug/L			12/20/14 13:57	25
Methylene Chloride	25	U	25	7.0	ug/L			12/20/14 13:57	25
Styrene	25	U	25	11	ug/L			12/20/14 13:57	25
Tetrachloroethene	25	U	25	5.0	ug/L			12/20/14 13:57	25
Toluene	25	U	25	5.5	ug/L			12/20/14 13:57	25
trans-1,2-Dichloroethene	25	U	25	6.5	ug/L			12/20/14 13:57	25
trans-1,3-Dichloropropene	25	U	25	14	ug/L			12/20/14 13:57	25
Trichloroethene	7.1	J	25	3.8	ug/L			12/20/14 13:57	25
Trichlorofluoromethane	25	U	25	12	ug/L			12/20/14 13:57	25
Vinyl chloride	44		25	7.3	ug/L			12/20/14 13:57	25
Xylenes, Total	50	U	50	11	ug/L			12/20/14 13:57	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		63 - 129		12/20/14 13:57	25
1,2-Dichloroethane-d4 (Surr)	87		63 - 129		12/21/14 16:09	50
4-Bromofluorobenzene (Surr)	87		66 - 120		12/20/14 13:57	25
4-Bromofluorobenzene (Surr)	90		66 - 120		12/21/14 16:09	50
Dibromofluoromethane (Surr)	91		75 - 121		12/20/14 13:57	25
Dibromofluoromethane (Surr)	91		75 - 121		12/21/14 16:09	50
Toluene-d8 (Surr)	78		74 - 120		12/20/14 13:57	25
Toluene-d8 (Surr)	80		74 - 120		12/21/14 16:09	50

Client Sample ID: 4009-9-20141209

Lab Sample ID: 480-72829-9

Date Collected: 12/09/14 10:17

Matrix: Water

Date Received: 12/11/14 05:10

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	0.22	ug/L			12/20/14 16:03	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			12/20/14 16:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.37	ug/L			12/20/14 16:03	1
1,1,2-Trichloroethane	1.0	U	1.0	0.17	ug/L			12/20/14 16:03	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			12/20/14 16:03	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			12/20/14 16:03	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.47	ug/L			12/20/14 16:03	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			12/20/14 16:03	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			12/20/14 16:03	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			12/20/14 16:03	1
1,2-Dibromoethane	1.0	U	1.0	0.19	ug/L			12/20/14 16:03	1
1,2-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 16:03	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			12/20/14 16:03	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			12/20/14 16:03	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			12/20/14 16:03	1
1,3-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 16:03	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			12/20/14 16:03	1
2-Butanone (MEK)	10	U	10	4.1	ug/L			12/20/14 16:03	1
2-Hexanone	10	U	10	3.9	ug/L			12/20/14 16:03	1
4-Methyl-2-pentanone (MIBK)	10	U	10	3.6	ug/L			12/20/14 16:03	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-9-20141209

Lab Sample ID: 480-72829-9

Date Collected: 12/09/14 10:17

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	3.4	ug/L			12/20/14 16:03	1
Benzene	1.3		1.0	0.24	ug/L			12/20/14 16:03	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			12/20/14 16:03	1
Bromoform	1.0	U	1.0	0.56	ug/L			12/20/14 16:03	1
Bromomethane	1.0	U	1.0	0.63	ug/L			12/20/14 16:03	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			12/20/14 16:03	1
Carbon tetrachloride	1.0	U	1.0	0.17	ug/L			12/20/14 16:03	1
Chlorobenzene	1.0	U	1.0	0.19	ug/L			12/20/14 16:03	1
Chloroethane	1.0	U	1.0	0.33	ug/L			12/20/14 16:03	1
Chloroform	1.0	U	1.0	0.21	ug/L			12/20/14 16:03	1
Chloromethane	1.0	U	1.0	0.44	ug/L			12/20/14 16:03	1
cis-1,2-Dichloroethene	7.0		1.0	0.20	ug/L			12/20/14 16:03	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			12/20/14 16:03	1
Cyclohexane	1.0	U	1.0	0.33	ug/L			12/20/14 16:03	1
Dibromochloromethane	1.0	U *	1.0	0.43	ug/L			12/20/14 16:03	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/20/14 16:03	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			12/20/14 16:03	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			12/20/14 16:03	1
Methyl acetate	10	U	10	2.3	ug/L			12/20/14 16:03	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/20/14 16:03	1
Methylcyclohexane	1.0	U	1.0	0.23	ug/L			12/20/14 16:03	1
Methylene Chloride	1.0	U	1.0	0.28	ug/L			12/20/14 16:03	1
Styrene	1.0	U	1.0	0.45	ug/L			12/20/14 16:03	1
Tetrachloroethene	1.0	U *	1.0	0.20	ug/L			12/20/14 16:03	1
Toluene	1.0	U	1.0	0.22	ug/L			12/20/14 16:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			12/20/14 16:03	1
trans-1,3-Dichloropropene	1.0	U *	1.0	0.56	ug/L			12/20/14 16:03	1
Trichloroethene	0.80	J	1.0	0.15	ug/L			12/20/14 16:03	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			12/20/14 16:03	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			12/20/14 16:03	1
Xylenes, Total	2.0	U	2.0	0.43	ug/L			12/20/14 16:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		63 - 129		12/20/14 16:03	1
4-Bromofluorobenzene (Surr)	86		66 - 120		12/20/14 16:03	1
Dibromofluoromethane (Surr)	89		75 - 121		12/20/14 16:03	1
Toluene-d8 (Surr)	88		74 - 120		12/20/14 16:03	1

Client Sample ID: 4009-10-20141209

Lab Sample ID: 480-72829-10

Date Collected: 12/09/14 10:23

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.32	J	1.0	0.22	ug/L			12/20/14 16:26	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			12/20/14 16:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.37	ug/L			12/20/14 16:26	1
1,1,2-Trichloroethane	1.0	U	1.0	0.17	ug/L			12/20/14 16:26	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			12/20/14 16:26	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			12/20/14 16:26	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-10-20141209

Lab Sample ID: 480-72829-10

Date Collected: 12/09/14 10:23

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trimethylbenzene	5.0	U	5.0	0.47	ug/L			12/20/14 16:26	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			12/20/14 16:26	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			12/20/14 16:26	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			12/20/14 16:26	1
1,2-Dibromoethane	1.0	U	1.0	0.19	ug/L			12/20/14 16:26	1
1,2-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 16:26	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			12/20/14 16:26	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			12/20/14 16:26	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			12/20/14 16:26	1
1,3-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 16:26	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			12/20/14 16:26	1
2-Butanone (MEK)	10	U	10	4.1	ug/L			12/20/14 16:26	1
2-Hexanone	10	U	10	3.9	ug/L			12/20/14 16:26	1
4-Methyl-2-pentanone (MIBK)	10	U	10	3.6	ug/L			12/20/14 16:26	1
Acetone	10	U	10	3.4	ug/L			12/20/14 16:26	1
Benzene	26		1.0	0.24	ug/L			12/20/14 16:26	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			12/20/14 16:26	1
Bromoform	1.0	U	1.0	0.56	ug/L			12/20/14 16:26	1
Bromomethane	1.0	U	1.0	0.63	ug/L			12/20/14 16:26	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			12/20/14 16:26	1
Carbon tetrachloride	1.0	U	1.0	0.17	ug/L			12/20/14 16:26	1
Chlorobenzene	1.0	U	1.0	0.19	ug/L			12/20/14 16:26	1
Chloroethane	1.0	U	1.0	0.33	ug/L			12/20/14 16:26	1
Chloroform	1.0	U	1.0	0.21	ug/L			12/20/14 16:26	1
Chloromethane	1.0	U	1.0	0.44	ug/L			12/20/14 16:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/20/14 16:26	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			12/20/14 16:26	1
Cyclohexane	1.0	U	1.0	0.33	ug/L			12/20/14 16:26	1
Dibromochloromethane	1.0	U *	1.0	0.43	ug/L			12/20/14 16:26	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/20/14 16:26	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			12/20/14 16:26	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			12/20/14 16:26	1
Methyl acetate	10	U	10	2.3	ug/L			12/20/14 16:26	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/20/14 16:26	1
Methylcyclohexane	1.0	U	1.0	0.23	ug/L			12/20/14 16:26	1
Methylene Chloride	1.0	U	1.0	0.28	ug/L			12/20/14 16:26	1
Styrene	1.0	U	1.0	0.45	ug/L			12/20/14 16:26	1
Tetrachloroethene	1.0	U *	1.0	0.20	ug/L			12/20/14 16:26	1
Toluene	1.0	U	1.0	0.22	ug/L			12/20/14 16:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			12/20/14 16:26	1
trans-1,3-Dichloropropene	1.0	U *	1.0	0.56	ug/L			12/20/14 16:26	1
Trichloroethene	1.0	U	1.0	0.15	ug/L			12/20/14 16:26	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			12/20/14 16:26	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			12/20/14 16:26	1
Xylenes, Total	2.0	U	2.0	0.43	ug/L			12/20/14 16:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		63 - 129		12/20/14 16:26	1
4-Bromofluorobenzene (Surr)	81		66 - 120		12/20/14 16:26	1
Dibromofluoromethane (Surr)	82		75 - 121		12/20/14 16:26	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-10-20141209

Lab Sample ID: 480-72829-10

Date Collected: 12/09/14 10:23

Matrix: Water

Date Received: 12/11/14 05:10

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	82		74 - 120		12/20/14 16:26	1

Client Sample ID: 4009-11-20141209

Lab Sample ID: 480-72829-11

Date Collected: 12/09/14 10:31

Matrix: Water

Date Received: 12/11/14 05:10

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	0.22	ug/L			12/20/14 16:48	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			12/20/14 16:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.37	ug/L			12/20/14 16:48	1
1,1,2-Trichloroethane	1.0	U	1.0	0.17	ug/L			12/20/14 16:48	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			12/20/14 16:48	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			12/20/14 16:48	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.47	ug/L			12/20/14 16:48	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			12/20/14 16:48	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			12/20/14 16:48	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			12/20/14 16:48	1
1,2-Dibromoethane	1.0	U	1.0	0.19	ug/L			12/20/14 16:48	1
1,2-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 16:48	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			12/20/14 16:48	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			12/20/14 16:48	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			12/20/14 16:48	1
1,3-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 16:48	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			12/20/14 16:48	1
2-Butanone (MEK)	10	U	10	4.1	ug/L			12/20/14 16:48	1
2-Hexanone	10	U	10	3.9	ug/L			12/20/14 16:48	1
4-Methyl-2-pentanone (MIBK)	10	U	10	3.6	ug/L			12/20/14 16:48	1
Acetone	10	U	10	3.4	ug/L			12/20/14 16:48	1
Benzene	7.8		1.0	0.24	ug/L			12/20/14 16:48	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			12/20/14 16:48	1
Bromoform	1.0	U	1.0	0.56	ug/L			12/20/14 16:48	1
Bromomethane	1.0	U	1.0	0.63	ug/L			12/20/14 16:48	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			12/20/14 16:48	1
Carbon tetrachloride	1.0	U	1.0	0.17	ug/L			12/20/14 16:48	1
Chlorobenzene	1.0	U	1.0	0.19	ug/L			12/20/14 16:48	1
Chloroethane	1.0	U	1.0	0.33	ug/L			12/20/14 16:48	1
Chloroform	1.0	U	1.0	0.21	ug/L			12/20/14 16:48	1
Chloromethane	1.0	U	1.0	0.44	ug/L			12/20/14 16:48	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/20/14 16:48	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			12/20/14 16:48	1
Cyclohexane	1.0	U	1.0	0.33	ug/L			12/20/14 16:48	1
Dibromochloromethane	1.0	U *	1.0	0.43	ug/L			12/20/14 16:48	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/20/14 16:48	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			12/20/14 16:48	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			12/20/14 16:48	1
Methyl acetate	10	U	10	2.3	ug/L			12/20/14 16:48	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/20/14 16:48	1
Methylcyclohexane	1.0	U	1.0	0.23	ug/L			12/20/14 16:48	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-11-20141209

Lab Sample ID: 480-72829-11

Date Collected: 12/09/14 10:31

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	1.0	U	1.0	0.28	ug/L			12/20/14 16:48	1
Styrene	1.0	U	1.0	0.45	ug/L			12/20/14 16:48	1
Tetrachloroethene	1.0	U *	1.0	0.20	ug/L			12/20/14 16:48	1
Toluene	1.0		1.0	0.22	ug/L			12/20/14 16:48	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			12/20/14 16:48	1
trans-1,3-Dichloropropene	1.0	U *	1.0	0.56	ug/L			12/20/14 16:48	1
Trichloroethene	1.0	U	1.0	0.15	ug/L			12/20/14 16:48	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			12/20/14 16:48	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			12/20/14 16:48	1
Xylenes, Total	2.0	U	2.0	0.43	ug/L			12/20/14 16:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		63 - 129		12/20/14 16:48	1
4-Bromofluorobenzene (Surr)	80		66 - 120		12/20/14 16:48	1
Dibromofluoromethane (Surr)	84		75 - 121		12/20/14 16:48	1
Toluene-d8 (Surr)	84		74 - 120		12/20/14 16:48	1

Client Sample ID: 4009-11A-20141209

Lab Sample ID: 480-72829-12

Date Collected: 12/09/14 10:35

Matrix: Water

Date Received: 12/11/14 05:10

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	0.22	ug/L			12/20/14 17:11	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			12/20/14 17:11	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.37	ug/L			12/20/14 17:11	1
1,1,2-Trichloroethane	1.0	U	1.0	0.17	ug/L			12/20/14 17:11	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			12/20/14 17:11	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			12/20/14 17:11	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.47	ug/L			12/20/14 17:11	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			12/20/14 17:11	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			12/20/14 17:11	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			12/20/14 17:11	1
1,2-Dibromoethane	1.0	U	1.0	0.19	ug/L			12/20/14 17:11	1
1,2-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 17:11	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			12/20/14 17:11	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			12/20/14 17:11	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			12/20/14 17:11	1
1,3-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 17:11	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			12/20/14 17:11	1
2-Butanone (MEK)	10	U	10	4.1	ug/L			12/20/14 17:11	1
2-Hexanone	10	U	10	3.9	ug/L			12/20/14 17:11	1
4-Methyl-2-pentanone (MIBK)	10	U	10	3.6	ug/L			12/20/14 17:11	1
Acetone	10	U	10	3.4	ug/L			12/20/14 17:11	1
Benzene	1.0	U	1.0	0.24	ug/L			12/20/14 17:11	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			12/20/14 17:11	1
Bromoform	1.0	U	1.0	0.56	ug/L			12/20/14 17:11	1
Bromomethane	1.0	U	1.0	0.63	ug/L			12/20/14 17:11	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			12/20/14 17:11	1
Carbon tetrachloride	1.0	U	1.0	0.17	ug/L			12/20/14 17:11	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-11A-20141209

Lab Sample ID: 480-72829-12

Date Collected: 12/09/14 10:35

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	1.0	U	1.0	0.19	ug/L			12/20/14 17:11	1
Chloroethane	1.0	U	1.0	0.33	ug/L			12/20/14 17:11	1
Chloroform	1.0	U	1.0	0.21	ug/L			12/20/14 17:11	1
Chloromethane	1.0	U	1.0	0.44	ug/L			12/20/14 17:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/20/14 17:11	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			12/20/14 17:11	1
Cyclohexane	1.0	U	1.0	0.33	ug/L			12/20/14 17:11	1
Dibromochloromethane	1.0	U *	1.0	0.43	ug/L			12/20/14 17:11	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/20/14 17:11	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			12/20/14 17:11	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			12/20/14 17:11	1
Methyl acetate	10	U	10	2.3	ug/L			12/20/14 17:11	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/20/14 17:11	1
Methylcyclohexane	1.0	U	1.0	0.23	ug/L			12/20/14 17:11	1
Methylene Chloride	1.0	U	1.0	0.28	ug/L			12/20/14 17:11	1
Styrene	1.0	U	1.0	0.45	ug/L			12/20/14 17:11	1
Tetrachloroethene	1.0	U *	1.0	0.20	ug/L			12/20/14 17:11	1
Toluene	1.0	U	1.0	0.22	ug/L			12/20/14 17:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			12/20/14 17:11	1
trans-1,3-Dichloropropene	1.0	U *	1.0	0.56	ug/L			12/20/14 17:11	1
Trichloroethene	1.0	U	1.0	0.15	ug/L			12/20/14 17:11	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			12/20/14 17:11	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			12/20/14 17:11	1
Xylenes, Total	2.0	U	2.0	0.43	ug/L			12/20/14 17:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		63 - 129		12/20/14 17:11	1
4-Bromofluorobenzene (Surr)	85		66 - 120		12/20/14 17:11	1
Dibromofluoromethane (Surr)	89		75 - 121		12/20/14 17:11	1
Toluene-d8 (Surr)	84		74 - 120		12/20/14 17:11	1

Client Sample ID: 4009-12-20141209

Lab Sample ID: 480-72829-13

Date Collected: 12/09/14 09:07

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	290		22	4.9	ug/L			12/20/14 14:19	22.22
1,1,2,2-Tetrachloroethane	22	U	22	4.9	ug/L			12/20/14 14:19	22.22
1,1,2-Trichloro-1,2,2-trifluoroethane	22	U	22	8.2	ug/L			12/20/14 14:19	22.22
1,1,2-Trichloroethane	22	U	22	3.8	ug/L			12/20/14 14:19	22.22
1,1-Dichloroethane	29		22	5.8	ug/L			12/20/14 14:19	22.22
1,1-Dichloroethene	30		22	10	ug/L			12/20/14 14:19	22.22
1,2,3-Trimethylbenzene	110	U	110	10	ug/L			12/20/14 14:19	22.22
1,2,4-Trichlorobenzene	22	U	22	7.1	ug/L			12/20/14 14:19	22.22
1,2,4-Trimethylbenzene	22	U	22	9.1	ug/L			12/20/14 14:19	22.22
1,2-Dibromo-3-Chloropropane	44	U	44	18	ug/L			12/20/14 14:19	22.22
1,2-Dibromoethane	22	U	22	4.2	ug/L			12/20/14 14:19	22.22
1,2-Dichlorobenzene	22	U	22	3.8	ug/L			12/20/14 14:19	22.22
1,2-Dichloroethane	22	U	22	4.4	ug/L			12/20/14 14:19	22.22

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-12-20141209

Lab Sample ID: 480-72829-13

Date Collected: 12/09/14 09:07

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	22	U	22	4.9	ug/L			12/20/14 14:19	22.22
1,3,5-Trimethylbenzene	22	U	22	11	ug/L			12/20/14 14:19	22.22
1,3-Dichlorobenzene	22	U	22	3.8	ug/L			12/20/14 14:19	22.22
1,4-Dichlorobenzene	22	U	22	3.6	ug/L			12/20/14 14:19	22.22
2-Butanone (MEK)	220	U	220	91	ug/L			12/20/14 14:19	22.22
2-Hexanone	220	U	220	86	ug/L			12/20/14 14:19	22.22
4-Methyl-2-pentanone (MIBK)	220	U	220	80	ug/L			12/20/14 14:19	22.22
Acetone	220	U	220	76	ug/L			12/20/14 14:19	22.22
Benzene	22	U	22	5.3	ug/L			12/20/14 14:19	22.22
Bromodichloromethane	22	U	22	3.3	ug/L			12/20/14 14:19	22.22
Bromoform	22	U *	22	12	ug/L			12/20/14 14:19	22.22
Bromomethane	22	U	22	14	ug/L			12/20/14 14:19	22.22
Carbon disulfide	22	U	22	6.2	ug/L			12/20/14 14:19	22.22
Carbon tetrachloride	22	U	22	3.8	ug/L			12/20/14 14:19	22.22
Chlorobenzene	22	U	22	4.2	ug/L			12/20/14 14:19	22.22
Chloroethane	22	U	22	7.3	ug/L			12/20/14 14:19	22.22
Chloroform	22	U	22	4.7	ug/L			12/20/14 14:19	22.22
Chloromethane	22	U	22	9.8	ug/L			12/20/14 14:19	22.22
cis-1,2-Dichloroethene	63		22	4.4	ug/L			12/20/14 14:19	22.22
cis-1,3-Dichloropropene	22	U	22	10	ug/L			12/20/14 14:19	22.22
Cyclohexane	22	U	22	7.3	ug/L			12/20/14 14:19	22.22
Dibromochloromethane	22	U	22	9.6	ug/L			12/20/14 14:19	22.22
Dichlorodifluoromethane	22	U	22	11	ug/L			12/20/14 14:19	22.22
Ethylbenzene	22	U	22	5.1	ug/L			12/20/14 14:19	22.22
Isopropylbenzene	22	U	22	7.8	ug/L			12/20/14 14:19	22.22
Methyl acetate	220	U	220	50	ug/L			12/20/14 14:19	22.22
Methyl tert-butyl ether	22	U	22	3.6	ug/L			12/20/14 14:19	22.22
Methylcyclohexane	22	U	22	5.1	ug/L			12/20/14 14:19	22.22
Methylene Chloride	22	U	22	6.2	ug/L			12/20/14 14:19	22.22
Styrene	22	U	22	10	ug/L			12/20/14 14:19	22.22
Tetrachloroethene	22	U	22	4.4	ug/L			12/20/14 14:19	22.22
Toluene	22	U	22	4.9	ug/L			12/20/14 14:19	22.22
trans-1,2-Dichloroethene	22	U	22	5.8	ug/L			12/20/14 14:19	22.22
trans-1,3-Dichloropropene	22	U	22	12	ug/L			12/20/14 14:19	22.22
Trichloroethene	64		22	3.3	ug/L			12/20/14 14:19	22.22
Trichlorofluoromethane	22	U	22	11	ug/L			12/20/14 14:19	22.22
Vinyl chloride	30		22	6.4	ug/L			12/20/14 14:19	22.22
Xylenes, Total	44	U	44	9.6	ug/L			12/20/14 14:19	22.22

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		63 - 129		12/20/14 14:19	22.22
4-Bromofluorobenzene (Surr)	91		66 - 120		12/20/14 14:19	22.22
Dibromofluoromethane (Surr)	93		75 - 121		12/20/14 14:19	22.22
Toluene-d8 (Surr)	83		74 - 120		12/20/14 14:19	22.22

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-12A-20141209

Lab Sample ID: 480-72829-14

Date Collected: 12/09/14 09:10

Matrix: Water

Date Received: 12/11/14 05:10

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	0.22	ug/L			12/20/14 17:33	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			12/20/14 17:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.37	ug/L			12/20/14 17:33	1
1,1,2-Trichloroethane	1.0	U	1.0	0.17	ug/L			12/20/14 17:33	1
1,1-Dichloroethane	2.8		1.0	0.26	ug/L			12/20/14 17:33	1
1,1-Dichloroethene	0.53	J	1.0	0.45	ug/L			12/20/14 17:33	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.47	ug/L			12/20/14 17:33	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			12/20/14 17:33	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			12/20/14 17:33	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			12/20/14 17:33	1
1,2-Dibromoethane	1.0	U	1.0	0.19	ug/L			12/20/14 17:33	1
1,2-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 17:33	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			12/20/14 17:33	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			12/20/14 17:33	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			12/20/14 17:33	1
1,3-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 17:33	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			12/20/14 17:33	1
2-Butanone (MEK)	10	U	10	4.1	ug/L			12/20/14 17:33	1
2-Hexanone	10	U	10	3.9	ug/L			12/20/14 17:33	1
4-Methyl-2-pentanone (MIBK)	10	U	10	3.6	ug/L			12/20/14 17:33	1
Acetone	10	U	10	3.4	ug/L			12/20/14 17:33	1
Benzene	0.31	J	1.0	0.24	ug/L			12/20/14 17:33	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			12/20/14 17:33	1
Bromoform	1.0	U	1.0	0.56	ug/L			12/20/14 17:33	1
Bromomethane	1.0	U	1.0	0.63	ug/L			12/20/14 17:33	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			12/20/14 17:33	1
Carbon tetrachloride	1.0	U	1.0	0.17	ug/L			12/20/14 17:33	1
Chlorobenzene	1.0	U	1.0	0.19	ug/L			12/20/14 17:33	1
Chloroethane	4.1		1.0	0.33	ug/L			12/22/14 11:45	1
Chloroform	1.0	U	1.0	0.21	ug/L			12/20/14 17:33	1
Chloromethane	1.0	U	1.0	0.44	ug/L			12/20/14 17:33	1
cis-1,2-Dichloroethene	14		1.0	0.20	ug/L			12/20/14 17:33	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			12/20/14 17:33	1
Cyclohexane	1.0	U	1.0	0.33	ug/L			12/20/14 17:33	1
Dibromochloromethane	1.0	U *	1.0	0.43	ug/L			12/20/14 17:33	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/20/14 17:33	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			12/20/14 17:33	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			12/20/14 17:33	1
Methyl acetate	10	U	10	2.3	ug/L			12/20/14 17:33	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/20/14 17:33	1
Methylcyclohexane	1.0	U	1.0	0.23	ug/L			12/20/14 17:33	1
Methylene Chloride	1.0	U	1.0	0.28	ug/L			12/20/14 17:33	1
Styrene	1.0	U	1.0	0.45	ug/L			12/20/14 17:33	1
Tetrachloroethene	1.0	U *	1.0	0.20	ug/L			12/20/14 17:33	1
Toluene	1.0	U	1.0	0.22	ug/L			12/20/14 17:33	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			12/20/14 17:33	1
trans-1,3-Dichloropropene	1.0	U *	1.0	0.56	ug/L			12/20/14 17:33	1
Trichloroethene	0.30	J	1.0	0.15	ug/L			12/20/14 17:33	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			12/20/14 17:33	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-12A-20141209

Lab Sample ID: 480-72829-14

Date Collected: 12/09/14 09:10

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	6.5		1.0	0.29	ug/L			12/20/14 17:33	1
Xylenes, Total	2.0	U	2.0	0.43	ug/L			12/20/14 17:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		63 - 129					12/20/14 17:33	1
1,2-Dichloroethane-d4 (Surr)	95		63 - 129					12/22/14 11:45	1
4-Bromofluorobenzene (Surr)	84		66 - 120					12/20/14 17:33	1
4-Bromofluorobenzene (Surr)	82		66 - 120					12/22/14 11:45	1
Dibromofluoromethane (Surr)	86		75 - 121					12/20/14 17:33	1
Dibromofluoromethane (Surr)	84		75 - 121					12/22/14 11:45	1
Toluene-d8 (Surr)	87		74 - 120					12/20/14 17:33	1
Toluene-d8 (Surr)	85		74 - 120					12/22/14 11:45	1

Client Sample ID: 4009-13-20141209

Lab Sample ID: 480-72829-15

Date Collected: 12/09/14 10:01

Matrix: Water

Date Received: 12/11/14 05:10

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	0.22	ug/L			12/20/14 17:56	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			12/20/14 17:56	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.37	ug/L			12/20/14 17:56	1
1,1,2-Trichloroethane	1.0	U	1.0	0.17	ug/L			12/20/14 17:56	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			12/20/14 17:56	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			12/20/14 17:56	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.47	ug/L			12/20/14 17:56	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			12/20/14 17:56	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			12/20/14 17:56	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			12/20/14 17:56	1
1,2-Dibromoethane	1.0	U	1.0	0.19	ug/L			12/20/14 17:56	1
1,2-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 17:56	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			12/20/14 17:56	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			12/20/14 17:56	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			12/20/14 17:56	1
1,3-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 17:56	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			12/20/14 17:56	1
2-Butanone (MEK)	10	U	10	4.1	ug/L			12/20/14 17:56	1
2-Hexanone	10	U	10	3.9	ug/L			12/20/14 17:56	1
4-Methyl-2-pentanone (MIBK)	10	U	10	3.6	ug/L			12/20/14 17:56	1
Acetone	10	U	10	3.4	ug/L			12/20/14 17:56	1
Benzene	1.0		1.0	0.24	ug/L			12/20/14 17:56	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			12/20/14 17:56	1
Bromoform	1.0	U	1.0	0.56	ug/L			12/20/14 17:56	1
Bromomethane	1.0	U	1.0	0.63	ug/L			12/20/14 17:56	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			12/20/14 17:56	1
Carbon tetrachloride	1.0	U	1.0	0.17	ug/L			12/20/14 17:56	1
Chlorobenzene	1.0	U	1.0	0.19	ug/L			12/20/14 17:56	1
Chloroethane	1.0	U	1.0	0.33	ug/L			12/20/14 17:56	1
Chloroform	1.0	U	1.0	0.21	ug/L			12/20/14 17:56	1
Chloromethane	1.0	U	1.0	0.44	ug/L			12/20/14 17:56	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-13-20141209

Lab Sample ID: 480-72829-15

Date Collected: 12/09/14 10:01

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/20/14 17:56	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			12/20/14 17:56	1
Cyclohexane	1.0	U	1.0	0.33	ug/L			12/20/14 17:56	1
Dibromochloromethane	1.0	U *	1.0	0.43	ug/L			12/20/14 17:56	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/20/14 17:56	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			12/20/14 17:56	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			12/20/14 17:56	1
Methyl acetate	10	U	10	2.3	ug/L			12/20/14 17:56	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/20/14 17:56	1
Methylcyclohexane	1.0	U	1.0	0.23	ug/L			12/20/14 17:56	1
Methylene Chloride	1.0	U	1.0	0.28	ug/L			12/20/14 17:56	1
Styrene	1.0	U	1.0	0.45	ug/L			12/20/14 17:56	1
Tetrachloroethene	1.0	U *	1.0	0.20	ug/L			12/20/14 17:56	1
Toluene	0.55	J	1.0	0.22	ug/L			12/20/14 17:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			12/20/14 17:56	1
trans-1,3-Dichloropropene	1.0	U *	1.0	0.56	ug/L			12/20/14 17:56	1
Trichloroethene	1.0	U	1.0	0.15	ug/L			12/20/14 17:56	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			12/20/14 17:56	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			12/20/14 17:56	1
Xylenes, Total	2.0	U	2.0	0.43	ug/L			12/20/14 17:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		63 - 129		12/20/14 17:56	1
4-Bromofluorobenzene (Surr)	83		66 - 120		12/20/14 17:56	1
Dibromofluoromethane (Surr)	85		75 - 121		12/20/14 17:56	1
Toluene-d8 (Surr)	84		74 - 120		12/20/14 17:56	1

Client Sample ID: 4009-13A-20141209

Lab Sample ID: 480-72829-16

Date Collected: 12/09/14 09:58

Matrix: Water

Date Received: 12/11/14 05:10

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	0.22	ug/L			12/20/14 18:18	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			12/20/14 18:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.37	ug/L			12/20/14 18:18	1
1,1,2-Trichloroethane	1.0	U	1.0	0.17	ug/L			12/20/14 18:18	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			12/20/14 18:18	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			12/20/14 18:18	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.47	ug/L			12/20/14 18:18	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			12/20/14 18:18	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			12/20/14 18:18	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			12/20/14 18:18	1
1,2-Dibromoethane	1.0	U	1.0	0.19	ug/L			12/20/14 18:18	1
1,2-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 18:18	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			12/20/14 18:18	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			12/20/14 18:18	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			12/20/14 18:18	1
1,3-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 18:18	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			12/20/14 18:18	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-13A-20141209

Lab Sample ID: 480-72829-16

Date Collected: 12/09/14 09:58

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	10	U	10	4.1	ug/L			12/20/14 18:18	1
2-Hexanone	10	U	10	3.9	ug/L			12/20/14 18:18	1
4-Methyl-2-pentanone (MIBK)	10	U	10	3.6	ug/L			12/20/14 18:18	1
Acetone	10	U	10	3.4	ug/L			12/20/14 18:18	1
Benzene	0.96	J	1.0	0.24	ug/L			12/20/14 18:18	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			12/20/14 18:18	1
Bromoform	1.0	U	1.0	0.56	ug/L			12/20/14 18:18	1
Bromomethane	1.0	U	1.0	0.63	ug/L			12/20/14 18:18	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			12/20/14 18:18	1
Carbon tetrachloride	1.0	U	1.0	0.17	ug/L			12/20/14 18:18	1
Chlorobenzene	1.0	U	1.0	0.19	ug/L			12/20/14 18:18	1
Chloroethane	1.0	U	1.0	0.33	ug/L			12/20/14 18:18	1
Chloroform	1.0	U	1.0	0.21	ug/L			12/20/14 18:18	1
Chloromethane	1.0	U	1.0	0.44	ug/L			12/20/14 18:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/20/14 18:18	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			12/20/14 18:18	1
Cyclohexane	1.0	U	1.0	0.33	ug/L			12/20/14 18:18	1
Dibromochloromethane	1.0	U *	1.0	0.43	ug/L			12/20/14 18:18	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/20/14 18:18	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			12/20/14 18:18	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			12/20/14 18:18	1
Methyl acetate	10	U	10	2.3	ug/L			12/20/14 18:18	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/20/14 18:18	1
Methylcyclohexane	1.0	U	1.0	0.23	ug/L			12/20/14 18:18	1
Methylene Chloride	1.0	U	1.0	0.28	ug/L			12/20/14 18:18	1
Styrene	1.0	U	1.0	0.45	ug/L			12/20/14 18:18	1
Tetrachloroethene	1.0	U *	1.0	0.20	ug/L			12/20/14 18:18	1
Toluene	1.0	U	1.0	0.22	ug/L			12/20/14 18:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			12/20/14 18:18	1
trans-1,3-Dichloropropene	1.0	U *	1.0	0.56	ug/L			12/20/14 18:18	1
Trichloroethene	1.0	U	1.0	0.15	ug/L			12/20/14 18:18	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			12/20/14 18:18	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			12/20/14 18:18	1
Xylenes, Total	2.0	U	2.0	0.43	ug/L			12/20/14 18:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		63 - 129		12/20/14 18:18	1
4-Bromofluorobenzene (Surr)	82		66 - 120		12/20/14 18:18	1
Dibromofluoromethane (Surr)	86		75 - 121		12/20/14 18:18	1
Toluene-d8 (Surr)	82		74 - 120		12/20/14 18:18	1

Client Sample ID: 4009-14-20141209

Lab Sample ID: 480-72829-17

Date Collected: 12/09/14 08:08

Matrix: Water

Date Received: 12/11/14 05:10

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	0.22	ug/L			12/20/14 18:41	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			12/20/14 18:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.37	ug/L			12/20/14 18:41	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-14-20141209

Lab Sample ID: 480-72829-17

Date Collected: 12/09/14 08:08

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	1.0	U	1.0	0.17	ug/L			12/20/14 18:41	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			12/20/14 18:41	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			12/20/14 18:41	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.47	ug/L			12/20/14 18:41	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			12/20/14 18:41	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			12/20/14 18:41	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			12/20/14 18:41	1
1,2-Dibromoethane	1.0	U	1.0	0.19	ug/L			12/20/14 18:41	1
1,2-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 18:41	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			12/20/14 18:41	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			12/20/14 18:41	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			12/20/14 18:41	1
1,3-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 18:41	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			12/20/14 18:41	1
2-Butanone (MEK)	10	U	10	4.1	ug/L			12/20/14 18:41	1
2-Hexanone	10	U	10	3.9	ug/L			12/20/14 18:41	1
4-Methyl-2-pentanone (MIBK)	10	U	10	3.6	ug/L			12/20/14 18:41	1
Acetone	10	U	10	3.4	ug/L			12/20/14 18:41	1
Benzene	0.54	J	1.0	0.24	ug/L			12/20/14 18:41	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			12/20/14 18:41	1
Bromoform	1.0	U	1.0	0.56	ug/L			12/20/14 18:41	1
Bromomethane	1.0	U	1.0	0.63	ug/L			12/20/14 18:41	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			12/20/14 18:41	1
Carbon tetrachloride	1.0	U	1.0	0.17	ug/L			12/20/14 18:41	1
Chlorobenzene	1.0	U	1.0	0.19	ug/L			12/20/14 18:41	1
Chloroethane	1.0	U	1.0	0.33	ug/L			12/20/14 18:41	1
Chloroform	1.0	U	1.0	0.21	ug/L			12/20/14 18:41	1
Chloromethane	1.0	U	1.0	0.44	ug/L			12/20/14 18:41	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/20/14 18:41	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			12/20/14 18:41	1
Cyclohexane	1.0	U	1.0	0.33	ug/L			12/20/14 18:41	1
Dibromochloromethane	1.0	U *	1.0	0.43	ug/L			12/20/14 18:41	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/20/14 18:41	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			12/20/14 18:41	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			12/20/14 18:41	1
Methyl acetate	10	U	10	2.3	ug/L			12/20/14 18:41	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/20/14 18:41	1
Methylcyclohexane	1.0	U	1.0	0.23	ug/L			12/20/14 18:41	1
Methylene Chloride	1.0	U	1.0	0.28	ug/L			12/20/14 18:41	1
Styrene	1.0	U	1.0	0.45	ug/L			12/20/14 18:41	1
Tetrachloroethene	1.0	U *	1.0	0.20	ug/L			12/20/14 18:41	1
Toluene	0.92	J	1.0	0.22	ug/L			12/20/14 18:41	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			12/20/14 18:41	1
trans-1,3-Dichloropropene	1.0	U *	1.0	0.56	ug/L			12/20/14 18:41	1
Trichloroethene	1.0	U	1.0	0.15	ug/L			12/20/14 18:41	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			12/20/14 18:41	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			12/20/14 18:41	1
Xylenes, Total	2.0	U	2.0	0.43	ug/L			12/20/14 18:41	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-14-20141209

Lab Sample ID: 480-72829-17

Date Collected: 12/09/14 08:08

Matrix: Water

Date Received: 12/11/14 05:10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		63 - 129		12/20/14 18:41	1
4-Bromofluorobenzene (Surr)	82		66 - 120		12/20/14 18:41	1
Dibromofluoromethane (Surr)	88		75 - 121		12/20/14 18:41	1
Toluene-d8 (Surr)	85		74 - 120		12/20/14 18:41	1

Client Sample ID: 4009-15-20141209

Lab Sample ID: 480-72829-18

Date Collected: 12/09/14 08:36

Matrix: Water

Date Received: 12/11/14 05:10

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	0.22	ug/L			12/20/14 19:03	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			12/20/14 19:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.37	ug/L			12/20/14 19:03	1
1,1,2-Trichloroethane	1.0	U	1.0	0.17	ug/L			12/20/14 19:03	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			12/20/14 19:03	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			12/20/14 19:03	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.47	ug/L			12/20/14 19:03	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			12/20/14 19:03	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			12/20/14 19:03	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			12/20/14 19:03	1
1,2-Dibromoethane	1.0	U	1.0	0.19	ug/L			12/20/14 19:03	1
1,2-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 19:03	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			12/20/14 19:03	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			12/20/14 19:03	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			12/20/14 19:03	1
1,3-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 19:03	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			12/20/14 19:03	1
2-Butanone (MEK)	10	U	10	4.1	ug/L			12/20/14 19:03	1
2-Hexanone	10	U	10	3.9	ug/L			12/20/14 19:03	1
4-Methyl-2-pentanone (MIBK)	10	U	10	3.6	ug/L			12/20/14 19:03	1
Acetone	10	U	10	3.4	ug/L			12/20/14 19:03	1
Benzene	0.86	J	1.0	0.24	ug/L			12/20/14 19:03	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			12/20/14 19:03	1
Bromoform	1.0	U	1.0	0.56	ug/L			12/20/14 19:03	1
Bromomethane	1.0	U	1.0	0.63	ug/L			12/20/14 19:03	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			12/20/14 19:03	1
Carbon tetrachloride	1.0	U	1.0	0.17	ug/L			12/20/14 19:03	1
Chlorobenzene	1.0	U	1.0	0.19	ug/L			12/20/14 19:03	1
Chloroethane	1.0	U	1.0	0.33	ug/L			12/20/14 19:03	1
Chloroform	1.0	U	1.0	0.21	ug/L			12/20/14 19:03	1
Chloromethane	1.0	U	1.0	0.44	ug/L			12/20/14 19:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/20/14 19:03	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			12/20/14 19:03	1
Cyclohexane	1.0	U	1.0	0.33	ug/L			12/20/14 19:03	1
Dibromochloromethane	1.0	U *	1.0	0.43	ug/L			12/20/14 19:03	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/20/14 19:03	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			12/20/14 19:03	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			12/20/14 19:03	1
Methyl acetate	10	U	10	2.3	ug/L			12/20/14 19:03	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-15-20141209

Lab Sample ID: 480-72829-18

Date Collected: 12/09/14 08:36

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/20/14 19:03	1
Methylcyclohexane	1.0	U	1.0	0.23	ug/L			12/20/14 19:03	1
Methylene Chloride	1.0	U	1.0	0.28	ug/L			12/20/14 19:03	1
Styrene	1.0	U	1.0	0.45	ug/L			12/20/14 19:03	1
Tetrachloroethene	1.0	U *	1.0	0.20	ug/L			12/20/14 19:03	1
Toluene	0.72	J	1.0	0.22	ug/L			12/20/14 19:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			12/20/14 19:03	1
trans-1,3-Dichloropropene	1.0	U *	1.0	0.56	ug/L			12/20/14 19:03	1
Trichloroethene	1.0	U	1.0	0.15	ug/L			12/20/14 19:03	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			12/20/14 19:03	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			12/20/14 19:03	1
Xylenes, Total	2.0	U	2.0	0.43	ug/L			12/20/14 19:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		63 - 129		12/20/14 19:03	1
4-Bromofluorobenzene (Surr)	79		66 - 120		12/20/14 19:03	1
Dibromofluoromethane (Surr)	82		75 - 121		12/20/14 19:03	1
Toluene-d8 (Surr)	81		74 - 120		12/20/14 19:03	1

Client Sample ID: 4009-16-20141209

Lab Sample ID: 480-72829-19

Date Collected: 12/09/14 08:25

Matrix: Water

Date Received: 12/11/14 05:10

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	0.22	ug/L			12/20/14 19:26	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			12/20/14 19:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.37	ug/L			12/20/14 19:26	1
1,1,2-Trichloroethane	1.0	U	1.0	0.17	ug/L			12/20/14 19:26	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			12/20/14 19:26	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			12/20/14 19:26	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.47	ug/L			12/20/14 19:26	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			12/20/14 19:26	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			12/20/14 19:26	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			12/20/14 19:26	1
1,2-Dibromoethane	1.0	U	1.0	0.19	ug/L			12/20/14 19:26	1
1,2-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 19:26	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			12/20/14 19:26	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			12/20/14 19:26	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			12/20/14 19:26	1
1,3-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 19:26	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			12/20/14 19:26	1
2-Butanone (MEK)	10	U	10	4.1	ug/L			12/20/14 19:26	1
2-Hexanone	10	U	10	3.9	ug/L			12/20/14 19:26	1
4-Methyl-2-pentanone (MIBK)	10	U	10	3.6	ug/L			12/20/14 19:26	1
Acetone	10	U	10	3.4	ug/L			12/20/14 19:26	1
Benzene	0.39	J	1.0	0.24	ug/L			12/20/14 19:26	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			12/20/14 19:26	1
Bromoform	1.0	U	1.0	0.56	ug/L			12/20/14 19:26	1
Bromomethane	1.0	U	1.0	0.63	ug/L			12/20/14 19:26	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-16-20141209

Lab Sample ID: 480-72829-19

Date Collected: 12/09/14 08:25

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	1.0	U	1.0	0.28	ug/L			12/20/14 19:26	1
Carbon tetrachloride	1.0	U	1.0	0.17	ug/L			12/20/14 19:26	1
Chlorobenzene	1.0	U	1.0	0.19	ug/L			12/20/14 19:26	1
Chloroethane	1.0	U	1.0	0.33	ug/L			12/20/14 19:26	1
Chloroform	1.0	U	1.0	0.21	ug/L			12/20/14 19:26	1
Chloromethane	1.0	U	1.0	0.44	ug/L			12/20/14 19:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/20/14 19:26	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			12/20/14 19:26	1
Cyclohexane	1.0	U	1.0	0.33	ug/L			12/20/14 19:26	1
Dibromochloromethane	1.0	U *	1.0	0.43	ug/L			12/20/14 19:26	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/20/14 19:26	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			12/20/14 19:26	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			12/20/14 19:26	1
Methyl acetate	10	U	10	2.3	ug/L			12/20/14 19:26	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/20/14 19:26	1
Methylcyclohexane	1.0	U	1.0	0.23	ug/L			12/20/14 19:26	1
Methylene Chloride	1.0	U	1.0	0.28	ug/L			12/20/14 19:26	1
Styrene	1.0	U	1.0	0.45	ug/L			12/20/14 19:26	1
Tetrachloroethene	1.0	U *	1.0	0.20	ug/L			12/20/14 19:26	1
Toluene	1.0	U	1.0	0.22	ug/L			12/20/14 19:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			12/20/14 19:26	1
trans-1,3-Dichloropropene	1.0	U *	1.0	0.56	ug/L			12/20/14 19:26	1
Trichloroethene	1.0	U	1.0	0.15	ug/L			12/20/14 19:26	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			12/20/14 19:26	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			12/20/14 19:26	1
Xylenes, Total	2.0	U	2.0	0.43	ug/L			12/20/14 19:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		63 - 129		12/20/14 19:26	1
4-Bromofluorobenzene (Surr)	81		66 - 120		12/20/14 19:26	1
Dibromofluoromethane (Surr)	87		75 - 121		12/20/14 19:26	1
Toluene-d8 (Surr)	83		74 - 120		12/20/14 19:26	1

Client Sample ID: 4009-16A-20141209

Lab Sample ID: 480-72829-20

Date Collected: 12/09/14 08:22

Matrix: Water

Date Received: 12/11/14 05:10

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	0.22	ug/L			12/20/14 19:48	1
1,1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			12/20/14 19:48	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.37	ug/L			12/20/14 19:48	1
1,1,2-Trichloroethane	1.0	U	1.0	0.17	ug/L			12/20/14 19:48	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			12/20/14 19:48	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			12/20/14 19:48	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.47	ug/L			12/20/14 19:48	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			12/20/14 19:48	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			12/20/14 19:48	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			12/20/14 19:48	1
1,2-Dibromoethane	1.0	U	1.0	0.19	ug/L			12/20/14 19:48	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-16A-20141209

Lab Sample ID: 480-72829-20

Date Collected: 12/09/14 08:22

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 19:48	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			12/20/14 19:48	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			12/20/14 19:48	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			12/20/14 19:48	1
1,3-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 19:48	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			12/20/14 19:48	1
2-Butanone (MEK)	10	U	10	4.1	ug/L			12/20/14 19:48	1
2-Hexanone	10	U	10	3.9	ug/L			12/20/14 19:48	1
4-Methyl-2-pentanone (MIBK)	10	U	10	3.6	ug/L			12/20/14 19:48	1
Acetone	10	U	10	3.4	ug/L			12/20/14 19:48	1
Benzene	8.0		1.0	0.24	ug/L			12/20/14 19:48	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			12/20/14 19:48	1
Bromoform	1.0	U	1.0	0.56	ug/L			12/20/14 19:48	1
Bromomethane	1.0	U	1.0	0.63	ug/L			12/20/14 19:48	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			12/20/14 19:48	1
Carbon tetrachloride	1.0	U	1.0	0.17	ug/L			12/20/14 19:48	1
Chlorobenzene	1.0	U	1.0	0.19	ug/L			12/20/14 19:48	1
Chloroethane	1.0	U	1.0	0.33	ug/L			12/20/14 19:48	1
Chloroform	1.0	U	1.0	0.21	ug/L			12/20/14 19:48	1
Chloromethane	1.0	U	1.0	0.44	ug/L			12/20/14 19:48	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/20/14 19:48	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			12/20/14 19:48	1
Cyclohexane	1.0	U	1.0	0.33	ug/L			12/20/14 19:48	1
Dibromochloromethane	1.0	U *	1.0	0.43	ug/L			12/20/14 19:48	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/20/14 19:48	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			12/20/14 19:48	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			12/20/14 19:48	1
Methyl acetate	10	U	10	2.3	ug/L			12/20/14 19:48	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/20/14 19:48	1
Methylcyclohexane	1.0	U	1.0	0.23	ug/L			12/20/14 19:48	1
Methylene Chloride	1.0	U	1.0	0.28	ug/L			12/20/14 19:48	1
Styrene	1.0	U	1.0	0.45	ug/L			12/20/14 19:48	1
Tetrachloroethene	1.0	U *	1.0	0.20	ug/L			12/20/14 19:48	1
Toluene	1.0	U	1.0	0.22	ug/L			12/20/14 19:48	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			12/20/14 19:48	1
trans-1,3-Dichloropropene	1.0	U *	1.0	0.56	ug/L			12/20/14 19:48	1
Trichloroethene	1.0	U	1.0	0.15	ug/L			12/20/14 19:48	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			12/20/14 19:48	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			12/20/14 19:48	1
Xylenes, Total	2.0	U	2.0	0.43	ug/L			12/20/14 19:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		63 - 129		12/20/14 19:48	1
4-Bromofluorobenzene (Surr)	82		66 - 120		12/20/14 19:48	1
Dibromofluoromethane (Surr)	83		75 - 121		12/20/14 19:48	1
Toluene-d8 (Surr)	82		74 - 120		12/20/14 19:48	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-22-20141209

Lab Sample ID: 480-72829-21

Date Collected: 12/09/14 07:57

Matrix: Water

Date Received: 12/11/14 05:10

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	0.22	ug/L			12/20/14 20:10	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			12/20/14 20:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.37	ug/L			12/20/14 20:10	1
1,1,2-Trichloroethane	1.0	U	1.0	0.17	ug/L			12/20/14 20:10	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			12/20/14 20:10	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			12/20/14 20:10	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.47	ug/L			12/20/14 20:10	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			12/20/14 20:10	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			12/20/14 20:10	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			12/20/14 20:10	1
1,2-Dibromoethane	1.0	U	1.0	0.19	ug/L			12/20/14 20:10	1
1,2-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 20:10	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			12/20/14 20:10	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			12/20/14 20:10	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			12/20/14 20:10	1
1,3-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 20:10	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			12/20/14 20:10	1
2-Butanone (MEK)	10	U	10	4.1	ug/L			12/20/14 20:10	1
2-Hexanone	10	U	10	3.9	ug/L			12/20/14 20:10	1
4-Methyl-2-pentanone (MIBK)	10	U	10	3.6	ug/L			12/20/14 20:10	1
Acetone	10	U	10	3.4	ug/L			12/20/14 20:10	1
Benzene	0.82	J	1.0	0.24	ug/L			12/20/14 20:10	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			12/20/14 20:10	1
Bromoform	1.0	U	1.0	0.56	ug/L			12/20/14 20:10	1
Bromomethane	1.0	U	1.0	0.63	ug/L			12/20/14 20:10	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			12/20/14 20:10	1
Carbon tetrachloride	1.0	U	1.0	0.17	ug/L			12/20/14 20:10	1
Chlorobenzene	1.0	U	1.0	0.19	ug/L			12/20/14 20:10	1
Chloroethane	1.0	U	1.0	0.33	ug/L			12/20/14 20:10	1
Chloroform	1.0	U	1.0	0.21	ug/L			12/20/14 20:10	1
Chloromethane	1.0	U	1.0	0.44	ug/L			12/20/14 20:10	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/20/14 20:10	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			12/20/14 20:10	1
Cyclohexane	1.0	U	1.0	0.33	ug/L			12/20/14 20:10	1
Dibromochloromethane	1.0	U *	1.0	0.43	ug/L			12/20/14 20:10	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/20/14 20:10	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			12/20/14 20:10	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			12/20/14 20:10	1
Methyl acetate	10	U	10	2.3	ug/L			12/20/14 20:10	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/20/14 20:10	1
Methylcyclohexane	1.0	U	1.0	0.23	ug/L			12/20/14 20:10	1
Methylene Chloride	1.0	U	1.0	0.28	ug/L			12/20/14 20:10	1
Styrene	1.0	U	1.0	0.45	ug/L			12/20/14 20:10	1
Tetrachloroethene	1.0	U *	1.0	0.20	ug/L			12/20/14 20:10	1
Toluene	0.64	J	1.0	0.22	ug/L			12/20/14 20:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			12/20/14 20:10	1
trans-1,3-Dichloropropene	1.0	U *	1.0	0.56	ug/L			12/20/14 20:10	1
Trichloroethene	1.0	U	1.0	0.15	ug/L			12/20/14 20:10	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			12/20/14 20:10	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-22-20141209

Lab Sample ID: 480-72829-21

Date Collected: 12/09/14 07:57

Matrix: Water

Date Received: 12/11/14 05:10

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	0.29	ug/L			12/20/14 20:10	1
Xylenes, Total	2.0	U	2.0	0.43	ug/L			12/20/14 20:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		63 - 129					12/20/14 20:10	1
4-Bromofluorobenzene (Surr)	85		66 - 120					12/20/14 20:10	1
Dibromofluoromethane (Surr)	89		75 - 121					12/20/14 20:10	1
Toluene-d8 (Surr)	83		74 - 120					12/20/14 20:10	1

Client Sample ID: 4009-23S-20141209

Lab Sample ID: 480-72829-22

Date Collected: 12/09/14 12:14

Matrix: Water

Date Received: 12/11/14 05:10

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	0.22	ug/L			12/20/14 20:33	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			12/20/14 20:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.37	ug/L			12/20/14 20:33	1
1,1,2-Trichloroethane	1.0	U	1.0	0.17	ug/L			12/20/14 20:33	1
1,1-Dichloroethane	2.2		1.0	0.26	ug/L			12/20/14 20:33	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			12/20/14 20:33	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.47	ug/L			12/20/14 20:33	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			12/20/14 20:33	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			12/20/14 20:33	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			12/20/14 20:33	1
1,2-Dibromoethane	1.0	U	1.0	0.19	ug/L			12/20/14 20:33	1
1,2-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 20:33	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			12/20/14 20:33	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			12/20/14 20:33	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			12/20/14 20:33	1
1,3-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 20:33	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			12/20/14 20:33	1
2-Butanone (MEK)	10	U	10	4.1	ug/L			12/20/14 20:33	1
2-Hexanone	10	U	10	3.9	ug/L			12/20/14 20:33	1
4-Methyl-2-pentanone (MIBK)	10	U	10	3.6	ug/L			12/20/14 20:33	1
Acetone	10	U	10	3.4	ug/L			12/20/14 20:33	1
Benzene	1.1		1.0	0.24	ug/L			12/20/14 20:33	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			12/20/14 20:33	1
Bromoform	1.0	U	1.0	0.56	ug/L			12/20/14 20:33	1
Bromomethane	1.0	U	1.0	0.63	ug/L			12/20/14 20:33	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			12/20/14 20:33	1
Carbon tetrachloride	1.0	U	1.0	0.17	ug/L			12/20/14 20:33	1
Chlorobenzene	1.0	U	1.0	0.19	ug/L			12/20/14 20:33	1
Chloroethane	0.64	J	1.0	0.33	ug/L			12/20/14 20:33	1
Chloroform	1.0	U	1.0	0.21	ug/L			12/20/14 20:33	1
Chloromethane	1.0	U	1.0	0.44	ug/L			12/20/14 20:33	1
cis-1,2-Dichloroethene	2.9		1.0	0.20	ug/L			12/20/14 20:33	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			12/20/14 20:33	1
Cyclohexane	1.0	U	1.0	0.33	ug/L			12/20/14 20:33	1
Dibromochloromethane	1.0	U *	1.0	0.43	ug/L			12/20/14 20:33	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-23S-20141209

Lab Sample ID: 480-72829-22

Date Collected: 12/09/14 12:14

Matrix: Water

Date Received: 12/11/14 05:10

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	0.50	ug/L			12/20/14 20:33	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			12/20/14 20:33	1
Isopropylbenzene	2.2		1.0	0.35	ug/L			12/20/14 20:33	1
Methyl acetate	10	U	10	2.3	ug/L			12/20/14 20:33	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/20/14 20:33	1
Methylcyclohexane	1.0	U	1.0	0.23	ug/L			12/20/14 20:33	1
Methylene Chloride	1.0	U	1.0	0.28	ug/L			12/20/14 20:33	1
Styrene	1.0	U	1.0	0.45	ug/L			12/20/14 20:33	1
Tetrachloroethene	1.0	U *	1.0	0.20	ug/L			12/20/14 20:33	1
Toluene	1.0	U	1.0	0.22	ug/L			12/20/14 20:33	1
trans-1,2-Dichloroethene	1.8		1.0	0.26	ug/L			12/20/14 20:33	1
trans-1,3-Dichloropropene	1.0	U *	1.0	0.56	ug/L			12/20/14 20:33	1
Trichloroethene	1.8		1.0	0.15	ug/L			12/20/14 20:33	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			12/20/14 20:33	1
Vinyl chloride	0.80	J	1.0	0.29	ug/L			12/20/14 20:33	1
Xylenes, Total	2.0	U	2.0	0.43	ug/L			12/20/14 20:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		63 - 129		12/20/14 20:33	1
4-Bromofluorobenzene (Surr)	91		66 - 120		12/20/14 20:33	1
Dibromofluoromethane (Surr)	86		75 - 121		12/20/14 20:33	1
Toluene-d8 (Surr)	85		74 - 120		12/20/14 20:33	1

Client Sample ID: 4009-23D-20141209

Lab Sample ID: 480-72829-23

Date Collected: 12/09/14 12:17

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	570		25	5.5	ug/L			12/21/14 16:31	25
1,1,2,2-Tetrachloroethane	6.7	U	6.7	1.5	ug/L			12/20/14 14:42	6.67
1,1,2-Trichloro-1,2,2-trifluoroethane	8.2		6.7	2.5	ug/L			12/20/14 14:42	6.67
1,1,2-Trichloroethane	6.7	U	6.7	1.1	ug/L			12/20/14 14:42	6.67
1,1-Dichloroethane	280		25	6.5	ug/L			12/21/14 16:31	25
1,1-Dichloroethene	40		6.7	3.0	ug/L			12/20/14 14:42	6.67
1,2,3-Trimethylbenzene	33	U	33	3.1	ug/L			12/20/14 14:42	6.67
1,2,4-Trichlorobenzene	6.7	U	6.7	2.1	ug/L			12/20/14 14:42	6.67
1,2,4-Trimethylbenzene	6.7	U	6.7	2.7	ug/L			12/20/14 14:42	6.67
1,2-Dibromo-3-Chloropropane	13	U	13	5.5	ug/L			12/20/14 14:42	6.67
1,2-Dibromoethane	6.7	U	6.7	1.3	ug/L			12/20/14 14:42	6.67
1,2-Dichlorobenzene	6.7	U	6.7	1.1	ug/L			12/20/14 14:42	6.67
1,2-Dichloroethane	6.7	U	6.7	1.3	ug/L			12/20/14 14:42	6.67
1,2-Dichloropropane	6.7	U	6.7	1.5	ug/L			12/20/14 14:42	6.67
1,3,5-Trimethylbenzene	6.7	U	6.7	3.2	ug/L			12/20/14 14:42	6.67
1,3-Dichlorobenzene	6.7	U	6.7	1.1	ug/L			12/20/14 14:42	6.67
1,4-Dichlorobenzene	6.7	U	6.7	1.1	ug/L			12/20/14 14:42	6.67
2-Butanone (MEK)	67	U	67	27	ug/L			12/20/14 14:42	6.67
2-Hexanone	67	U	67	26	ug/L			12/20/14 14:42	6.67
4-Methyl-2-pentanone (MIBK)	67	U	67	24	ug/L			12/20/14 14:42	6.67

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-23D-20141209

Lab Sample ID: 480-72829-23

Date Collected: 12/09/14 12:17

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	67	U	67	23	ug/L			12/20/14 14:42	6.67
Benzene	6.7	U	6.7	1.6	ug/L			12/20/14 14:42	6.67
Bromodichloromethane	6.7	U	6.7	1.0	ug/L			12/20/14 14:42	6.67
Bromoform	6.7	U *	6.7	3.7	ug/L			12/20/14 14:42	6.67
Bromomethane	6.7	U	6.7	4.2	ug/L			12/20/14 14:42	6.67
Carbon disulfide	6.7	U	6.7	1.9	ug/L			12/20/14 14:42	6.67
Carbon tetrachloride	6.7	U	6.7	1.1	ug/L			12/20/14 14:42	6.67
Chlorobenzene	6.7	U	6.7	1.3	ug/L			12/20/14 14:42	6.67
Chloroethane	2.8	J	6.7	2.2	ug/L			12/20/14 14:42	6.67
Chloroform	6.7	U	6.7	1.4	ug/L			12/20/14 14:42	6.67
Chloromethane	6.7	U	6.7	2.9	ug/L			12/20/14 14:42	6.67
cis-1,2-Dichloroethene	330		25	5.0	ug/L			12/21/14 16:31	25
cis-1,3-Dichloropropene	6.7	U	6.7	3.1	ug/L			12/20/14 14:42	6.67
Cyclohexane	6.7	U	6.7	2.2	ug/L			12/20/14 14:42	6.67
Dibromochloromethane	6.7	U	6.7	2.9	ug/L			12/20/14 14:42	6.67
Dichlorodifluoromethane	6.7	U	6.7	3.3	ug/L			12/20/14 14:42	6.67
Ethylbenzene	6.7	U	6.7	1.5	ug/L			12/20/14 14:42	6.67
Isopropylbenzene	6.7	U	6.7	2.3	ug/L			12/20/14 14:42	6.67
Methyl acetate	67	U	67	15	ug/L			12/20/14 14:42	6.67
Methyl tert-butyl ether	6.7	U	6.7	1.1	ug/L			12/20/14 14:42	6.67
Methylcyclohexane	6.7	U	6.7	1.5	ug/L			12/20/14 14:42	6.67
Methylene Chloride	6.7	U	6.7	1.9	ug/L			12/20/14 14:42	6.67
Styrene	6.7	U	6.7	3.0	ug/L			12/20/14 14:42	6.67
Tetrachloroethene	6.7	U	6.7	1.3	ug/L			12/20/14 14:42	6.67
Toluene	6.7	U	6.7	1.5	ug/L			12/20/14 14:42	6.67
trans-1,2-Dichloroethene	6.7	U	6.7	1.7	ug/L			12/20/14 14:42	6.67
trans-1,3-Dichloropropene	6.7	U	6.7	3.7	ug/L			12/20/14 14:42	6.67
Trichloroethene	4.9	J	6.7	1.0	ug/L			12/20/14 14:42	6.67
Trichlorofluoromethane	6.7	U	6.7	3.3	ug/L			12/20/14 14:42	6.67
Vinyl chloride	340		25	7.3	ug/L			12/21/14 16:31	25
Xylenes, Total	13	U	13	2.9	ug/L			12/20/14 14:42	6.67

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		63 - 129		12/20/14 14:42	6.67
1,2-Dichloroethane-d4 (Surr)	86		63 - 129		12/21/14 16:31	25
4-Bromofluorobenzene (Surr)	87		66 - 120		12/20/14 14:42	6.67
4-Bromofluorobenzene (Surr)	89		66 - 120		12/21/14 16:31	25
Dibromofluoromethane (Surr)	89		75 - 121		12/20/14 14:42	6.67
Dibromofluoromethane (Surr)	92		75 - 121		12/21/14 16:31	25
Toluene-d8 (Surr)	81		74 - 120		12/20/14 14:42	6.67
Toluene-d8 (Surr)	81		74 - 120		12/21/14 16:31	25

Client Sample ID: 4009-24-20141209

Lab Sample ID: 480-72829-24

Date Collected: 12/09/14 11:45

Matrix: Water

Date Received: 12/11/14 05:10

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	0.22	ug/L			12/20/14 14:35	1
1,1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			12/20/14 14:35	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-24-20141209

Lab Sample ID: 480-72829-24

Date Collected: 12/09/14 11:45

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.37	ug/L			12/20/14 14:35	1
1,1,2-Trichloroethane	1.0	U	1.0	0.17	ug/L			12/20/14 14:35	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			12/20/14 14:35	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			12/20/14 14:35	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.47	ug/L			12/20/14 14:35	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			12/20/14 14:35	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			12/20/14 14:35	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			12/20/14 14:35	1
1,2-Dibromoethane	1.0	U	1.0	0.19	ug/L			12/20/14 14:35	1
1,2-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 14:35	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			12/20/14 14:35	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			12/20/14 14:35	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			12/20/14 14:35	1
1,3-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 14:35	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			12/20/14 14:35	1
2-Butanone (MEK)	10	U	10	4.1	ug/L			12/20/14 14:35	1
2-Hexanone	10	U	10	3.9	ug/L			12/20/14 14:35	1
4-Methyl-2-pentanone (MIBK)	10	U	10	3.6	ug/L			12/20/14 14:35	1
Acetone	10	U	10	3.4	ug/L			12/20/14 14:35	1
Benzene	1.0	U	1.0	0.24	ug/L			12/20/14 14:35	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			12/20/14 14:35	1
Bromoform	1.0	U	1.0	0.56	ug/L			12/20/14 14:35	1
Bromomethane	1.0	U	1.0	0.63	ug/L			12/20/14 14:35	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			12/20/14 14:35	1
Carbon tetrachloride	1.0	U	1.0	0.17	ug/L			12/20/14 14:35	1
Chlorobenzene	1.0	U	1.0	0.19	ug/L			12/20/14 14:35	1
Chloroethane	1.0	U	1.0	0.33	ug/L			12/20/14 14:35	1
Chloroform	0.48	J	1.0	0.21	ug/L			12/20/14 14:35	1
Chloromethane	1.0	U	1.0	0.44	ug/L			12/20/14 14:35	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/20/14 14:35	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			12/20/14 14:35	1
Cyclohexane	1.0	U	1.0	0.33	ug/L			12/20/14 14:35	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			12/20/14 14:35	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/20/14 14:35	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			12/20/14 14:35	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			12/20/14 14:35	1
Methyl acetate	10	U	10	2.3	ug/L			12/20/14 14:35	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/20/14 14:35	1
Methylcyclohexane	1.0	U	1.0	0.23	ug/L			12/20/14 14:35	1
Methylene Chloride	1.0	U	1.0	0.28	ug/L			12/20/14 14:35	1
Styrene	1.0	U	1.0	0.45	ug/L			12/20/14 14:35	1
Tetrachloroethene	1.0	U	1.0	0.20	ug/L			12/20/14 14:35	1
Toluene	1.0	U	1.0	0.22	ug/L			12/20/14 14:35	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			12/20/14 14:35	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			12/20/14 14:35	1
Trichloroethene	1.0	U	1.0	0.15	ug/L			12/20/14 14:35	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			12/20/14 14:35	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			12/20/14 14:35	1
Xylenes, Total	2.0	U	2.0	0.43	ug/L			12/20/14 14:35	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-24-20141209

Lab Sample ID: 480-72829-24

Date Collected: 12/09/14 11:45

Matrix: Water

Date Received: 12/11/14 05:10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		63 - 129		12/20/14 14:35	1
4-Bromofluorobenzene (Surr)	91		66 - 120		12/20/14 14:35	1
Dibromofluoromethane (Surr)	97		75 - 121		12/20/14 14:35	1
Toluene-d8 (Surr)	92		74 - 120		12/20/14 14:35	1

Client Sample ID: 4009-25S-20141209

Lab Sample ID: 480-72829-25

Date Collected: 12/09/14 11:28

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	3800		170	37	ug/L			12/21/14 16:54	166.67
1,1,2,2-Tetrachloroethane	50	U	50	11	ug/L			12/20/14 15:04	50
1,1,2-Trichloro-1,2,2-trifluoroethane	32	J	50	19	ug/L			12/20/14 15:04	50
1,1,2-Trichloroethane	50	U	50	8.5	ug/L			12/20/14 15:04	50
1,1-Dichloroethane	99		50	13	ug/L			12/20/14 15:04	50
1,1-Dichloroethene	280		50	23	ug/L			12/20/14 15:04	50
1,2,3-Trimethylbenzene	250	U	250	24	ug/L			12/20/14 15:04	50
1,2,4-Trichlorobenzene	50	U	50	16	ug/L			12/20/14 15:04	50
1,2,4-Trimethylbenzene	50	U	50	21	ug/L			12/20/14 15:04	50
1,2-Dibromo-3-Chloropropane	100	U	100	41	ug/L			12/20/14 15:04	50
1,2-Dibromoethane	50	U	50	9.5	ug/L			12/20/14 15:04	50
1,2-Dichlorobenzene	50	U	50	8.5	ug/L			12/20/14 15:04	50
1,2-Dichloroethane	50	U	50	10	ug/L			12/20/14 15:04	50
1,2-Dichloropropane	50	U	50	11	ug/L			12/20/14 15:04	50
1,3,5-Trimethylbenzene	50	U	50	24	ug/L			12/20/14 15:04	50
1,3-Dichlorobenzene	50	U	50	8.5	ug/L			12/20/14 15:04	50
1,4-Dichlorobenzene	50	U	50	8.0	ug/L			12/20/14 15:04	50
2-Butanone (MEK)	500	U	500	200	ug/L			12/20/14 15:04	50
2-Hexanone	500	U	500	190	ug/L			12/20/14 15:04	50
4-Methyl-2-pentanone (MIBK)	500	U	500	180	ug/L			12/20/14 15:04	50
Acetone	500	U	500	170	ug/L			12/20/14 15:04	50
Benzene	50	U	50	12	ug/L			12/20/14 15:04	50
Bromodichloromethane	50	U	50	7.5	ug/L			12/20/14 15:04	50
Bromoform	50	U *	50	28	ug/L			12/20/14 15:04	50
Bromomethane	50	U	50	32	ug/L			12/20/14 15:04	50
Carbon disulfide	50	U	50	14	ug/L			12/20/14 15:04	50
Carbon tetrachloride	50	U	50	8.5	ug/L			12/20/14 15:04	50
Chlorobenzene	50	U	50	9.5	ug/L			12/20/14 15:04	50
Chloroethane	50	U	50	17	ug/L			12/20/14 15:04	50
Chloroform	50	U	50	11	ug/L			12/20/14 15:04	50
Chloromethane	50	U	50	22	ug/L			12/20/14 15:04	50
cis-1,2-Dichloroethene	260		50	10	ug/L			12/20/14 15:04	50
cis-1,3-Dichloropropene	50	U	50	23	ug/L			12/20/14 15:04	50
Cyclohexane	50	U	50	17	ug/L			12/20/14 15:04	50
Dibromochloromethane	50	U	50	22	ug/L			12/20/14 15:04	50
Dichlorodifluoromethane	50	U	50	25	ug/L			12/20/14 15:04	50
Ethylbenzene	50	U	50	12	ug/L			12/20/14 15:04	50
Isopropylbenzene	50	U	50	18	ug/L			12/20/14 15:04	50

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-25S-20141209

Lab Sample ID: 480-72829-25

Date Collected: 12/09/14 11:28

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl acetate	500	U	500	110	ug/L			12/20/14 15:04	50
Methyl tert-butyl ether	50	U	50	8.0	ug/L			12/20/14 15:04	50
Methylcyclohexane	50	U	50	12	ug/L			12/20/14 15:04	50
Methylene Chloride	50	U	50	14	ug/L			12/20/14 15:04	50
Styrene	50	U	50	23	ug/L			12/20/14 15:04	50
Tetrachloroethene	50	U	50	10	ug/L			12/20/14 15:04	50
Toluene	50	U	50	11	ug/L			12/20/14 15:04	50
trans-1,2-Dichloroethene	50	U	50	13	ug/L			12/20/14 15:04	50
trans-1,3-Dichloropropene	50	U	50	28	ug/L			12/20/14 15:04	50
Trichloroethene	230		50	7.5	ug/L			12/20/14 15:04	50
Trichlorofluoromethane	50	U	50	25	ug/L			12/20/14 15:04	50
Vinyl chloride	29	J	50	15	ug/L			12/20/14 15:04	50
Xylenes, Total	100	U	100	22	ug/L			12/20/14 15:04	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		63 - 129		12/20/14 15:04	50
1,2-Dichloroethane-d4 (Surr)	83		63 - 129		12/21/14 16:54	166.67
4-Bromofluorobenzene (Surr)	90		66 - 120		12/20/14 15:04	50
4-Bromofluorobenzene (Surr)	90		66 - 120		12/21/14 16:54	166.67
Dibromofluoromethane (Surr)	92		75 - 121		12/20/14 15:04	50
Dibromofluoromethane (Surr)	90		75 - 121		12/21/14 16:54	166.67
Toluene-d8 (Surr)	80		74 - 120		12/20/14 15:04	50
Toluene-d8 (Surr)	80		74 - 120		12/21/14 16:54	166.67

Client Sample ID: 4009-25D-20141209

Lab Sample ID: 480-72829-26

Date Collected: 12/09/14 11:32

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1900		83	18	ug/L			12/21/14 17:16	83.33
1,1,2,2-Tetrachloroethane	33	U	33	7.3	ug/L			12/20/14 15:27	33.33
1,1,2-Trichloro-1,2,2-trifluoroethane	25	J	33	12	ug/L			12/20/14 15:27	33.33
1,1,2-Trichloroethane	33	U	33	5.7	ug/L			12/20/14 15:27	33.33
1,1-Dichloroethane	50		33	8.7	ug/L			12/20/14 15:27	33.33
1,1-Dichloroethene	190		33	15	ug/L			12/20/14 15:27	33.33
1,2,3-Trimethylbenzene	170	U	170	16	ug/L			12/20/14 15:27	33.33
1,2,4-Trichlorobenzene	33	U	33	11	ug/L			12/20/14 15:27	33.33
1,2,4-Trimethylbenzene	33	U	33	14	ug/L			12/20/14 15:27	33.33
1,2-Dibromo-3-Chloropropane	67	U	67	27	ug/L			12/20/14 15:27	33.33
1,2-Dibromoethane	33	U	33	6.3	ug/L			12/20/14 15:27	33.33
1,2-Dichlorobenzene	33	U	33	5.7	ug/L			12/20/14 15:27	33.33
1,2-Dichloroethane	33	U	33	6.7	ug/L			12/20/14 15:27	33.33
1,2-Dichloropropane	33	U	33	7.3	ug/L			12/20/14 15:27	33.33
1,3,5-Trimethylbenzene	33	U	33	16	ug/L			12/20/14 15:27	33.33
1,3-Dichlorobenzene	33	U	33	5.7	ug/L			12/20/14 15:27	33.33
1,4-Dichlorobenzene	33	U	33	5.3	ug/L			12/20/14 15:27	33.33
2-Butanone (MEK)	330	U	330	140	ug/L			12/20/14 15:27	33.33
2-Hexanone	330	U	330	130	ug/L			12/20/14 15:27	33.33

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-25D-20141209

Lab Sample ID: 480-72829-26

Date Collected: 12/09/14 11:32

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	330	U	330	120	ug/L			12/20/14 15:27	33.33
Acetone	330	U	330	110	ug/L			12/20/14 15:27	33.33
Benzene	33	U	33	8.0	ug/L			12/20/14 15:27	33.33
Bromodichloromethane	33	U	33	5.0	ug/L			12/20/14 15:27	33.33
Bromoform	33	U *	33	19	ug/L			12/20/14 15:27	33.33
Bromomethane	33	U	33	21	ug/L			12/20/14 15:27	33.33
Carbon disulfide	33	U	33	9.3	ug/L			12/20/14 15:27	33.33
Carbon tetrachloride	33	U	33	5.7	ug/L			12/20/14 15:27	33.33
Chlorobenzene	33	U	33	6.3	ug/L			12/20/14 15:27	33.33
Chloroethane	33	U	33	11	ug/L			12/20/14 15:27	33.33
Chloroform	33	U	33	7.0	ug/L			12/20/14 15:27	33.33
Chloromethane	33	U	33	15	ug/L			12/20/14 15:27	33.33
cis-1,2-Dichloroethene	260		33	6.7	ug/L			12/20/14 15:27	33.33
cis-1,3-Dichloropropene	33	U	33	15	ug/L			12/20/14 15:27	33.33
Cyclohexane	33	U	33	11	ug/L			12/20/14 15:27	33.33
Dibromochloromethane	33	U	33	14	ug/L			12/20/14 15:27	33.33
Dichlorodifluoromethane	33	U	33	17	ug/L			12/20/14 15:27	33.33
Ethylbenzene	33	U	33	7.7	ug/L			12/20/14 15:27	33.33
Isopropylbenzene	33	U	33	12	ug/L			12/20/14 15:27	33.33
Methyl acetate	330	U	330	76	ug/L			12/20/14 15:27	33.33
Methyl tert-butyl ether	33	U	33	5.3	ug/L			12/20/14 15:27	33.33
Methylcyclohexane	33	U	33	7.7	ug/L			12/20/14 15:27	33.33
Methylene Chloride	33	U	33	9.3	ug/L			12/20/14 15:27	33.33
Styrene	33	U	33	15	ug/L			12/20/14 15:27	33.33
Tetrachloroethene	33	U	33	6.7	ug/L			12/20/14 15:27	33.33
Toluene	33	U	33	7.3	ug/L			12/20/14 15:27	33.33
trans-1,2-Dichloroethene	33	U	33	8.7	ug/L			12/20/14 15:27	33.33
trans-1,3-Dichloropropene	33	U	33	19	ug/L			12/20/14 15:27	33.33
Trichloroethene	100		33	5.0	ug/L			12/20/14 15:27	33.33
Trichlorofluoromethane	33	U	33	16	ug/L			12/20/14 15:27	33.33
Vinyl chloride	32 J		33	9.7	ug/L			12/20/14 15:27	33.33
Xylenes, Total	67	U	67	14	ug/L			12/20/14 15:27	33.33

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		63 - 129		12/20/14 15:27	33.33
1,2-Dichloroethane-d4 (Surr)	87		63 - 129		12/21/14 17:16	83.33
4-Bromofluorobenzene (Surr)	89		66 - 120		12/20/14 15:27	33.33
4-Bromofluorobenzene (Surr)	94		66 - 120		12/21/14 17:16	83.33
Dibromofluoromethane (Surr)	90		75 - 121		12/20/14 15:27	33.33
Dibromofluoromethane (Surr)	92		75 - 121		12/21/14 17:16	83.33
Toluene-d8 (Surr)	81		74 - 120		12/20/14 15:27	33.33
Toluene-d8 (Surr)	81		74 - 120		12/21/14 17:16	83.33

Client Sample ID: 4009-26-20141209

Lab Sample ID: 480-72829-27

Date Collected: 12/09/14 11:02

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	92		4.0	0.88	ug/L			12/21/14 17:39	4

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-26-20141209

Lab Sample ID: 480-72829-27

Date Collected: 12/09/14 11:02

Matrix: Water

Date Received: 12/11/14 05:10

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	2.0	U	2.0	0.44	ug/L			12/20/14 15:49	2
1,1,2-Trichloro-1,2,2-trifluoroethane	7.7		2.0	0.74	ug/L			12/20/14 15:49	2
1,1,2-Trichloroethane	2.0	U	2.0	0.34	ug/L			12/20/14 15:49	2
1,1-Dichloroethane	14		2.0	0.52	ug/L			12/20/14 15:49	2
1,1-Dichloroethene	7.8		2.0	0.90	ug/L			12/20/14 15:49	2
1,2,3-Trimethylbenzene	10	U	10	0.94	ug/L			12/20/14 15:49	2
1,2,4-Trichlorobenzene	2.0	U	2.0	0.64	ug/L			12/20/14 15:49	2
1,2,4-Trimethylbenzene	2.0	U	2.0	0.82	ug/L			12/20/14 15:49	2
1,2-Dibromo-3-Chloropropane	4.0	U	4.0	1.6	ug/L			12/20/14 15:49	2
1,2-Dibromoethane	2.0	U	2.0	0.38	ug/L			12/20/14 15:49	2
1,2-Dichlorobenzene	2.0	U	2.0	0.34	ug/L			12/20/14 15:49	2
1,2-Dichloroethane	2.0	U	2.0	0.40	ug/L			12/20/14 15:49	2
1,2-Dichloropropane	2.0	U	2.0	0.44	ug/L			12/20/14 15:49	2
1,3,5-Trimethylbenzene	2.0	U	2.0	0.96	ug/L			12/20/14 15:49	2
1,3-Dichlorobenzene	2.0	U	2.0	0.34	ug/L			12/20/14 15:49	2
1,4-Dichlorobenzene	2.0	U	2.0	0.32	ug/L			12/20/14 15:49	2
2-Butanone (MEK)	20	U	20	8.2	ug/L			12/20/14 15:49	2
2-Hexanone	20	U	20	7.8	ug/L			12/20/14 15:49	2
4-Methyl-2-pentanone (MIBK)	20	U	20	7.2	ug/L			12/20/14 15:49	2
Acetone	20	U	20	6.8	ug/L			12/20/14 15:49	2
Benzene	0.55	J	2.0	0.48	ug/L			12/20/14 15:49	2
Bromodichloromethane	2.0	U	2.0	0.30	ug/L			12/20/14 15:49	2
Bromoform	2.0	U *	2.0	1.1	ug/L			12/20/14 15:49	2
Bromomethane	2.0	U	2.0	1.3	ug/L			12/20/14 15:49	2
Carbon disulfide	2.0	U	2.0	0.56	ug/L			12/20/14 15:49	2
Carbon tetrachloride	2.0	U	2.0	0.34	ug/L			12/20/14 15:49	2
Chlorobenzene	2.0	U	2.0	0.38	ug/L			12/20/14 15:49	2
Chloroethane	2.0	U	2.0	0.66	ug/L			12/20/14 15:49	2
Chloroform	2.0	U	2.0	0.42	ug/L			12/20/14 15:49	2
Chloromethane	2.0	U	2.0	0.88	ug/L			12/20/14 15:49	2
cis-1,2-Dichloroethene	85		4.0	0.80	ug/L			12/21/14 17:39	4
cis-1,3-Dichloropropene	2.0	U	2.0	0.92	ug/L			12/20/14 15:49	2
Cyclohexane	2.0	U	2.0	0.66	ug/L			12/20/14 15:49	2
Dibromochloromethane	2.0	U	2.0	0.86	ug/L			12/20/14 15:49	2
Dichlorodifluoromethane	2.8		2.0	1.0	ug/L			12/20/14 15:49	2
Ethylbenzene	2.0	U	2.0	0.46	ug/L			12/20/14 15:49	2
Isopropylbenzene	2.0	U	2.0	0.70	ug/L			12/20/14 15:49	2
Methyl acetate	20	U	20	4.5	ug/L			12/20/14 15:49	2
Methyl tert-butyl ether	2.0	U	2.0	0.32	ug/L			12/20/14 15:49	2
Methylcyclohexane	2.0	U	2.0	0.46	ug/L			12/20/14 15:49	2
Methylene Chloride	2.0	U	2.0	0.56	ug/L			12/20/14 15:49	2
Styrene	2.0	U	2.0	0.90	ug/L			12/20/14 15:49	2
Tetrachloroethene	0.89	J	2.0	0.40	ug/L			12/20/14 15:49	2
Toluene	2.0	U	2.0	0.44	ug/L			12/20/14 15:49	2
trans-1,2-Dichloroethene	2.0	U	2.0	0.52	ug/L			12/20/14 15:49	2
trans-1,3-Dichloropropene	2.0	U	2.0	1.1	ug/L			12/20/14 15:49	2
Trichloroethene	49		2.0	0.30	ug/L			12/20/14 15:49	2
Trichlorofluoromethane	2.0	U	2.0	0.98	ug/L			12/20/14 15:49	2
Vinyl chloride	9.4		2.0	0.58	ug/L			12/20/14 15:49	2

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-26-20141209

Lab Sample ID: 480-72829-27

Date Collected: 12/09/14 11:02

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	4.0	U	4.0	0.86	ug/L			12/20/14 15:49	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		63 - 129					12/20/14 15:49	2
1,2-Dichloroethane-d4 (Surr)	82		63 - 129					12/21/14 17:39	4
4-Bromofluorobenzene (Surr)	89		66 - 120					12/20/14 15:49	2
4-Bromofluorobenzene (Surr)	90		66 - 120					12/21/14 17:39	4
Dibromofluoromethane (Surr)	88		75 - 121					12/20/14 15:49	2
Dibromofluoromethane (Surr)	91		75 - 121					12/21/14 17:39	4
Toluene-d8 (Surr)	81		74 - 120					12/20/14 15:49	2
Toluene-d8 (Surr)	79		74 - 120					12/21/14 17:39	4

Client Sample ID: 4009-27S-20141209

Lab Sample ID: 480-72829-28

Date Collected: 12/09/14 09:53

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	49		2.0	0.44	ug/L			12/22/14 13:43	2
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.44	ug/L			12/22/14 13:43	2
1,1,2-Trichloro-1,2,2-trifluoroethane	2.6		2.0	0.74	ug/L			12/22/14 13:43	2
1,1,2-Trichloroethane	2.0	U	2.0	0.34	ug/L			12/22/14 13:43	2
1,1-Dichloroethane	1.9	J	2.0	0.52	ug/L			12/22/14 13:43	2
1,1-Dichloroethene	4.6		2.0	0.90	ug/L			12/22/14 13:43	2
1,2,3-Trimethylbenzene	10	U	10	0.94	ug/L			12/22/14 13:43	2
1,2,4-Trichlorobenzene	2.0	U	2.0	0.64	ug/L			12/22/14 13:43	2
1,2,4-Trimethylbenzene	2.0	U	2.0	0.82	ug/L			12/22/14 13:43	2
1,2-Dibromo-3-Chloropropane	4.0	U	4.0	1.6	ug/L			12/22/14 13:43	2
1,2-Dibromoethane	2.0	U	2.0	0.38	ug/L			12/22/14 13:43	2
1,2-Dichlorobenzene	2.0	U	2.0	0.34	ug/L			12/22/14 13:43	2
1,2-Dichloroethane	2.0	U	2.0	0.40	ug/L			12/22/14 13:43	2
1,2-Dichloropropane	2.0	U	2.0	0.44	ug/L			12/22/14 13:43	2
1,3,5-Trimethylbenzene	2.0	U	2.0	0.96	ug/L			12/22/14 13:43	2
1,3-Dichlorobenzene	2.0	U	2.0	0.34	ug/L			12/22/14 13:43	2
1,4-Dichlorobenzene	2.0	U	2.0	0.32	ug/L			12/22/14 13:43	2
2-Butanone (MEK)	20	U	20	8.2	ug/L			12/22/14 13:43	2
2-Hexanone	20	U	20	7.8	ug/L			12/22/14 13:43	2
4-Methyl-2-pentanone (MIBK)	20	U	20	7.2	ug/L			12/22/14 13:43	2
Acetone	20	U	20	6.8	ug/L			12/22/14 13:43	2
Benzene	2.0	U	2.0	0.48	ug/L			12/22/14 13:43	2
Bromodichloromethane	2.0	U	2.0	0.30	ug/L			12/22/14 13:43	2
Bromoform	2.0	U	2.0	1.1	ug/L			12/22/14 13:43	2
Bromomethane	2.0	U	2.0	1.3	ug/L			12/22/14 13:43	2
Carbon disulfide	2.0	U	2.0	0.56	ug/L			12/22/14 13:43	2
Carbon tetrachloride	2.0	U	2.0	0.34	ug/L			12/22/14 13:43	2
Chlorobenzene	2.0	U	2.0	0.38	ug/L			12/22/14 13:43	2
Chloroethane	2.0	U	2.0	0.66	ug/L			12/22/14 13:43	2
Chloroform	2.0	U	2.0	0.42	ug/L			12/22/14 13:43	2
Chloromethane	2.0	U	2.0	0.88	ug/L			12/22/14 13:43	2

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-27S-20141209

Lab Sample ID: 480-72829-28

Date Collected: 12/09/14 09:53

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	19		2.0	0.40	ug/L			12/22/14 13:43	2
cis-1,3-Dichloropropene	2.0	U	2.0	0.92	ug/L			12/22/14 13:43	2
Cyclohexane	2.0	U	2.0	0.66	ug/L			12/22/14 13:43	2
Dibromochloromethane	2.0	U	2.0	0.86	ug/L			12/22/14 13:43	2
Dichlorodifluoromethane	2.0	U	2.0	1.0	ug/L			12/22/14 13:43	2
Ethylbenzene	2.0	U	2.0	0.46	ug/L			12/22/14 13:43	2
Isopropylbenzene	2.0	U	2.0	0.70	ug/L			12/22/14 13:43	2
Methyl acetate	20	U	20	4.5	ug/L			12/22/14 13:43	2
Methyl tert-butyl ether	2.0	U	2.0	0.32	ug/L			12/22/14 13:43	2
Methylcyclohexane	2.0	U	2.0	0.46	ug/L			12/22/14 13:43	2
Methylene Chloride	2.0	U	2.0	0.56	ug/L			12/22/14 13:43	2
Styrene	2.0	U	2.0	0.90	ug/L			12/22/14 13:43	2
Tetrachloroethene	2.0	U	2.0	0.40	ug/L			12/22/14 13:43	2
Toluene	2.0	U	2.0	0.44	ug/L			12/22/14 13:43	2
trans-1,2-Dichloroethene	2.0	U	2.0	0.52	ug/L			12/22/14 13:43	2
trans-1,3-Dichloropropene	2.0	U	2.0	1.1	ug/L			12/22/14 13:43	2
Trichloroethene	22		2.0	0.30	ug/L			12/22/14 13:43	2
Trichlorofluoromethane	2.0	U	2.0	0.98	ug/L			12/22/14 13:43	2
Vinyl chloride	2.0	U	2.0	0.58	ug/L			12/22/14 13:43	2
Xylenes, Total	4.0	U	4.0	0.86	ug/L			12/22/14 13:43	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		63 - 129		12/22/14 13:43	2
4-Bromofluorobenzene (Surr)	88		66 - 120		12/22/14 13:43	2
Dibromofluoromethane (Surr)	94		75 - 121		12/22/14 13:43	2
Toluene-d8 (Surr)	93		74 - 120		12/22/14 13:43	2

Client Sample ID: 4009-27I-20141209

Lab Sample ID: 480-72829-29

Date Collected: 12/09/14 09:50

Matrix: Water

Date Received: 12/11/14 05:10

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	0.22	ug/L			12/20/14 14:41	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			12/20/14 14:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.37	ug/L			12/20/14 14:41	1
1,1,2-Trichloroethane	1.0	U	1.0	0.17	ug/L			12/20/14 14:41	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			12/20/14 14:41	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			12/20/14 14:41	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.47	ug/L			12/20/14 14:41	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			12/20/14 14:41	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			12/20/14 14:41	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			12/20/14 14:41	1
1,2-Dibromoethane	1.0	U	1.0	0.19	ug/L			12/20/14 14:41	1
1,2-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 14:41	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			12/20/14 14:41	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			12/20/14 14:41	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			12/20/14 14:41	1
1,3-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 14:41	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			12/20/14 14:41	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-271-20141209

Lab Sample ID: 480-72829-29

Date Collected: 12/09/14 09:50

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	10	U	10	4.1	ug/L			12/20/14 14:41	1
2-Hexanone	10	U	10	3.9	ug/L			12/20/14 14:41	1
4-Methyl-2-pentanone (MIBK)	10	U	10	3.6	ug/L			12/20/14 14:41	1
Acetone	10	U	10	3.4	ug/L			12/20/14 14:41	1
Benzene	1.0	U	1.0	0.24	ug/L			12/20/14 14:41	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			12/20/14 14:41	1
Bromoform	1.0	U	1.0	0.56	ug/L			12/20/14 14:41	1
Bromomethane	1.0	U	1.0	0.63	ug/L			12/20/14 14:41	1
Carbon disulfide	0.86	J	1.0	0.28	ug/L			12/20/14 14:41	1
Carbon tetrachloride	1.0	U	1.0	0.17	ug/L			12/20/14 14:41	1
Chlorobenzene	1.0	U	1.0	0.19	ug/L			12/20/14 14:41	1
Chloroethane	1.0	U	1.0	0.33	ug/L			12/20/14 14:41	1
Chloroform	1.0	U	1.0	0.21	ug/L			12/20/14 14:41	1
Chloromethane	1.0	U	1.0	0.44	ug/L			12/20/14 14:41	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/20/14 14:41	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			12/20/14 14:41	1
Cyclohexane	1.0	U	1.0	0.33	ug/L			12/20/14 14:41	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			12/20/14 14:41	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/20/14 14:41	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			12/20/14 14:41	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			12/20/14 14:41	1
Methyl acetate	10	U	10	2.3	ug/L			12/20/14 14:41	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/20/14 14:41	1
Methylcyclohexane	1.0	U	1.0	0.23	ug/L			12/20/14 14:41	1
Methylene Chloride	1.0	U	1.0	0.28	ug/L			12/20/14 14:41	1
Styrene	1.0	U	1.0	0.45	ug/L			12/20/14 14:41	1
Tetrachloroethene	1.0	U	1.0	0.20	ug/L			12/20/14 14:41	1
Toluene	0.77	J	1.0	0.22	ug/L			12/20/14 14:41	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			12/20/14 14:41	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			12/20/14 14:41	1
Trichloroethene	0.34	J	1.0	0.15	ug/L			12/20/14 14:41	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			12/20/14 14:41	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			12/20/14 14:41	1
Xylenes, Total	2.0	U	2.0	0.43	ug/L			12/20/14 14:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		63 - 129		12/20/14 14:41	1
4-Bromofluorobenzene (Surr)	83		66 - 120		12/20/14 14:41	1
Dibromofluoromethane (Surr)	95		75 - 121		12/20/14 14:41	1
Toluene-d8 (Surr)	92		74 - 120		12/20/14 14:41	1

Client Sample ID: 4009-27D-20141209

Lab Sample ID: 480-72829-30

Date Collected: 12/09/14 09:47

Matrix: Water

Date Received: 12/11/14 05:10

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	0.22	ug/L			12/20/14 15:26	1
1,1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			12/20/14 15:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.37	ug/L			12/20/14 15:26	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-27D-20141209

Lab Sample ID: 480-72829-30

Date Collected: 12/09/14 09:47

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	1.0	U	1.0	0.17	ug/L			12/20/14 15:26	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			12/20/14 15:26	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			12/20/14 15:26	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.47	ug/L			12/20/14 15:26	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			12/20/14 15:26	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			12/20/14 15:26	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			12/20/14 15:26	1
1,2-Dibromoethane	1.0	U	1.0	0.19	ug/L			12/20/14 15:26	1
1,2-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 15:26	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			12/20/14 15:26	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			12/20/14 15:26	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			12/20/14 15:26	1
1,3-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 15:26	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			12/20/14 15:26	1
2-Butanone (MEK)	10	U	10	4.1	ug/L			12/20/14 15:26	1
2-Hexanone	10	U	10	3.9	ug/L			12/20/14 15:26	1
4-Methyl-2-pentanone (MIBK)	10	U	10	3.6	ug/L			12/20/14 15:26	1
Acetone	10	U	10	3.4	ug/L			12/20/14 15:26	1
Benzene	1.0	U	1.0	0.24	ug/L			12/20/14 15:26	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			12/20/14 15:26	1
Bromoform	1.0	U	1.0	0.56	ug/L			12/20/14 15:26	1
Bromomethane	1.0	U	1.0	0.63	ug/L			12/20/14 15:26	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			12/20/14 15:26	1
Carbon tetrachloride	1.0	U	1.0	0.17	ug/L			12/20/14 15:26	1
Chlorobenzene	1.0	U	1.0	0.19	ug/L			12/20/14 15:26	1
Chloroethane	1.0	U	1.0	0.33	ug/L			12/20/14 15:26	1
Chloroform	1.0	U	1.0	0.21	ug/L			12/20/14 15:26	1
Chloromethane	1.0	U	1.0	0.44	ug/L			12/20/14 15:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/20/14 15:26	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			12/20/14 15:26	1
Cyclohexane	1.0	U	1.0	0.33	ug/L			12/20/14 15:26	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			12/20/14 15:26	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/20/14 15:26	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			12/20/14 15:26	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			12/20/14 15:26	1
Methyl acetate	10	U	10	2.3	ug/L			12/20/14 15:26	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/20/14 15:26	1
Methylcyclohexane	1.0	U	1.0	0.23	ug/L			12/20/14 15:26	1
Methylene Chloride	1.0	U	1.0	0.28	ug/L			12/20/14 15:26	1
Styrene	1.0	U	1.0	0.45	ug/L			12/20/14 15:26	1
Tetrachloroethene	1.0	U	1.0	0.20	ug/L			12/20/14 15:26	1
Toluene	1.0	U	1.0	0.22	ug/L			12/20/14 15:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			12/20/14 15:26	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			12/20/14 15:26	1
Trichloroethene	1.0	U	1.0	0.15	ug/L			12/20/14 15:26	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			12/20/14 15:26	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			12/20/14 15:26	1
Xylenes, Total	2.0	U	2.0	0.43	ug/L			12/20/14 15:26	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-27D-20141209

Lab Sample ID: 480-72829-30

Date Collected: 12/09/14 09:47

Matrix: Water

Date Received: 12/11/14 05:10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		63 - 129		12/20/14 15:26	1
4-Bromofluorobenzene (Surr)	83		66 - 120		12/20/14 15:26	1
Dibromofluoromethane (Surr)	96		75 - 121		12/20/14 15:26	1
Toluene-d8 (Surr)	91		74 - 120		12/20/14 15:26	1

Client Sample ID: 4009-28-20141209

Lab Sample ID: 480-72829-31

Date Collected: 12/09/14 07:50

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	3.0		1.0	0.22	ug/L			12/20/14 15:49	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			12/20/14 15:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.37	ug/L			12/20/14 15:49	1
1,1,2-Trichloroethane	1.0	U	1.0	0.17	ug/L			12/20/14 15:49	1
1,1-Dichloroethane	0.28	J	1.0	0.26	ug/L			12/20/14 15:49	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			12/20/14 15:49	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.47	ug/L			12/20/14 15:49	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			12/20/14 15:49	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			12/20/14 15:49	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			12/20/14 15:49	1
1,2-Dibromoethane	1.0	U	1.0	0.19	ug/L			12/20/14 15:49	1
1,2-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 15:49	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			12/20/14 15:49	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			12/20/14 15:49	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			12/20/14 15:49	1
1,3-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 15:49	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			12/20/14 15:49	1
2-Butanone (MEK)	10	U	10	4.1	ug/L			12/20/14 15:49	1
2-Hexanone	10	U	10	3.9	ug/L			12/20/14 15:49	1
4-Methyl-2-pentanone (MIBK)	10	U	10	3.6	ug/L			12/20/14 15:49	1
Acetone	10	U	10	3.4	ug/L			12/20/14 15:49	1
Benzene	1.0	U	1.0	0.24	ug/L			12/20/14 15:49	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			12/20/14 15:49	1
Bromoform	1.0	U	1.0	0.56	ug/L			12/20/14 15:49	1
Bromomethane	1.0	U	1.0	0.63	ug/L			12/20/14 15:49	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			12/20/14 15:49	1
Carbon tetrachloride	1.0	U	1.0	0.17	ug/L			12/20/14 15:49	1
Chlorobenzene	1.0	U	1.0	0.19	ug/L			12/20/14 15:49	1
Chloroethane	1.0	U	1.0	0.33	ug/L			12/20/14 15:49	1
Chloroform	1.0	U	1.0	0.21	ug/L			12/20/14 15:49	1
Chloromethane	1.0	U	1.0	0.44	ug/L			12/20/14 15:49	1
cis-1,2-Dichloroethene	0.25	J	1.0	0.20	ug/L			12/20/14 15:49	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			12/20/14 15:49	1
Cyclohexane	1.0	U	1.0	0.33	ug/L			12/20/14 15:49	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			12/20/14 15:49	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/20/14 15:49	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			12/20/14 15:49	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			12/20/14 15:49	1
Methyl acetate	10	U	10	2.3	ug/L			12/20/14 15:49	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-28-20141209

Lab Sample ID: 480-72829-31

Date Collected: 12/09/14 07:50

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/20/14 15:49	1
Methylcyclohexane	1.0	U	1.0	0.23	ug/L			12/20/14 15:49	1
Methylene Chloride	1.0	U	1.0	0.28	ug/L			12/20/14 15:49	1
Styrene	1.0	U	1.0	0.45	ug/L			12/20/14 15:49	1
Tetrachloroethene	1.0	U	1.0	0.20	ug/L			12/20/14 15:49	1
Toluene	1.0	U	1.0	0.22	ug/L			12/20/14 15:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			12/20/14 15:49	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			12/20/14 15:49	1
Trichloroethene	1.0	U	1.0	0.15	ug/L			12/20/14 15:49	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			12/20/14 15:49	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			12/20/14 15:49	1
Xylenes, Total	2.0	U	2.0	0.43	ug/L			12/20/14 15:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		63 - 129		12/20/14 15:49	1
4-Bromofluorobenzene (Surr)	82		66 - 120		12/20/14 15:49	1
Dibromofluoromethane (Surr)	96		75 - 121		12/20/14 15:49	1
Toluene-d8 (Surr)	90		74 - 120		12/20/14 15:49	1

Client Sample ID: 4009-29S-20141209

Lab Sample ID: 480-72829-32

Date Collected: 12/09/14 09:33

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	480		17	3.7	ug/L			12/20/14 16:12	16.67
1,1,2,2-Tetrachloroethane	17	U	17	3.7	ug/L			12/20/14 16:12	16.67
1,1,2-Trichloro-1,2,2-trifluoroethane	17	U	17	6.2	ug/L			12/20/14 16:12	16.67
1,1,2-Trichloroethane	17	U	17	2.8	ug/L			12/20/14 16:12	16.67
1,1-Dichloroethane	29		17	4.3	ug/L			12/20/14 16:12	16.67
1,1-Dichloroethene	33		17	7.5	ug/L			12/20/14 16:12	16.67
1,2,3-Trimethylbenzene	83	U	83	7.8	ug/L			12/20/14 16:12	16.67
1,2,4-Trichlorobenzene	17	U	17	5.3	ug/L			12/20/14 16:12	16.67
1,2,4-Trimethylbenzene	17	U	17	6.8	ug/L			12/20/14 16:12	16.67
1,2-Dibromo-3-Chloropropane	33	U	33	14	ug/L			12/20/14 16:12	16.67
1,2-Dibromoethane	17	U	17	3.2	ug/L			12/20/14 16:12	16.67
1,2-Dichlorobenzene	17	U	17	2.8	ug/L			12/20/14 16:12	16.67
1,2-Dichloroethane	17	U	17	3.3	ug/L			12/20/14 16:12	16.67
1,2-Dichloropropane	17	U	17	3.7	ug/L			12/20/14 16:12	16.67
1,3,5-Trimethylbenzene	17	U	17	8.0	ug/L			12/20/14 16:12	16.67
1,3-Dichlorobenzene	17	U	17	2.8	ug/L			12/20/14 16:12	16.67
1,4-Dichlorobenzene	17	U	17	2.7	ug/L			12/20/14 16:12	16.67
2-Butanone (MEK)	170	U	170	68	ug/L			12/20/14 16:12	16.67
2-Hexanone	170	U	170	65	ug/L			12/20/14 16:12	16.67
4-Methyl-2-pentanone (MIBK)	170	U	170	60	ug/L			12/20/14 16:12	16.67
Acetone	170	U	170	57	ug/L			12/20/14 16:12	16.67
Benzene	17	U	17	4.0	ug/L			12/20/14 16:12	16.67
Bromodichloromethane	17	U	17	2.5	ug/L			12/20/14 16:12	16.67
Bromoform	17	U	17	9.3	ug/L			12/20/14 16:12	16.67
Bromomethane	17	U	17	11	ug/L			12/20/14 16:12	16.67

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-29S-20141209

Lab Sample ID: 480-72829-32

Date Collected: 12/09/14 09:33

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	17	U	17	4.7	ug/L			12/20/14 16:12	16.67
Carbon tetrachloride	17	U	17	2.8	ug/L			12/20/14 16:12	16.67
Chlorobenzene	17	U	17	3.2	ug/L			12/20/14 16:12	16.67
Chloroethane	17	U	17	5.5	ug/L			12/20/14 16:12	16.67
Chloroform	17	U	17	3.5	ug/L			12/20/14 16:12	16.67
Chloromethane	17	U	17	7.3	ug/L			12/20/14 16:12	16.67
cis-1,2-Dichloroethene	270		17	3.3	ug/L			12/20/14 16:12	16.67
cis-1,3-Dichloropropene	17	U	17	7.7	ug/L			12/20/14 16:12	16.67
Cyclohexane	17	U	17	5.5	ug/L			12/20/14 16:12	16.67
Dibromochloromethane	17	U	17	7.2	ug/L			12/20/14 16:12	16.67
Dichlorodifluoromethane	17	U	17	8.3	ug/L			12/20/14 16:12	16.67
Ethylbenzene	17	U	17	3.8	ug/L			12/20/14 16:12	16.67
Isopropylbenzene	17	U	17	5.8	ug/L			12/20/14 16:12	16.67
Methyl acetate	170	U	170	38	ug/L			12/20/14 16:12	16.67
Methyl tert-butyl ether	17	U	17	2.7	ug/L			12/20/14 16:12	16.67
Methylcyclohexane	17	U	17	3.8	ug/L			12/20/14 16:12	16.67
Methylene Chloride	5.6 J B		17	4.7	ug/L			12/20/14 16:12	16.67
Styrene	17	U	17	7.5	ug/L			12/20/14 16:12	16.67
Tetrachloroethene	17	U	17	3.3	ug/L			12/20/14 16:12	16.67
Toluene	17	U	17	3.7	ug/L			12/20/14 16:12	16.67
trans-1,2-Dichloroethene	17	U	17	4.3	ug/L			12/20/14 16:12	16.67
trans-1,3-Dichloropropene	17	U	17	9.3	ug/L			12/20/14 16:12	16.67
Trichloroethene	3.5 J		17	2.5	ug/L			12/20/14 16:12	16.67
Trichlorofluoromethane	17	U	17	8.2	ug/L			12/20/14 16:12	16.67
Vinyl chloride	16 J		17	4.8	ug/L			12/20/14 16:12	16.67
Xylenes, Total	33	U	33	7.2	ug/L			12/20/14 16:12	16.67

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		63 - 129		12/20/14 16:12	16.67
4-Bromofluorobenzene (Surr)	82		66 - 120		12/20/14 16:12	16.67
Dibromofluoromethane (Surr)	98		75 - 121		12/20/14 16:12	16.67
Toluene-d8 (Surr)	89		74 - 120		12/20/14 16:12	16.67

Client Sample ID: 4009-29I-20141209

Lab Sample ID: 480-72829-33

Date Collected: 12/09/14 09:30

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1100		40	8.8	ug/L			12/20/14 16:35	40
1,1,1,2,2-Tetrachloroethane	40	U	40	8.8	ug/L			12/20/14 16:35	40
1,1,2-Trichloro-1,2,2-trifluoroethane	15 J		40	15	ug/L			12/20/14 16:35	40
1,1,2-Trichloroethane	40	U	40	6.8	ug/L			12/20/14 16:35	40
1,1-Dichloroethane	82		40	10	ug/L			12/20/14 16:35	40
1,1-Dichloroethene	92		40	18	ug/L			12/20/14 16:35	40
1,2,3-Trimethylbenzene	200	U	200	19	ug/L			12/20/14 16:35	40
1,2,4-Trichlorobenzene	40	U	40	13	ug/L			12/20/14 16:35	40
1,2,4-Trimethylbenzene	40	U	40	16	ug/L			12/20/14 16:35	40
1,2-Dibromo-3-Chloropropane	80	U	80	33	ug/L			12/20/14 16:35	40

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-291-20141209

Lab Sample ID: 480-72829-33

Date Collected: 12/09/14 09:30

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	40	U	40	7.6	ug/L			12/20/14 16:35	40
1,2-Dichlorobenzene	40	U	40	6.8	ug/L			12/20/14 16:35	40
1,2-Dichloroethane	40	U	40	8.0	ug/L			12/20/14 16:35	40
1,2-Dichloropropane	40	U	40	8.8	ug/L			12/20/14 16:35	40
1,3,5-Trimethylbenzene	40	U	40	19	ug/L			12/20/14 16:35	40
1,3-Dichlorobenzene	40	U	40	6.8	ug/L			12/20/14 16:35	40
1,4-Dichlorobenzene	40	U	40	6.4	ug/L			12/20/14 16:35	40
2-Butanone (MEK)	400	U	400	160	ug/L			12/20/14 16:35	40
2-Hexanone	400	U	400	160	ug/L			12/20/14 16:35	40
4-Methyl-2-pentanone (MIBK)	400	U	400	140	ug/L			12/20/14 16:35	40
Acetone	400	U	400	140	ug/L			12/20/14 16:35	40
Benzene	40	U	40	9.6	ug/L			12/20/14 16:35	40
Bromodichloromethane	40	U	40	6.0	ug/L			12/20/14 16:35	40
Bromoform	40	U	40	22	ug/L			12/20/14 16:35	40
Bromomethane	40	U	40	25	ug/L			12/20/14 16:35	40
Carbon disulfide	40	U	40	11	ug/L			12/20/14 16:35	40
Carbon tetrachloride	40	U	40	6.8	ug/L			12/20/14 16:35	40
Chlorobenzene	40	U	40	7.6	ug/L			12/20/14 16:35	40
Chloroethane	40	U	40	13	ug/L			12/20/14 16:35	40
Chloroform	40	U	40	8.4	ug/L			12/20/14 16:35	40
Chloromethane	40	U	40	18	ug/L			12/20/14 16:35	40
cis-1,2-Dichloroethene	330		40	8.0	ug/L			12/20/14 16:35	40
cis-1,3-Dichloropropene	40	U	40	18	ug/L			12/20/14 16:35	40
Cyclohexane	40	U	40	13	ug/L			12/20/14 16:35	40
Dibromochloromethane	40	U	40	17	ug/L			12/20/14 16:35	40
Dichlorodifluoromethane	40	U	40	20	ug/L			12/20/14 16:35	40
Ethylbenzene	40	U	40	9.2	ug/L			12/20/14 16:35	40
Isopropylbenzene	40	U	40	14	ug/L			12/20/14 16:35	40
Methyl acetate	400	U	400	91	ug/L			12/20/14 16:35	40
Methyl tert-butyl ether	40	U	40	6.4	ug/L			12/20/14 16:35	40
Methylcyclohexane	40	U	40	9.2	ug/L			12/20/14 16:35	40
Methylene Chloride	14 J B		40	11	ug/L			12/20/14 16:35	40
Styrene	40	U	40	18	ug/L			12/20/14 16:35	40
Tetrachloroethene	40	U	40	8.0	ug/L			12/20/14 16:35	40
Toluene	40	U	40	8.8	ug/L			12/20/14 16:35	40
trans-1,2-Dichloroethene	40	U	40	10	ug/L			12/20/14 16:35	40
trans-1,3-Dichloropropene	40	U	40	22	ug/L			12/20/14 16:35	40
Trichloroethene	360		40	6.0	ug/L			12/20/14 16:35	40
Trichlorofluoromethane	40	U	40	20	ug/L			12/20/14 16:35	40
Vinyl chloride	78		40	12	ug/L			12/20/14 16:35	40
Xylenes, Total	80	U	80	17	ug/L			12/20/14 16:35	40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		63 - 129		12/20/14 16:35	40
4-Bromofluorobenzene (Surr)	81		66 - 120		12/20/14 16:35	40
Dibromofluoromethane (Surr)	96		75 - 121		12/20/14 16:35	40
Toluene-d8 (Surr)	92		74 - 120		12/20/14 16:35	40

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-29D-20141209

Lab Sample ID: 480-72829-34

Date Collected: 12/09/14 09:27

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	170		5.7	1.3	ug/L			12/20/14 16:57	5.71
1,1,2,2-Tetrachloroethane	5.7	U	5.7	1.3	ug/L			12/20/14 16:57	5.71
1,1,2-Trichloro-1,2,2-trifluoroethane	2.9	J	5.7	2.1	ug/L			12/20/14 16:57	5.71
1,1,2-Trichloroethane	5.7	U	5.7	0.97	ug/L			12/20/14 16:57	5.71
1,1-Dichloroethane	27		5.7	1.5	ug/L			12/20/14 16:57	5.71
1,1-Dichloroethene	27		5.7	2.6	ug/L			12/20/14 16:57	5.71
1,2,3-Trimethylbenzene	29	U	29	2.7	ug/L			12/20/14 16:57	5.71
1,2,4-Trichlorobenzene	5.7	U	5.7	1.8	ug/L			12/20/14 16:57	5.71
1,2,4-Trimethylbenzene	5.7	U	5.7	2.3	ug/L			12/20/14 16:57	5.71
1,2-Dibromo-3-Chloropropane	11	U	11	4.7	ug/L			12/20/14 16:57	5.71
1,2-Dibromoethane	5.7	U	5.7	1.1	ug/L			12/20/14 16:57	5.71
1,2-Dichlorobenzene	5.7	U	5.7	0.97	ug/L			12/20/14 16:57	5.71
1,2-Dichloroethane	5.7	U	5.7	1.1	ug/L			12/20/14 16:57	5.71
1,2-Dichloropropane	5.7	U	5.7	1.3	ug/L			12/20/14 16:57	5.71
1,3,5-Trimethylbenzene	5.7	U	5.7	2.7	ug/L			12/20/14 16:57	5.71
1,3-Dichlorobenzene	5.7	U	5.7	0.97	ug/L			12/20/14 16:57	5.71
1,4-Dichlorobenzene	5.7	U	5.7	0.91	ug/L			12/20/14 16:57	5.71
2-Butanone (MEK)	57	U	57	23	ug/L			12/20/14 16:57	5.71
2-Hexanone	57	U	57	22	ug/L			12/20/14 16:57	5.71
4-Methyl-2-pentanone (MIBK)	57	U	57	21	ug/L			12/20/14 16:57	5.71
Acetone	57	U	57	20	ug/L			12/20/14 16:57	5.71
Benzene	5.7	U	5.7	1.4	ug/L			12/20/14 16:57	5.71
Bromodichloromethane	5.7	U	5.7	0.86	ug/L			12/20/14 16:57	5.71
Bromoform	5.7	U	5.7	3.2	ug/L			12/20/14 16:57	5.71
Bromomethane	5.7	U	5.7	3.6	ug/L			12/20/14 16:57	5.71
Carbon disulfide	5.7	U	5.7	1.6	ug/L			12/20/14 16:57	5.71
Carbon tetrachloride	5.7	U	5.7	0.97	ug/L			12/20/14 16:57	5.71
Chlorobenzene	5.7	U	5.7	1.1	ug/L			12/20/14 16:57	5.71
Chloroethane	5.7	U	5.7	1.9	ug/L			12/20/14 16:57	5.71
Chloroform	5.7	U	5.7	1.2	ug/L			12/20/14 16:57	5.71
Chloromethane	5.7	U	5.7	2.5	ug/L			12/20/14 16:57	5.71
cis-1,2-Dichloroethene	150		5.7	1.1	ug/L			12/20/14 16:57	5.71
cis-1,3-Dichloropropene	5.7	U	5.7	2.6	ug/L			12/20/14 16:57	5.71
Cyclohexane	5.7	U	5.7	1.9	ug/L			12/20/14 16:57	5.71
Dibromochloromethane	5.7	U	5.7	2.5	ug/L			12/20/14 16:57	5.71
Dichlorodifluoromethane	5.7	U	5.7	2.9	ug/L			12/20/14 16:57	5.71
Ethylbenzene	5.7	U	5.7	1.3	ug/L			12/20/14 16:57	5.71
Isopropylbenzene	5.7	U	5.7	2.0	ug/L			12/20/14 16:57	5.71
Methyl acetate	57	U	57	13	ug/L			12/20/14 16:57	5.71
Methyl tert-butyl ether	5.7	U	5.7	0.91	ug/L			12/20/14 16:57	5.71
Methylcyclohexane	5.7	U	5.7	1.3	ug/L			12/20/14 16:57	5.71
Methylene Chloride	2.0	J B	5.7	1.6	ug/L			12/20/14 16:57	5.71
Styrene	5.7	U	5.7	2.6	ug/L			12/20/14 16:57	5.71
Tetrachloroethene	5.7	U	5.7	1.1	ug/L			12/20/14 16:57	5.71
Toluene	5.7	U	5.7	1.3	ug/L			12/20/14 16:57	5.71
trans-1,2-Dichloroethene	5.7	U	5.7	1.5	ug/L			12/20/14 16:57	5.71
trans-1,3-Dichloropropene	5.7	U	5.7	3.2	ug/L			12/20/14 16:57	5.71
Trichloroethene	26		5.7	0.86	ug/L			12/20/14 16:57	5.71
Trichlorofluoromethane	5.7	U	5.7	2.8	ug/L			12/20/14 16:57	5.71

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-29D-20141209

Lab Sample ID: 480-72829-34

Date Collected: 12/09/14 09:27

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	34		5.7	1.7	ug/L			12/20/14 16:57	5.71
Xylenes, Total	11	U	11	2.5	ug/L			12/20/14 16:57	5.71
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		63 - 129					12/20/14 16:57	5.71
4-Bromofluorobenzene (Surr)	82		66 - 120					12/20/14 16:57	5.71
Dibromofluoromethane (Surr)	100		75 - 121					12/20/14 16:57	5.71
Toluene-d8 (Surr)	90		74 - 120					12/20/14 16:57	5.71

Client Sample ID: DUP-01-20141209

Lab Sample ID: 480-72829-35

Date Collected: 12/09/14 00:00

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1100		40	8.8	ug/L			12/20/14 17:20	40
1,1,2,2-Tetrachloroethane	40	U	40	8.8	ug/L			12/20/14 17:20	40
1,1,2-Trichloro-1,2,2-trifluoroethane	15	J	40	15	ug/L			12/20/14 17:20	40
1,1,2-Trichloroethane	40	U	40	6.8	ug/L			12/20/14 17:20	40
1,1-Dichloroethane	83		40	10	ug/L			12/20/14 17:20	40
1,1-Dichloroethene	83		40	18	ug/L			12/20/14 17:20	40
1,2,3-Trimethylbenzene	200	U	200	19	ug/L			12/20/14 17:20	40
1,2,4-Trichlorobenzene	40	U	40	13	ug/L			12/20/14 17:20	40
1,2,4-Trimethylbenzene	40	U	40	16	ug/L			12/20/14 17:20	40
1,2-Dibromo-3-Chloropropane	80	U	80	33	ug/L			12/20/14 17:20	40
1,2-Dibromoethane	40	U	40	7.6	ug/L			12/20/14 17:20	40
1,2-Dichlorobenzene	40	U	40	6.8	ug/L			12/20/14 17:20	40
1,2-Dichloroethane	40	U	40	8.0	ug/L			12/20/14 17:20	40
1,2-Dichloropropane	40	U	40	8.8	ug/L			12/20/14 17:20	40
1,3,5-Trimethylbenzene	40	U	40	19	ug/L			12/20/14 17:20	40
1,3-Dichlorobenzene	40	U	40	6.8	ug/L			12/20/14 17:20	40
1,4-Dichlorobenzene	40	U	40	6.4	ug/L			12/20/14 17:20	40
2-Butanone (MEK)	400	U	400	160	ug/L			12/20/14 17:20	40
2-Hexanone	400	U	400	160	ug/L			12/20/14 17:20	40
4-Methyl-2-pentanone (MIBK)	400	U	400	140	ug/L			12/20/14 17:20	40
Acetone	400	U	400	140	ug/L			12/20/14 17:20	40
Benzene	40	U	40	9.6	ug/L			12/20/14 17:20	40
Bromodichloromethane	40	U	40	6.0	ug/L			12/20/14 17:20	40
Bromoform	40	U	40	22	ug/L			12/20/14 17:20	40
Bromomethane	40	U	40	25	ug/L			12/20/14 17:20	40
Carbon disulfide	40	U	40	11	ug/L			12/20/14 17:20	40
Carbon tetrachloride	40	U	40	6.8	ug/L			12/20/14 17:20	40
Chlorobenzene	40	U	40	7.6	ug/L			12/20/14 17:20	40
Chloroethane	40	U	40	13	ug/L			12/20/14 17:20	40
Chloroform	40	U	40	8.4	ug/L			12/20/14 17:20	40
Chloromethane	40	U	40	18	ug/L			12/20/14 17:20	40
cis-1,2-Dichloroethene	330		40	8.0	ug/L			12/20/14 17:20	40
cis-1,3-Dichloropropene	40	U	40	18	ug/L			12/20/14 17:20	40
Cyclohexane	40	U	40	13	ug/L			12/20/14 17:20	40

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: DUP-01-20141209

Lab Sample ID: 480-72829-35

Date Collected: 12/09/14 00:00

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	40	U	40	17	ug/L			12/20/14 17:20	40
Dichlorodifluoromethane	40	U	40	20	ug/L			12/20/14 17:20	40
Ethylbenzene	40	U	40	9.2	ug/L			12/20/14 17:20	40
Isopropylbenzene	40	U	40	14	ug/L			12/20/14 17:20	40
Methyl acetate	400	U	400	91	ug/L			12/20/14 17:20	40
Methyl tert-butyl ether	40	U	40	6.4	ug/L			12/20/14 17:20	40
Methylcyclohexane	40	U	40	9.2	ug/L			12/20/14 17:20	40
Methylene Chloride	15	J B	40	11	ug/L			12/20/14 17:20	40
Styrene	40	U	40	18	ug/L			12/20/14 17:20	40
Tetrachloroethene	40	U	40	8.0	ug/L			12/20/14 17:20	40
Toluene	40	U	40	8.8	ug/L			12/20/14 17:20	40
trans-1,2-Dichloroethene	40	U	40	10	ug/L			12/20/14 17:20	40
trans-1,3-Dichloropropene	40	U	40	22	ug/L			12/20/14 17:20	40
Trichloroethene	360		40	6.0	ug/L			12/20/14 17:20	40
Trichlorofluoromethane	40	U	40	20	ug/L			12/20/14 17:20	40
Vinyl chloride	68		40	12	ug/L			12/20/14 17:20	40
Xylenes, Total	80	U	80	17	ug/L			12/20/14 17:20	40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		63 - 129		12/20/14 17:20	40
4-Bromofluorobenzene (Surr)	81		66 - 120		12/20/14 17:20	40
Dibromofluoromethane (Surr)	99		75 - 121		12/20/14 17:20	40
Toluene-d8 (Surr)	93		74 - 120		12/20/14 17:20	40

Client Sample ID: DUP-02-20141209

Lab Sample ID: 480-72829-36

Date Collected: 12/09/14 00:00

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1800		77	17	ug/L			12/20/14 17:42	76.92
1,1,2,2-Tetrachloroethane	77	U	77	17	ug/L			12/20/14 17:42	76.92
1,1,2-Trichloro-1,2,2-trifluoroethane	77	U	77	28	ug/L			12/20/14 17:42	76.92
1,1,2-Trichloroethane	77	U	77	13	ug/L			12/20/14 17:42	76.92
1,1-Dichloroethane	53	J	77	20	ug/L			12/20/14 17:42	76.92
1,1-Dichloroethene	130		77	35	ug/L			12/20/14 17:42	76.92
1,2,3-Trimethylbenzene	380	U	380	36	ug/L			12/20/14 17:42	76.92
1,2,4-Trichlorobenzene	77	U	77	25	ug/L			12/20/14 17:42	76.92
1,2,4-Trimethylbenzene	77	U	77	32	ug/L			12/20/14 17:42	76.92
1,2-Dibromo-3-Chloropropane	150	U	150	63	ug/L			12/20/14 17:42	76.92
1,2-Dibromoethane	77	U	77	15	ug/L			12/20/14 17:42	76.92
1,2-Dichlorobenzene	77	U	77	13	ug/L			12/20/14 17:42	76.92
1,2-Dichloroethane	77	U	77	15	ug/L			12/20/14 17:42	76.92
1,2-Dichloropropane	77	U	77	17	ug/L			12/20/14 17:42	76.92
1,3,5-Trimethylbenzene	77	U	77	37	ug/L			12/20/14 17:42	76.92
1,3-Dichlorobenzene	77	U	77	13	ug/L			12/20/14 17:42	76.92
1,4-Dichlorobenzene	77	U	77	12	ug/L			12/20/14 17:42	76.92
2-Butanone (MEK)	770	U	770	310	ug/L			12/20/14 17:42	76.92
2-Hexanone	770	U	770	300	ug/L			12/20/14 17:42	76.92
4-Methyl-2-pentanone (MIBK)	770	U	770	280	ug/L			12/20/14 17:42	76.92

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: DUP-02-20141209

Lab Sample ID: 480-72829-36

Date Collected: 12/09/14 00:00

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	770	U	770	260	ug/L			12/20/14 17:42	76.92
Benzene	77	U	77	18	ug/L			12/20/14 17:42	76.92
Bromodichloromethane	77	U	77	12	ug/L			12/20/14 17:42	76.92
Bromoform	77	U	77	43	ug/L			12/20/14 17:42	76.92
Bromomethane	77	U	77	48	ug/L			12/20/14 17:42	76.92
Carbon disulfide	77	U	77	22	ug/L			12/20/14 17:42	76.92
Carbon tetrachloride	77	U	77	13	ug/L			12/20/14 17:42	76.92
Chlorobenzene	77	U	77	15	ug/L			12/20/14 17:42	76.92
Chloroethane	77	U	77	25	ug/L			12/20/14 17:42	76.92
Chloroform	77	U	77	16	ug/L			12/20/14 17:42	76.92
Chloromethane	77	U	77	34	ug/L			12/20/14 17:42	76.92
cis-1,2-Dichloroethene	280		77	15	ug/L			12/20/14 17:42	76.92
cis-1,3-Dichloropropene	77	U	77	35	ug/L			12/20/14 17:42	76.92
Cyclohexane	77	U	77	25	ug/L			12/20/14 17:42	76.92
Dibromochloromethane	77	U	77	33	ug/L			12/20/14 17:42	76.92
Dichlorodifluoromethane	77	U	77	38	ug/L			12/20/14 17:42	76.92
Ethylbenzene	77	U	77	18	ug/L			12/20/14 17:42	76.92
Isopropylbenzene	77	U	77	27	ug/L			12/20/14 17:42	76.92
Methyl acetate	770	U	770	170	ug/L			12/20/14 17:42	76.92
Methyl tert-butyl ether	77	U	77	12	ug/L			12/20/14 17:42	76.92
Methylcyclohexane	77	U	77	18	ug/L			12/20/14 17:42	76.92
Methylene Chloride	26	J B	77	22	ug/L			12/20/14 17:42	76.92
Styrene	77	U	77	35	ug/L			12/20/14 17:42	76.92
Tetrachloroethene	77	U	77	15	ug/L			12/20/14 17:42	76.92
Toluene	77	U	77	17	ug/L			12/20/14 17:42	76.92
trans-1,2-Dichloroethene	77	U	77	20	ug/L			12/20/14 17:42	76.92
trans-1,3-Dichloropropene	77	U	77	43	ug/L			12/20/14 17:42	76.92
Trichloroethene	84		77	12	ug/L			12/20/14 17:42	76.92
Trichlorofluoromethane	77	U	77	38	ug/L			12/20/14 17:42	76.92
Vinyl chloride	32	J	77	22	ug/L			12/20/14 17:42	76.92
Xylenes, Total	150	U	150	33	ug/L			12/20/14 17:42	76.92

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		63 - 129		12/20/14 17:42	76.92
4-Bromofluorobenzene (Surr)	83		66 - 120		12/20/14 17:42	76.92
Dibromofluoromethane (Surr)	96		75 - 121		12/20/14 17:42	76.92
Toluene-d8 (Surr)	90		74 - 120		12/20/14 17:42	76.92

Client Sample ID: WELL 1-2A-20141209

Lab Sample ID: 480-72829-41

Date Collected: 12/09/14 08:53

Matrix: Water

Date Received: 12/11/14 05:10

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	0.22	ug/L			12/20/14 18:05	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			12/20/14 18:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.37	ug/L			12/20/14 18:05	1
1,1,2-Trichloroethane	1.0	U	1.0	0.17	ug/L			12/20/14 18:05	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			12/20/14 18:05	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			12/20/14 18:05	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: WELL 1-2A-20141209

Lab Sample ID: 480-72829-41

Date Collected: 12/09/14 08:53

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trimethylbenzene	5.0	U	5.0	0.47	ug/L			12/20/14 18:05	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			12/20/14 18:05	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			12/20/14 18:05	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			12/20/14 18:05	1
1,2-Dibromoethane	1.0	U	1.0	0.19	ug/L			12/20/14 18:05	1
1,2-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 18:05	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			12/20/14 18:05	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			12/20/14 18:05	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			12/20/14 18:05	1
1,3-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 18:05	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			12/20/14 18:05	1
2-Butanone (MEK)	10	U	10	4.1	ug/L			12/20/14 18:05	1
2-Hexanone	10	U	10	3.9	ug/L			12/20/14 18:05	1
4-Methyl-2-pentanone (MIBK)	10	U	10	3.6	ug/L			12/20/14 18:05	1
Acetone	10	U	10	3.4	ug/L			12/20/14 18:05	1
Benzene	1.0	U	1.0	0.24	ug/L			12/20/14 18:05	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			12/20/14 18:05	1
Bromoform	1.0	U	1.0	0.56	ug/L			12/20/14 18:05	1
Bromomethane	1.0	U	1.0	0.63	ug/L			12/20/14 18:05	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			12/20/14 18:05	1
Carbon tetrachloride	1.0	U	1.0	0.17	ug/L			12/20/14 18:05	1
Chlorobenzene	1.0	U	1.0	0.19	ug/L			12/20/14 18:05	1
Chloroethane	1.0	U	1.0	0.33	ug/L			12/20/14 18:05	1
Chloroform	1.0	U	1.0	0.21	ug/L			12/20/14 18:05	1
Chloromethane	1.0	U	1.0	0.44	ug/L			12/20/14 18:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/20/14 18:05	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			12/20/14 18:05	1
Cyclohexane	1.0	U	1.0	0.33	ug/L			12/20/14 18:05	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			12/20/14 18:05	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/20/14 18:05	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			12/20/14 18:05	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			12/20/14 18:05	1
Methyl acetate	10	U	10	2.3	ug/L			12/20/14 18:05	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/20/14 18:05	1
Methylcyclohexane	1.0	U	1.0	0.23	ug/L			12/20/14 18:05	1
Methylene Chloride	1.0	U	1.0	0.28	ug/L			12/20/14 18:05	1
Styrene	1.0	U	1.0	0.45	ug/L			12/20/14 18:05	1
Tetrachloroethene	1.0	U	1.0	0.20	ug/L			12/20/14 18:05	1
Toluene	1.0	U	1.0	0.22	ug/L			12/20/14 18:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			12/20/14 18:05	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			12/20/14 18:05	1
Trichloroethene	1.0	U	1.0	0.15	ug/L			12/20/14 18:05	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			12/20/14 18:05	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			12/20/14 18:05	1
Xylenes, Total	2.0	U	2.0	0.43	ug/L			12/20/14 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		63 - 129		12/20/14 18:05	1
4-Bromofluorobenzene (Surr)	81		66 - 120		12/20/14 18:05	1
Dibromofluoromethane (Surr)	99		75 - 121		12/20/14 18:05	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: WELL 1-2A-20141209

Lab Sample ID: 480-72829-41

Date Collected: 12/09/14 08:53

Matrix: Water

Date Received: 12/11/14 05:10

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		74 - 120		12/20/14 18:05	1

Client Sample ID: WELL1-3-20141209

Lab Sample ID: 480-72829-42

Date Collected: 12/09/14 08:56

Matrix: Water

Date Received: 12/11/14 05:10

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	0.22	ug/L			12/20/14 18:27	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			12/20/14 18:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.37	ug/L			12/20/14 18:27	1
1,1,2-Trichloroethane	1.0	U	1.0	0.17	ug/L			12/20/14 18:27	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			12/20/14 18:27	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			12/20/14 18:27	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.47	ug/L			12/20/14 18:27	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			12/20/14 18:27	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			12/20/14 18:27	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			12/20/14 18:27	1
1,2-Dibromoethane	1.0	U	1.0	0.19	ug/L			12/20/14 18:27	1
1,2-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 18:27	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			12/20/14 18:27	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			12/20/14 18:27	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			12/20/14 18:27	1
1,3-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 18:27	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			12/20/14 18:27	1
2-Butanone (MEK)	10	U	10	4.1	ug/L			12/20/14 18:27	1
2-Hexanone	10	U	10	3.9	ug/L			12/20/14 18:27	1
4-Methyl-2-pentanone (MIBK)	10	U	10	3.6	ug/L			12/20/14 18:27	1
Acetone	10	U	10	3.4	ug/L			12/20/14 18:27	1
Benzene	1.0	U	1.0	0.24	ug/L			12/20/14 18:27	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			12/20/14 18:27	1
Bromoform	1.0	U	1.0	0.56	ug/L			12/20/14 18:27	1
Bromomethane	1.0	U	1.0	0.63	ug/L			12/20/14 18:27	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			12/20/14 18:27	1
Carbon tetrachloride	1.0	U	1.0	0.17	ug/L			12/20/14 18:27	1
Chlorobenzene	1.0	U	1.0	0.19	ug/L			12/20/14 18:27	1
Chloroethane	1.0	U	1.0	0.33	ug/L			12/20/14 18:27	1
Chloroform	1.0	U	1.0	0.21	ug/L			12/20/14 18:27	1
Chloromethane	1.0	U	1.0	0.44	ug/L			12/20/14 18:27	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/20/14 18:27	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			12/20/14 18:27	1
Cyclohexane	1.0	U	1.0	0.33	ug/L			12/20/14 18:27	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			12/20/14 18:27	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/20/14 18:27	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			12/20/14 18:27	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			12/20/14 18:27	1
Methyl acetate	10	U	10	2.3	ug/L			12/20/14 18:27	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/20/14 18:27	1
Methylcyclohexane	1.0	U	1.0	0.23	ug/L			12/20/14 18:27	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: WELL1-3-20141209

Lab Sample ID: 480-72829-42

Date Collected: 12/09/14 08:56

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	1.0	U	1.0	0.28	ug/L			12/20/14 18:27	1
Styrene	1.0	U	1.0	0.45	ug/L			12/20/14 18:27	1
Tetrachloroethene	1.0	U	1.0	0.20	ug/L			12/20/14 18:27	1
Toluene	1.0	U	1.0	0.22	ug/L			12/20/14 18:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			12/20/14 18:27	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			12/20/14 18:27	1
Trichloroethene	1.0	U	1.0	0.15	ug/L			12/20/14 18:27	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			12/20/14 18:27	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			12/20/14 18:27	1
Xylenes, Total	2.0	U	2.0	0.43	ug/L			12/20/14 18:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		63 - 129		12/20/14 18:27	1
4-Bromofluorobenzene (Surr)	81		66 - 120		12/20/14 18:27	1
Dibromofluoromethane (Surr)	98		75 - 121		12/20/14 18:27	1
Toluene-d8 (Surr)	91		74 - 120		12/20/14 18:27	1

Client Sample ID: FIELD BLANK-20141209

Lab Sample ID: 480-72829-43

Date Collected: 12/09/14 12:40

Matrix: Water

Date Received: 12/11/14 05:10

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	0.22	ug/L			12/20/14 14:58	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			12/20/14 14:58	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.37	ug/L			12/20/14 14:58	1
1,1,2-Trichloroethane	1.0	U	1.0	0.17	ug/L			12/20/14 14:58	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			12/20/14 14:58	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			12/20/14 14:58	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.47	ug/L			12/20/14 14:58	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			12/20/14 14:58	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			12/20/14 14:58	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			12/20/14 14:58	1
1,2-Dibromoethane	1.0	U	1.0	0.19	ug/L			12/20/14 14:58	1
1,2-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 14:58	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			12/20/14 14:58	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			12/20/14 14:58	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			12/20/14 14:58	1
1,3-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 14:58	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			12/20/14 14:58	1
2-Butanone (MEK)	10	U	10	4.1	ug/L			12/20/14 14:58	1
2-Hexanone	10	U	10	3.9	ug/L			12/20/14 14:58	1
4-Methyl-2-pentanone (MIBK)	10	U	10	3.6	ug/L			12/20/14 14:58	1
Acetone	10	U	10	3.4	ug/L			12/20/14 14:58	1
Benzene	1.0	U	1.0	0.24	ug/L			12/20/14 14:58	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			12/20/14 14:58	1
Bromoform	1.0	U	1.0	0.56	ug/L			12/20/14 14:58	1
Bromomethane	1.0	U	1.0	0.63	ug/L			12/20/14 14:58	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			12/20/14 14:58	1
Carbon tetrachloride	1.0	U	1.0	0.17	ug/L			12/20/14 14:58	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: FIELD BLANK-20141209

Lab Sample ID: 480-72829-43

Date Collected: 12/09/14 12:40

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	1.0	U	1.0	0.19	ug/L			12/20/14 14:58	1
Chloroethane	1.0	U	1.0	0.33	ug/L			12/20/14 14:58	1
Chloroform	1.0	U	1.0	0.21	ug/L			12/20/14 14:58	1
Chloromethane	1.0	U	1.0	0.44	ug/L			12/20/14 14:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/20/14 14:58	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			12/20/14 14:58	1
Cyclohexane	1.0	U	1.0	0.33	ug/L			12/20/14 14:58	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			12/20/14 14:58	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/20/14 14:58	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			12/20/14 14:58	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			12/20/14 14:58	1
Methyl acetate	10	U	10	2.3	ug/L			12/20/14 14:58	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/20/14 14:58	1
Methylcyclohexane	1.0	U	1.0	0.23	ug/L			12/20/14 14:58	1
Methylene Chloride	1.0	U	1.0	0.28	ug/L			12/20/14 14:58	1
Styrene	1.0	U	1.0	0.45	ug/L			12/20/14 14:58	1
Tetrachloroethene	1.0	U	1.0	0.20	ug/L			12/20/14 14:58	1
Toluene	1.0	U	1.0	0.22	ug/L			12/20/14 14:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			12/20/14 14:58	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			12/20/14 14:58	1
Trichloroethene	1.0	U	1.0	0.15	ug/L			12/20/14 14:58	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			12/20/14 14:58	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			12/20/14 14:58	1
Xylenes, Total	2.0	U	2.0	0.43	ug/L			12/20/14 14:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		63 - 129		12/20/14 14:58	1
4-Bromofluorobenzene (Surr)	87		66 - 120		12/20/14 14:58	1
Dibromofluoromethane (Surr)	94		75 - 121		12/20/14 14:58	1
Toluene-d8 (Surr)	90		74 - 120		12/20/14 14:58	1

Client Sample ID: TRIP BLANK-01-20141209

Lab Sample ID: 480-72829-44

Date Collected: 12/09/14 00:00

Matrix: Water

Date Received: 12/11/14 05:10

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	0.22	ug/L			12/20/14 15:21	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			12/20/14 15:21	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.37	ug/L			12/20/14 15:21	1
1,1,1,2-Trichloroethane	1.0	U	1.0	0.17	ug/L			12/20/14 15:21	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			12/20/14 15:21	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			12/20/14 15:21	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.47	ug/L			12/20/14 15:21	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			12/20/14 15:21	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			12/20/14 15:21	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			12/20/14 15:21	1
1,2-Dibromoethane	1.0	U	1.0	0.19	ug/L			12/20/14 15:21	1
1,2-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 15:21	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			12/20/14 15:21	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: TRIP BLANK-01-20141209

Lab Sample ID: 480-72829-44

Date Collected: 12/09/14 00:00

Matrix: Water

Date Received: 12/11/14 05:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			12/20/14 15:21	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			12/20/14 15:21	1
1,3-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 15:21	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			12/20/14 15:21	1
2-Butanone (MEK)	10	U	10	4.1	ug/L			12/20/14 15:21	1
2-Hexanone	10	U	10	3.9	ug/L			12/20/14 15:21	1
4-Methyl-2-pentanone (MIBK)	10	U	10	3.6	ug/L			12/20/14 15:21	1
Acetone	10	U	10	3.4	ug/L			12/20/14 15:21	1
Benzene	1.0	U	1.0	0.24	ug/L			12/20/14 15:21	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			12/20/14 15:21	1
Bromoform	1.0	U	1.0	0.56	ug/L			12/20/14 15:21	1
Bromomethane	1.0	U	1.0	0.63	ug/L			12/20/14 15:21	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			12/20/14 15:21	1
Carbon tetrachloride	1.0	U	1.0	0.17	ug/L			12/20/14 15:21	1
Chlorobenzene	1.0	U	1.0	0.19	ug/L			12/20/14 15:21	1
Chloroethane	1.0	U	1.0	0.33	ug/L			12/20/14 15:21	1
Chloroform	1.0	U	1.0	0.21	ug/L			12/20/14 15:21	1
Chloromethane	1.0	U	1.0	0.44	ug/L			12/20/14 15:21	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/20/14 15:21	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			12/20/14 15:21	1
Cyclohexane	1.0	U	1.0	0.33	ug/L			12/20/14 15:21	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			12/20/14 15:21	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/20/14 15:21	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			12/20/14 15:21	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			12/20/14 15:21	1
Methyl acetate	10	U	10	2.3	ug/L			12/20/14 15:21	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/20/14 15:21	1
Methylcyclohexane	1.0	U	1.0	0.23	ug/L			12/20/14 15:21	1
Methylene Chloride	1.0	U	1.0	0.28	ug/L			12/20/14 15:21	1
Styrene	1.0	U	1.0	0.45	ug/L			12/20/14 15:21	1
Tetrachloroethene	1.0	U	1.0	0.20	ug/L			12/20/14 15:21	1
Toluene	1.0	U	1.0	0.22	ug/L			12/20/14 15:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			12/20/14 15:21	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			12/20/14 15:21	1
Trichloroethene	1.0	U	1.0	0.15	ug/L			12/20/14 15:21	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			12/20/14 15:21	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			12/20/14 15:21	1
Xylenes, Total	2.0	U	2.0	0.43	ug/L			12/20/14 15:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		63 - 129					12/20/14 15:21	1
4-Bromofluorobenzene (Surr)	90		66 - 120					12/20/14 15:21	1
Dibromofluoromethane (Surr)	95		75 - 121					12/20/14 15:21	1
Toluene-d8 (Surr)	91		74 - 120					12/20/14 15:21	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: TRIP BLANK-02-20141209

Lab Sample ID: 480-72829-45

Date Collected: 12/09/14 00:00

Matrix: Water

Date Received: 12/11/14 05:10

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	0.22	ug/L			12/20/14 15:43	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			12/20/14 15:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.37	ug/L			12/20/14 15:43	1
1,1,2-Trichloroethane	1.0	U	1.0	0.17	ug/L			12/20/14 15:43	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			12/20/14 15:43	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			12/20/14 15:43	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.47	ug/L			12/20/14 15:43	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			12/20/14 15:43	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			12/20/14 15:43	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			12/20/14 15:43	1
1,2-Dibromoethane	1.0	U	1.0	0.19	ug/L			12/20/14 15:43	1
1,2-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 15:43	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			12/20/14 15:43	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			12/20/14 15:43	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			12/20/14 15:43	1
1,3-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 15:43	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			12/20/14 15:43	1
2-Butanone (MEK)	10	U	10	4.1	ug/L			12/20/14 15:43	1
2-Hexanone	10	U	10	3.9	ug/L			12/20/14 15:43	1
4-Methyl-2-pentanone (MIBK)	10	U	10	3.6	ug/L			12/20/14 15:43	1
Acetone	10	U	10	3.4	ug/L			12/20/14 15:43	1
Benzene	1.0	U	1.0	0.24	ug/L			12/20/14 15:43	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			12/20/14 15:43	1
Bromoform	1.0	U	1.0	0.56	ug/L			12/20/14 15:43	1
Bromomethane	1.0	U	1.0	0.63	ug/L			12/20/14 15:43	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			12/20/14 15:43	1
Carbon tetrachloride	1.0	U	1.0	0.17	ug/L			12/20/14 15:43	1
Chlorobenzene	1.0	U	1.0	0.19	ug/L			12/20/14 15:43	1
Chloroethane	1.0	U	1.0	0.33	ug/L			12/20/14 15:43	1
Chloroform	1.0	U	1.0	0.21	ug/L			12/20/14 15:43	1
Chloromethane	1.0	U	1.0	0.44	ug/L			12/20/14 15:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/20/14 15:43	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			12/20/14 15:43	1
Cyclohexane	1.0	U	1.0	0.33	ug/L			12/20/14 15:43	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			12/20/14 15:43	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/20/14 15:43	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			12/20/14 15:43	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			12/20/14 15:43	1
Methyl acetate	10	U	10	2.3	ug/L			12/20/14 15:43	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/20/14 15:43	1
Methylcyclohexane	1.0	U	1.0	0.23	ug/L			12/20/14 15:43	1
Methylene Chloride	1.0	U	1.0	0.28	ug/L			12/20/14 15:43	1
Styrene	1.0	U	1.0	0.45	ug/L			12/20/14 15:43	1
Tetrachloroethene	1.0	U	1.0	0.20	ug/L			12/20/14 15:43	1
Toluene	1.0	U	1.0	0.22	ug/L			12/20/14 15:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			12/20/14 15:43	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			12/20/14 15:43	1
Trichloroethene	1.0	U	1.0	0.15	ug/L			12/20/14 15:43	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			12/20/14 15:43	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: TRIP BLANK-02-20141209

Lab Sample ID: 480-72829-45

Date Collected: 12/09/14 00:00

Matrix: Water

Date Received: 12/11/14 05:10

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	0.29	ug/L			12/20/14 15:43	1
Xylenes, Total	2.0	U	2.0	0.43	ug/L			12/20/14 15:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		63 - 129					12/20/14 15:43	1
4-Bromofluorobenzene (Surr)	89		66 - 120					12/20/14 15:43	1
Dibromofluoromethane (Surr)	97		75 - 121					12/20/14 15:43	1
Toluene-d8 (Surr)	92		74 - 120					12/20/14 15:43	1

Surrogate Summary

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

TestAmerica Job ID: 480-72829-1

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 (63-129)	BFB (66-120)	DBFM (75-121)	TOL (74-120)
480-72829-1	4009-1-20141209	96	83	87	87
480-72829-2	4009-2-20141209	89	86	84	81
480-72829-2	4009-2-20141209	98	83	87	85
480-72829-3	4009-3-20141209	92	83	84	81
480-72829-3	4009-3-20141209	86	90	93	79
480-72829-3 MS	4009-3-20141209	88	94	83	85
480-72829-3 MSD	4009-3-20141209	87	92	81	83
480-72829-4	4009-4-20141209	94	83	84	82
480-72829-5	4009-5-20141209	96	87	89	85
480-72829-5	4009-5-20141209	78	88	87	77
480-72829-6	4009-6-20141209	98	86	87	86
480-72829-7	4009-7-20141209	92	85	84	83
480-72829-8	4009-8-20141209	82	87	91	78
480-72829-8	4009-8-20141209	87	90	91	80
480-72829-9	4009-9-20141209	98	86	89	88
480-72829-10	4009-10-20141209	91	81	82	82
480-72829-11	4009-11-20141209	91	80	84	84
480-72829-12	4009-11A-20141209	95	85	89	84
480-72829-13	4009-12-20141209	85	91	93	83
480-72829-14	4009-12A-20141209	92	84	86	87
480-72829-14	4009-12A-20141209	95	82	84	85
480-72829-15	4009-13-20141209	92	83	85	84
480-72829-16	4009-13A-20141209	94	82	86	82
480-72829-17	4009-14-20141209	94	82	88	85
480-72829-18	4009-15-20141209	92	79	82	81
480-72829-19	4009-16-20141209	97	81	87	83
480-72829-20	4009-16A-20141209	93	82	83	82
480-72829-21	4009-22-20141209	96	85	89	83
480-72829-22	4009-23S-20141209	92	91	86	85
480-72829-23	4009-23D-20141209	83	87	89	81
480-72829-23	4009-23D-20141209	86	89	92	81
480-72829-24	4009-24-20141209	93	91	97	92
480-72829-25	4009-25S-20141209	86	90	92	80
480-72829-25	4009-25S-20141209	83	90	90	80
480-72829-25 MS	4009-25S-20141209	78	105	85	83
480-72829-25 MSD	4009-25S-20141209	80	111	87	87
480-72829-26	4009-25D-20141209	85	89	90	81
480-72829-26	4009-25D-20141209	87	94	92	81
480-72829-27	4009-26-20141209	82	89	88	81
480-72829-27	4009-26-20141209	82	90	91	79
480-72829-27 MS	4009-26-20141209	78	104	84	80
480-72829-27 MSD	4009-26-20141209	78	106	85	85
480-72829-28	4009-27S-20141209	93	88	94	93
480-72829-29	4009-27I-20141209	92	83	95	92
480-72829-29 MS	4009-27I-20141209	86	98	91	96
480-72829-29 MSD	4009-27I-20141209	89	101	92	96
480-72829-30	4009-27D-20141209	93	83	96	91
480-72829-31	4009-28-20141209	93	82	96	90
480-72829-32	4009-29S-20141209	93	82	98	89

TestAmerica Buffalo

Surrogate Summary

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

TestAmerica Job ID: 480-72829-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (63-129)	BFB (66-120)	DBFM (75-121)	TOL (74-120)
480-72829-33	4009-29I-20141209	92	81	96	92
480-72829-34	4009-29D-20141209	93	82	100	90
480-72829-35	DUP-01-20141209	94	81	99	93
480-72829-36	DUP-02-20141209	95	83	96	90
480-72829-41	WELL 1-2A-20141209	94	81	99	91
480-72829-42	WELL1-3-20141209	94	81	98	91
480-72829-43	FIELD BLANK-20141209	92	87	94	90
480-72829-44	TRIP BLANK-01-20141209	97	90	95	91
480-72829-45	TRIP BLANK-02-20141209	93	89	97	92
LCS 240-161982/4	Lab Control Sample	76	105	82	85
LCS 240-161994/4	Lab Control Sample	90	95	95	96
LCS 240-161995/4	Lab Control Sample	86	100	92	97
LCS 240-162001/4	Lab Control Sample	84	93	85	88
LCS 240-162028/4	Lab Control Sample	82	101	82	82
LCS 240-162132/4	Lab Control Sample	91	91	85	85
LCS 240-162145/4	Lab Control Sample	92	90	96	100
LCSD 240-161995/5	Lab Control Sample Dup	85	96	91	95
MB 240-161982/7	Method Blank	79	85	86	77
MB 240-161994/6	Method Blank	90	88	93	92
MB 240-161995/7	Method Blank	91	84	92	93
MB 240-162001/7	Method Blank	90	83	83	86
MB 240-162028/7	Method Blank	84	91	89	82
MB 240-162132/5	Method Blank	93	83	83	83
MB 240-162145/6	Method Blank	90	89	93	95

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: 480-72829-1

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

Lab Sample ID: MB 240-161982/7

Matrix: Water

Analysis Batch: 161982

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	0.22	ug/L			12/20/14 13:05	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			12/20/14 13:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.37	ug/L			12/20/14 13:05	1
1,1,2-Trichloroethane	1.0	U	1.0	0.17	ug/L			12/20/14 13:05	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			12/20/14 13:05	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			12/20/14 13:05	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.47	ug/L			12/20/14 13:05	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			12/20/14 13:05	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			12/20/14 13:05	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			12/20/14 13:05	1
1,2-Dibromoethane	1.0	U	1.0	0.19	ug/L			12/20/14 13:05	1
1,2-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 13:05	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			12/20/14 13:05	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			12/20/14 13:05	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			12/20/14 13:05	1
1,3-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 13:05	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			12/20/14 13:05	1
2-Butanone (MEK)	10	U	10	4.1	ug/L			12/20/14 13:05	1
2-Hexanone	10	U	10	3.9	ug/L			12/20/14 13:05	1
4-Methyl-2-pentanone (MIBK)	10	U	10	3.6	ug/L			12/20/14 13:05	1
Acetone	10	U	10	3.4	ug/L			12/20/14 13:05	1
Benzene	1.0	U	1.0	0.24	ug/L			12/20/14 13:05	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			12/20/14 13:05	1
Bromoform	1.0	U	1.0	0.56	ug/L			12/20/14 13:05	1
Bromomethane	1.0	U	1.0	0.63	ug/L			12/20/14 13:05	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			12/20/14 13:05	1
Carbon tetrachloride	1.0	U	1.0	0.17	ug/L			12/20/14 13:05	1
Chlorobenzene	1.0	U	1.0	0.19	ug/L			12/20/14 13:05	1
Chloroethane	1.0	U	1.0	0.33	ug/L			12/20/14 13:05	1
Chloroform	1.0	U	1.0	0.21	ug/L			12/20/14 13:05	1
Chloromethane	1.0	U	1.0	0.44	ug/L			12/20/14 13:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/20/14 13:05	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			12/20/14 13:05	1
Cyclohexane	1.0	U	1.0	0.33	ug/L			12/20/14 13:05	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			12/20/14 13:05	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/20/14 13:05	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			12/20/14 13:05	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			12/20/14 13:05	1
Methyl acetate	10	U	10	2.3	ug/L			12/20/14 13:05	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/20/14 13:05	1
Methylcyclohexane	1.0	U	1.0	0.23	ug/L			12/20/14 13:05	1
Methylene Chloride	1.0	U	1.0	0.28	ug/L			12/20/14 13:05	1
Styrene	1.0	U	1.0	0.45	ug/L			12/20/14 13:05	1
Tetrachloroethene	1.0	U	1.0	0.20	ug/L			12/20/14 13:05	1
Toluene	1.0	U	1.0	0.22	ug/L			12/20/14 13:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			12/20/14 13:05	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			12/20/14 13:05	1
Trichloroethene	1.0	U	1.0	0.15	ug/L			12/20/14 13:05	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-72829-1

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

Lab Sample ID: MB 240-161982/7

Matrix: Water

Analysis Batch: 161982

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	0.49	ug/L			12/20/14 13:05	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			12/20/14 13:05	1
Xylenes, Total	2.0	U	2.0	0.43	ug/L			12/20/14 13:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		63 - 129		12/20/14 13:05	1
4-Bromofluorobenzene (Surr)	85		66 - 120		12/20/14 13:05	1
Dibromofluoromethane (Surr)	86		75 - 121		12/20/14 13:05	1
Toluene-d8 (Surr)	77		74 - 120		12/20/14 13:05	1

Lab Sample ID: LCS 240-161982/4

Matrix: Water

Analysis Batch: 161982

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.2		ug/L		102	74 - 151
1,1-Dichloroethane	10.0	10.3		ug/L		103	80 - 120
1,1-Dichloroethene	10.0	8.78		ug/L		88	78 - 131
1,2,4-Trichlorobenzene	10.0	7.80		ug/L		78	48 - 135
1,2,4-Trimethylbenzene	10.0	10.1		ug/L		101	76 - 120
1,2-Dibromo-3-Chloropropane	10.0	8.43		ug/L		84	42 - 136
1,2-Dichlorobenzene	10.0	10.2		ug/L		102	80 - 120
1,2-Dichloroethane	10.0	10.3		ug/L		103	71 - 127
1,3-Dichlorobenzene	10.0	10.6		ug/L		106	80 - 120
1,4-Dichlorobenzene	10.0	10.7		ug/L		107	80 - 120
Benzene	10.0	10.2		ug/L		102	80 - 120
Chlorobenzene	10.0	10.9		ug/L		109	80 - 120
cis-1,2-Dichloroethene	10.0	9.58		ug/L		96	80 - 120
Cyclohexane	10.0	8.77		ug/L		88	54 - 121
Dichlorodifluoromethane	10.0	6.30		ug/L		63	19 - 129
Ethylbenzene	10.0	10.5		ug/L		105	80 - 120
Isopropylbenzene	10.0	10.7		ug/L		107	75 - 120
Methyl acetate	50.0	49.4		ug/L		99	58 - 131
Methyl tert-butyl ether	10.0	9.36		ug/L		94	52 - 144
Methylcyclohexane	10.0	8.35		ug/L		84	56 - 127
Tetrachloroethene	10.0	10.9		ug/L		109	79 - 120
Toluene	10.0	10.3		ug/L		103	80 - 120
trans-1,2-Dichloroethene	10.0	10.2		ug/L		102	80 - 120
Trichloroethene	10.0	10.6		ug/L		106	76 - 120
Trichlorofluoromethane	10.0	9.26		ug/L		93	49 - 157

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	76		63 - 129
4-Bromofluorobenzene (Surr)	105		66 - 120
Dibromofluoromethane (Surr)	82		75 - 121
Toluene-d8 (Surr)	85		74 - 120

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-72829-1

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

Lab Sample ID: 480-72829-25 MS

Matrix: Water

Analysis Batch: 161982

Client Sample ID: 4009-25S-20141209

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloro-1,2,2-trifluoroethane	32	J	500	494		ug/L		92	70 - 152
1,1-Dichloroethane	99		500	582		ug/L		97	79 - 120
1,1-Dichloroethene	280		500	664		ug/L		76	74 - 135
1,2,4-Trichlorobenzene	50	U	500	341		ug/L		68	38 - 138
1,2,4-Trimethylbenzene	50	U	500	471		ug/L		94	67 - 124
1,2-Dibromo-3-Chloropropane	100	U	500	400		ug/L		80	32 - 139
1,2-Dichlorobenzene	50	U	500	477		ug/L		95	75 - 120
1,2-Dichloroethane	50	U	500	497		ug/L		99	68 - 129
1,3-Dichlorobenzene	50	U	500	504		ug/L		101	73 - 120
1,4-Dichlorobenzene	50	U	500	504		ug/L		101	75 - 120
Benzene	50	U	500	485		ug/L		97	72 - 121
Chlorobenzene	50	U	500	513		ug/L		103	80 - 120
cis-1,2-Dichloroethene	260		500	687		ug/L		86	70 - 120
Cyclohexane	50	U	500	405		ug/L		81	49 - 123
Dichlorodifluoromethane	50	U	500	313		ug/L		63	17 - 128
Ethylbenzene	50	U	500	495		ug/L		99	75 - 120
Isopropylbenzene	50	U	500	510		ug/L		102	68 - 120
Methyl acetate	500	U	2500	2490		ug/L		100	47 - 130
Methyl tert-butyl ether	50	U	500	447		ug/L		89	46 - 144
Methylcyclohexane	50	U	500	403		ug/L		81	49 - 127
Tetrachloroethene	50	U	500	512		ug/L		102	70 - 120
Toluene	50	U	500	484		ug/L		97	78 - 120
trans-1,2-Dichloroethene	50	U	500	479		ug/L		96	80 - 120
Trichloroethene	230		500	721		ug/L		99	66 - 120
Trichlorofluoromethane	50	U	500	441		ug/L		88	46 - 157

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	78		63 - 129
4-Bromofluorobenzene (Surr)	105		66 - 120
Dibromofluoromethane (Surr)	85		75 - 121
Toluene-d8 (Surr)	83		74 - 120

Lab Sample ID: 480-72829-25 MSD

Matrix: Water

Analysis Batch: 161982

Client Sample ID: 4009-25S-20141209

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloro-1,2,2-trifluoroethane	32	J	500	571		ug/L		108	70 - 152	15	30
1,1-Dichloroethane	99		500	583		ug/L		97	79 - 120	0	30
1,1-Dichloroethene	280		500	689		ug/L		81	74 - 135	4	30
1,2,4-Trichlorobenzene	50	U	500	345		ug/L		69	38 - 138	1	30
1,2,4-Trimethylbenzene	50	U	500	469		ug/L		94	67 - 124	1	30
1,2-Dibromo-3-Chloropropane	100	U	500	422		ug/L		84	32 - 139	5	30
1,2-Dichlorobenzene	50	U	500	467		ug/L		93	75 - 120	2	30
1,2-Dichloroethane	50	U	500	492		ug/L		98	68 - 129	1	30
1,3-Dichlorobenzene	50	U	500	503		ug/L		101	73 - 120	0	30

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-72829-1

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

Lab Sample ID: 480-72829-25 MSD

Matrix: Water

Analysis Batch: 161982

Client Sample ID: 4009-25S-20141209

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	50	U	500	505		ug/L		101	75 - 120	0	30
Benzene	50	U	500	484		ug/L		97	72 - 121	0	30
Chlorobenzene	50	U	500	514		ug/L		103	80 - 120	0	30
cis-1,2-Dichloroethene	260		500	686		ug/L		86	70 - 120	0	30
Cyclohexane	50	U	500	480		ug/L		96	49 - 123	17	30
Dichlorodifluoromethane	50	U	500	355		ug/L		71	17 - 128	13	30
Ethylbenzene	50	U	500	490		ug/L		98	75 - 120	1	30
Isopropylbenzene	50	U	500	516		ug/L		103	68 - 120	1	30
Methyl acetate	500	U	2500	2550		ug/L		102	47 - 130	2	30
Methyl tert-butyl ether	50	U	500	456		ug/L		91	46 - 144	2	30
Methylcyclohexane	50	U	500	482		ug/L		96	49 - 127	18	30
Tetrachloroethene	50	U	500	553		ug/L		111	70 - 120	8	30
Toluene	50	U	500	486		ug/L		97	78 - 120	1	30
trans-1,2-Dichloroethene	50	U	500	472		ug/L		94	80 - 120	1	30
Trichloroethene	230		500	728		ug/L		100	66 - 120	1	30
Trichlorofluoromethane	50	U	500	518		ug/L		104	46 - 157	16	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	80		63 - 129
4-Bromofluorobenzene (Surr)	111		66 - 120
Dibromofluoromethane (Surr)	87		75 - 121
Toluene-d8 (Surr)	87		74 - 120

Lab Sample ID: MB 240-161994/6

Matrix: Water

Analysis Batch: 161994

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	0.22	ug/L			12/20/14 13:50	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			12/20/14 13:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.37	ug/L			12/20/14 13:50	1
1,1,2-Trichloroethane	1.0	U	1.0	0.17	ug/L			12/20/14 13:50	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			12/20/14 13:50	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			12/20/14 13:50	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.47	ug/L			12/20/14 13:50	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			12/20/14 13:50	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			12/20/14 13:50	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			12/20/14 13:50	1
1,2-Dibromoethane	1.0	U	1.0	0.19	ug/L			12/20/14 13:50	1
1,2-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 13:50	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			12/20/14 13:50	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			12/20/14 13:50	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			12/20/14 13:50	1
1,3-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 13:50	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			12/20/14 13:50	1
2-Butanone (MEK)	10	U	10	4.1	ug/L			12/20/14 13:50	1
2-Hexanone	10	U	10	3.9	ug/L			12/20/14 13:50	1
4-Methyl-2-pentanone (MIBK)	10	U	10	3.6	ug/L			12/20/14 13:50	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-72829-1

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

Lab Sample ID: MB 240-161994/6

Matrix: Water

Analysis Batch: 161994

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	3.4	ug/L			12/20/14 13:50	1
Benzene	1.0	U	1.0	0.24	ug/L			12/20/14 13:50	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			12/20/14 13:50	1
Bromoform	1.0	U	1.0	0.56	ug/L			12/20/14 13:50	1
Bromomethane	1.0	U	1.0	0.63	ug/L			12/20/14 13:50	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			12/20/14 13:50	1
Carbon tetrachloride	1.0	U	1.0	0.17	ug/L			12/20/14 13:50	1
Chlorobenzene	1.0	U	1.0	0.19	ug/L			12/20/14 13:50	1
Chloroethane	1.0	U	1.0	0.33	ug/L			12/20/14 13:50	1
Chloroform	1.0	U	1.0	0.21	ug/L			12/20/14 13:50	1
Chloromethane	1.0	U	1.0	0.44	ug/L			12/20/14 13:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/20/14 13:50	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			12/20/14 13:50	1
Cyclohexane	1.0	U	1.0	0.33	ug/L			12/20/14 13:50	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			12/20/14 13:50	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/20/14 13:50	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			12/20/14 13:50	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			12/20/14 13:50	1
Methyl acetate	10	U	10	2.3	ug/L			12/20/14 13:50	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/20/14 13:50	1
Methylcyclohexane	1.0	U	1.0	0.23	ug/L			12/20/14 13:50	1
Methylene Chloride	1.0	U	1.0	0.28	ug/L			12/20/14 13:50	1
Styrene	1.0	U	1.0	0.45	ug/L			12/20/14 13:50	1
Tetrachloroethene	1.0	U	1.0	0.20	ug/L			12/20/14 13:50	1
Toluene	1.0	U	1.0	0.22	ug/L			12/20/14 13:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			12/20/14 13:50	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			12/20/14 13:50	1
Trichloroethene	1.0	U	1.0	0.15	ug/L			12/20/14 13:50	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			12/20/14 13:50	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			12/20/14 13:50	1
Xylenes, Total	2.0	U	2.0	0.43	ug/L			12/20/14 13:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		63 - 129		12/20/14 13:50	1
4-Bromofluorobenzene (Surr)	88		66 - 120		12/20/14 13:50	1
Dibromofluoromethane (Surr)	93		75 - 121		12/20/14 13:50	1
Toluene-d8 (Surr)	92		74 - 120		12/20/14 13:50	1

Lab Sample ID: LCS 240-161994/4

Matrix: Water

Analysis Batch: 161994

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.0		ug/L		100	74 - 151
1,1-Dichloroethane	10.0	10.1		ug/L		101	80 - 120
1,1-Dichloroethene	10.0	9.30		ug/L		93	78 - 131
1,2,4-Trichlorobenzene	10.0	9.69		ug/L		97	48 - 135

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-72829-1

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

Lab Sample ID: LCS 240-161994/4

Matrix: Water

Analysis Batch: 161994

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	10.0	9.55		ug/L		96	76 - 120
1,2-Dibromo-3-Chloropropane	10.0	9.23		ug/L		92	42 - 136
1,2-Dichlorobenzene	10.0	9.81		ug/L		98	80 - 120
1,2-Dichloroethane	10.0	9.68		ug/L		97	71 - 127
1,3-Dichlorobenzene	10.0	9.64		ug/L		96	80 - 120
1,4-Dichlorobenzene	10.0	9.82		ug/L		98	80 - 120
Benzene	10.0	9.71		ug/L		97	80 - 120
Chlorobenzene	10.0	9.68		ug/L		97	80 - 120
cis-1,2-Dichloroethene	10.0	9.95		ug/L		100	80 - 120
Cyclohexane	10.0	10.3		ug/L		103	54 - 121
Dichlorodifluoromethane	10.0	7.58		ug/L		76	19 - 129
Ethylbenzene	10.0	9.75		ug/L		97	80 - 120
Isopropylbenzene	10.0	9.70		ug/L		97	75 - 120
Methyl acetate	50.0	51.2		ug/L		102	58 - 131
Methyl tert-butyl ether	10.0	9.27		ug/L		93	52 - 144
Methylcyclohexane	10.0	9.69		ug/L		97	56 - 127
Tetrachloroethene	10.0	9.82		ug/L		98	79 - 120
Toluene	10.0	9.83		ug/L		98	80 - 120
trans-1,2-Dichloroethene	10.0	9.85		ug/L		99	80 - 120
Trichloroethene	10.0	9.78		ug/L		98	76 - 120
Trichlorofluoromethane	10.0	10.4		ug/L		104	49 - 157

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		63 - 129
4-Bromofluorobenzene (Surr)	95		66 - 120
Dibromofluoromethane (Surr)	95		75 - 121
Toluene-d8 (Surr)	96		74 - 120

Lab Sample ID: MB 240-161995/7

Matrix: Water

Analysis Batch: 161995

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	0.22	ug/L			12/20/14 14:19	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			12/20/14 14:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.37	ug/L			12/20/14 14:19	1
1,1,2-Trichloroethane	1.0	U	1.0	0.17	ug/L			12/20/14 14:19	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			12/20/14 14:19	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			12/20/14 14:19	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.47	ug/L			12/20/14 14:19	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			12/20/14 14:19	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			12/20/14 14:19	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			12/20/14 14:19	1
1,2-Dibromoethane	1.0	U	1.0	0.19	ug/L			12/20/14 14:19	1
1,2-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 14:19	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			12/20/14 14:19	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			12/20/14 14:19	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			12/20/14 14:19	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-72829-1

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

Lab Sample ID: MB 240-161995/7

Matrix: Water

Analysis Batch: 161995

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 14:19	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			12/20/14 14:19	1
2-Butanone (MEK)	10	U	10	4.1	ug/L			12/20/14 14:19	1
2-Hexanone	10	U	10	3.9	ug/L			12/20/14 14:19	1
4-Methyl-2-pentanone (MIBK)	10	U	10	3.6	ug/L			12/20/14 14:19	1
Acetone	10	U	10	3.4	ug/L			12/20/14 14:19	1
Benzene	1.0	U	1.0	0.24	ug/L			12/20/14 14:19	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			12/20/14 14:19	1
Bromoform	1.0	U	1.0	0.56	ug/L			12/20/14 14:19	1
Bromomethane	1.0	U	1.0	0.63	ug/L			12/20/14 14:19	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			12/20/14 14:19	1
Carbon tetrachloride	1.0	U	1.0	0.17	ug/L			12/20/14 14:19	1
Chlorobenzene	1.0	U	1.0	0.19	ug/L			12/20/14 14:19	1
Chloroethane	1.0	U	1.0	0.33	ug/L			12/20/14 14:19	1
Chloroform	1.0	U	1.0	0.21	ug/L			12/20/14 14:19	1
Chloromethane	1.0	U	1.0	0.44	ug/L			12/20/14 14:19	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/20/14 14:19	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			12/20/14 14:19	1
Cyclohexane	1.0	U	1.0	0.33	ug/L			12/20/14 14:19	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			12/20/14 14:19	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/20/14 14:19	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			12/20/14 14:19	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			12/20/14 14:19	1
Methyl acetate	10	U	10	2.3	ug/L			12/20/14 14:19	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/20/14 14:19	1
Methylcyclohexane	1.0	U	1.0	0.23	ug/L			12/20/14 14:19	1
Methylene Chloride	0.320	J	1.0	0.28	ug/L			12/20/14 14:19	1
Styrene	1.0	U	1.0	0.45	ug/L			12/20/14 14:19	1
Tetrachloroethene	1.0	U	1.0	0.20	ug/L			12/20/14 14:19	1
Toluene	1.0	U	1.0	0.22	ug/L			12/20/14 14:19	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			12/20/14 14:19	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			12/20/14 14:19	1
Trichloroethene	1.0	U	1.0	0.15	ug/L			12/20/14 14:19	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			12/20/14 14:19	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			12/20/14 14:19	1
Xylenes, Total	2.0	U	2.0	0.43	ug/L			12/20/14 14:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		63 - 129		12/20/14 14:19	1
4-Bromofluorobenzene (Surr)	84		66 - 120		12/20/14 14:19	1
Dibromofluoromethane (Surr)	92		75 - 121		12/20/14 14:19	1
Toluene-d8 (Surr)	93		74 - 120		12/20/14 14:19	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-72829-1

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

Lab Sample ID: LCS 240-161995/4

Matrix: Water

Analysis Batch: 161995

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.1		ug/L		101	74 - 151
1,1-Dichloroethane	10.0	9.96		ug/L		100	80 - 120
1,1-Dichloroethene	10.0	9.82		ug/L		98	78 - 131
1,2,4-Trichlorobenzene	10.0	8.86		ug/L		89	48 - 135
1,2,4-Trimethylbenzene	10.0	10.2		ug/L		102	76 - 120
1,2-Dibromo-3-Chloropropane	10.0	9.46		ug/L		95	42 - 136
1,2-Dichlorobenzene	10.0	10.0		ug/L		100	80 - 120
1,2-Dichloroethane	10.0	9.66		ug/L		97	71 - 127
1,3-Dichlorobenzene	10.0	9.64		ug/L		96	80 - 120
1,4-Dichlorobenzene	10.0	9.49		ug/L		95	80 - 120
Benzene	10.0	9.70		ug/L		97	80 - 120
Chlorobenzene	10.0	9.87		ug/L		99	80 - 120
cis-1,2-Dichloroethene	10.0	10.0		ug/L		100	80 - 120
Cyclohexane	10.0	10.1		ug/L		101	54 - 121
Dichlorodifluoromethane	10.0	6.94		ug/L		69	19 - 129
Ethylbenzene	10.0	10.1		ug/L		101	80 - 120
Isopropylbenzene	10.0	10.6		ug/L		106	75 - 120
Methyl acetate	50.0	46.2		ug/L		92	58 - 131
Methyl tert-butyl ether	10.0	9.39		ug/L		94	52 - 144
Methylcyclohexane	10.0	10.1		ug/L		101	56 - 127
Tetrachloroethene	10.0	10.1		ug/L		101	79 - 120
Toluene	10.0	10.4		ug/L		104	80 - 120
trans-1,2-Dichloroethene	10.0	9.97		ug/L		100	80 - 120
Trichloroethene	10.0	10.0		ug/L		100	76 - 120
Trichlorofluoromethane	10.0	10.3		ug/L		103	49 - 157

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	86		63 - 129
4-Bromofluorobenzene (Surr)	100		66 - 120
Dibromofluoromethane (Surr)	92		75 - 121
Toluene-d8 (Surr)	97		74 - 120

Lab Sample ID: LCSD 240-161995/5

Matrix: Water

Analysis Batch: 161995

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.4		ug/L		104	74 - 151	2	30
1,1-Dichloroethane	10.0	10.5		ug/L		105	80 - 120	5	30
1,1-Dichloroethene	10.0	10.2		ug/L		102	78 - 131	4	30
1,2,4-Trichlorobenzene	10.0	9.69		ug/L		97	48 - 135	9	30
1,2,4-Trimethylbenzene	10.0	10.8		ug/L		108	76 - 120	6	30
1,2-Dibromo-3-Chloropropane	10.0	9.31		ug/L		93	42 - 136	2	30
1,2-Dichlorobenzene	10.0	10.5		ug/L		105	80 - 120	5	30
1,2-Dichloroethane	10.0	10.1		ug/L		101	71 - 127	4	30
1,3-Dichlorobenzene	10.0	10.1		ug/L		101	80 - 120	4	30

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-72829-1

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

Lab Sample ID: LCSD 240-161995/5

Matrix: Water

Analysis Batch: 161995

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	10.0	10.0		ug/L		100	80 - 120	6	30
Benzene	10.0	10.1		ug/L		101	80 - 120	4	20
Chlorobenzene	10.0	10.2		ug/L		102	80 - 120	3	30
cis-1,2-Dichloroethene	10.0	10.5		ug/L		105	80 - 120	5	30
Cyclohexane	10.0	10.5		ug/L		105	54 - 121	4	30
Dichlorodifluoromethane	10.0	6.27		ug/L		63	19 - 129	10	30
Ethylbenzene	10.0	10.4		ug/L		104	80 - 120	3	30
Isopropylbenzene	10.0	10.7		ug/L		107	75 - 120	1	30
Methyl acetate	50.0	48.0		ug/L		96	58 - 131	4	30
Methyl tert-butyl ether	10.0	9.79		ug/L		98	52 - 144	4	30
Methylcyclohexane	10.0	10.8		ug/L		108	56 - 127	6	30
Tetrachloroethene	10.0	10.5		ug/L		105	79 - 120	3	30
Toluene	10.0	10.5		ug/L		105	80 - 120	2	30
trans-1,2-Dichloroethene	10.0	10.7		ug/L		107	80 - 120	7	30
Trichloroethene	10.0	10.4		ug/L		104	76 - 120	4	30
Trichlorofluoromethane	10.0	9.83		ug/L		98	49 - 157	5	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	85		63 - 129
4-Bromofluorobenzene (Surr)	96		66 - 120
Dibromofluoromethane (Surr)	91		75 - 121
Toluene-d8 (Surr)	95		74 - 120

Lab Sample ID: 480-72829-29 MS

Matrix: Water

Analysis Batch: 161995

Client Sample ID: 4009-271-20141209

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	10.0	9.94		ug/L		99	70 - 152
1,1-Dichloroethane	1.0	U	10.0	10.2		ug/L		102	79 - 120
1,1-Dichloroethene	1.0	U	10.0	9.60		ug/L		96	74 - 135
1,2,4-Trichlorobenzene	1.0	U	10.0	8.75		ug/L		87	38 - 138
1,2,4-Trimethylbenzene	1.0	U	10.0	9.98		ug/L		100	67 - 124
1,2-Dibromo-3-Chloropropane	2.0	U	10.0	9.57		ug/L		96	32 - 139
1,2-Dichlorobenzene	1.0	U	10.0	9.62		ug/L		96	75 - 120
1,2-Dichloroethane	1.0	U	10.0	9.74		ug/L		97	68 - 129
1,3-Dichlorobenzene	1.0	U	10.0	9.59		ug/L		96	73 - 120
1,4-Dichlorobenzene	1.0	U	10.0	9.30		ug/L		93	75 - 120
Benzene	1.0	U	10.0	9.41		ug/L		94	72 - 121
Chlorobenzene	1.0	U	10.0	9.83		ug/L		98	80 - 120
cis-1,2-Dichloroethene	1.0	U	10.0	9.80		ug/L		98	70 - 120
Cyclohexane	1.0	U	10.0	9.97		ug/L		100	49 - 123
Dichlorodifluoromethane	1.0	U	10.0	6.63		ug/L		66	17 - 128
Ethylbenzene	1.0	U	10.0	9.99		ug/L		100	75 - 120
Isopropylbenzene	1.0	U	10.0	10.0		ug/L		100	68 - 120
Methyl acetate	10	U	50.0	46.3		ug/L		93	47 - 130
Methyl tert-butyl ether	1.0	U	10.0	9.29		ug/L		93	46 - 144

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-72829-1

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

Lab Sample ID: 480-72829-29 MS

Matrix: Water

Analysis Batch: 161995

Client Sample ID: 4009-271-20141209

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylcyclohexane	1.0	U	10.0	10.0		ug/L		100	49 - 127
Tetrachloroethene	1.0	U	10.0	10.1		ug/L		101	70 - 120
Toluene	0.77	J	10.0	10.9		ug/L		101	78 - 120
trans-1,2-Dichloroethene	1.0	U	10.0	10.2		ug/L		102	80 - 120
Trichloroethene	0.34	J	10.0	10.3		ug/L		100	66 - 120
Trichlorofluoromethane	1.0	U	10.0	8.39		ug/L		84	46 - 157

Surrogate	MS %Recovery	MS Qualifier	MS Limits
1,2-Dichloroethane-d4 (Surr)	86		63 - 129
4-Bromofluorobenzene (Surr)	98		66 - 120
Dibromofluoromethane (Surr)	91		75 - 121
Toluene-d8 (Surr)	96		74 - 120

Lab Sample ID: 480-72829-29 MSD

Matrix: Water

Analysis Batch: 161995

Client Sample ID: 4009-271-20141209

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	10.0	9.96		ug/L		100	70 - 152	0	30
1,1-Dichloroethane	1.0	U	10.0	10.4		ug/L		104	79 - 120	1	30
1,1-Dichloroethene	1.0	U	10.0	9.51		ug/L		95	74 - 135	1	30
1,2,4-Trichlorobenzene	1.0	U	10.0	9.07		ug/L		91	38 - 138	4	30
1,2,4-Trimethylbenzene	1.0	U	10.0	9.67		ug/L		97	67 - 124	3	30
1,2-Dibromo-3-Chloropropane	2.0	U	10.0	9.61		ug/L		96	32 - 139	0	30
1,2-Dichlorobenzene	1.0	U	10.0	9.36		ug/L		94	75 - 120	3	30
1,2-Dichloroethane	1.0	U	10.0	9.65		ug/L		96	68 - 129	1	30
1,3-Dichlorobenzene	1.0	U	10.0	9.14		ug/L		91	73 - 120	5	30
1,4-Dichlorobenzene	1.0	U	10.0	9.08		ug/L		91	75 - 120	2	30
Benzene	1.0	U	10.0	9.29		ug/L		93	72 - 121	1	30
Chlorobenzene	1.0	U	10.0	9.71		ug/L		97	80 - 120	1	30
cis-1,2-Dichloroethene	1.0	U	10.0	9.92		ug/L		99	70 - 120	1	30
Cyclohexane	1.0	U	10.0	10.3		ug/L		103	49 - 123	3	30
Dichlorodifluoromethane	1.0	U	10.0	6.29		ug/L		63	17 - 128	5	30
Ethylbenzene	1.0	U	10.0	9.88		ug/L		99	75 - 120	1	30
Isopropylbenzene	1.0	U	10.0	10.0		ug/L		100	68 - 120	0	30
Methyl acetate	10	U	50.0	46.4		ug/L		93	47 - 130	0	30
Methyl tert-butyl ether	1.0	U	10.0	9.41		ug/L		94	46 - 144	1	30
Methylcyclohexane	1.0	U	10.0	10.4		ug/L		104	49 - 127	4	30
Tetrachloroethene	1.0	U	10.0	9.70		ug/L		97	70 - 120	4	30
Toluene	0.77	J	10.0	10.7		ug/L		100	78 - 120	2	30
trans-1,2-Dichloroethene	1.0	U	10.0	9.91		ug/L		99	80 - 120	3	30
Trichloroethene	0.34	J	10.0	9.92		ug/L		96	66 - 120	4	30
Trichlorofluoromethane	1.0	U	10.0	8.79		ug/L		88	46 - 157	5	30

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
1,2-Dichloroethane-d4 (Surr)	89		63 - 129
4-Bromofluorobenzene (Surr)	101		66 - 120

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-72829-1

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

Lab Sample ID: 480-72829-29 MSD

Matrix: Water

Analysis Batch: 161995

Client Sample ID: 4009-271-20141209

Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Dibromofluoromethane (Surr)	92		75 - 121
Toluene-d8 (Surr)	96		74 - 120

Lab Sample ID: MB 240-162001/7

Matrix: Water

Analysis Batch: 162001

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	0.22	ug/L			12/20/14 13:04	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			12/20/14 13:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.37	ug/L			12/20/14 13:04	1
1,1,2-Trichloroethane	1.0	U	1.0	0.17	ug/L			12/20/14 13:04	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			12/20/14 13:04	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			12/20/14 13:04	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.47	ug/L			12/20/14 13:04	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			12/20/14 13:04	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			12/20/14 13:04	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			12/20/14 13:04	1
1,2-Dibromoethane	1.0	U	1.0	0.19	ug/L			12/20/14 13:04	1
1,2-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 13:04	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			12/20/14 13:04	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			12/20/14 13:04	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			12/20/14 13:04	1
1,3-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/20/14 13:04	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			12/20/14 13:04	1
2-Butanone (MEK)	10	U	10	4.1	ug/L			12/20/14 13:04	1
2-Hexanone	10	U	10	3.9	ug/L			12/20/14 13:04	1
4-Methyl-2-pentanone (MIBK)	10	U	10	3.6	ug/L			12/20/14 13:04	1
Acetone	10	U	10	3.4	ug/L			12/20/14 13:04	1
Benzene	1.0	U	1.0	0.24	ug/L			12/20/14 13:04	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			12/20/14 13:04	1
Bromoform	1.0	U	1.0	0.56	ug/L			12/20/14 13:04	1
Bromomethane	1.0	U	1.0	0.63	ug/L			12/20/14 13:04	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			12/20/14 13:04	1
Carbon tetrachloride	1.0	U	1.0	0.17	ug/L			12/20/14 13:04	1
Chlorobenzene	1.0	U	1.0	0.19	ug/L			12/20/14 13:04	1
Chloroethane	1.0	U	1.0	0.33	ug/L			12/20/14 13:04	1
Chloroform	1.0	U	1.0	0.21	ug/L			12/20/14 13:04	1
Chloromethane	1.0	U	1.0	0.44	ug/L			12/20/14 13:04	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/20/14 13:04	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			12/20/14 13:04	1
Cyclohexane	1.0	U	1.0	0.33	ug/L			12/20/14 13:04	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			12/20/14 13:04	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/20/14 13:04	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			12/20/14 13:04	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			12/20/14 13:04	1
Methyl acetate	10	U	10	2.3	ug/L			12/20/14 13:04	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/20/14 13:04	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-72829-1

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

Lab Sample ID: MB 240-162001/7

Matrix: Water

Analysis Batch: 162001

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	1.0	U	1.0	0.23	ug/L			12/20/14 13:04	1
Methylene Chloride	1.0	U	1.0	0.28	ug/L			12/20/14 13:04	1
Styrene	1.0	U	1.0	0.45	ug/L			12/20/14 13:04	1
Tetrachloroethene	1.0	U	1.0	0.20	ug/L			12/20/14 13:04	1
Toluene	1.0	U	1.0	0.22	ug/L			12/20/14 13:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			12/20/14 13:04	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			12/20/14 13:04	1
Trichloroethene	1.0	U	1.0	0.15	ug/L			12/20/14 13:04	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			12/20/14 13:04	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			12/20/14 13:04	1
Xylenes, Total	2.0	U	2.0	0.43	ug/L			12/20/14 13:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		63 - 129		12/20/14 13:04	1
4-Bromofluorobenzene (Surr)	83		66 - 120		12/20/14 13:04	1
Dibromofluoromethane (Surr)	83		75 - 121		12/20/14 13:04	1
Toluene-d8 (Surr)	86		74 - 120		12/20/14 13:04	1

Lab Sample ID: LCS 240-162001/4

Matrix: Water

Analysis Batch: 162001

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	11.4		ug/L		114	74 - 151
1,1-Dichloroethane	10.0	8.82		ug/L		88	80 - 120
1,1-Dichloroethene	10.0	8.68		ug/L		87	78 - 131
1,2,4-Trichlorobenzene	10.0	9.04		ug/L		90	48 - 135
1,2,4-Trimethylbenzene	10.0	10.5		ug/L		105	76 - 120
1,2-Dibromo-3-Chloropropane	10.0	9.75		ug/L		97	42 - 136
1,2-Dichlorobenzene	10.0	10.4		ug/L		104	80 - 120
1,2-Dichloroethane	10.0	11.1		ug/L		111	71 - 127
1,3-Dichlorobenzene	10.0	10.5		ug/L		105	80 - 120
1,4-Dichlorobenzene	10.0	10.7		ug/L		107	80 - 120
Benzene	10.0	8.79		ug/L		88	80 - 120
Chlorobenzene	10.0	10.7		ug/L		107	80 - 120
cis-1,2-Dichloroethene	10.0	8.71		ug/L		87	80 - 120
Cyclohexane	10.0	8.06		ug/L		81	54 - 121
Dichlorodifluoromethane	10.0	7.51		ug/L		75	19 - 129
Ethylbenzene	10.0	10.7		ug/L		107	80 - 120
Isopropylbenzene	10.0	11.1		ug/L		111	75 - 120
Methyl acetate	50.0	39.3		ug/L		79	58 - 131
Methyl tert-butyl ether	10.0	9.38		ug/L		94	52 - 144
Methylcyclohexane	10.0	9.38		ug/L		94	56 - 127
Tetrachloroethene	10.0	12.2	*	ug/L		122	79 - 120
Toluene	10.0	10.3		ug/L		103	80 - 120
trans-1,2-Dichloroethene	10.0	9.05		ug/L		90	80 - 120
Trichloroethene	10.0	10.9		ug/L		109	76 - 120

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-72829-1

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

Lab Sample ID: LCS 240-162001/4

Matrix: Water

Analysis Batch: 162001

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	10.0	10.6		ug/L		106	49 - 157

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	84		63 - 129
4-Bromofluorobenzene (Surr)	93		66 - 120
Dibromofluoromethane (Surr)	85		75 - 121
Toluene-d8 (Surr)	88		74 - 120

Lab Sample ID: 480-72829-3 MS

Matrix: Water

Analysis Batch: 162001

Client Sample ID: 4009-3-20141209

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	10.0	8.33		ug/L		83	70 - 152
1,1-Dichloroethane	4.8		10.0	13.2		ug/L		84	79 - 120
1,1-Dichloroethene	0.87	J	10.0	9.50		ug/L		86	74 - 135
1,2,4-Trichlorobenzene	1.0	U	10.0	6.86		ug/L		69	38 - 138
1,2,4-Trimethylbenzene	1.0	U	10.0	9.01		ug/L		90	67 - 124
1,2-Dibromo-3-Chloropropane	2.0	U	10.0	8.36		ug/L		84	32 - 139
1,2-Dichlorobenzene	1.0	U	10.0	9.06		ug/L		91	75 - 120
1,2-Dichloroethane	1.0	U	10.0	10.7		ug/L		107	68 - 129
1,3-Dichlorobenzene	1.0	U	10.0	9.39		ug/L		94	73 - 120
1,4-Dichlorobenzene	1.0	U	10.0	9.37		ug/L		94	75 - 120
Benzene	1.0	U	10.0	8.55		ug/L		85	72 - 121
Chlorobenzene	1.0	U	10.0	9.80		ug/L		98	80 - 120
cis-1,2-Dichloroethene	54	E	10.0	62.2	E	ug/L		82	70 - 120
Cyclohexane	1.0	U	10.0	5.87		ug/L		59	49 - 123
Dichlorodifluoromethane	1.0	U	10.0	6.24		ug/L		62	17 - 128
Ethylbenzene	1.0	U	10.0	9.51		ug/L		95	75 - 120
Isopropylbenzene	1.0	U	10.0	9.87		ug/L		99	68 - 120
Methyl acetate	10	U	50.0	36.7		ug/L		73	47 - 130
Methyl tert-butyl ether	1.0	U	10.0	9.55		ug/L		95	46 - 144
Methylcyclohexane	1.0	U	10.0	6.11		ug/L		61	49 - 127
Tetrachloroethene	1.0	U *	10.0	10.8		ug/L		108	70 - 120
Toluene	1.0	U	10.0	9.56		ug/L		96	78 - 120
trans-1,2-Dichloroethene	0.45	J	10.0	9.15		ug/L		87	80 - 120
Trichloroethene	11		10.0	20.4		ug/L		91	66 - 120
Trichlorofluoromethane	1.0	U	10.0	9.72		ug/L		97	46 - 157

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	88		63 - 129
4-Bromofluorobenzene (Surr)	94		66 - 120
Dibromofluoromethane (Surr)	83		75 - 121
Toluene-d8 (Surr)	85		74 - 120

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-72829-1

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

Lab Sample ID: 480-72829-3 MSD

Matrix: Water

Analysis Batch: 162001

Client Sample ID: 4009-3-20141209

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	10.0	9.07		ug/L		91	70 - 152	8	30
1,1-Dichloroethane	4.8		10.0	13.2		ug/L		84	79 - 120	1	30
1,1-Dichloroethene	0.87	J	10.0	9.37		ug/L		85	74 - 135	1	30
1,2,4-Trichlorobenzene	1.0	U	10.0	8.47		ug/L		85	38 - 138	21	30
1,2,4-Trimethylbenzene	1.0	U	10.0	9.67		ug/L		97	67 - 124	7	30
1,2-Dibromo-3-Chloropropane	2.0	U	10.0	9.20		ug/L		92	32 - 139	10	30
1,2-Dichlorobenzene	1.0	U	10.0	9.51		ug/L		95	75 - 120	5	30
1,2-Dichloroethane	1.0	U	10.0	10.8		ug/L		108	68 - 129	1	30
1,3-Dichlorobenzene	1.0	U	10.0	9.82		ug/L		98	73 - 120	5	30
1,4-Dichlorobenzene	1.0	U	10.0	10.1		ug/L		101	75 - 120	7	30
Benzene	1.0	U	10.0	8.82		ug/L		88	72 - 121	3	30
Chlorobenzene	1.0	U	10.0	10.1		ug/L		101	80 - 120	3	30
cis-1,2-Dichloroethene	54	E	10.0	63.0	E	ug/L		90	70 - 120	1	30
Cyclohexane	1.0	U	10.0	6.95		ug/L		70	49 - 123	17	30
Dichlorodifluoromethane	1.0	U	10.0	6.44		ug/L		64	17 - 128	3	30
Ethylbenzene	1.0	U	10.0	9.55		ug/L		96	75 - 120	0	30
Isopropylbenzene	1.0	U	10.0	9.97		ug/L		100	68 - 120	1	30
Methyl acetate	10	U	50.0	38.6		ug/L		77	47 - 130	5	30
Methyl tert-butyl ether	1.0	U	10.0	9.32		ug/L		93	46 - 144	2	30
Methylcyclohexane	1.0	U	10.0	7.98		ug/L		80	49 - 127	26	30
Tetrachloroethene	1.0	U *	10.0	11.1		ug/L		111	70 - 120	3	30
Toluene	1.0	U	10.0	9.79		ug/L		98	78 - 120	2	30
trans-1,2-Dichloroethene	0.45	J	10.0	9.22		ug/L		88	80 - 120	1	30
Trichloroethene	11		10.0	21.4		ug/L		101	66 - 120	4	30
Trichlorofluoromethane	1.0	U	10.0	8.02		ug/L		80	46 - 157	19	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	87		63 - 129
4-Bromofluorobenzene (Surr)	92		66 - 120
Dibromofluoromethane (Surr)	81		75 - 121
Toluene-d8 (Surr)	83		74 - 120

Lab Sample ID: MB 240-162028/7

Matrix: Water

Analysis Batch: 162028

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	0.22	ug/L			12/21/14 15:01	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			12/21/14 15:01	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.37	ug/L			12/21/14 15:01	1
1,1,2-Trichloroethane	1.0	U	1.0	0.17	ug/L			12/21/14 15:01	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			12/21/14 15:01	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			12/21/14 15:01	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.47	ug/L			12/21/14 15:01	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			12/21/14 15:01	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			12/21/14 15:01	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			12/21/14 15:01	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-72829-1

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

Lab Sample ID: MB 240-162028/7

Matrix: Water

Analysis Batch: 162028

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	1.0	U	1.0	0.19	ug/L			12/21/14 15:01	1
1,2-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/21/14 15:01	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			12/21/14 15:01	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			12/21/14 15:01	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			12/21/14 15:01	1
1,3-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/21/14 15:01	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			12/21/14 15:01	1
2-Butanone (MEK)	10	U	10	4.1	ug/L			12/21/14 15:01	1
2-Hexanone	10	U	10	3.9	ug/L			12/21/14 15:01	1
4-Methyl-2-pentanone (MIBK)	10	U	10	3.6	ug/L			12/21/14 15:01	1
Acetone	10	U	10	3.4	ug/L			12/21/14 15:01	1
Benzene	1.0	U	1.0	0.24	ug/L			12/21/14 15:01	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			12/21/14 15:01	1
Bromoform	1.0	U	1.0	0.56	ug/L			12/21/14 15:01	1
Bromomethane	1.0	U	1.0	0.63	ug/L			12/21/14 15:01	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			12/21/14 15:01	1
Carbon tetrachloride	1.0	U	1.0	0.17	ug/L			12/21/14 15:01	1
Chlorobenzene	1.0	U	1.0	0.19	ug/L			12/21/14 15:01	1
Chloroethane	1.0	U	1.0	0.33	ug/L			12/21/14 15:01	1
Chloroform	1.0	U	1.0	0.21	ug/L			12/21/14 15:01	1
Chloromethane	1.0	U	1.0	0.44	ug/L			12/21/14 15:01	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/21/14 15:01	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			12/21/14 15:01	1
Cyclohexane	1.0	U	1.0	0.33	ug/L			12/21/14 15:01	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			12/21/14 15:01	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/21/14 15:01	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			12/21/14 15:01	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			12/21/14 15:01	1
Methyl acetate	10	U	10	2.3	ug/L			12/21/14 15:01	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/21/14 15:01	1
Methylcyclohexane	1.0	U	1.0	0.23	ug/L			12/21/14 15:01	1
Methylene Chloride	1.0	U	1.0	0.28	ug/L			12/21/14 15:01	1
Styrene	1.0	U	1.0	0.45	ug/L			12/21/14 15:01	1
Tetrachloroethene	1.0	U	1.0	0.20	ug/L			12/21/14 15:01	1
Toluene	1.0	U	1.0	0.22	ug/L			12/21/14 15:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			12/21/14 15:01	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			12/21/14 15:01	1
Trichloroethene	1.0	U	1.0	0.15	ug/L			12/21/14 15:01	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			12/21/14 15:01	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			12/21/14 15:01	1
Xylenes, Total	2.0	U	2.0	0.43	ug/L			12/21/14 15:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		63 - 129		12/21/14 15:01	1
4-Bromofluorobenzene (Surr)	91		66 - 120		12/21/14 15:01	1
Dibromofluoromethane (Surr)	89		75 - 121		12/21/14 15:01	1
Toluene-d8 (Surr)	82		74 - 120		12/21/14 15:01	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-72829-1

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

Lab Sample ID: LCS 240-162028/4

Matrix: Water

Analysis Batch: 162028

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	9.82		ug/L		98	74 - 151
1,1-Dichloroethane	10.0	10.4		ug/L		104	80 - 120
1,1-Dichloroethene	10.0	9.03		ug/L		90	78 - 131
1,2,4-Trichlorobenzene	10.0	7.87		ug/L		79	48 - 135
1,2,4-Trimethylbenzene	10.0	9.70		ug/L		97	76 - 120
1,2-Dibromo-3-Chloropropane	10.0	9.71		ug/L		97	42 - 136
1,2-Dichlorobenzene	10.0	10.0		ug/L		100	80 - 120
1,2-Dichloroethane	10.0	10.5		ug/L		105	71 - 127
1,3-Dichlorobenzene	10.0	10.3		ug/L		103	80 - 120
1,4-Dichlorobenzene	10.0	10.5		ug/L		105	80 - 120
Benzene	10.0	10.1		ug/L		101	80 - 120
Chlorobenzene	10.0	10.5		ug/L		105	80 - 120
cis-1,2-Dichloroethene	10.0	9.58		ug/L		96	80 - 120
Cyclohexane	10.0	8.73		ug/L		87	54 - 121
Dichlorodifluoromethane	10.0	6.24		ug/L		62	19 - 129
Ethylbenzene	10.0	10.1		ug/L		101	80 - 120
Isopropylbenzene	10.0	10.4		ug/L		104	75 - 120
Methyl acetate	50.0	54.9		ug/L		110	58 - 131
Methyl tert-butyl ether	10.0	9.94		ug/L		99	52 - 144
Methylcyclohexane	10.0	8.30		ug/L		83	56 - 127
Tetrachloroethene	10.0	11.0		ug/L		110	79 - 120
Toluene	10.0	9.87		ug/L		99	80 - 120
trans-1,2-Dichloroethene	10.0	10.0		ug/L		100	80 - 120
Trichloroethene	10.0	10.7		ug/L		107	76 - 120
Trichlorofluoromethane	10.0	9.71		ug/L		97	49 - 157

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	82		63 - 129
4-Bromofluorobenzene (Surr)	101		66 - 120
Dibromofluoromethane (Surr)	82		75 - 121
Toluene-d8 (Surr)	82		74 - 120

Lab Sample ID: 480-72829-27 MS

Matrix: Water

Analysis Batch: 162028

Client Sample ID: 4009-26-20141209

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloro-1,2,2-trifluoroethane	8.0		40.0	34.3	*	ug/L		66	70 - 152
1,1-Dichloroethane	14		40.0	53.3		ug/L		98	79 - 120
1,1-Dichloroethene	7.4		40.0	42.6		ug/L		88	74 - 135
1,2,4-Trimethylbenzene	4.0	U	40.0	32.8		ug/L		82	67 - 124
1,2-Dibromo-3-Chloropropane	8.0	U	40.0	34.5		ug/L		86	32 - 139
1,2-Dichlorobenzene	4.0	U	40.0	34.8		ug/L		87	75 - 120
1,2-Dichloroethane	4.0	U	40.0	40.7		ug/L		102	68 - 129
1,3-Dichlorobenzene	4.0	U	40.0	36.0		ug/L		90	73 - 120
1,4-Dichlorobenzene	4.0	U	40.0	36.3		ug/L		91	75 - 120

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-72829-1

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

Lab Sample ID: 480-72829-27 MS

Matrix: Water

Analysis Batch: 162028

Client Sample ID: 4009-26-20141209

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	4.0	U	40.0	38.7		ug/L		97	72 - 121
Chlorobenzene	4.0	U	40.0	38.3		ug/L		96	80 - 120
cis-1,2-Dichloroethene	85		40.0	120		ug/L		88	70 - 120
Cyclohexane	4.0	U	40.0	25.7		ug/L		64	49 - 123
Dichlorodifluoromethane	2.8	J	40.0	23.6		ug/L		52	17 - 128
Ethylbenzene	4.0	U	40.0	34.6		ug/L		86	75 - 120
Isopropylbenzene	4.0	U	40.0	34.8		ug/L		87	68 - 120
Methyl acetate	40	U	200	212		ug/L		106	47 - 130
Methyl tert-butyl ether	4.0	U	40.0	39.2		ug/L		98	46 - 144
Methylcyclohexane	4.0	U	40.0	22.6		ug/L		57	49 - 127
Tetrachloroethene	0.88	J	40.0	37.0		ug/L		90	70 - 120
Toluene	4.0	U	40.0	35.8		ug/L		89	78 - 120
trans-1,2-Dichloroethene	4.0	U	40.0	36.9		ug/L		92	80 - 120
Trichloroethene	49		40.0	84.9		ug/L		91	66 - 120
Trichlorofluoromethane	4.0	U	40.0	34.6		ug/L		86	46 - 157
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	78		63 - 129						
4-Bromofluorobenzene (Surr)	104		66 - 120						
Dibromofluoromethane (Surr)	84		75 - 121						
Toluene-d8 (Surr)	80		74 - 120						

Lab Sample ID: 480-72829-27 MSD

Matrix: Water

Analysis Batch: 162028

Client Sample ID: 4009-26-20141209

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloro-1,2,2-trifluoroethane	8.0		40.0	47.2	*	ug/L		98	70 - 152	32	30
1,1-Dichloroethane	14		40.0	53.5		ug/L		98	79 - 120	0	30
1,1-Dichloroethene	7.4		40.0	41.1		ug/L		84	74 - 135	3	30
1,2,4-Trimethylbenzene	4.0	U	40.0	33.4		ug/L		83	67 - 124	2	30
1,2-Dibromo-3-Chloropropane	8.0	U	40.0	30.7		ug/L		77	32 - 139	12	30
1,2-Dichlorobenzene	4.0	U	40.0	34.4		ug/L		86	75 - 120	1	30
1,2-Dichloroethane	4.0	U	40.0	40.4		ug/L		101	68 - 129	1	30
1,3-Dichlorobenzene	4.0	U	40.0	35.8		ug/L		90	73 - 120	0	30
1,4-Dichlorobenzene	4.0	U	40.0	36.5		ug/L		91	75 - 120	1	30
Benzene	4.0	U	40.0	39.3		ug/L		98	72 - 121	1	30
Chlorobenzene	4.0	U	40.0	38.3		ug/L		96	80 - 120	0	30
cis-1,2-Dichloroethene	85		40.0	120		ug/L		87	70 - 120	1	30
Cyclohexane	4.0	U	40.0	33.5		ug/L		84	49 - 123	26	30
Dichlorodifluoromethane	2.8	J	40.0	32.2	*	ug/L		74	17 - 128	31	30
Ethylbenzene	4.0	U	40.0	36.0		ug/L		90	75 - 120	4	30
Isopropylbenzene	4.0	U	40.0	35.9		ug/L		90	68 - 120	3	30
Methyl acetate	40	U	200	205		ug/L		103	47 - 130	3	30
Methyl tert-butyl ether	4.0	U	40.0	37.2		ug/L		93	46 - 144	5	30
Methylcyclohexane	4.0	U	40.0	31.3	*	ug/L		78	49 - 127	32	30
Tetrachloroethene	0.88	J	40.0	38.6		ug/L		94	70 - 120	4	30

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-72829-1

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

Lab Sample ID: 480-72829-27 MSD

Matrix: Water

Analysis Batch: 162028

Client Sample ID: 4009-26-20141209

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	4.0	U	40.0	36.2		ug/L		91	78 - 120	1	30
trans-1,2-Dichloroethene	4.0	U	40.0	37.3		ug/L		93	80 - 120	1	30
Trichloroethene	49		40.0	86.9		ug/L		96	66 - 120	2	30
Trichlorofluoromethane	4.0	U	40.0	37.3		ug/L		93	46 - 157	8	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	78		63 - 129
4-Bromofluorobenzene (Surr)	106		66 - 120
Dibromofluoromethane (Surr)	85		75 - 121
Toluene-d8 (Surr)	85		74 - 120

Lab Sample ID: MB 240-162132/5

Matrix: Water

Analysis Batch: 162132

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	0.22	ug/L			12/22/14 11:00	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			12/22/14 11:00	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.37	ug/L			12/22/14 11:00	1
1,1,1,2-Trichloroethane	1.0	U	1.0	0.17	ug/L			12/22/14 11:00	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			12/22/14 11:00	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			12/22/14 11:00	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.47	ug/L			12/22/14 11:00	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			12/22/14 11:00	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			12/22/14 11:00	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			12/22/14 11:00	1
1,2-Dibromoethane	1.0	U	1.0	0.19	ug/L			12/22/14 11:00	1
1,2-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/22/14 11:00	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			12/22/14 11:00	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			12/22/14 11:00	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			12/22/14 11:00	1
1,3-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/22/14 11:00	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			12/22/14 11:00	1
2-Butanone (MEK)	10	U	10	4.1	ug/L			12/22/14 11:00	1
2-Hexanone	10	U	10	3.9	ug/L			12/22/14 11:00	1
4-Methyl-2-pentanone (MIBK)	10	U	10	3.6	ug/L			12/22/14 11:00	1
Acetone	10	U	10	3.4	ug/L			12/22/14 11:00	1
Benzene	1.0	U	1.0	0.24	ug/L			12/22/14 11:00	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			12/22/14 11:00	1
Bromoform	1.0	U	1.0	0.56	ug/L			12/22/14 11:00	1
Bromomethane	1.0	U	1.0	0.63	ug/L			12/22/14 11:00	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			12/22/14 11:00	1
Carbon tetrachloride	1.0	U	1.0	0.17	ug/L			12/22/14 11:00	1
Chlorobenzene	1.0	U	1.0	0.19	ug/L			12/22/14 11:00	1
Chloroethane	1.0	U	1.0	0.33	ug/L			12/22/14 11:00	1
Chloroform	1.0	U	1.0	0.21	ug/L			12/22/14 11:00	1
Chloromethane	1.0	U	1.0	0.44	ug/L			12/22/14 11:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/22/14 11:00	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-72829-1

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

Lab Sample ID: MB 240-162132/5

Matrix: Water

Analysis Batch: 162132

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			12/22/14 11:00	1
Cyclohexane	1.0	U	1.0	0.33	ug/L			12/22/14 11:00	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			12/22/14 11:00	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/22/14 11:00	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			12/22/14 11:00	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			12/22/14 11:00	1
Methyl acetate	10	U	10	2.3	ug/L			12/22/14 11:00	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/22/14 11:00	1
Methylcyclohexane	1.0	U	1.0	0.23	ug/L			12/22/14 11:00	1
Methylene Chloride	1.0	U	1.0	0.28	ug/L			12/22/14 11:00	1
Styrene	1.0	U	1.0	0.45	ug/L			12/22/14 11:00	1
Tetrachloroethene	1.0	U	1.0	0.20	ug/L			12/22/14 11:00	1
Toluene	1.0	U	1.0	0.22	ug/L			12/22/14 11:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			12/22/14 11:00	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			12/22/14 11:00	1
Trichloroethene	1.0	U	1.0	0.15	ug/L			12/22/14 11:00	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			12/22/14 11:00	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			12/22/14 11:00	1
Xylenes, Total	2.0	U	2.0	0.43	ug/L			12/22/14 11:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		63 - 129		12/22/14 11:00	1
4-Bromofluorobenzene (Surr)	83		66 - 120		12/22/14 11:00	1
Dibromofluoromethane (Surr)	83		75 - 121		12/22/14 11:00	1
Toluene-d8 (Surr)	83		74 - 120		12/22/14 11:00	1

Lab Sample ID: LCS 240-162132/4

Matrix: Water

Analysis Batch: 162132

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	9.99		ug/L		100	74 - 151
1,1-Dichloroethane	10.0	8.45		ug/L		85	80 - 120
1,1-Dichloroethene	10.0	8.40		ug/L		84	78 - 131
1,2,4-Trichlorobenzene	10.0	8.99		ug/L		90	48 - 135
1,2,4-Trimethylbenzene	10.0	9.52		ug/L		95	76 - 120
1,2-Dibromo-3-Chloropropane	10.0	9.50		ug/L		95	42 - 136
1,2-Dichlorobenzene	10.0	9.60		ug/L		96	80 - 120
1,2-Dichloroethane	10.0	10.9		ug/L		109	71 - 127
1,3-Dichlorobenzene	10.0	9.87		ug/L		99	80 - 120
1,4-Dichlorobenzene	10.0	10.1		ug/L		101	80 - 120
Benzene	10.0	8.47		ug/L		85	80 - 120
Chlorobenzene	10.0	10.4		ug/L		104	80 - 120
cis-1,2-Dichloroethene	10.0	8.75		ug/L		88	80 - 120
Cyclohexane	10.0	7.45		ug/L		75	54 - 121
Dichlorodifluoromethane	10.0	6.86		ug/L		69	19 - 129
Ethylbenzene	10.0	10.1		ug/L		101	80 - 120

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-72829-1

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

Lab Sample ID: LCS 240-162132/4

Matrix: Water

Analysis Batch: 162132

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	10.0	10.5		ug/L		105	75 - 120
Methyl acetate	50.0	41.3		ug/L		83	58 - 131
Methyl tert-butyl ether	10.0	9.81		ug/L		98	52 - 144
Methylcyclohexane	10.0	8.39		ug/L		84	56 - 127
Tetrachloroethene	10.0	11.6		ug/L		116	79 - 120
Toluene	10.0	9.84		ug/L		98	80 - 120
trans-1,2-Dichloroethene	10.0	8.68		ug/L		87	80 - 120
Trichloroethene	10.0	10.3		ug/L		103	76 - 120
Trichlorofluoromethane	10.0	9.30		ug/L		93	49 - 157

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		63 - 129
4-Bromofluorobenzene (Surr)	91		66 - 120
Dibromofluoromethane (Surr)	85		75 - 121
Toluene-d8 (Surr)	85		74 - 120

Lab Sample ID: MB 240-162145/6

Matrix: Water

Analysis Batch: 162145

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	0.22	ug/L			12/22/14 12:58	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			12/22/14 12:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.37	ug/L			12/22/14 12:58	1
1,1,2-Trichloroethane	1.0	U	1.0	0.17	ug/L			12/22/14 12:58	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			12/22/14 12:58	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			12/22/14 12:58	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.47	ug/L			12/22/14 12:58	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			12/22/14 12:58	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			12/22/14 12:58	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			12/22/14 12:58	1
1,2-Dibromoethane	1.0	U	1.0	0.19	ug/L			12/22/14 12:58	1
1,2-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/22/14 12:58	1
1,2-Dichloroethane	1.0	U	1.0	0.20	ug/L			12/22/14 12:58	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			12/22/14 12:58	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			12/22/14 12:58	1
1,3-Dichlorobenzene	1.0	U	1.0	0.17	ug/L			12/22/14 12:58	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			12/22/14 12:58	1
2-Butanone (MEK)	10	U	10	4.1	ug/L			12/22/14 12:58	1
2-Hexanone	10	U	10	3.9	ug/L			12/22/14 12:58	1
4-Methyl-2-pentanone (MIBK)	10	U	10	3.6	ug/L			12/22/14 12:58	1
Acetone	10	U	10	3.4	ug/L			12/22/14 12:58	1
Benzene	1.0	U	1.0	0.24	ug/L			12/22/14 12:58	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			12/22/14 12:58	1
Bromoform	1.0	U	1.0	0.56	ug/L			12/22/14 12:58	1
Bromomethane	1.0	U	1.0	0.63	ug/L			12/22/14 12:58	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			12/22/14 12:58	1
Carbon tetrachloride	1.0	U	1.0	0.17	ug/L			12/22/14 12:58	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-72829-1

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

Lab Sample ID: MB 240-162145/6

Matrix: Water

Analysis Batch: 162145

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	1.0	U	1.0	0.19	ug/L			12/22/14 12:58	1
Chloroethane	1.0	U	1.0	0.33	ug/L			12/22/14 12:58	1
Chloroform	1.0	U	1.0	0.21	ug/L			12/22/14 12:58	1
Chloromethane	1.0	U	1.0	0.44	ug/L			12/22/14 12:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/22/14 12:58	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			12/22/14 12:58	1
Cyclohexane	1.0	U	1.0	0.33	ug/L			12/22/14 12:58	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			12/22/14 12:58	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/22/14 12:58	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			12/22/14 12:58	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			12/22/14 12:58	1
Methyl acetate	10	U	10	2.3	ug/L			12/22/14 12:58	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/22/14 12:58	1
Methylcyclohexane	1.0	U	1.0	0.23	ug/L			12/22/14 12:58	1
Methylene Chloride	1.0	U	1.0	0.28	ug/L			12/22/14 12:58	1
Styrene	1.0	U	1.0	0.45	ug/L			12/22/14 12:58	1
Tetrachloroethene	1.0	U	1.0	0.20	ug/L			12/22/14 12:58	1
Toluene	1.0	U	1.0	0.22	ug/L			12/22/14 12:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			12/22/14 12:58	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			12/22/14 12:58	1
Trichloroethene	1.0	U	1.0	0.15	ug/L			12/22/14 12:58	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			12/22/14 12:58	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			12/22/14 12:58	1
Xylenes, Total	2.0	U	2.0	0.43	ug/L			12/22/14 12:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		63 - 129		12/22/14 12:58	1
4-Bromofluorobenzene (Surr)	89		66 - 120		12/22/14 12:58	1
Dibromofluoromethane (Surr)	93		75 - 121		12/22/14 12:58	1
Toluene-d8 (Surr)	95		74 - 120		12/22/14 12:58	1

Lab Sample ID: LCS 240-162145/4

Matrix: Water

Analysis Batch: 162145

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	9.93		ug/L		99	74 - 151
1,1-Dichloroethane	10.0	10.8		ug/L		108	80 - 120
1,1-Dichloroethene	10.0	10.0		ug/L		100	78 - 131
1,2,4-Trichlorobenzene	10.0	9.08		ug/L		91	48 - 135
1,2,4-Trimethylbenzene	10.0	9.86		ug/L		99	76 - 120
1,2-Dibromo-3-Chloropropane	10.0	9.57		ug/L		96	42 - 136
1,2-Dichlorobenzene	10.0	9.72		ug/L		97	80 - 120
1,2-Dichloroethane	10.0	10.4		ug/L		104	71 - 127
1,3-Dichlorobenzene	10.0	9.82		ug/L		98	80 - 120
1,4-Dichlorobenzene	10.0	9.92		ug/L		99	80 - 120
Benzene	10.0	10.3		ug/L		103	80 - 120

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-72829-1

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

Lab Sample ID: LCS 240-162145/4

Matrix: Water

Analysis Batch: 162145

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorobenzene	10.0	10.3		ug/L		103	80 - 120
cis-1,2-Dichloroethene	10.0	10.4		ug/L		104	80 - 120
Cyclohexane	10.0	10.6		ug/L		106	54 - 121
Dichlorodifluoromethane	10.0	6.04		ug/L		60	19 - 129
Ethylbenzene	10.0	10.5		ug/L		105	80 - 120
Isopropylbenzene	10.0	10.2		ug/L		102	75 - 120
Methyl acetate	50.0	54.8		ug/L		110	58 - 131
Methyl tert-butyl ether	10.0	9.81		ug/L		98	52 - 144
Methylcyclohexane	10.0	9.83		ug/L		98	56 - 127
Tetrachloroethene	10.0	10.5		ug/L		105	79 - 120
Toluene	10.0	10.8		ug/L		108	80 - 120
trans-1,2-Dichloroethene	10.0	10.6		ug/L		106	80 - 120
Trichloroethene	10.0	10.4		ug/L		104	76 - 120
Trichlorofluoromethane	10.0	9.08		ug/L		91	49 - 157

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		63 - 129
4-Bromofluorobenzene (Surr)	90		66 - 120
Dibromofluoromethane (Surr)	96		75 - 121
Toluene-d8 (Surr)	100		74 - 120

QC Association Summary

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

TestAmerica Job ID: 480-72829-1

GC/MS VOA

Analysis Batch: 161982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-72829-8	4009-8-20141209	Total/NA	Water	8260C	
480-72829-13	4009-12-20141209	Total/NA	Water	8260C	
480-72829-23	4009-23D-20141209	Total/NA	Water	8260C	
480-72829-25	4009-25S-20141209	Total/NA	Water	8260C	
480-72829-25 MS	4009-25S-20141209	Total/NA	Water	8260C	
480-72829-25 MSD	4009-25S-20141209	Total/NA	Water	8260C	
480-72829-26	4009-25D-20141209	Total/NA	Water	8260C	
480-72829-27	4009-26-20141209	Total/NA	Water	8260C	
LCS 240-161982/4	Lab Control Sample	Total/NA	Water	8260C	
MB 240-161982/7	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 161994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-72829-24	4009-24-20141209	Total/NA	Water	8260C	
480-72829-43	FIELD BLANK-20141209	Total/NA	Water	8260C	
480-72829-44	TRIP BLANK-01-20141209	Total/NA	Water	8260C	
480-72829-45	TRIP BLANK-02-20141209	Total/NA	Water	8260C	
LCS 240-161994/4	Lab Control Sample	Total/NA	Water	8260C	
MB 240-161994/6	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 161995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-72829-29	4009-27I-20141209	Total/NA	Water	8260C	
480-72829-29 MS	4009-27I-20141209	Total/NA	Water	8260C	
480-72829-29 MSD	4009-27I-20141209	Total/NA	Water	8260C	
480-72829-30	4009-27D-20141209	Total/NA	Water	8260C	
480-72829-31	4009-28-20141209	Total/NA	Water	8260C	
480-72829-32	4009-29S-20141209	Total/NA	Water	8260C	
480-72829-33	4009-29I-20141209	Total/NA	Water	8260C	
480-72829-34	4009-29D-20141209	Total/NA	Water	8260C	
480-72829-35	DUP-01-20141209	Total/NA	Water	8260C	
480-72829-36	DUP-02-20141209	Total/NA	Water	8260C	
480-72829-41	WELL 1-2A-20141209	Total/NA	Water	8260C	
480-72829-42	WELL1-3-20141209	Total/NA	Water	8260C	
LCS 240-161995/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 240-161995/5	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 240-161995/7	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 162001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-72829-1	4009-1-20141209	Total/NA	Water	8260C	
480-72829-2	4009-2-20141209	Total/NA	Water	8260C	
480-72829-3	4009-3-20141209	Total/NA	Water	8260C	
480-72829-3 MS	4009-3-20141209	Total/NA	Water	8260C	
480-72829-3 MSD	4009-3-20141209	Total/NA	Water	8260C	
480-72829-4	4009-4-20141209	Total/NA	Water	8260C	
480-72829-5	4009-5-20141209	Total/NA	Water	8260C	
480-72829-6	4009-6-20141209	Total/NA	Water	8260C	
480-72829-7	4009-7-20141209	Total/NA	Water	8260C	
480-72829-9	4009-9-20141209	Total/NA	Water	8260C	
480-72829-10	4009-10-20141209	Total/NA	Water	8260C	

TestAmerica Buffalo

QC Association Summary

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

TestAmerica Job ID: 480-72829-1

GC/MS VOA (Continued)

Analysis Batch: 162001 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-72829-11	4009-11-20141209	Total/NA	Water	8260C	
480-72829-12	4009-11A-20141209	Total/NA	Water	8260C	
480-72829-14	4009-12A-20141209	Total/NA	Water	8260C	
480-72829-15	4009-13-20141209	Total/NA	Water	8260C	
480-72829-16	4009-13A-20141209	Total/NA	Water	8260C	
480-72829-17	4009-14-20141209	Total/NA	Water	8260C	
480-72829-18	4009-15-20141209	Total/NA	Water	8260C	
480-72829-19	4009-16-20141209	Total/NA	Water	8260C	
480-72829-20	4009-16A-20141209	Total/NA	Water	8260C	
480-72829-21	4009-22-20141209	Total/NA	Water	8260C	
480-72829-22	4009-23S-20141209	Total/NA	Water	8260C	
LCS 240-162001/4	Lab Control Sample	Total/NA	Water	8260C	
MB 240-162001/7	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 162028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-72829-3	4009-3-20141209	Total/NA	Water	8260C	
480-72829-5	4009-5-20141209	Total/NA	Water	8260C	
480-72829-8	4009-8-20141209	Total/NA	Water	8260C	
480-72829-23	4009-23D-20141209	Total/NA	Water	8260C	
480-72829-25	4009-25S-20141209	Total/NA	Water	8260C	
480-72829-26	4009-25D-20141209	Total/NA	Water	8260C	
480-72829-27	4009-26-20141209	Total/NA	Water	8260C	
480-72829-27 MS	4009-26-20141209	Total/NA	Water	8260C	
480-72829-27 MSD	4009-26-20141209	Total/NA	Water	8260C	
LCS 240-162028/4	Lab Control Sample	Total/NA	Water	8260C	
MB 240-162028/7	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 162132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-72829-2	4009-2-20141209	Total/NA	Water	8260C	
480-72829-14	4009-12A-20141209	Total/NA	Water	8260C	
LCS 240-162132/4	Lab Control Sample	Total/NA	Water	8260C	
MB 240-162132/5	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 162145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-72829-28	4009-27S-20141209	Total/NA	Water	8260C	
LCS 240-162145/4	Lab Control Sample	Total/NA	Water	8260C	
MB 240-162145/6	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-1-20141209

Lab Sample ID: 480-72829-1

Date Collected: 12/09/14 11:10

Matrix: Water

Date Received: 12/11/14 05:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	162001	12/20/14 13:27	LEE	TAL CAN

Client Sample ID: 4009-2-20141209

Lab Sample ID: 480-72829-2

Date Collected: 12/09/14 11:23

Matrix: Water

Date Received: 12/11/14 05:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	162001	12/20/14 13:49	LEE	TAL CAN
Total/NA	Analysis	8260C		1	162132	12/22/14 11:22	LEE	TAL CAN

Client Sample ID: 4009-3-20141209

Lab Sample ID: 480-72829-3

Date Collected: 12/09/14 11:38

Matrix: Water

Date Received: 12/11/14 05:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	162028	12/21/14 18:02	LEE	TAL CAN
Total/NA	Analysis	8260C		1	162001	12/20/14 14:11	LEE	TAL CAN

Client Sample ID: 4009-4-20141209

Lab Sample ID: 480-72829-4

Date Collected: 12/09/14 12:10

Matrix: Water

Date Received: 12/11/14 05:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	162001	12/20/14 14:34	LEE	TAL CAN

Client Sample ID: 4009-5-20141209

Lab Sample ID: 480-72829-5

Date Collected: 12/09/14 11:52

Matrix: Water

Date Received: 12/11/14 05:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		6.67	162028	12/21/14 18:24	LEE	TAL CAN
Total/NA	Analysis	8260C		2.5	162001	12/20/14 14:56	LEE	TAL CAN

Client Sample ID: 4009-6-20141209

Lab Sample ID: 480-72829-6

Date Collected: 12/09/14 11:15

Matrix: Water

Date Received: 12/11/14 05:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	162001	12/20/14 15:19	LEE	TAL CAN

TestAmerica Buffalo

Lab Chronicle

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-7-20141209

Lab Sample ID: 480-72829-7

Date Collected: 12/09/14 12:20

Matrix: Water

Date Received: 12/11/14 05:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		3.33	162001	12/20/14 15:41	LEE	TAL CAN

Client Sample ID: 4009-8-20141209

Lab Sample ID: 480-72829-8

Date Collected: 12/09/14 10:58

Matrix: Water

Date Received: 12/11/14 05:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		25	161982	12/20/14 13:57	LEE	TAL CAN
Total/NA	Analysis	8260C		50	162028	12/21/14 16:09	LEE	TAL CAN

Client Sample ID: 4009-9-20141209

Lab Sample ID: 480-72829-9

Date Collected: 12/09/14 10:17

Matrix: Water

Date Received: 12/11/14 05:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	162001	12/20/14 16:03	LEE	TAL CAN

Client Sample ID: 4009-10-20141209

Lab Sample ID: 480-72829-10

Date Collected: 12/09/14 10:23

Matrix: Water

Date Received: 12/11/14 05:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	162001	12/20/14 16:26	LEE	TAL CAN

Client Sample ID: 4009-11-20141209

Lab Sample ID: 480-72829-11

Date Collected: 12/09/14 10:31

Matrix: Water

Date Received: 12/11/14 05:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	162001	12/20/14 16:48	LEE	TAL CAN

Client Sample ID: 4009-11A-20141209

Lab Sample ID: 480-72829-12

Date Collected: 12/09/14 10:35

Matrix: Water

Date Received: 12/11/14 05:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	162001	12/20/14 17:11	LEE	TAL CAN

TestAmerica Buffalo

Lab Chronicle

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-12-20141209

Lab Sample ID: 480-72829-13

Date Collected: 12/09/14 09:07

Matrix: Water

Date Received: 12/11/14 05:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		22.22	161982	12/20/14 14:19	LEE	TAL CAN

Client Sample ID: 4009-12A-20141209

Lab Sample ID: 480-72829-14

Date Collected: 12/09/14 09:10

Matrix: Water

Date Received: 12/11/14 05:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	162001	12/20/14 17:33	LEE	TAL CAN
Total/NA	Analysis	8260C		1	162132	12/22/14 11:45	LEE	TAL CAN

Client Sample ID: 4009-13-20141209

Lab Sample ID: 480-72829-15

Date Collected: 12/09/14 10:01

Matrix: Water

Date Received: 12/11/14 05:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	162001	12/20/14 17:56	LEE	TAL CAN

Client Sample ID: 4009-13A-20141209

Lab Sample ID: 480-72829-16

Date Collected: 12/09/14 09:58

Matrix: Water

Date Received: 12/11/14 05:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	162001	12/20/14 18:18	LEE	TAL CAN

Client Sample ID: 4009-14-20141209

Lab Sample ID: 480-72829-17

Date Collected: 12/09/14 08:08

Matrix: Water

Date Received: 12/11/14 05:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	162001	12/20/14 18:41	LEE	TAL CAN

Client Sample ID: 4009-15-20141209

Lab Sample ID: 480-72829-18

Date Collected: 12/09/14 08:36

Matrix: Water

Date Received: 12/11/14 05:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	162001	12/20/14 19:03	LEE	TAL CAN

TestAmerica Buffalo

Lab Chronicle

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-16-20141209

Lab Sample ID: 480-72829-19

Date Collected: 12/09/14 08:25

Matrix: Water

Date Received: 12/11/14 05:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	162001	12/20/14 19:26	LEE	TAL CAN

Client Sample ID: 4009-16A-20141209

Lab Sample ID: 480-72829-20

Date Collected: 12/09/14 08:22

Matrix: Water

Date Received: 12/11/14 05:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	162001	12/20/14 19:48	LEE	TAL CAN

Client Sample ID: 4009-22-20141209

Lab Sample ID: 480-72829-21

Date Collected: 12/09/14 07:57

Matrix: Water

Date Received: 12/11/14 05:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	162001	12/20/14 20:10	LEE	TAL CAN

Client Sample ID: 4009-23S-20141209

Lab Sample ID: 480-72829-22

Date Collected: 12/09/14 12:14

Matrix: Water

Date Received: 12/11/14 05:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	162001	12/20/14 20:33	LEE	TAL CAN

Client Sample ID: 4009-23D-20141209

Lab Sample ID: 480-72829-23

Date Collected: 12/09/14 12:17

Matrix: Water

Date Received: 12/11/14 05:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		6.67	161982	12/20/14 14:42	LEE	TAL CAN
Total/NA	Analysis	8260C		25	162028	12/21/14 16:31	LEE	TAL CAN

Client Sample ID: 4009-24-20141209

Lab Sample ID: 480-72829-24

Date Collected: 12/09/14 11:45

Matrix: Water

Date Received: 12/11/14 05:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	161994	12/20/14 14:35	RJQ	TAL CAN

TestAmerica Buffalo

Lab Chronicle

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-25S-20141209

Lab Sample ID: 480-72829-25

Date Collected: 12/09/14 11:28

Matrix: Water

Date Received: 12/11/14 05:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		50	161982	12/20/14 15:04	LEE	TAL CAN
Total/NA	Analysis	8260C		166.67	162028	12/21/14 16:54	LEE	TAL CAN

Client Sample ID: 4009-25D-20141209

Lab Sample ID: 480-72829-26

Date Collected: 12/09/14 11:32

Matrix: Water

Date Received: 12/11/14 05:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		33.33	161982	12/20/14 15:27	LEE	TAL CAN
Total/NA	Analysis	8260C		83.33	162028	12/21/14 17:16	LEE	TAL CAN

Client Sample ID: 4009-26-20141209

Lab Sample ID: 480-72829-27

Date Collected: 12/09/14 11:02

Matrix: Water

Date Received: 12/11/14 05:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	161982	12/20/14 15:49	LEE	TAL CAN
Total/NA	Analysis	8260C		4	162028	12/21/14 17:39	LEE	TAL CAN

Client Sample ID: 4009-27S-20141209

Lab Sample ID: 480-72829-28

Date Collected: 12/09/14 09:53

Matrix: Water

Date Received: 12/11/14 05:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	162145	12/22/14 13:43	RJQ	TAL CAN

Client Sample ID: 4009-27I-20141209

Lab Sample ID: 480-72829-29

Date Collected: 12/09/14 09:50

Matrix: Water

Date Received: 12/11/14 05:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	161995	12/20/14 14:41	RJQ	TAL CAN

Client Sample ID: 4009-27D-20141209

Lab Sample ID: 480-72829-30

Date Collected: 12/09/14 09:47

Matrix: Water

Date Received: 12/11/14 05:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	161995	12/20/14 15:26	RJQ	TAL CAN

TestAmerica Buffalo

Lab Chronicle

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: 4009-28-20141209

Lab Sample ID: 480-72829-31

Date Collected: 12/09/14 07:50

Matrix: Water

Date Received: 12/11/14 05:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	161995	12/20/14 15:49	RJQ	TAL CAN

Client Sample ID: 4009-29S-20141209

Lab Sample ID: 480-72829-32

Date Collected: 12/09/14 09:33

Matrix: Water

Date Received: 12/11/14 05:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		16.67	161995	12/20/14 16:12	RJQ	TAL CAN

Client Sample ID: 4009-29I-20141209

Lab Sample ID: 480-72829-33

Date Collected: 12/09/14 09:30

Matrix: Water

Date Received: 12/11/14 05:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		40	161995	12/20/14 16:35	RJQ	TAL CAN

Client Sample ID: 4009-29D-20141209

Lab Sample ID: 480-72829-34

Date Collected: 12/09/14 09:27

Matrix: Water

Date Received: 12/11/14 05:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5.71	161995	12/20/14 16:57	RJQ	TAL CAN

Client Sample ID: DUP-01-20141209

Lab Sample ID: 480-72829-35

Date Collected: 12/09/14 00:00

Matrix: Water

Date Received: 12/11/14 05:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		40	161995	12/20/14 17:20	RJQ	TAL CAN

Client Sample ID: DUP-02-20141209

Lab Sample ID: 480-72829-36

Date Collected: 12/09/14 00:00

Matrix: Water

Date Received: 12/11/14 05:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		76.92	161995	12/20/14 17:42	RJQ	TAL CAN

TestAmerica Buffalo

Lab Chronicle

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

TestAmerica Job ID: 480-72829-1

Client Sample ID: WELL 1-2A-20141209

Lab Sample ID: 480-72829-41

Date Collected: 12/09/14 08:53

Matrix: Water

Date Received: 12/11/14 05:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	161995	12/20/14 18:05	RJQ	TAL CAN

Client Sample ID: WELL1-3-20141209

Lab Sample ID: 480-72829-42

Date Collected: 12/09/14 08:56

Matrix: Water

Date Received: 12/11/14 05:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	161995	12/20/14 18:27	RJQ	TAL CAN

Client Sample ID: FIELD BLANK-20141209

Lab Sample ID: 480-72829-43

Date Collected: 12/09/14 12:40

Matrix: Water

Date Received: 12/11/14 05:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	161994	12/20/14 14:58	RJQ	TAL CAN

Client Sample ID: TRIP BLANK-01-20141209

Lab Sample ID: 480-72829-44

Date Collected: 12/09/14 00:00

Matrix: Water

Date Received: 12/11/14 05:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	161994	12/20/14 15:21	RJQ	TAL CAN

Client Sample ID: TRIP BLANK-02-20141209

Lab Sample ID: 480-72829-45

Date Collected: 12/09/14 00:00

Matrix: Water

Date Received: 12/11/14 05:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	161994	12/20/14 15:43	RJQ	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TestAmerica Buffalo

Certification Summary

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

TestAmerica Job ID: 480-72829-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

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

Laboratory: TestAmerica Canton

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	10975	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

Method Summary

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

TestAmerica Job ID: 480-72829-1

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

Protocol References:

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

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

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

TestAmerica Job ID: 480-72829-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-72829-1	4009-1-20141209	Water	12/09/14 11:10	12/11/14 05:10
480-72829-2	4009-2-20141209	Water	12/09/14 11:23	12/11/14 05:10
480-72829-3	4009-3-20141209	Water	12/09/14 11:38	12/11/14 05:10
480-72829-4	4009-4-20141209	Water	12/09/14 12:10	12/11/14 05:10
480-72829-5	4009-5-20141209	Water	12/09/14 11:52	12/11/14 05:10
480-72829-6	4009-6-20141209	Water	12/09/14 11:15	12/11/14 05:10
480-72829-7	4009-7-20141209	Water	12/09/14 12:20	12/11/14 05:10
480-72829-8	4009-8-20141209	Water	12/09/14 10:58	12/11/14 05:10
480-72829-9	4009-9-20141209	Water	12/09/14 10:17	12/11/14 05:10
480-72829-10	4009-10-20141209	Water	12/09/14 10:23	12/11/14 05:10
480-72829-11	4009-11-20141209	Water	12/09/14 10:31	12/11/14 05:10
480-72829-12	4009-11A-20141209	Water	12/09/14 10:35	12/11/14 05:10
480-72829-13	4009-12-20141209	Water	12/09/14 09:07	12/11/14 05:10
480-72829-14	4009-12A-20141209	Water	12/09/14 09:10	12/11/14 05:10
480-72829-15	4009-13-20141209	Water	12/09/14 10:01	12/11/14 05:10
480-72829-16	4009-13A-20141209	Water	12/09/14 09:58	12/11/14 05:10
480-72829-17	4009-14-20141209	Water	12/09/14 08:08	12/11/14 05:10
480-72829-18	4009-15-20141209	Water	12/09/14 08:36	12/11/14 05:10
480-72829-19	4009-16-20141209	Water	12/09/14 08:25	12/11/14 05:10
480-72829-20	4009-16A-20141209	Water	12/09/14 08:22	12/11/14 05:10
480-72829-21	4009-22-20141209	Water	12/09/14 07:57	12/11/14 05:10
480-72829-22	4009-23S-20141209	Water	12/09/14 12:14	12/11/14 05:10
480-72829-23	4009-23D-20141209	Water	12/09/14 12:17	12/11/14 05:10
480-72829-24	4009-24-20141209	Water	12/09/14 11:45	12/11/14 05:10
480-72829-25	4009-25S-20141209	Water	12/09/14 11:28	12/11/14 05:10
480-72829-26	4009-25D-20141209	Water	12/09/14 11:32	12/11/14 05:10
480-72829-27	4009-26-20141209	Water	12/09/14 11:02	12/11/14 05:10
480-72829-28	4009-27S-20141209	Water	12/09/14 09:53	12/11/14 05:10
480-72829-29	4009-27I-20141209	Water	12/09/14 09:50	12/11/14 05:10
480-72829-30	4009-27D-20141209	Water	12/09/14 09:47	12/11/14 05:10
480-72829-31	4009-28-20141209	Water	12/09/14 07:50	12/11/14 05:10
480-72829-32	4009-29S-20141209	Water	12/09/14 09:33	12/11/14 05:10
480-72829-33	4009-29I-20141209	Water	12/09/14 09:30	12/11/14 05:10
480-72829-34	4009-29D-20141209	Water	12/09/14 09:27	12/11/14 05:10
480-72829-35	DUP-01-20141209	Water	12/09/14 00:00	12/11/14 05:10
480-72829-36	DUP-02-20141209	Water	12/09/14 00:00	12/11/14 05:10
480-72829-41	WELL 1-2A-20141209	Water	12/09/14 08:53	12/11/14 05:10
480-72829-42	WELL 1-3-20141209	Water	12/09/14 08:56	12/11/14 05:10
480-72829-43	FIELD BLANK-20141209	Water	12/09/14 12:40	12/11/14 05:10
480-72829-44	TRIP BLANK-01-20141209	Water	12/09/14 00:00	12/11/14 05:10
480-72829-45	TRIP BLANK-02-20141209	Water	12/09/14 00:00	12/11/14 05:10

TestAmerica Buffalo

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, NY		Sampler: Amber Goodrich Lab PM: Stone, Judy L E-Mail: judy.stone@testamericainc.com Phone: (518)-250-7300		Carrier Tracking No(s): COC No: 480-59371-15505.1 Page: 5 of 10 Page 1 of 10 Job #:	
Due Date Requested: TAT Requested (days): PO #: Project 00266401.0000 WO #: Contract D007618 Project #: 48005198 SSOW#:		Analysis Requested			
Sample Identification 4009-1 - 20141209 4009-2 - 20141209 4009-3 - 20141209 4009-4 - 20141209 4009-5 - 20141209 4009-6 - 20141209 4009-7 - 20141209 4009-8 - 20141209 4009-9 - 20141209 4009-10 - 20141209 4009-11 - 20141209		Sample Date 12/09/14 12/10/14 12/10/14 12/10/14 12/10/14 12/10/14 12/10/14 12/10/14 12/10/14 12/10/14 12/10/14		Sample Time 11:10 11:23 11:38 12:10 11:52 11:15 12:20 10:58 10:17 10:23 10:31	
Matrix (W=Water, S=solid, O=oil, BT=Tissue, A=Air) Water Water Water Water Water Water Water Water Water Water		Sample Type (C=Comp, G=grab) G G G G G G G G G G		Field Filtered Sample (Yes or No) N N N N N N N N N N N	
Perform MS/MSD (Yes or No) A A A A A A A A A A A		8260C - (MOD) TCL list OLM04.2 + TMS 480-72829 Chain of Custody		Total Number of containers 1 1 1 1 1 1 1 1 1 1 1 1	
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:		Special Instructions/Note: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 L - EDA Z - other (specify)			
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/QC Requirements:					
Empty Kit Relinquished by:		Date:		Method of Shipment:	
Relinquished by: <i>Amber Goodrich</i> Date/Time: 12/10/14 11:25 Relinquished by: <i>Katie Bidwell</i> Date/Time: 12/10/14 18:00 Relinquished by: <i>Amber Goodrich</i> Date/Time: 12/10/14 11:25		Company: ARCADIS Company: ARCADIS Company: ARCADIS		Date/Time: 12/10/14 11:25 Date/Time: 12/10/14 18:00 Date/Time: 12/10/14 11:25	
Relinquished by: <i>Amber Goodrich</i> Date/Time: 12/10/14 11:25 Relinquished by: <i>Katie Bidwell</i> Date/Time: 12/10/14 18:00 Relinquished by: <i>Amber Goodrich</i> Date/Time: 12/10/14 11:25		Company: ARCADIS Company: ARCADIS Company: ARCADIS		Date/Time: 12/10/14 11:25 Date/Time: 12/10/14 18:00 Date/Time: 12/10/14 11:25	
Custody Seal No.: Δ Yes Δ No		Custody Seal No.: 210 #		Cooler Temperature(s) °C and Other Remarks:	

Chain of Custody Record

Client Information			Lab PM: Stone, Judy L			Carrier Tracking No(s):			COC No: 480-59371-15505.2		
Client Contact: Ms. Katie Bidwell			E-Mail: judy.stone@testamericainc.com			Page 2 of 2			Page 2 of 2		
Company: ARCADIS U.S. Inc			Phone: (518)-250-7300			Analysis Requested			Job #:		
Address: 855 Route 146 Suite 210			Due Date Requested:			Preservation Codes:			Special Instructions/Note:		
City: Clifton Park			TAT Requested (days):			M - Hexane N - None O - AsNaO2 P - Na2O4S Q - NaHSO4 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 X - EDTA Y - EDA Z - other (specify)			Other:		
State, Zip: NY, 12065			PO #: Project 00266401.0000			Field Filtered Sample (Yes or No)			Total Number of containers		
Phone: 518-250-7300(Tel)			WO #: Contract D007618			Perform MS/MSD (Yes or No)			8260C - (MOD) TCL list OLM4.2 + TMS		
Email: katie.bidwell@arcadis-us.com			Project #: 48005198			Matrix			Water		
Project Name: NYSDEC-Standby VESTAL			SSOW#:			Sample Type			Water		
Site: vestal, NY			Sample Date			Sample Time			Sample Time		
Sample Identification			Sample Date			Sample Time			Sample Time		
4009-11A - 20141209			12/09/14			10:35			NN3		
4009-12 - 20141209			12/09/14			09:07			NN3		
4009-12A - 20141209			12/09/14			09:10			NN3		
4009-13 - 20141209			12/09/14			10:01			NN3		
4009-13A - 20141209			12/09/14			09:58			NN3		
4009-14 - 20141209			12/09/14			08:08			NN3		
4009-15 - 20141209			12/09/14			08:36			NN3		
4009-16 - 20141209			12/09/14			08:35			NN3		
4009-16A - 20141209			12/09/14			08:32			NN3		
4009-22 - 20141209			12/09/14			07:57			NN3		
Possible Hazard Identification			Sample Date			Sample Time			Sample Time		
Non-Hazard			Flammable			Skin Irritant			Poison B		
Deliverable Requested: I, II, III, IV, Other (specify)			Unknown			Radiological			Return To Client		
Empty Kit Relinquished by:			Date:			Time:			Special Instructions/QC Requirements:		
Relinquished by:			Date/Time:			Date/Time:			Date/Time:		
Relinquished by:			Date/Time:			Date/Time:			Date/Time:		
Relinquished by:			Date/Time:			Date/Time:			Date/Time:		
Custody Seal No:			Custody Seal No:			Custody Seal No:			Custody Seal No:		
Yes A No			Yes A No			Yes A No			Yes A No		

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: NYSEDEC-Standby VESTAL Site: Vestal, NY		Sampler: Amber Goodman Lab PM: Stone, Judy L. Phone: (518) 885-7300 E-Mail: judy.stone@testamericainc.com		COC No: 480-59371-15505.3 Page: 5 of 10 Page 3 of 10 Job #:		Carrier Tracking No(s):											
Due Date Requested: TAT Requested (days): PO #: Project 00266401.0000 WO #: Contract D007618 Project #: 48005198 SSOW#:		Analysis Requested															
Sample Identification 4009-23S - 20141209 4009-23D - 20141209 4009-24 - 20141209 4009-25S - 20141209 4009-25D - 20141209 4009-26 - 20141209 4009-27S - 20141209 4009-27I - 20141209 4009-27D - 20141209 4009-28 - 20141209 4009-29S - 20141209		Sample Date 12/09/14 12/17 11:45 11:28 11:30 11:02 09:53 09:50 09:47 07:50 09:33		Sample Time 12:14 12:17 11:45 11:28 11:30 11:02 09:53 09:50 09:47 07:50 09:33		Matrix (W=water, S=solid, O=oil, A=air) Water Water Water Water Water Water Water Water Water Water		Preservation Code: A N 3		Field Filtered Sample (Yes or No) 8260C - (MOD) TCL list OL M4.2 + TMBs		Perform MS/MSD (Yes or No)		Total Number of Containers		Special Instructions/Note:	
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/QC Requirements:		Method of Shipment											
Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by: [Signature]		Date: 12/10/14 11:25 Date: 12/10/14 11:25 Date: 12/10/14 15:10		Company: Arcadis Company: Arcadis Company: Arcadis		Date/Time: 12-10-14 11:25 Date/Time: 12/11/14 05:10 Date/Time:		Company: [Signature] Company: [Signature] Company: [Signature]		Cooler Temperature(s) °C and Other Remarks: 2.0 #							

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: NYSEDEC-Standby VESTAL Site: Vestal, NY		Sampler: Amber Goodrich Lab PM: Stone, Judy L Phone: Emmanuel Sousa E-Mail: judy.stone@testamericainc.com (518)-250-7300		Carrier Tracking No(s): COC No: 480-59371-15505.4 Page: Page 4 of 5 Job #:	
Due Date Requested: TAT Requested (days): PO #: Project 00266401.0000 WO #: Contract D007618 Project #: 48005198 SSON#:		Analysis Requested			
Sample Identification 4009-291 - 20141209 4009-290 - 20141209 DUP - 01 - 20141209 DUP - 02 - 20141209 MS 4009-3-MS - 20141209 MS 4009-3-MSD - 20141209 MS 4009-27I-MS - 20141209 MS 4009-27F-MSD - 20141209 Well 1-2A - 20141209 Well 1-3 - 20141209 Field Blank - 20141209		Sample Date 12/09/14 12/09/14 12/09/14 12/09/14 12/09/14 12/09/14 12/09/14 12/09/14 12/09/14 12/09/14		Sample Time 09:30 09:37 11:38 11:38 09:50 09:50 08:53 08:56 12:40	
Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) Water Water Water Water Water Water Water Water Water		Sample Type (C=Comp, G=grab) G G G G G G G G G		Field Filtered Sample (Yes or No) N N N N N N N N N N	
Perform MS/MSD (Yes or No) N N N N N N N N N N		8260C - (MOD) TCL list OL.M4.2 + TMS A A A A A A A A A		Total Number of Containers X X X X X X X X X X	
Special Instructions/Note: 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: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)		Special Instructions/Note: 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:			
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by:			
Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by: [Signature]		Date: 12/10/14 11:25 Date: 12/10/14 15:00 Date: 12/10/14 15:00		Date: 12/10/14 11:25 Date: 12/11/14 0510 Date: 12/11/14 0510	
Company: ARCADIS Company: TA Company: TA		Company: ARCADIS Company: TA Company: TA		Company: ARCADIS Company: TA Company: TA	
Custody Seals Intact: A Yes A No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 2.0 # 1	

Client Information			Lab PM: Stone, Judy L			Carrier Tracking No(s):			COC No: 480-59371-15505.5		
Client Contact: Ms. Katie Bidwell			E-Mail: judy.stone@testamericainc.com			Page 5 of 5			Page 5 of 5		
Company: ARCADIS U.S. Inc			Due Date Requested:			Analysis Requested			Job #:		
Address: 855 Route 146 Suite 210			TAT Requested (days):								
City: Clifton Park			PO #:								
State, Zip: NY, 12065			Project #:								
Phone: 518-250-7300(Tel)			SSOW#:								
Email: katie.bidwell@arcadis-us.com			Project Name: NYSDEC-Standby VESTAL								
Site: Vestal, NY			Sample Identification								
extra or			Sample Date								
Field Blank			Sample Time								
Trip Blank-01-20141209			Sample Type (C=Comp, G=grab)								
Trip Blank-02-20141209			Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)								
			Preservation Code:								
			Field Filtered Sample (Yes or No)								
			Perform MS/MSD (Yes or No)								
			8260C - (MOD) TCL list OLM04.2 + TMBs								
			Total Number of containers								
			Special Instructions/Note:								
			Preservation Codes:								
			A - HCL								
			B - NaOH								
			C - Zn Acetate								
			D - Nitric Acid								
			E - NaHSO4								
			F - MeOH								
			G - Anichlor								
			H - TSP Dodecalhydrate								
			I - Ice								
			J - DI Water								
			K - EDTA								
			L - EDA								
			Other:								
			M - Hexane								
			N - None								
			O - AsNaO2								
			P - Na2O4S								
			Q - Na2SO3								
			R - Na2S2O3								
			S - H2SO4								
			T - TSP Dodecalhydrate								
			U - Acetone								
			V - MCAA								
			W - ph 4-5								
			Z - other (specify)								
			Special Instructions/Note:								
			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:								
			Method of Shipment:								
			Received by:								
			Date/Time:								
			Company:								
			Received by:								
			Date/Time:								
			Company:								
			Received by:								
			Date/Time:								
			Company:								
			Cooler Temperature(s) °C and Other Remarks:								



Client Information (Sub Contract Lab)				Lab PM:		Carrier Tracking No(s):		COC No:	
Client Contact				Stone, Judy L				480-22218.1	
Shipping/Receiving				E-Mail:				Page:	
				judy.stone@testamericainc.com				Page 1 of 5	
Company:				TestAmerica Laboratories, Inc.		Job #:		480-72829-1	
Address:				Due Date Requested:		Analysis Requested		Preservation Codes:	
4101 Shuffel Street NW,				12/22/2014				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:	
City:				TAT Requested (days):				M - Hexane N - Nme O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Apetone V - MCAA W - ph 4-5 Z - other (specify)	
State, Zip:				PO #:					
OH, 44720				WO #:					
Phone:				Project #:					
330-497-9396(Tel) 330-497-0772(Fax)				48005198					
E-mail:				SSOW#:					
Sample Name:									
NYSDEC-Standby VESTAL									
Site:									
Sample Identification - Client ID (Lab ID)				Sample Date		Sample Time		Matrix	
								(W=water, S=solid, O=oil, A=air)	
								(C=Comp, G=grab) (BT=Tissue, A=Air)	
								Preservation Code	
4009-1-20141209 (480-72829-1)				12/9/14		11:10 Eastern		Water	
4009-2-20141209 (480-72829-2)				12/9/14		11:23 Eastern		Water	
4009-3-20141209 (480-72829-3)				12/9/14		11:38 Eastern		Water	
4009-3-20141209 (480-72829-3MS)				12/9/14		11:38 Eastern		MS	
4009-3-20141209 (480-72829-3MSD)				12/9/14		11:38 Eastern		MSD	
4009-4-20141209 (480-72829-4)				12/9/14		12:10 Eastern		Water	
4009-5-20141209 (480-72829-5)				12/9/14		11:52 Eastern		Water	
4009-6-20141209 (480-72829-6)				12/9/14		11:15 Eastern		Water	
4009-7-20141209 (480-72829-7)				12/9/14		12:20 Eastern		Water	
4009-8-20141209 (480-72829-8)				12/9/14		10:58 Eastern		Water	
4009-9-20141209 (480-72829-9)				12/9/14		10:17 Eastern		Water	
Possible Hazard Identification									
Unconfirmed									
Deliverable Requested: I, II, III, IV, Other (specify)									
Empty Kit Relinquished by:				Date:		Time:		Method of Shipment:	
Relinquished by:				Date/Time:		Date/Time:		Company	
Cameron Wallace				12/17/14		1700		TAB	
Relinquished by:				Date/Time:		Date/Time:		Company	
Relinquished by:				Date/Time:		Date/Time:		Company	
Relinquished by:				Date/Time:		Date/Time:		Company	
Custody Seal No.:				Custody Seal No.:		Custody Seal No.:		Custody Seal No.:	
A Yes A No				A Yes A No		A Yes A No		A Yes A No	

Chain of Custody Record

Client Information (Sub Contract Lab) Client Contact: _____ Shipping/Receiving: _____ Company: TestAmerica Laboratories, Inc. Address: 4101 Shuffel Street NW, City: North Canton State: OH, Zip: 44720 Phone: 330-497-9396 (Tel) 330-497-0772 (Fax) Email: _____ Project Name: NYSDEC-Standby VESTAL Site: _____		Lab PM: Stone, Judy L. E-Mail: judy.stone@testamericainc.com Phone: _____ Project #: 48005198 SSOW#: _____		Due Date Requested: 12/22/2014 TAT Requested (days): _____ PO #: _____ WO #: _____ Project #: 48005198 SSOW#: _____		Carrier Tracking No(s): _____ COC No: 480-22218.2 Page: Page 2 of 5 Job #: 480-72829-1																																																																																																																									
Analysis Requested Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2OAS E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecalhydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4.5 L - EDA Z - other (specify) Other: _____																																																																																																																															
Sample Identification - Client ID (Lab ID) <table border="1"> <thead> <tr> <th>Sample ID</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=Grab)</th> <th>Matrix (W=water, S=solid, O=waste/oil, L=liquid)</th> <th>Field Filtered Sample (Yes or No)</th> <th>Form MS/MSD (Yes or No)</th> <th>8260C/6030C (MOD) TCL list OLM2.4 +</th> <th>Total Number of containers</th> <th>Special Instructions/Note:</th> </tr> </thead> <tbody> <tr> <td>4009-10-20141209 (480-72829-10)</td> <td>12/9/14</td> <td>10:23 Eastern</td> <td></td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>3</td> <td></td> </tr> <tr> <td>4009-11-20141209 (480-72829-11)</td> <td>12/9/14</td> <td>10:31 Eastern</td> <td></td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>3</td> <td></td> </tr> <tr> <td>4009-11A-20141209 (480-72829-12)</td> <td>12/9/14</td> <td>10:35 Eastern</td> <td></td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>3</td> <td></td> </tr> <tr> <td>4009-12-20141209 (480-72829-13)</td> <td>12/9/14</td> <td>09:07 Eastern</td> <td></td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>3</td> <td></td> </tr> <tr> <td>4009-12A-20141209 (480-72829-14)</td> <td>12/9/14</td> <td>09:10 Eastern</td> <td></td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>3</td> <td></td> </tr> <tr> <td>4009-13-20141209 (480-72829-15)</td> <td>12/9/14</td> <td>10:01 Eastern</td> <td></td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>3</td> <td></td> </tr> <tr> <td>4009-13A-20141209 (480-72829-16)</td> <td>12/9/14</td> <td>09:58 Eastern</td> <td></td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>3</td> <td></td> </tr> <tr> <td>4009-14-20141209 (480-72829-17)</td> <td>12/9/14</td> <td>08:08 Eastern</td> <td></td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>3</td> <td></td> </tr> <tr> <td>4009-15-20141209 (480-72829-18)</td> <td>12/9/14</td> <td>08:36 Eastern</td> <td></td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>3</td> <td></td> </tr> <tr> <td>4009-16-20141209 (480-72829-19)</td> <td>12/9/14</td> <td>08:25 Eastern</td> <td></td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>3</td> <td></td> </tr> <tr> <td>4009-16A-20141209 (480-72829-20)</td> <td>12/9/14</td> <td>08:22 Eastern</td> <td></td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>3</td> <td></td> </tr> </tbody> </table>								Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (W=water, S=solid, O=waste/oil, L=liquid)	Field Filtered Sample (Yes or No)	Form MS/MSD (Yes or No)	8260C/6030C (MOD) TCL list OLM2.4 +	Total Number of containers	Special Instructions/Note:	4009-10-20141209 (480-72829-10)	12/9/14	10:23 Eastern		Water	X	X	X	3		4009-11-20141209 (480-72829-11)	12/9/14	10:31 Eastern		Water	X	X	X	3		4009-11A-20141209 (480-72829-12)	12/9/14	10:35 Eastern		Water	X	X	X	3		4009-12-20141209 (480-72829-13)	12/9/14	09:07 Eastern		Water	X	X	X	3		4009-12A-20141209 (480-72829-14)	12/9/14	09:10 Eastern		Water	X	X	X	3		4009-13-20141209 (480-72829-15)	12/9/14	10:01 Eastern		Water	X	X	X	3		4009-13A-20141209 (480-72829-16)	12/9/14	09:58 Eastern		Water	X	X	X	3		4009-14-20141209 (480-72829-17)	12/9/14	08:08 Eastern		Water	X	X	X	3		4009-15-20141209 (480-72829-18)	12/9/14	08:36 Eastern		Water	X	X	X	3		4009-16-20141209 (480-72829-19)	12/9/14	08:25 Eastern		Water	X	X	X	3		4009-16A-20141209 (480-72829-20)	12/9/14	08:22 Eastern		Water	X	X	X	3	
Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (W=water, S=solid, O=waste/oil, L=liquid)	Field Filtered Sample (Yes or No)	Form MS/MSD (Yes or No)	8260C/6030C (MOD) TCL list OLM2.4 +	Total Number of containers	Special Instructions/Note:																																																																																																																						
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4009-14-20141209 (480-72829-17)	12/9/14	08:08 Eastern		Water	X	X	X	3																																																																																																																							
4009-15-20141209 (480-72829-18)	12/9/14	08:36 Eastern		Water	X	X	X	3																																																																																																																							
4009-16-20141209 (480-72829-19)	12/9/14	08:25 Eastern		Water	X	X	X	3																																																																																																																							
4009-16A-20141209 (480-72829-20)	12/9/14	08:22 Eastern		Water	X	X	X	3																																																																																																																							
Possible Hazard Identification Unconfirmed 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/QC Requirements: _____																																																																																																																															
Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____																																																																																																																															
Relinquished by: <i>Cameron Wible</i> Date/Time: 12/17/14 1700 Company: TAB Relinquished by: _____ Date/Time: _____ Company: _____ Relinquished by: _____ Date/Time: _____ Company: _____																																																																																																																															
Custody Seals Intact: ☐ Yes ☐ No Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: _____																																																																																																																															

Chain of Custody Record

Client Information (Sub Contract Lab)		Sampler: Stone, Judy L		Lab PM: Stone, Judy L		COC No: 480-22218.3		Camera Tracking No(s):	
Client Contact: Shipping/Receiving		Phone:		E-Mail: judy.stone@testamericainc.com		Page: Page 3 of 5			
Company: TestAmerica Laboratories, Inc.		Address: 4101 Shuffel Street NW,		City: North Canton		State, Zip: OH, 44720		Phone: 330-497-9396(Tel) 330-497-0772(Fax)	
Email:		PO #:		WO #:		Project #: 48005198		SSOW#:	
Project Name: NYSEDEC-Standby VESTAL		Site:		Due Date Requested: 12/22/2014		TAT Requested (days):			
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, ET=Etter, A=Air)	Field Filtered Sample (Yes or No)	Performance MS/MSD (Yes or No)	2860C/6030C (MOD) TCL list OL M04.2 +	Analysis Requested
4009-22-20141209 (480-72829-21)	12/9/14	07:57 Eastern	Water	Water	X				
4009-23S-20141209 (480-72829-22)	12/9/14	12:14 Eastern	Water	Water	X				
4009-23D-20141209 (480-72829-23)	12/9/14	12:17 Eastern	Water	Water	X				
4009-24-20141209 (480-72829-24)	12/9/14	11:45 Eastern	Water	Water	X				
4009-25S-20141209 (480-72829-25)	12/9/14	11:28 Eastern	Water	Water	X				
4009-25D-20141209 (480-72829-26)	12/9/14	11:32 Eastern	Water	Water	X				
4009-26-20141209 (480-72829-27)	12/9/14	11:02 Eastern	Water	Water	X				
4009-27S-20141209 (480-72829-28)	12/9/14	09:53 Eastern	Water	Water	X				
4009-27I-20141209 (480-72829-29)	12/9/14	09:50 Eastern	Water	Water	X				
4009-27I+20141209 (480-72829-29MS)	12/9/14	09:50 Eastern	MS	Water	X				
4009-27I-20141209 (480-72829-29MSD)	12/9/14	09:50 Eastern	MSD	Water	X				
Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)									
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:			
Relinquished by: Cameron Walker		Date/Time: 12/17/14 1700		Company: TAB		Received by: [Signature]		Date/Time: 12/18/14 1000	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:					

Chain of Custody Record

Client Information (Sub Contract Lab)		Sampler: Lab PM: Stone, Judy L.		Carrier Tracking No(s):		COC No: 480-22218-4	
Client Contact: Shipping/Receiving		Phone:		E-Mail: judy.stone@testamericainc.com		Page: Page 4 of 5	
Company: TestAmerica Laboratories, Inc.		Due Date Requested: 12/22/2014		Analysis Requested		Job #: 480-72829-1	
Address: 4101 Shuffel Street NW,		TAT Requested (days):		Field Filtered Sample (Yes or No)		Total Number of Containers	
City: North Canton				8260C/5030C (MOD) TCL list ILM04.2 +			
State, Zip: OH, 44720				Field Filled Sample (Yes or No)			
Phone: 330-497-9396(Tel) 330-497-0772(Fax)		PO #:		Matrix (W-water, S-solid, O-wastewater)		Preservation Codes:	
Email:		WO #:		Sample Type (C=Comp, G=grab)		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:	
Project Name: NYSEDEC-Standby VESTAL		Project #: 48005198		Sample Date		Preservation Code	
Site:		SSOW#:		Sample Time		Special Instructions/Note:	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		MS	
4009-27D-20141209 (480-72829-30)		12/9/14		09:47 Eastern		X	
4009-28-20141209 (480-72829-31)		12/9/14		07:50 Eastern		X	
4009-29S-20141209 (480-72829-32)		12/9/14		09:33 Eastern		X	
4009-29I-20141209 (480-72829-33)		12/9/14		09:30 Eastern		X	
4009-29D-20141209 (480-72829-34)		12/9/14		09:27 Eastern		X	
DUP-01-20141209 (480-72829-35)		12/9/14		Eastern		X	
DUP-02-20141209 (480-72829-36)		12/9/14		Eastern		X	
WELL 1-2A-20141209 (480-72829-41)		12/9/14		08:53 Eastern		X	
WELL 1-3-20141209 (480-72829-42)		12/9/14		08:56 Eastern		X	
FIELD BLANK-20141209 (480-72829-43)		12/9/14		12:40 Eastern		X	
TRIP BLANK-01-20141209 (480-72829-44)		12/9/14		Eastern		X	
Possible Hazard Identification							
Unconfirmed							
Deliverable Requested: I, II, III, IV, Other (specify)							
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: Cameron Wabbe		12/17/14		1700		Received by: [Signature]	
Relinquished by:		Date/Time:		Date/Time:		Date/Time:	
Relinquished by:		Date/Time:		Date/Time:		Date/Time:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			

[illegible]

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-72829-1

Login Number: 72829

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.	True	
Chlorine Residual checked.	N/A	



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4J0381

Project Name: Quarterly

TOWN OF VESTAL

Bill Peltz
701 Vestal Parkway West
Vestal, NY 13850-1363

Project / PO Number: N/A
Received: 10/28/2014 14:15
Reported: 11/03/2014 17:10

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Lab Sample ID: J4J0381-01
Sample Type: Grab

Collection Date: 10/28/14
Collection Time: 10:40
Collected By: Deron Biechele

Microbac Laboratories, Inc. - Central Pennsylvania

VOLATILE ORGANIC COMPOUNDS

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2								
1,1,1,2-Tetrachloroethane	<0.000500		0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
1,1,1-Trichloroethane	<0.000500	0.2	0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
1,1,2,2-Tetrachloroethane	<0.000500		0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
1,1,2-Trichloroethane	<0.000500	0.002	0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
1,1-Dichloroethane	<0.000500		0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
1,1-Dichloroethene	<0.000500	0.007	0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
1,1-Dichloropropene	<0.000500		0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
1,2,3-Trichlorobenzene	<0.000500		0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
1,2,3-Trichloropropane	<0.000500		0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
1,2,4-Trichlorobenzene	<0.000500	0.07	0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
1,2,4-Trimethylbenzene	<0.000500		0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
1,2-Dichlorobenzene	<0.000500	0.075	0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
1,2-Dichloroethane	<0.000500	0.005	0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
1,2-Dichloropropane	<0.000500	0.005	0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
1,3,5-Trimethylbenzene	<0.000500		0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
1,3-Dichlorobenzene	<0.000500		0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
1,3-Dichloropropane	<0.000500		0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
1,4-Dichlorobenzene	<0.000500	0.6	0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
2,2-Dichloropropane	<0.000500		0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
2-Chlorotoluene	<0.000500		0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
4-Chlorotoluene	<0.000500		0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
4-Isopropyltoluene	<0.000500		0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
Benzene	<0.000500	0.005	0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
Bromobenzene	<0.000500		0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
Bromochloromethane	<0.000500		0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
Bromomethane	<0.000500		0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
Carbon Tetrachloride	<0.000500	0.005	0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
Chlorobenzene	<0.000500	0.1	0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
Chloroethane	<0.000500		0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
Chloromethane	<0.000500		0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
cis-1,2-Dichloroethene	<0.000500	0.07	0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
cis-1,3-Dichloropropene	<0.000500		0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
Dibromomethane	<0.000500		0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
Dichlorodifluoromethane	<0.000500		0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
Ethylbenzene	<0.000500	0.7	0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE

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CERTIFICATE OF ANALYSIS

J4J0381

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Lab Sample ID: J4J0381-01
Sample Type: Grab

Collection Date: 10/28/14
Collection Time: 10:40
Collected By: Deron Biechele

Microbac Laboratories, Inc. - Central Pennsylvania

VOLATILE ORGANIC COMPOUNDS

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Hexachlorobutadiene	<0.000500		0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
Isopropylbenzene (Cumene)	<0.000500		0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
m,p-Xylene	<0.00100		0.00100	mg/L		10/30/14 1508	10/30/14 1508	JAE
Methylene Chloride	<0.000500	0.005	0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
Methyl-tert-Butyl Ether	<0.000500		0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
Naphthalene	<0.000500		0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
n-Butyl Benzene	<0.000500		0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
n-Propyl Benzene	<0.000500		0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
o-Xylene	<0.000500		0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
sec-Butylbenzene	<0.000500		0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
Styrene	<0.000500	0.1	0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
tert-Butylbenzene	<0.00100		0.00100	mg/L		10/30/14 1508	10/30/14 1508	JAE
Tetrachloroethene	<0.000500	0.005	0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
Toluene	<0.000500	1	0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
Total Xylenes	<0.00150	10	0.00150	mg/L		10/30/14 1508	10/30/14 1508	JAE
trans-1,2-Dichloroethene	<0.000500	0.1	0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
trans-1,3-Dichloropropene	<0.000500		0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
Trichloroethene	<0.000500	0.005	0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
Trichlorofluoromethane	<0.000500		0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
Vinyl chloride	<0.000500	0.002	0.000500	mg/L		10/30/14 1508	10/30/14 1508	JAE
1,2-Dichlorobenzene-d4	82.2		70-130	% Rec		10/30/14 1508	10/30/14 1508	JAE
4-Bromofluorobenzene	77.4		70-130	% Rec		10/30/14 1508	10/30/14 1508	JAE



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4J0381

Analytical Testing Parameters

Client Sample ID: 1-2A Finished
Lab Sample ID: J4J0381-02
Sample Type: Grab

Collection Date: 10/28/14
Collection Time: 10:40
Collected By: Deron Biechele

Microbac Laboratories, Inc. - Central Pennsylvania

VOLATILE ORGANIC COMPOUNDS

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2								
1,1,1,2-Tetrachloroethane	<0.000500		0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
1,1,1-Trichloroethane	<0.000500	0.2	0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
1,1,2,2-Tetrachloroethane	<0.000500		0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
1,1,2-Trichloroethane	<0.000500	0.002	0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
1,1-Dichloroethane	<0.000500		0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
1,1-Dichloroethene	<0.000500	0.007	0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
1,1-Dichloropropene	<0.000500		0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
1,2,3-Trichlorobenzene	<0.000500		0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
1,2,3-Trichloropropane	<0.000500		0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
1,2,4-Trichlorobenzene	<0.000500	0.07	0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
1,2,4-Trimethylbenzene	<0.000500		0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
1,2-Dichlorobenzene	<0.000500	0.075	0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
1,2-Dichloroethane	<0.000500	0.005	0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
1,2-Dichloropropane	<0.000500	0.005	0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
1,3,5-Trimethylbenzene	<0.000500		0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
1,3-Dichlorobenzene	<0.000500		0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
1,3-Dichloropropane	<0.000500		0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
1,4-Dichlorobenzene	<0.000500	0.6	0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
2,2-Dichloropropane	<0.000500		0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
2-Chlorotoluene	<0.000500		0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
4-Chlorotoluene	<0.000500		0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
4-Isopropyltoluene	<0.000500		0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
Benzene	<0.000500	0.005	0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
Bromobenzene	<0.000500		0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
Bromochloromethane	<0.000500		0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
Bromomethane	<0.000500		0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
Carbon Tetrachloride	<0.000500	0.005	0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
Chlorobenzene	<0.000500	0.1	0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
Chloroethane	<0.000500		0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
Chloromethane	<0.000500		0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
cis-1,2-Dichloroethene	<0.000500	0.07	0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
cis-1,3-Dichloropropene	<0.000500		0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
Dibromomethane	<0.000500		0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
Dichlorodifluoromethane	<0.000500		0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
Ethylbenzene	<0.000500	0.7	0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
Hexachlorobutadiene	<0.000500		0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
Isopropylbenzene (Cumene)	<0.000500		0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
m,p-Xylene	<0.00100		0.00100	mg/L		10/30/14 1542	10/30/14 1542	JAE
Methylene Chloride	<0.000500	0.005	0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
Methyl-tert-Butyl Ether	<0.000500		0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE

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CERTIFICATE OF ANALYSIS

J4J0381

Analytical Testing Parameters

Client Sample ID: 1-2A Finished
Lab Sample ID: J4J0381-02
Sample Type: Grab

Collection Date: 10/28/14
Collection Time: 10:40
Collected By: Deron Biechele

Microbac Laboratories, Inc. - Central Pennsylvania

VOLATILE ORGANIC COMPOUNDS

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Naphthalene	<0.000500		0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
n-Butyl Benzene	<0.000500		0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
n-Propyl Benzene	<0.000500		0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
o-Xylene	<0.000500		0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
sec-Butylbenzene	<0.000500		0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
Styrene	<0.000500	0.1	0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
tert-Butylbenzene	<0.00100		0.00100	mg/L		10/30/14 1542	10/30/14 1542	JAE
Tetrachloroethene	<0.000500	0.005	0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
Toluene	<0.000500	1	0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
Total Xylenes	<0.00150	10	0.00150	mg/L		10/30/14 1542	10/30/14 1542	JAE
trans-1,2-Dichloroethene	<0.000500	0.1	0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
trans-1,3-Dichloropropene	<0.000500		0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
Trichloroethene	<0.000500	0.005	0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
Trichlorofluoromethane	<0.000500		0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
Vinyl chloride	<0.000500	0.002	0.000500	mg/L		10/30/14 1542	10/30/14 1542	JAE
1,2-Dichlorobenzene-d4	82.7		70-130	% Rec		10/30/14 1542	10/30/14 1542	JAE
4-Bromofluorobenzene	85.7		70-130	% Rec		10/30/14 1542	10/30/14 1542	JAE



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4J0381

Analytical Testing Parameters

Client Sample ID: 1-3 Raw
Lab Sample ID: J4J0381-03
Sample Type: Grab

Collection Date: 10/28/14
Collection Time: 10:50
Collected By: Deron Biechele

Microbac Laboratories, Inc. - Central Pennsylvania

VOLATILE ORGANIC COMPOUNDS

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2								
1,1,1,2-Tetrachloroethane	<0.000500		0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
1,1,1-Trichloroethane	<0.000500	0.2	0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
1,1,2,2-Tetrachloroethane	<0.000500		0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
1,1,2-Trichloroethane	<0.000500	0.002	0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
1,1-Dichloroethane	<0.000500		0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
1,1-Dichloroethene	<0.000500	0.007	0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
1,1-Dichloropropene	<0.000500		0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
1,2,3-Trichlorobenzene	<0.000500		0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
1,2,3-Trichloropropane	<0.000500		0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
1,2,4-Trichlorobenzene	<0.000500	0.07	0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
1,2,4-Trimethylbenzene	<0.000500		0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
1,2-Dichlorobenzene	<0.000500	0.075	0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
1,2-Dichloroethane	<0.000500	0.005	0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
1,2-Dichloropropane	<0.000500	0.005	0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
1,3,5-Trimethylbenzene	<0.000500		0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
1,3-Dichlorobenzene	<0.000500		0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
1,3-Dichloropropane	<0.000500		0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
1,4-Dichlorobenzene	<0.000500	0.6	0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
2,2-Dichloropropane	<0.000500		0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
2-Chlorotoluene	<0.000500		0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
4-Chlorotoluene	<0.000500		0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
4-Isopropyltoluene	<0.000500		0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
Benzene	<0.000500	0.005	0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
Bromobenzene	<0.000500		0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
Bromochloromethane	<0.000500		0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
Bromomethane	<0.000500		0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
Carbon Tetrachloride	<0.000500	0.005	0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
Chlorobenzene	<0.000500	0.1	0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
Chloroethane	<0.000500		0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
Chloromethane	<0.000500		0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
cis-1,2-Dichloroethene	<0.000500	0.07	0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
cis-1,3-Dichloropropene	<0.000500		0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
Dibromomethane	<0.000500		0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
Dichlorodifluoromethane	<0.000500		0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
Ethylbenzene	<0.000500	0.7	0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
Hexachlorobutadiene	<0.000500		0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
Isopropylbenzene (Cumene)	<0.000500		0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
m,p-Xylene	<0.00100		0.00100	mg/L		10/30/14 1615	10/30/14 1615	JAE
Methylene Chloride	<0.000500	0.005	0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
Methyl-tert-Butyl Ether	<0.000500		0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE

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CERTIFICATE OF ANALYSIS

J4J0381

Analytical Testing Parameters

Client Sample ID: 1-3 Raw
Lab Sample ID: J4J0381-03
Sample Type: Grab

Collection Date: 10/28/14
Collection Time: 10:50
Collected By: Deron Biechele

Microbac Laboratories, Inc. - Central Pennsylvania

VOLATILE ORGANIC COMPOUNDS

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Naphthalene	<0.000500		0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
n-Butyl Benzene	<0.000500		0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
n-Propyl Benzene	<0.000500		0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
o-Xylene	<0.000500		0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
sec-Butylbenzene	<0.000500		0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
Styrene	<0.000500	0.1	0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
tert-Butylbenzene	<0.00100		0.00100	mg/L		10/30/14 1615	10/30/14 1615	JAE
Tetrachloroethene	<0.000500	0.005	0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
Toluene	<0.000500	1	0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
Total Xylenes	<0.00150	10	0.00150	mg/L		10/30/14 1615	10/30/14 1615	JAE
trans-1,2-Dichloroethene	<0.000500	0.1	0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
trans-1,3-Dichloropropene	<0.000500		0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
Trichloroethene	<0.000500	0.005	0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
Trichlorofluoromethane	<0.000500		0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
Vinyl chloride	<0.000500	0.002	0.000500	mg/L		10/30/14 1615	10/30/14 1615	JAE
1,2-Dichlorobenzene-d4	85.5		70-130	% Rec		10/30/14 1615	10/30/14 1615	JAE
4-Bromofluorobenzene	85.1		70-130	% Rec		10/30/14 1615	10/30/14 1615	JAE



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4J0381

Analytical Testing Parameters

Client Sample ID: 1-3 Finished
Lab Sample ID: J4J0381-04
Sample Type: Grab

Collection Date: 10/28/14
Collection Time: 10:55
Collected By: Deron Biechele

Microbac Laboratories, Inc. - Central Pennsylvania

VOLATILE ORGANIC COMPOUNDS

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2								
1,1,1,2-Tetrachloroethane	<0.000500		0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
1,1,1-Trichloroethane	<0.000500	0.2	0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
1,1,2,2-Tetrachloroethane	<0.000500		0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
1,1,2-Trichloroethane	<0.000500	0.002	0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
1,1-Dichloroethane	<0.000500		0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
1,1-Dichloroethene	<0.000500	0.007	0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
1,1-Dichloropropene	<0.000500		0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
1,2,3-Trichlorobenzene	<0.000500		0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
1,2,3-Trichloropropane	<0.000500		0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
1,2,4-Trichlorobenzene	<0.000500	0.07	0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
1,2,4-Trimethylbenzene	<0.000500		0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
1,2-Dichlorobenzene	<0.000500	0.075	0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
1,2-Dichloroethane	<0.000500	0.005	0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
1,2-Dichloropropane	<0.000500	0.005	0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
1,3,5-Trimethylbenzene	<0.000500		0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
1,3-Dichlorobenzene	<0.000500		0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
1,3-Dichloropropane	<0.000500		0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
1,4-Dichlorobenzene	<0.000500	0.6	0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
2,2-Dichloropropane	<0.000500		0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
2-Chlorotoluene	<0.000500		0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
4-Chlorotoluene	<0.000500		0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
4-Isopropyltoluene	<0.000500		0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
Benzene	<0.000500	0.005	0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
Bromobenzene	<0.000500		0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
Bromochloromethane	<0.000500		0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
Bromomethane	<0.000500		0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
Carbon Tetrachloride	<0.000500	0.005	0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
Chlorobenzene	<0.000500	0.1	0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
Chloroethane	<0.000500		0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
Chloromethane	<0.000500		0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
cis-1,2-Dichloroethene	<0.000500	0.07	0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
cis-1,3-Dichloropropene	<0.000500		0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
Dibromomethane	<0.000500		0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
Dichlorodifluoromethane	<0.000500		0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
Ethylbenzene	<0.000500	0.7	0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
Hexachlorobutadiene	<0.000500		0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
Isopropylbenzene (Cumene)	<0.000500		0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
m,p-Xylene	<0.00100		0.00100	mg/L		10/30/14 1649	10/30/14 1649	JAE
Methylene Chloride	<0.000500	0.005	0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
Methyl-tert-Butyl Ether	<0.000500		0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4J0381

Analytical Testing Parameters

Client Sample ID: 1-3 Finished
Lab Sample ID: J4J0381-04
Sample Type: Grab

Collection Date: 10/28/14
Collection Time: 10:55
Collected By: Deron Biechele

Microbac Laboratories, Inc. - Central Pennsylvania

VOLATILE ORGANIC COMPOUNDS

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Naphthalene	<0.000500		0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
n-Butyl Benzene	<0.000500		0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
n-Propyl Benzene	<0.000500		0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
o-Xylene	<0.000500		0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
sec-Butylbenzene	<0.000500		0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
Styrene	<0.000500	0.1	0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
tert-Butylbenzene	<0.00100		0.00100	mg/L		10/30/14 1649	10/30/14 1649	JAE
Tetrachloroethene	<0.000500	0.005	0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
Toluene	<0.000500	1	0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
Total Xylenes	<0.00150	10	0.00150	mg/L		10/30/14 1649	10/30/14 1649	JAE
trans-1,2-Dichloroethene	<0.000500	0.1	0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
trans-1,3-Dichloropropene	<0.000500		0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
Trichloroethene	<0.000500	0.005	0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
Trichlorofluoromethane	<0.000500		0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
Vinyl chloride	<0.000500	0.002	0.000500	mg/L		10/30/14 1649	10/30/14 1649	JAE
1,2-Dichlorobenzene-d4	83.3		70-130	% Rec		10/30/14 1649	10/30/14 1649	JAE
4-Bromofluorobenzene	85.9		70-130	% Rec		10/30/14 1649	10/30/14 1649	JAE



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4J0381

Analytical Testing Parameters

Client Sample ID: Trip Blank
Lab Sample ID: J4J0381-05
Sample Type: Trip Blank

Collection Date: 10/24/14
Collection Time: 11:30
Collected By: Deron Biechele

Microbac Laboratories, Inc. - Central Pennsylvania

VOLATILE ORGANIC COMPOUNDS

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2								
1,1,1,2-Tetrachloroethane	<0.000500		0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
1,1,1-Trichloroethane	<0.000500	0.2	0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
1,1,2,2-Tetrachloroethane	<0.000500		0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
1,1,2-Trichloroethane	<0.000500	0.002	0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
1,1-Dichloroethane	<0.000500		0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
1,1-Dichloroethene	<0.000500	0.007	0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
1,1-Dichloropropene	<0.000500		0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
1,2,3-Trichlorobenzene	<0.000500		0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
1,2,3-Trichloropropane	<0.000500		0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
1,2,4-Trichlorobenzene	<0.000500	0.07	0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
1,2,4-Trimethylbenzene	<0.000500		0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
1,2-Dichlorobenzene	<0.000500	0.075	0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
1,2-Dichloroethane	<0.000500	0.005	0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
1,2-Dichloropropane	<0.000500	0.005	0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
1,3,5-Trimethylbenzene	<0.000500		0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
1,3-Dichlorobenzene	<0.000500		0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
1,3-Dichloropropane	<0.000500		0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
1,4-Dichlorobenzene	<0.000500	0.6	0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
2,2-Dichloropropane	<0.000500		0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
2-Chlorotoluene	<0.000500		0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
4-Chlorotoluene	<0.000500		0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
4-Isopropyltoluene	<0.000500		0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
Benzene	<0.000500	0.005	0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
Bromobenzene	<0.000500		0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
Bromochloromethane	<0.000500		0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
Bromomethane	<0.000500		0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
Carbon Tetrachloride	<0.000500	0.005	0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
Chlorobenzene	<0.000500	0.1	0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
Chloroethane	<0.000500		0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
Chloromethane	<0.000500		0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
cis-1,2-Dichloroethene	<0.000500	0.07	0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
cis-1,3-Dichloropropene	<0.000500		0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
Dibromomethane	<0.000500		0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
Dichlorodifluoromethane	<0.000500		0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
Ethylbenzene	<0.000500	0.7	0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
Hexachlorobutadiene	<0.000500		0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
Isopropylbenzene (Cumene)	<0.000500		0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
m,p-Xylene	<0.00100		0.00100	mg/L		10/30/14 1433	10/30/14 1433	JAE
Methylene Chloride	<0.000500	0.005	0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
Methyl-tert-Butyl Ether	<0.000500		0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4J0381

Analytical Testing Parameters

Client Sample ID: Trip Blank
Lab Sample ID: J4J0381-05
Sample Type: Trip Blank

Collection Date: 10/24/14
Collection Time: 11:30
Collected By: Deron Biechele

Microbac Laboratories, Inc. - Central Pennsylvania

VOLATILE ORGANIC COMPOUNDS

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Naphthalene	<0.000500		0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
n-Butyl Benzene	<0.000500		0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
n-Propyl Benzene	<0.000500		0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
o-Xylene	<0.000500		0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
sec-Butylbenzene	<0.000500		0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
Styrene	<0.000500	0.1	0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
tert-Butylbenzene	<0.00100		0.00100	mg/L		10/30/14 1433	10/30/14 1433	JAE
Tetrachloroethene	<0.000500	0.005	0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
Toluene	<0.000500	1	0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
Total Xylenes	<0.00150	10	0.00150	mg/L		10/30/14 1433	10/30/14 1433	JAE
trans-1,2-Dichloroethene	<0.000500	0.1	0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
trans-1,3-Dichloropropene	<0.000500		0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
Trichloroethene	<0.000500	0.005	0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
Trichlorofluoromethane	<0.000500		0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
Vinyl chloride	<0.000500	0.002	0.000500	mg/L		10/30/14 1433	10/30/14 1433	JAE
1,2-Dichlorobenzene-d4	80.8		70-130	% Rec		10/30/14 1433	10/30/14 1433	JAE
4-Bromofluorobenzene	80.6		70-130	% Rec		10/30/14 1433	10/30/14 1433	JAE

Definitions

MCL: Maximum Contamination Level
PQL: Practical Quantitation Limit

Cooler Receipt Log:

Cooler ID:	Default Cooler	Received On Ice (or not required):	Yes
Cooler Temp:	3.40 °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

J4J0381

Project Requested Certification(s):

Certificate ID	Agency
Microbac Laboratories, Inc. - Central Pennsylvania	
22-00578	Pennsylvania
11650	NYS DOH ELAP
PA019	New Jersey
M-PA1401	Massachusetts
334	Maryland
DE-PA	Delaware

Report Comments:

In accordance with NYSDOH-ELAP and NELAP, 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:

Jennifer Walker
General Manager

Go Green:

Contact your project manager to set up email reporting and invoicing options.

For any feedback concerning our services, please contact your Project Manager listed above at 607-753-3403. You may also contact Trevor Boyce President, at president@microbac.com.

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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:											
Name: Town Of Vestal															
Address: 701 Vestal PKWY, West Vestal, NY 13850-1363															
Contact: Scott Groats															
Phone: 607-748-7574 Ext: 357															
Project: Quarterly															
Quote ID: PO#:															
Rush TAT Bus. Days: <2 2-5 5-7 7-10 Date Req.:															
Carbon Copy: Yes															
Email Results: Yes															
Fax Results: Yes															
Sample Information															
Description/Location	Date	Time	Initial	Matrix Type	Number of Containers for Analysis Requested			Analysis Requested			Receiving Info (Lab Use Only)				
1 1-2A Raw	10-28-14	1040	DJB	DW G	2	524.2	Glass	40	HCL	Accepted?	YES	NO			
2 1-2A Finished	10-28-14	1045	↓	DW G	2		Glass	40		Container Material					
3 1-3 Raw	10-28-14	1050		DW G	2					Container Size (in Mil)					
4 1-3 Finished	10-28-14	1055		DW G	2					Preservative					
5 4-2 Raw	Well Broken No sample			DW G	2					Comments/Field Data					
6 4-2 Finished	Well Broken No sample			DW G	2										
7 Trip Blank	10-24-14	1130	DJB	DW G	1										
8															
Print Name and Company				Signature				Date/Time				Comments			
Sampled: Deron Biechele/Microbac Cortland NY															
Received: Jennifer M. Walter				Jennifer Walter				10/28/14 14:15							
Received:															
Received:															

J4J0381

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

J4K0175

Project Name: DO NOT SEND TO SAYRE

TOWN OF VESTAL

Bill Peltz
701 Vestal Parkway West
Vestal, NY 13850-1363

Project / PO Number: N/A
Received: 11/11/2014 14:08
Reported: 11/19/2014 16:55

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Lab Sample ID: J4K0175-01
Sample Type: Grab

Collection Date: 11/11/14
Collection Time: 11:30
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2								
1,1,1,2-Tetrachloroethane	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
1,1,1-Trichloroethane	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
1,1,2,2-Tetrachloroethane	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
1,1,2-Trichloroethane	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
1,1-Dichloroethane	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
1,1-Dichloroethene	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
1,1-Dichloropropene	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
1,2,3-Trichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
1,2,3-Trichloropropane	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
1,2,4-Trichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
1,2,4-Trimethylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
1,2-Dichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
1,2-Dichloroethane	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
1,2-Dichloropropane	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
1,3,5-Trimethylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
1,3-Dichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
1,3-Dichloropropane	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
1,4-Dichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
2,2-Dichloropropane	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
2-Chlorotoluene	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
4-Chlorotoluene	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
4-Isopropyltoluene	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
Benzene	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
Bromobenzene	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
Bromochloromethane	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
Bromomethane	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
Carbon tetrachloride	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
Chlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
Chloroethane	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
Chloromethane	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
cis-1,2-Dichloroethene	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
cis-1,3-Dichloropropene	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
Cumene	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
Dibromomethane	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
Dichlorodifluoromethane	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4K0175

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Lab Sample ID: J4K0175-01
Sample Type: Grab

Collection Date: 11/11/14
Collection Time: 11:30
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Ethylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
Hexachlorobutadiene	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
m,p-Xylene	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
Methylene chloride	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
MTBE	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
n-Butylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
n-Propylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
o-Xylene	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
sec-Butylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
Styrene	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
tert-Butylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
Tetrachloroethene	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
Toluene	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
trans-1,2-Dichloroethene	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
trans-1,3-Dichloropropene	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
Trichloroethene	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
Trichlorofluoromethane	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
Vinyl chloride	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
Xylenes, Total	< 0.0005		0.0005	mg/L		11/14/14 1603	11/14/14 1603	DN-
1,2-Dichlorobenzene-d4	103		70-130	% Rec		11/14/14 1603	11/14/14 1603	DN-
4-Bromofluorobenzene	103		70-130	% Rec		11/14/14 1603	11/14/14 1603	DN-



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4K0175

Analytical Testing Parameters

Client Sample ID: 1-2A Finished
Lab Sample ID: J4K0175-02
Sample Type: Grab

Collection Date: 11/11/14
Collection Time: 11:35
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2								
1,1,1,2-Tetrachloroethane	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
1,1,1-Trichloroethane	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
1,1,2,2-Tetrachloroethane	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
1,1,2-Trichloroethane	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
1,1-Dichloroethane	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
1,1-Dichloroethene	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
1,1-Dichloropropene	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
1,2,3-Trichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
1,2,3-Trichloropropane	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
1,2,4-Trichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
1,2,4-Trimethylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
1,2-Dichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
1,2-Dichloroethane	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
1,2-Dichloropropane	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
1,3,5-Trimethylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
1,3-Dichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
1,3-Dichloropropane	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
1,4-Dichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
2,2-Dichloropropane	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
2-Chlorotoluene	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
4-Chlorotoluene	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
4-Isopropyltoluene	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
Benzene	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
Bromobenzene	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
Bromochloromethane	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
Bromomethane	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
Carbon tetrachloride	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
Chlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
Chloroethane	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
Chloromethane	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
cis-1,2-Dichloroethene	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
cis-1,3-Dichloropropene	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
Cumene	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
Dibromomethane	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
Dichlorodifluoromethane	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
Ethylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
Hexachlorobutadiene	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
m,p-Xylene	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
Methylene chloride	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
MTBE	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-

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CERTIFICATE OF ANALYSIS

J4K0175

Analytical Testing Parameters

Client Sample ID: 1-2A Finished
Lab Sample ID: J4K0175-02
Sample Type: Grab

Collection Date: 11/11/14
Collection Time: 11:35
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Naphthalene	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
n-Butylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
n-Propylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
o-Xylene	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
sec-Butylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
Styrene	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
tert-Butylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
Tetrachloroethene	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
Toluene	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
trans-1,2-Dichloroethene	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
trans-1,3-Dichloropropene	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
Trichloroethene	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
Trichlorofluoromethane	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
Vinyl chloride	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
Xylenes, Total	< 0.0005		0.0005	mg/L		11/14/14 1627	11/14/14 1627	DN-
1,2-Dichlorobenzene-d4	107		70-130	% Rec		11/14/14 1627	11/14/14 1627	DN-
4-Bromofluorobenzene	102		70-130	% Rec		11/14/14 1627	11/14/14 1627	DN-



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4K0175

Analytical Testing Parameters

Client Sample ID: 1-3 Raw
Lab Sample ID: J4K0175-03
Sample Type: Grab

Collection Date: 11/11/14
Collection Time: 11:45
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2								
1,1,1,2-Tetrachloroethane	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
1,1,1-Trichloroethane	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
1,1,2,2-Tetrachloroethane	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
1,1,2-Trichloroethane	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
1,1-Dichloroethane	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
1,1-Dichloroethene	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
1,1-Dichloropropene	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
1,2,3-Trichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
1,2,3-Trichloropropane	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
1,2,4-Trichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
1,2,4-Trimethylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
1,2-Dichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
1,2-Dichloroethane	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
1,2-Dichloropropane	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
1,3,5-Trimethylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
1,3-Dichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
1,3-Dichloropropane	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
1,4-Dichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
2,2-Dichloropropane	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
2-Chlorotoluene	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
4-Chlorotoluene	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
4-Isopropyltoluene	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
Benzene	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
Bromobenzene	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
Bromochloromethane	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
Bromomethane	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
Carbon tetrachloride	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
Chlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
Chloroethane	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
Chloromethane	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
cis-1,2-Dichloroethene	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
cis-1,3-Dichloropropene	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
Cumene	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
Dibromomethane	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
Dichlorodifluoromethane	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
Ethylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
Hexachlorobutadiene	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
m,p-Xylene	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
Methylene chloride	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
MTBE	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4K0175

Analytical Testing Parameters

Client Sample ID: 1-3 Raw
Lab Sample ID: J4K0175-03
Sample Type: Grab

Collection Date: 11/11/14
Collection Time: 11:45
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Naphthalene	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
n-Butylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
n-Propylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
o-Xylene	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
sec-Butylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
Styrene	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
tert-Butylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
Tetrachloroethene	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
Toluene	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
trans-1,2-Dichloroethene	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
trans-1,3-Dichloropropene	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
Trichloroethene	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
Trichlorofluoromethane	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
Vinyl chloride	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
Xylenes, Total	< 0.0005		0.0005	mg/L		11/14/14 1651	11/14/14 1651	DN-
1,2-Dichlorobenzene-d4	106		70-130	% Rec		11/14/14 1651	11/14/14 1651	DN-
4-Bromofluorobenzene	100		70-130	% Rec		11/14/14 1651	11/14/14 1651	DN-



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4K0175

Analytical Testing Parameters

Client Sample ID: 1-3 Finished
Lab Sample ID: J4K0175-04
Sample Type: Grab

Collection Date: 11/11/14
Collection Time: 11:40
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2								
1,1,1,2-Tetrachloroethane	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
1,1,1-Trichloroethane	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
1,1,2,2-Tetrachloroethane	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
1,1,2-Trichloroethane	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
1,1-Dichloroethane	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
1,1-Dichloroethene	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
1,1-Dichloropropene	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
1,2,3-Trichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
1,2,3-Trichloropropane	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
1,2,4-Trichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
1,2,4-Trimethylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
1,2-Dichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
1,2-Dichloroethane	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
1,2-Dichloropropane	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
1,3,5-Trimethylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
1,3-Dichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
1,3-Dichloropropane	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
1,4-Dichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
2,2-Dichloropropane	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
2-Chlorotoluene	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
4-Chlorotoluene	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
4-Isopropyltoluene	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
Benzene	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
Bromobenzene	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
Bromochloromethane	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
Bromomethane	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
Carbon tetrachloride	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
Chlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
Chloroethane	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
Chloromethane	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
cis-1,2-Dichloroethene	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
cis-1,3-Dichloropropene	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
Cumene	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
Dibromomethane	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
Dichlorodifluoromethane	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
Ethylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
Hexachlorobutadiene	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
m,p-Xylene	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
Methylene chloride	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
MTBE	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-

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CERTIFICATE OF ANALYSIS

J4K0175

Analytical Testing Parameters

Client Sample ID: 1-3 Finished
Lab Sample ID: J4K0175-04
Sample Type: Grab

Collection Date: 11/11/14
Collection Time: 11:40
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Naphthalene	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
n-Butylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
n-Propylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
o-Xylene	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
sec-Butylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
Styrene	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
tert-Butylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
Tetrachloroethene	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
Toluene	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
trans-1,2-Dichloroethene	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
trans-1,3-Dichloropropene	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
Trichloroethene	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
Trichlorofluoromethane	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
Vinyl chloride	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
Xylenes, Total	< 0.0005		0.0005	mg/L		11/14/14 1714	11/14/14 1714	DN-
1,2-Dichlorobenzene-d4	102		70-130	% Rec		11/14/14 1714	11/14/14 1714	DN-
4-Bromofluorobenzene	102		70-130	% Rec		11/14/14 1714	11/14/14 1714	DN-



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4K0175

Analytical Testing Parameters

Client Sample ID: 4-2 Raw
Lab Sample ID: J4K0175-05
Sample Type: Grab

Collection Date: 11/11/14
Collection Time: 10:55
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2								
1,1,1,2-Tetrachloroethane	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
1,1,1-Trichloroethane	0.0016		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
1,1,2,2-Tetrachloroethane	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
1,1,2-Trichloroethane	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
1,1-Dichloroethane	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
1,1-Dichloroethene	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
1,1-Dichloropropene	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
1,2,3-Trichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
1,2,3-Trichloropropane	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
1,2,4-Trichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
1,2,4-Trimethylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
1,2-Dichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
1,2-Dichloroethane	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
1,2-Dichloropropane	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
1,3,5-Trimethylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
1,3-Dichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
1,3-Dichloropropane	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
1,4-Dichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
2,2-Dichloropropane	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
2-Chlorotoluene	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
4-Chlorotoluene	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
4-Isopropyltoluene	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
Benzene	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
Bromobenzene	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
Bromochloromethane	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
Bromomethane	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
Carbon tetrachloride	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
Chlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
Chloroethane	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
Chloromethane	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
cis-1,2-Dichloroethene	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
cis-1,3-Dichloropropene	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
Cumene	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
Dibromomethane	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
Dichlorodifluoromethane	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
Ethylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
Hexachlorobutadiene	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
m,p-Xylene	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
Methylene chloride	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
MTBE	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-

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CERTIFICATE OF ANALYSIS

J4K0175

Analytical Testing Parameters

Client Sample ID: 4-2 Raw
Lab Sample ID: J4K0175-05
Sample Type: Grab

Collection Date: 11/11/14
Collection Time: 10:55
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Naphthalene	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
n-Butylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
n-Propylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
o-Xylene	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
sec-Butylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
Styrene	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
tert-Butylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
Tetrachloroethene	0.0009		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
Toluene	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
trans-1,2-Dichloroethene	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
trans-1,3-Dichloropropene	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
Trichloroethene	0.0017		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
Trichlorofluoromethane	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
Vinyl chloride	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
Xylenes, Total	< 0.0005		0.0005	mg/L		11/14/14 1738	11/14/14 1738	DN-
1,2-Dichlorobenzene-d4	105		70-130	% Rec		11/14/14 1738	11/14/14 1738	DN-
4-Bromofluorobenzene	101		70-130	% Rec		11/14/14 1738	11/14/14 1738	DN-



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CERTIFICATE OF ANALYSIS

J4K0175

Analytical Testing Parameters

Client Sample ID: 4-2 Finished
Lab Sample ID: J4K0175-06
Sample Type: Grab

Collection Date: 11/11/14
Collection Time: 11:00
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2								
1,1,1,2-Tetrachloroethane	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
1,1,1-Trichloroethane	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
1,1,2,2-Tetrachloroethane	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
1,1,2-Trichloroethane	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
1,1-Dichloroethane	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
1,1-Dichloroethene	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
1,1-Dichloropropene	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
1,2,3-Trichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
1,2,3-Trichloropropane	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
1,2,4-Trichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
1,2,4-Trimethylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
1,2-Dichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
1,2-Dichloroethane	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
1,2-Dichloropropane	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
1,3,5-Trimethylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
1,3-Dichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
1,3-Dichloropropane	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
1,4-Dichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
2,2-Dichloropropane	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
2-Chlorotoluene	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
4-Chlorotoluene	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
4-Isopropyltoluene	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
Benzene	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
Bromobenzene	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
Bromochloromethane	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
Bromomethane	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
Carbon tetrachloride	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
Chlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
Chloroethane	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
Chloromethane	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
cis-1,2-Dichloroethene	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
cis-1,3-Dichloropropene	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
Cumene	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
Dibromomethane	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
Dichlorodifluoromethane	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
Ethylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
Hexachlorobutadiene	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
m,p-Xylene	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
Methylene chloride	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
MTBE	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-

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CERTIFICATE OF ANALYSIS

J4K0175

Analytical Testing Parameters

Client Sample ID: 4-2 Finished
Lab Sample ID: J4K0175-06
Sample Type: Grab

Collection Date: 11/11/14
Collection Time: 11:00
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Naphthalene	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
n-Butylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
n-Propylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
o-Xylene	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
sec-Butylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
Styrene	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
tert-Butylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
Tetrachloroethene	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
Toluene	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
trans-1,2-Dichloroethene	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
trans-1,3-Dichloropropene	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
Trichloroethene	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
Trichlorofluoromethane	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
Vinyl chloride	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
Xylenes, Total	< 0.0005		0.0005	mg/L		11/14/14 1802	11/14/14 1802	DN-
1,2-Dichlorobenzene-d4	107		70-130	% Rec		11/14/14 1802	11/14/14 1802	DN-
4-Bromofluorobenzene	101		70-130	% Rec		11/14/14 1802	11/14/14 1802	DN-



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4K0175

Analytical Testing Parameters

Client Sample ID: Trip Blank
Lab Sample ID: J4K0175-07
Sample Type: Trip Blank

Collection Date: 11/10/14
Collection Time: 15:25
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2								
1,1,1,2-Tetrachloroethane	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
1,1,1-Trichloroethane	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
1,1,2,2-Tetrachloroethane	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
1,1,2-Trichloroethane	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
1,1-Dichloroethane	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
1,1-Dichloroethene	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
1,1-Dichloropropene	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
1,2,3-Trichlorobenzene	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
1,2,3-Trichloropropane	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
1,2,4-Trichlorobenzene	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
1,2,4-Trimethylbenzene	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
1,2-Dichlorobenzene	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
1,2-Dichloroethane	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
1,2-Dichloropropane	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
1,3,5-Trimethylbenzene	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
1,3-Dichlorobenzene	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
1,3-Dichloropropane	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
1,4-Dichlorobenzene	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
2,2-Dichloropropane	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
2-Chlorotoluene	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
4-Chlorotoluene	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
4-Isopropyltoluene	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
Benzene	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
Bromobenzene	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
Bromochloromethane	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
Bromomethane	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
Carbon tetrachloride	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
Chlorobenzene	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
Chloroethane	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
Chloromethane	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
cis-1,2-Dichloroethene	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
cis-1,3-Dichloropropene	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
Cumene	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
Dibromomethane	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
Dichlorodifluoromethane	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
Ethylbenzene	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
Hexachlorobutadiene	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
m,p-Xylene	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
Methylene chloride	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
MTBE	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-

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CERTIFICATE OF ANALYSIS

J4K0175

Analytical Testing Parameters

Client Sample ID: Trip Blank
Lab Sample ID: J4K0175-07
Sample Type: Trip Blank

Collection Date: 11/10/14
Collection Time: 15:25
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Naphthalene	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
n-Butylbenzene	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
n-Propylbenzene	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
o-Xylene	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
sec-Butylbenzene	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
Styrene	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
tert-Butylbenzene	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
Tetrachloroethene	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
Toluene	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
trans-1,2-Dichloroethene	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
trans-1,3-Dichloropropene	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
Trichloroethene	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
Trichlorofluoromethane	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
Vinyl chloride	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
Xylenes, Total	< 0.0005		0.0005	mg/L		11/17/14 1418	11/17/14 1418	DN-
1,2-Dichlorobenzene-d4	103		70-130	% Rec		11/17/14 1418	11/17/14 1418	DN-
4-Bromofluorobenzene	107		70-130	% Rec		11/17/14 1418	11/17/14 1418	DN-



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4K0175

Analytical Testing Parameters

Client Sample ID: 4-3 Raw
Lab Sample ID: J4K0175-08
Sample Type: Grab

Collection Date: 11/11/14
Collection Time: 11:05
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2								
1,1,1,2-Tetrachloroethane	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
1,1,1-Trichloroethane	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
1,1,2,2-Tetrachloroethane	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
1,1,2-Trichloroethane	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
1,1-Dichloroethane	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
1,1-Dichloroethene	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
1,1-Dichloropropene	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
1,2,3-Trichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
1,2,3-Trichloropropane	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
1,2,4-Trichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
1,2,4-Trimethylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
1,2-Dichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
1,2-Dichloroethane	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
1,2-Dichloropropane	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
1,3,5-Trimethylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
1,3-Dichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
1,3-Dichloropropane	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
1,4-Dichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
2,2-Dichloropropane	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
2-Chlorotoluene	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
4-Chlorotoluene	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
4-Isopropyltoluene	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
Benzene	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
Bromobenzene	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
Bromochloromethane	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
Bromomethane	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
Carbon tetrachloride	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
Chlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
Chloroethane	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
Chloromethane	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
cis-1,2-Dichloroethene	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
cis-1,3-Dichloropropene	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
Cumene	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
Dibromomethane	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
Dichlorodifluoromethane	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
Ethylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
Hexachlorobutadiene	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
m,p-Xylene	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
Methylene chloride	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
MTBE	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-

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CERTIFICATE OF ANALYSIS

J4K0175

Analytical Testing Parameters

Client Sample ID: 4-3 Raw
Lab Sample ID: J4K0175-08
Sample Type: Grab

Collection Date: 11/11/14
Collection Time: 11:05
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Naphthalene	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
n-Butylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
n-Propylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
o-Xylene	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
sec-Butylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
Styrene	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
tert-Butylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
Tetrachloroethene	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
Toluene	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
trans-1,2-Dichloroethene	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
trans-1,3-Dichloropropene	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
Trichloroethene	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
Trichlorofluoromethane	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
Vinyl chloride	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
Xylenes, Total	< 0.0005		0.0005	mg/L		11/14/14 1826	11/14/14 1826	DN-
1,2-Dichlorobenzene-d4	108		70-130	% Rec		11/14/14 1826	11/14/14 1826	DN-
4-Bromofluorobenzene	105		70-130	% Rec		11/14/14 1826	11/14/14 1826	DN-



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CERTIFICATE OF ANALYSIS

J4K0175

Analytical Testing Parameters

Client Sample ID: 4-4 Raw
Lab Sample ID: J4K0175-09
Sample Type: Grab

Collection Date: 11/11/14
Collection Time: 11:11
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2								
1,1,1,2-Tetrachloroethane	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
1,1,1-Trichloroethane	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
1,1,2,2-Tetrachloroethane	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
1,1,2-Trichloroethane	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
1,1-Dichloroethane	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
1,1-Dichloroethene	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
1,1-Dichloropropene	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
1,2,3-Trichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
1,2,3-Trichloropropane	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
1,2,4-Trichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
1,2,4-Trimethylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
1,2-Dichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
1,2-Dichloroethane	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
1,2-Dichloropropane	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
1,3,5-Trimethylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
1,3-Dichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
1,3-Dichloropropane	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
1,4-Dichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
2,2-Dichloropropane	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
2-Chlorotoluene	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
4-Chlorotoluene	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
4-Isopropyltoluene	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
Benzene	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
Bromobenzene	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
Bromochloromethane	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
Bromomethane	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
Carbon tetrachloride	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
Chlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
Chloroethane	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
Chloromethane	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
cis-1,2-Dichloroethene	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
cis-1,3-Dichloropropene	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
Cumene	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
Dibromomethane	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
Dichlorodifluoromethane	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
Ethylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
Hexachlorobutadiene	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
m,p-Xylene	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
Methylene chloride	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
MTBE	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-

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CERTIFICATE OF ANALYSIS

J4K0175

Analytical Testing Parameters

Client Sample ID: 4-4 Raw
Lab Sample ID: J4K0175-09
Sample Type: Grab

Collection Date: 11/11/14
Collection Time: 11:11
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Naphthalene	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
n-Butylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
n-Propylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
o-Xylene	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
sec-Butylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
Styrene	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
tert-Butylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
Tetrachloroethene	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
Toluene	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
trans-1,2-Dichloroethene	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
trans-1,3-Dichloropropene	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
Trichloroethene	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
Trichlorofluoromethane	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
Vinyl chloride	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
Xylenes, Total	< 0.0005		0.0005	mg/L		11/14/14 1849	11/14/14 1849	DN-
1,2-Dichlorobenzene-d4	105		70-130	% Rec		11/14/14 1849	11/14/14 1849	DN-
4-Bromofluorobenzene	101		70-130	% Rec		11/14/14 1849	11/14/14 1849	DN-



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CERTIFICATE OF ANALYSIS

J4K0175

Analytical Testing Parameters

Client Sample ID: 5-1 Raw
Lab Sample ID: J4K0175-10
Sample Type: Grab

Collection Date: 11/11/14
Collection Time: 09:30
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2								
1,1,1,2-Tetrachloroethane	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
1,1,1-Trichloroethane	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
1,1,2,2-Tetrachloroethane	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
1,1,2-Trichloroethane	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
1,1-Dichloroethane	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
1,1-Dichloroethene	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
1,1-Dichloropropene	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
1,2,3-Trichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
1,2,3-Trichloropropane	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
1,2,4-Trichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
1,2,4-Trimethylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
1,2-Dichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
1,2-Dichloroethane	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
1,2-Dichloropropane	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
1,3,5-Trimethylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
1,3-Dichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
1,3-Dichloropropane	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
1,4-Dichlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
2,2-Dichloropropane	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
2-Chlorotoluene	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
4-Chlorotoluene	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
4-Isopropyltoluene	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
Benzene	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
Bromobenzene	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
Bromochloromethane	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
Bromomethane	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
Carbon tetrachloride	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
Chlorobenzene	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
Chloroethane	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
Chloromethane	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
cis-1,2-Dichloroethene	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
cis-1,3-Dichloropropene	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
Cumene	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
Dibromomethane	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
Dichlorodifluoromethane	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
Ethylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
Hexachlorobutadiene	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
m,p-Xylene	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
Methylene chloride	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
MTBE	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-

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CERTIFICATE OF ANALYSIS

J4K0175

Analytical Testing Parameters

Client Sample ID: 5-1 Raw
Lab Sample ID: J4K0175-10
Sample Type: Grab

Collection Date: 11/11/14
Collection Time: 09:30
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Naphthalene	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
n-Butylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
n-Propylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
o-Xylene	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
sec-Butylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
Styrene	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
tert-Butylbenzene	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
Tetrachloroethene	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
Toluene	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
trans-1,2-Dichloroethene	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
trans-1,3-Dichloropropene	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
Trichloroethene	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
Trichlorofluoromethane	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
Vinyl chloride	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
Xylenes, Total	< 0.0005		0.0005	mg/L		11/14/14 1913	11/14/14 1913	DN-
1,2-Dichlorobenzene-d4	104		70-130	% Rec		11/14/14 1913	11/14/14 1913	DN-
4-Bromofluorobenzene	100		70-130	% Rec		11/14/14 1913	11/14/14 1913	DN-

Definitions

MCL: Maximum Contamination Level
PQL: Practical Quantitation Limit

Cooler Receipt Log:

Cooler ID:	Default Cooler	Received On Ice (or not required):	Yes
Cooler Temp:	4.60 °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

J4K0175

Report Comments:

In accordance with NYSDOH-ELAP and NELAP, 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:

Jennifer Walker
General Manager

Go Green:

Contact your project manager to set up email reporting and invoicing options.

For any feedback concerning our services, please contact your Project Manager listed above at 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 #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:	4.5	☒ YES
Phone:	607-748-7574 Ext: 357								Cooler Seal:	☒ YES	☐ NO
Project:	Quarterly								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 Ml)		
Fax Results: Yes									Preservative		
Sample Information			Number of Containers for Analysis Requested			Comments/Field Data					
Description/Location	Date	Time	Initial	Matrix	Type						
1 1-2A Raw	11-11-10	1130	DJB	DW	DW	2					
				G	G						
2 1-2A Finished		1135		DW	DW	2					
				G	G						
3 1-3 Raw		1145		DW	DW	2					
				G	G						
4 1-3 Finished		1140		DW	DW	2					
				G	G						
5 4-2 Raw	11-11-10	1055		DW	DW	2					
				G	G						
6 4-2 Finished	11-11-10	1100		DW	DW	2					
				G	G						
7 Trip Blank	11-10-14	1525		DW	DW	1					
				G	G						
8											

J4K0175

Print Name and Company	Signature	Date/Time	Comments
Sampled: Deron Biechele/Microbac Cortland NY		11-11-14 1408	
Received: Maureen Mckaychime		11/11/14 1408	
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.

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							Cooler:	YES	NO					
	Vestal, NY 13850-1363							Sample Temp:	4.6						
Contact:	Scott Groats							Cooler Seal:	YES	NO					
Phone:	607-748-7574 Ext: 357							Pickup:	YES	NO					
Project:	Quarterly							Dropoff:	C	W					
Quote ID:	PO#:							Accepted?	YES	NO					
Rush TAT Bus. Days: <2 2-5 5-7 7-10				Date Req.:											
Carbon Copy: Yes															
Email Results: Yes															
Fax Results: Yes															
Sample Information								Number of Containers for Analysis Requested							
Description/Location	Date	Time	Initial	Matrix	Type										
1 4-3 Raw	11-11-14	1105	DSB	DW	DW	2									
2 4-4 Raw	11-11-14	1111	↓	DW	G	2									
3 5-1 Raw	11-11-14	0930	↓	DW	G	2									
4															
5															
6															
7															
8															
Print Name and Company								Signature				Date/Time			
Sampled: Deron Biechele/Microbac Cortland NY								[Signature]				11-11-14 1408			
Received: Maureen Moraychuk								[Signature]				11/11/14 1408			
Received:															
Received:															

J4K0175

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.

Page 23 of 23



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4L0230

Town of Vestal

Project Name: Quarterly

Bill Peltz
701 Vestal Parkway West
Vestal, NY 13850-1363

Project / PO Number: N/A
Received: 12/18/2014 12:31
Reported: 12/31/2014 19:53

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Lab Sample ID: J4L0230-01
Sample Type: Grab

Collection Date: 12/18/14
Collection Time: 09:13
Collected By: DJB-Lab

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2								
1,1,1,2-Tetrachloroethane	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
1,1,1-Trichloroethane	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
1,1,2,2-Tetrachloroethane	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
1,1,2-Trichloroethane	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
1,1-Dichloroethane	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
1,1-Dichloroethene	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
1,1-Dichloropropene	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
1,2,3-Trichlorobenzene	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
1,2,3-Trichloropropane	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
1,2,4-Trichlorobenzene	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
1,2,4-Trimethylbenzene	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
1,2-Dichlorobenzene	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
1,2-Dichloroethane	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
1,2-Dichloropropane	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
1,3,5-Trimethylbenzene	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
1,3-Dichlorobenzene	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
1,3-Dichloropropane	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
1,4-Dichlorobenzene	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
2,2-Dichloropropane	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
2-Chlorotoluene	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
4-Chlorotoluene	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
4-Isopropyltoluene	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
Benzene	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
Bromobenzene	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
Bromochloromethane	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
Bromomethane	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
Carbon tetrachloride	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
Chlorobenzene	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
Chloroethane	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
Chloromethane	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
cis-1,2-Dichloroethene	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
cis-1,3-Dichloropropene	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
Cumene	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
Dibromomethane	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
Dichlorodifluoromethane	< 0.0005		0.0005	mg/L	CH	12/29/14 1456	12/29/14 1456	DN-

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CERTIFICATE OF ANALYSIS

J4L0230

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Lab Sample ID: J4L0230-01
Sample Type: Grab

Collection Date: 12/18/14
Collection Time: 09:13
Collected By: DJB-Lab

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Ethylbenzene	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
Hexachlorobutadiene	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
m,p-Xylene	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
Methylene chloride	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
MTBE	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
Naphthalene	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
n-Butylbenzene	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
n-Propylbenzene	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
o-Xylene	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
sec-Butylbenzene	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
Styrene	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
tert-Butylbenzene	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
Tetrachloroethene	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
Toluene	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
trans-1,2-Dichloroethene	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
trans-1,3-Dichloropropene	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
Trichloroethene	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
Trichlorofluoromethane	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
Vinyl chloride	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
Xylenes, Total	< 0.0005		0.0005	mg/L		12/29/14 1456	12/29/14 1456	DN-
1,2-Dichlorobenzene-d4	114		70-130	% Rec		12/29/14 1456	12/29/14 1456	DN-
4-Bromofluorobenzene	105		70-130	% Rec		12/29/14 1456	12/29/14 1456	DN-

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4L0230

Analytical Testing Parameters

Client Sample ID: 1-2A Finished
Lab Sample ID: J4L0230-02
Sample Type: Grab

Collection Date: 12/18/14
Collection Time: 09:31
Collected By: DJB-Lab

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2								
1,1,1,2-Tetrachloroethane	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
1,1,1-Trichloroethane	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
1,1,2,2-Tetrachloroethane	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
1,1,2-Trichloroethane	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
1,1-Dichloroethane	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
1,1-Dichloroethene	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
1,1-Dichloropropene	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
1,2,3-Trichlorobenzene	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
1,2,3-Trichloropropane	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
1,2,4-Trichlorobenzene	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
1,2,4-Trimethylbenzene	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
1,2-Dichlorobenzene	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
1,2-Dichloroethane	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
1,2-Dichloropropane	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
1,3,5-Trimethylbenzene	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
1,3-Dichlorobenzene	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
1,3-Dichloropropane	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
1,4-Dichlorobenzene	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
2,2-Dichloropropane	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
2-Chlorotoluene	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
4-Chlorotoluene	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
4-Isopropyltoluene	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
Benzene	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
Bromobenzene	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
Bromochloromethane	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
Bromomethane	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
Carbon tetrachloride	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
Chlorobenzene	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
Chloroethane	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
Chloromethane	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
cis-1,2-Dichloroethene	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
cis-1,3-Dichloropropene	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
Cumene	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
Dibromomethane	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
Dichlorodifluoromethane	< 0.0005		0.0005	mg/L	CH	12/29/14 1520	12/29/14 1520	DN-
Ethylbenzene	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
Hexachlorobutadiene	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
m,p-Xylene	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
Methylene chloride	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
MTBE	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4L0230

Analytical Testing Parameters

Client Sample ID: 1-2A Finished
Lab Sample ID: J4L0230-02
Sample Type: Grab

Collection Date: 12/18/14
Collection Time: 09:31
Collected By: DJB-Lab

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Naphthalene	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
n-Butylbenzene	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
n-Propylbenzene	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
o-Xylene	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
sec-Butylbenzene	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
Styrene	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
tert-Butylbenzene	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
Tetrachloroethene	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
Toluene	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
trans-1,2-Dichloroethene	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
trans-1,3-Dichloropropene	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
Trichloroethene	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
Trichlorofluoromethane	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
Vinyl chloride	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
Xylenes, Total	< 0.0005		0.0005	mg/L		12/29/14 1520	12/29/14 1520	DN-
1,2-Dichlorobenzene-d4	113		70-130	% Rec		12/29/14 1520	12/29/14 1520	DN-
4-Bromofluorobenzene	109		70-130	% Rec		12/29/14 1520	12/29/14 1520	DN-

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4L0230

Analytical Testing Parameters

Client Sample ID: 1-3 Raw
Lab Sample ID: J4L0230-03
Sample Type: Grab

Collection Date: 12/18/14
Collection Time: 09:42
Collected By: DJB-Lab

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2								
1,1,1,2-Tetrachloroethane	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
1,1,1-Trichloroethane	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
1,1,2,2-Tetrachloroethane	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
1,1,2-Trichloroethane	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
1,1-Dichloroethane	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
1,1-Dichloroethene	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
1,1-Dichloropropene	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
1,2,3-Trichlorobenzene	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
1,2,3-Trichloropropane	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
1,2,4-Trichlorobenzene	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
1,2,4-Trimethylbenzene	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
1,2-Dichlorobenzene	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
1,2-Dichloroethane	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
1,2-Dichloropropane	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
1,3,5-Trimethylbenzene	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
1,3-Dichlorobenzene	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
1,3-Dichloropropane	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
1,4-Dichlorobenzene	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
2,2-Dichloropropane	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
2-Chlorotoluene	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
4-Chlorotoluene	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
4-Isopropyltoluene	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
Benzene	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
Bromobenzene	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
Bromochloromethane	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
Bromomethane	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
Carbon tetrachloride	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
Chlorobenzene	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
Chloroethane	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
Chloromethane	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
cis-1,2-Dichloroethene	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
cis-1,3-Dichloropropene	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
Cumene	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
Dibromomethane	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
Dichlorodifluoromethane	< 0.0005		0.0005	mg/L	CH	12/29/14 1544	12/29/14 1544	DN-
Ethylbenzene	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
Hexachlorobutadiene	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
m,p-Xylene	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
Methylene chloride	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
MTBE	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-

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CERTIFICATE OF ANALYSIS

J4L0230

Analytical Testing Parameters

Client Sample ID: 1-3 Raw
Lab Sample ID: J4L0230-03
Sample Type: Grab

Collection Date: 12/18/14
Collection Time: 09:42
Collected By: DJB-Lab

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Naphthalene	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
n-Butylbenzene	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
n-Propylbenzene	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
o-Xylene	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
sec-Butylbenzene	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
Styrene	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
tert-Butylbenzene	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
Tetrachloroethene	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
Toluene	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
trans-1,2-Dichloroethene	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
trans-1,3-Dichloropropene	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
Trichloroethene	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
Trichlorofluoromethane	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
Vinyl chloride	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
Xylenes, Total	< 0.0005		0.0005	mg/L		12/29/14 1544	12/29/14 1544	DN-
1,2-Dichlorobenzene-d4	114		70-130	% Rec		12/29/14 1544	12/29/14 1544	DN-
4-Bromofluorobenzene	109		70-130	% Rec		12/29/14 1544	12/29/14 1544	DN-

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CERTIFICATE OF ANALYSIS

J4L0230

Analytical Testing Parameters

Client Sample ID: 1-3 Finished
Lab Sample ID: J4L0230-04
Sample Type: Grab

Collection Date: 12/18/14
Collection Time: 09:49
Collected By: DJB-Lab

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2								
1,1,1,2-Tetrachloroethane	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
1,1,1-Trichloroethane	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
1,1,2,2-Tetrachloroethane	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
1,1,2-Trichloroethane	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
1,1-Dichloroethane	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
1,1-Dichloroethene	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
1,1-Dichloropropene	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
1,2,3-Trichlorobenzene	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
1,2,3-Trichloropropane	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
1,2,4-Trichlorobenzene	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
1,2,4-Trimethylbenzene	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
1,2-Dichlorobenzene	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
1,2-Dichloroethane	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
1,2-Dichloropropane	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
1,3,5-Trimethylbenzene	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
1,3-Dichlorobenzene	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
1,3-Dichloropropane	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
1,4-Dichlorobenzene	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
2,2-Dichloropropane	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
2-Chlorotoluene	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
4-Chlorotoluene	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
4-Isopropyltoluene	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
Benzene	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
Bromobenzene	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
Bromochloromethane	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
Bromomethane	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
Carbon tetrachloride	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
Chlorobenzene	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
Chloroethane	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
Chloromethane	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
cis-1,2-Dichloroethene	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
cis-1,3-Dichloropropene	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
Cumene	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
Dibromomethane	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
Dichlorodifluoromethane	< 0.0005		0.0005	mg/L	CH	12/29/14 1608	12/29/14 1608	DN-
Ethylbenzene	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
Hexachlorobutadiene	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
m,p-Xylene	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
Methylene chloride	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
MTBE	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4L0230

Analytical Testing Parameters

Client Sample ID: 1-3 Finished
Lab Sample ID: J4L0230-04
Sample Type: Grab

Collection Date: 12/18/14
Collection Time: 09:49
Collected By: DJB-Lab

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Naphthalene	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
n-Butylbenzene	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
n-Propylbenzene	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
o-Xylene	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
sec-Butylbenzene	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
Styrene	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
tert-Butylbenzene	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
Tetrachloroethene	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
Toluene	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
trans-1,2-Dichloroethene	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
trans-1,3-Dichloropropene	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
Trichloroethene	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
Trichlorofluoromethane	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
Vinyl chloride	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
Xylenes, Total	< 0.0005		0.0005	mg/L		12/29/14 1608	12/29/14 1608	DN-
1,2-Dichlorobenzene-d4	112		70-130	% Rec		12/29/14 1608	12/29/14 1608	DN-
4-Bromofluorobenzene	109		70-130	% Rec		12/29/14 1608	12/29/14 1608	DN-



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4L0230

Analytical Testing Parameters

Client Sample ID: 4-2 Raw
Lab Sample ID: J4L0230-05
Sample Type: Grab

Collection Date: 12/18/14
Collection Time: 10:17
Collected By: DJB-Lab

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2								
1,1,1,2-Tetrachloroethane	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
1,1,1-Trichloroethane	0.0011		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
1,1,2,2-Tetrachloroethane	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
1,1,2-Trichloroethane	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
1,1-Dichloroethane	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
1,1-Dichloroethene	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
1,1-Dichloropropene	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
1,2,3-Trichlorobenzene	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
1,2,3-Trichloropropane	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
1,2,4-Trichlorobenzene	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
1,2,4-Trimethylbenzene	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
1,2-Dichlorobenzene	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
1,2-Dichloroethane	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
1,2-Dichloropropane	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
1,3,5-Trimethylbenzene	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
1,3-Dichlorobenzene	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
1,3-Dichloropropane	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
1,4-Dichlorobenzene	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
2,2-Dichloropropane	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
2-Chlorotoluene	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
4-Chlorotoluene	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
4-Isopropyltoluene	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
Benzene	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
Bromobenzene	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
Bromochloromethane	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
Bromomethane	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
Carbon tetrachloride	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
Chlorobenzene	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
Chloroethane	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
Chloromethane	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
cis-1,2-Dichloroethene	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
cis-1,3-Dichloropropene	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
Cumene	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
Dibromomethane	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
Dichlorodifluoromethane	< 0.0005		0.0005	mg/L	CH	12/29/14 1631	12/29/14 1631	DN-
Ethylbenzene	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
Hexachlorobutadiene	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
m,p-Xylene	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
Methylene chloride	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
MTBE	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-

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CERTIFICATE OF ANALYSIS

J4L0230

Analytical Testing Parameters

Client Sample ID: 4-2 Raw
Lab Sample ID: J4L0230-05
Sample Type: Grab

Collection Date: 12/18/14
Collection Time: 10:17
Collected By: DJB-Lab

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Naphthalene	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
n-Butylbenzene	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
n-Propylbenzene	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
o-Xylene	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
sec-Butylbenzene	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
Styrene	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
tert-Butylbenzene	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
Tetrachloroethene	0.0008		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
Toluene	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
trans-1,2-Dichloroethene	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
trans-1,3-Dichloropropene	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
Trichloroethene	0.0015		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
Trichlorofluoromethane	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
Vinyl chloride	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
Xylenes, Total	< 0.0005		0.0005	mg/L		12/29/14 1631	12/29/14 1631	DN-
1,2-Dichlorobenzene-d4	116		70-130	% Rec		12/29/14 1631	12/29/14 1631	DN-
4-Bromofluorobenzene	113		70-130	% Rec		12/29/14 1631	12/29/14 1631	DN-



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4L0230

Analytical Testing Parameters

Client Sample ID: 4-2 Finished
Lab Sample ID: J4L0230-06
Sample Type: Grab

Collection Date: 12/18/14
Collection Time: 10:08
Collected By: DJB-Lab

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2								
1,1,1,2-Tetrachloroethane	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
1,1,1-Trichloroethane	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
1,1,2,2-Tetrachloroethane	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
1,1,2-Trichloroethane	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
1,1-Dichloroethane	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
1,1-Dichloroethene	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
1,1-Dichloropropene	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
1,2,3-Trichlorobenzene	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
1,2,3-Trichloropropane	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
1,2,4-Trichlorobenzene	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
1,2,4-Trimethylbenzene	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
1,2-Dichlorobenzene	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
1,2-Dichloroethane	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
1,2-Dichloropropane	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
1,3,5-Trimethylbenzene	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
1,3-Dichlorobenzene	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
1,3-Dichloropropane	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
1,4-Dichlorobenzene	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
2,2-Dichloropropane	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
2-Chlorotoluene	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
4-Chlorotoluene	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
4-Isopropyltoluene	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
Benzene	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
Bromobenzene	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
Bromochloromethane	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
Bromomethane	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
Carbon tetrachloride	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
Chlorobenzene	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
Chloroethane	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
Chloromethane	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
cis-1,2-Dichloroethene	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
cis-1,3-Dichloropropene	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
Cumene	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
Dibromomethane	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
Dichlorodifluoromethane	< 0.0005		0.0005	mg/L	CH	12/29/14 1655	12/29/14 1655	DN-
Ethylbenzene	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
Hexachlorobutadiene	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
m,p-Xylene	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
Methylene chloride	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
MTBE	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-

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CERTIFICATE OF ANALYSIS

J4L0230

Analytical Testing Parameters

Client Sample ID: 4-2 Finished
Lab Sample ID: J4L0230-06
Sample Type: Grab

Collection Date: 12/18/14
Collection Time: 10:08
Collected By: DJB-Lab

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Naphthalene	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
n-Butylbenzene	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
n-Propylbenzene	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
o-Xylene	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
sec-Butylbenzene	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
Styrene	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
tert-Butylbenzene	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
Tetrachloroethene	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
Toluene	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
trans-1,2-Dichloroethene	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
trans-1,3-Dichloropropene	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
Trichloroethene	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
Trichlorofluoromethane	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
Vinyl chloride	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
Xylenes, Total	< 0.0005		0.0005	mg/L		12/29/14 1655	12/29/14 1655	DN-
1,2-Dichlorobenzene-d4	115		70-130	% Rec		12/29/14 1655	12/29/14 1655	DN-
4-Bromofluorobenzene	108		70-130	% Rec		12/29/14 1655	12/29/14 1655	DN-



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4L0230

Analytical Testing Parameters

Client Sample ID: Trip Blank
Lab Sample ID: J4L0230-07
Sample Type: Trip Blank

Collection Date: 12/17/14
Collection Time: 14:45
Collected By: DJB-Lab

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2								
1,1,1,2-Tetrachloroethane	< 0.0005		0.0005	mg/L	CH, 406	12/30/14 2140	12/30/14 2140	DN-
1,1,1-Trichloroethane	< 0.0005		0.0005	mg/L	406	12/30/14 2140	12/30/14 2140	DN-
1,1,2,2-Tetrachloroethane	< 0.0005		0.0005	mg/L	406	12/30/14 2140	12/30/14 2140	DN-
1,1,2-Trichloroethane	< 0.0005		0.0005	mg/L	406	12/30/14 2140	12/30/14 2140	DN-
1,1-Dichloroethane	< 0.0005		0.0005	mg/L	406	12/30/14 2140	12/30/14 2140	DN-
1,1-Dichloroethene	< 0.0005		0.0005	mg/L	406	12/30/14 2140	12/30/14 2140	DN-
1,1-Dichloropropene	< 0.0005		0.0005	mg/L	406	12/30/14 2140	12/30/14 2140	DN-
1,2,3-Trichlorobenzene	< 0.0005		0.0005	mg/L	CH, 406	12/30/14 2140	12/30/14 2140	DN-
1,2,3-Trichloropropane	< 0.0005		0.0005	mg/L	CH, 406	12/30/14 2140	12/30/14 2140	DN-
1,2,4-Trichlorobenzene	< 0.0005		0.0005	mg/L	CH, 406	12/30/14 2140	12/30/14 2140	DN-
1,2,4-Trimethylbenzene	< 0.0005		0.0005	mg/L	406	12/30/14 2140	12/30/14 2140	DN-
1,2-Dichlorobenzene	< 0.0005		0.0005	mg/L	406	12/30/14 2140	12/30/14 2140	DN-
1,2-Dichloroethane	< 0.0005		0.0005	mg/L	CH, 406	12/30/14 2140	12/30/14 2140	DN-
1,2-Dichloropropane	< 0.0005		0.0005	mg/L	406	12/30/14 2140	12/30/14 2140	DN-
1,3,5-Trimethylbenzene	< 0.0005		0.0005	mg/L	406	12/30/14 2140	12/30/14 2140	DN-
1,3-Dichlorobenzene	< 0.0005		0.0005	mg/L	406	12/30/14 2140	12/30/14 2140	DN-
1,3-Dichloropropane	< 0.0005		0.0005	mg/L	406	12/30/14 2140	12/30/14 2140	DN-
1,4-Dichlorobenzene	< 0.0005		0.0005	mg/L	CH, 406	12/30/14 2140	12/30/14 2140	DN-
2,2-Dichloropropane	< 0.0005		0.0005	mg/L	CH, 406	12/30/14 2140	12/30/14 2140	DN-
2-Chlorotoluene	< 0.0005		0.0005	mg/L	406	12/30/14 2140	12/30/14 2140	DN-
4-Chlorotoluene	< 0.0005		0.0005	mg/L	406	12/30/14 2140	12/30/14 2140	DN-
4-Isopropyltoluene	< 0.0005		0.0005	mg/L	406	12/30/14 2140	12/30/14 2140	DN-
Benzene	< 0.0005		0.0005	mg/L	406	12/30/14 2140	12/30/14 2140	DN-
Bromobenzene	< 0.0005		0.0005	mg/L	406	12/30/14 2140	12/30/14 2140	DN-
Bromochloromethane	< 0.0005		0.0005	mg/L	406	12/30/14 2140	12/30/14 2140	DN-
Bromomethane	< 0.0005		0.0005	mg/L	406	12/30/14 2140	12/30/14 2140	DN-
Carbon tetrachloride	< 0.0005		0.0005	mg/L	CH, 406	12/30/14 2140	12/30/14 2140	DN-
Chlorobenzene	< 0.0005		0.0005	mg/L	406	12/30/14 2140	12/30/14 2140	DN-
Chloroethane	< 0.0005		0.0005	mg/L	406	12/30/14 2140	12/30/14 2140	DN-
Chloromethane	< 0.0005		0.0005	mg/L	406	12/30/14 2140	12/30/14 2140	DN-
cis-1,2-Dichloroethene	< 0.0005		0.0005	mg/L	406	12/30/14 2140	12/30/14 2140	DN-
cis-1,3-Dichloropropene	< 0.0005		0.0005	mg/L	406	12/30/14 2140	12/30/14 2140	DN-
Cumene	< 0.0005		0.0005	mg/L	406	12/30/14 2140	12/30/14 2140	DN-

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4L0230

Analytical Testing Parameters

Client Sample ID: Trip Blank
Lab Sample ID: J4L0230-07
Sample Type: Trip Blank

Collection Date: 12/17/14
Collection Time: 14:45
Collected By: DJB-Lab

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Dibromomethane	< 0.0005		0.0005	mg/L	406	12/30/14 2140	12/30/14 2140	DN-
Dichlorodifluoromethane	< 0.0005		0.0005	mg/L	CH, 406	12/30/14 2140	12/30/14 2140	DN-
Ethylbenzene	< 0.0005		0.0005	mg/L	406	12/30/14 2140	12/30/14 2140	DN-
Hexachlorobutadiene	< 0.0005		0.0005	mg/L	CH, 406	12/30/14 2140	12/30/14 2140	DN-
m,p-Xylene	< 0.0005		0.0005	mg/L	406	12/30/14 2140	12/30/14 2140	DN-
Methylene chloride	< 0.0005		0.0005	mg/L	406	12/30/14 2140	12/30/14 2140	DN-
MTBE	< 0.0005		0.0005	mg/L	406	12/30/14 2140	12/30/14 2140	DN-
Naphthalene	< 0.0005		0.0005	mg/L	406	12/30/14 2140	12/30/14 2140	DN-
n-Butylbenzene	< 0.0005		0.0005	mg/L	406	12/30/14 2140	12/30/14 2140	DN-
n-Propylbenzene	< 0.0005		0.0005	mg/L	406	12/30/14 2140	12/30/14 2140	DN-
o-Xylene	< 0.0005		0.0005	mg/L	406	12/30/14 2140	12/30/14 2140	DN-
sec-Butylbenzene	< 0.0005		0.0005	mg/L	406	12/30/14 2140	12/30/14 2140	DN-
Styrene	< 0.0005		0.0005	mg/L	406	12/30/14 2140	12/30/14 2140	DN-
tert-Butylbenzene	< 0.0005		0.0005	mg/L	406	12/30/14 2140	12/30/14 2140	DN-
Tetrachloroethene	< 0.0005		0.0005	mg/L	CH, 406	12/30/14 2140	12/30/14 2140	DN-
Toluene	< 0.0005		0.0005	mg/L	406	12/30/14 2140	12/30/14 2140	DN-
trans-1,2-Dichloroethene	< 0.0005		0.0005	mg/L	406	12/30/14 2140	12/30/14 2140	DN-
trans-1,3-Dichloropropene	< 0.0005		0.0005	mg/L	406	12/30/14 2140	12/30/14 2140	DN-
Trichloroethene	< 0.0005		0.0005	mg/L	406	12/30/14 2140	12/30/14 2140	DN-
Trichlorofluoromethane	< 0.0005		0.0005	mg/L	CH, 406	12/30/14 2140	12/30/14 2140	DN-
Vinyl chloride	< 0.0005		0.0005	mg/L	406	12/30/14 2140	12/30/14 2140	DN-
Xylenes, Total	< 0.0005		0.0005	mg/L	406	12/30/14 2140	12/30/14 2140	DN-
1,2-Dichlorobenzene-d4	140		70-130	% Rec	S, Q, CH, 406	12/30/14 2140	12/30/14 2140	DN-
4-Bromofluorobenzene	132		70-130	% Rec	S, Q, 406	12/30/14 2140	12/30/14 2140	DN-

Definitions

- 406: Surrogates 1,2-Dichlorobenzene-d4 and 4-Bromofluorobenzene recovery low; only 1 vial received, no sample left for re-analysis.
CH: Continuing Calibration Verification % recovery above acceptance limits. The result may be biased high.
Q: Due to matrix effects, not all quality control parameters met acceptance criteria
S: Spike Recovery outside accepted recovery limits
PQL: Practical Quantitation Limit
MCL: Maximum Contamination Level



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4L0230

Cooler Receipt Log:

Cooler ID:	Default Cooler	Received On Ice (or not required):	Yes
Cooler Temp:	4.9 °C	Preservation Correct (or not required):	Yes
COC/Labels Agree:	Yes	Custody Seals Intact and/or No Evidence of Tampering	Yes
Containers Intact:	Yes		

Report Comments:

In accordance with NYSDOH-ELAP and NELAP, 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 For Jennifer Walker
General Manager

Go Green:

Contact your project manager to set up email reporting and invoicing options.

For any feedback concerning our services, please contact your Project Manager listed above at 607-753-3403. You may also contact Trevor Boyce President, at president@microbac.com.

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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:	4.9
Phone:	607-748-7574 Ext: 357									Cooler Seal:	YES NO
Project:	Quarterly									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				Number of Containers for Analysis Requested				Comments/Field P			
Description/Location	Date	Time	Initial	Matrix	Type						
1 1-2A Raw	12-18-11	0913	DJB	DW	G	2					
2 1-2A Finished		0931		DW	G	2					
3 1-3 Raw		0942		DW	G	2					
4 1-3 Finished		0949		DW	G	2					
5 4-2 Raw		1017		DW	G	2					
6 4-2 Finished		1008		DW	G	2					
7 Trip Blank	12-17-11	1445		DW	G	1					
8											
Print Name and Company				Signature				Date/Time			
Deron Biechele/Microbac Cortland NY				Deron Biechele				12-18-11/1231			
Received:				Received:				Received:			
Received:				Received:				Received:			
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.											



J4L0230