SITE MANAGEMENT

ANNUAL REPORT
2013 CALENDAR YEAR

WORK ASSIGNMENT D007622-13

KERRY CHEMICAL COMPANY SITE — SITE NO. 413001
HANCOCK (T) — DELAWARE (C), NY

Prepared for:
NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
625 Broadway, Albany, New York

Joseph Martens, Commissioner

DIVISION OF ENVIRONMENTAL REMEDIATION

URS Corporation
77 Goodell Street
Buffalo, New York 14203

November 2013

KERRY CHEMICAL SITE
2013 ANNUAL REPORT
SITE MANAGEMENT

SITE # 413001

TOWN OF HANCOCK, DELAWARE COUNTY, NEW YORK

PREPARED FOR:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

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PREPARED BY:

URS CORPORATION

77 GOODELL STREET

BUFFALO, NEW YORK 14203

NOVEMBER 2013

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1.0 INTRODUCTION

1.1 General

This Site Management Annual Report for the Calendar Year 2013 has been prepared under New York State Department of Environmental Conservation (NYSDEC) Work Assignment No. D007622-13 for the Kerry Chemical Site (Figure 1). The purpose of this Annual Report is to provide a record of the post-remediation monitoring and maintenance activities at the Kerry Chemical Site. This report is the third annual report as called for by Section 4.2 of the Operation, Monitoring and Maintenance Plan (URS, January 2008).

1.2 Project Background

The Kerry Chemical Company site is site number 413001 on the NYSDEC's registry of inactive hazardous waste sites. The site investigation was completed in the late 1980's and a *Record of Decision* (*ROD*) was issued in late 1990. Remedial actions were undertaken in two phases at the site during period of November 2005 through November 2007. Additional background information for the site and a summary of the completed remedial actions are provided in Section 2.0.

2.0 SITE DESCRIPTION

The Kerry Chemical Company site is approximately ¾ mile north of the Hamlet of Cadosia in the Town of Hancock, Delaware County, New York, as shown on Figure 1. The site encompasses approximately 10 acres, is 2/5 mile long in a north-south direction, and is bounded on the east by Cadosia Creek and on the west by an abandoned railroad grade and steep hillside. Cadosia Creek flows into the East Branch of the Delaware River approximately two miles south of the site.

A Remedial Investigation/Feasibility Study (RI/FS) was completed at the Kerry Chemical site in the late 1980's. A *ROD* was signed in December 1990 calling for on-site thermal destruction of the wood tar wastes. A Remedial Design (RD) was completed in 1995, which complied with the *ROD*. Subsequently, off-site disposal was re-evaluated and incorporated into an Explanation of Significant Difference (ESD) and included in the bid documents as an alternate method of disposal. The initial construction contract implementing off-site disposal began in late 2005 and early 2006. Extensive quantities of tar were encountered beyond the amount anticipated in the initial construction contract. A second ESD was issued and a second construction contract was advertised in August 2006 to finish the work. The second phase of work was completed in 2007.

3.0 MONITORING ACTIVITIES

Monitoring activities performed during 2013 consisted of the collection of groundwater samples from 15 on-site and 2 off-site monitoring wells that are shown on Figure 2.

In order to extend the time frame for URS to perform long-term monitoring without additional funding, the Department took responsibility for the cost of analytical services through a call-out to TestAmerica-Buffalo, located in Amherst, NY.

3.1 Groundwater Hydraulic Monitoring

On June 18, 2013, a synoptic round of groundwater level measurements was obtained from 16 of the 17 on-site and off-site monitoring wells. The water level measurement from off-site monitoring well MW-B1D was not measured until June 19, 2013. The water level measurements are provided in Table 1.

Potentiometric surface maps based on the water level measurements from the shallow, intermediate, and deep wells, using a 2.0-foot contour interval, are provided on Figures 3, 4 and 5, respectively. The shallow and deep groundwater flows have been determined to be to the south/southeast, towards Cadosia Creek. The intermediate groundwater flow has been determined to be to the south/southwest.

3.2 Groundwater Sampling

On June 18 - 19, 2013, URS collected groundwater samples from all of the 17 on-site and off-site monitoring wells, plus quality control (QC) samples. All the on-site monitoring wells were purged and sampled using low-flow procedures. The off-site monitoring wells MW-B1S and MW-B1D were purged and sampled with a bailer.

Prior to sample collection, standing water was purged from all wells. On-site wells were purged with a GeoPump 2 peristaltic pump using dedicated/disposable low-density polyethylene (LDPE) tubing. Off-site monitoring wells MW-B1S and MW-B1D were purged using a dedicated high-density polyethylene (HDPE) bailer left in the well casing from the previous sampling events. All wells except MW-B1S and MW-B1D were purged at a rate of 1-liter per minute or less and the purge rate was adjusted to minimize draw down. Monitoring wells MW-B1S and MW-B1D were purged to dryness on June 18, 2013, and sampled on June 19, 2013,

after a sufficient volume of groundwater was allowed to recover. Purge water was disposed of on the ground up-gradient of the well locations, as per the direction of the Department.

During the purging of the wells, water quality parameters [i.e., pH, temperature, specific conductivity, dissolved oxygen, turbidity, and oxygen reduction potential (ORP)] were measured using a Horiba U-52 Multi-parameter instrument with a flow-through cell and documented on a purge log. Samples were collected after the water quality parameters stabilized. Photographs of well sampling activities can be found in Appendix A. A copy of the field notes can be found in Appendix B. Well Purge Logs can be found in Appendix C.

All groundwater samples were delivered under chain-of custody (COC) to the TestAmerica facility, located in Amherst, NY. The samples were analyzed for target compound list (TCL) volatile organic compounds (VOCs) following United States Environmental Protection Agency (USEPA) Method SW8260B, TCL semi-volatile organic compounds (SVOCs) following USEPA Method SW8270C and target analyte list (TAL) metals following USEPA Methods SW6010B/7470A.

3.2.1 Groundwater Results

The analytical data (i.e., NYSDEC ASP Category B data deliverables) was reviewed in accordance with the requirements outlined in Guidance for Data Deliverables and the Development of Data Usability Summary Reports (DUSR), Appendix 2B, *DER-10/Technical Guidance for Site Investigation and Remediation* (NYSDEC, May 2010). Data summary tables and Form Is are provided in the DUSR and include the reporting limit for each non-detected compound. A copy of the DUSR may be found in Appendix D, on a compact disk (CD).

A summary of the detected compounds in the groundwater samples are provided in Table 2. Results exceeding TOGS 1.1.1 Class GA groundwater standards or guidance values are indicated with a circle. The locations of detected compounds that have exceeded their respective criteria are shown on Figure 6.

The analytical results for the 2013 monitoring event are summarized as follows:

- No VOCs were detected at concentrations exceeding TOGS 1.1.1 Class GA groundwater standards at any locations.

- Only two SVOCs [4-methylphenol (p-cresol) and benzo(b)fluoranthene] were detected at one well location (MW-B1S) at concentrations slightly above the TOGS 1.1.1 Class GA standards.
- Up to five metals (arsenic, cadmium, iron, lead, and/or manganese) were detected in all wells except MW-3I, MW-5I, MW-5S, and MW-7S, at concentrations that exceeded TOGS 1.1.1 Class GA standards.

4.0 SITE MAINTENANCE

4.1 Monitoring Well Inspections

During the June 2013 monitoring event, a well inspection was performed. All wells except MW-B1S appeared to be in good condition. The riser on MW-B1S was crimped approximately 5 feet below ground surface (bgs). However, the riser allowed for the passing of the water level tape and a 0.5-inch outside diameter (OD) bailer. The monitoring well inspection logs may be found in Appendix E.

4.2 Site Inspection

During the June 2013 site visit, a site inspection was performed by URS personnel. The site inspection included the following items: access road; site fence; vegetative cover; groundwater monitoring wells (Section 4.1); and stream bank protection. All items associated with the inspection were found to be in good order; however, grass was growing through the gravel driveway, which will need attention in the future. It was also noted that the invasive-species autumn olive was observed growing on site. Photographs of the site can be found in Appendix A. A copy of the completed site inspection form can be found in Appendix F. Information about autumn olive has been provided in Appendix G.

4.3 Maintenance Performed

Maintenance performed at the site during 2013 is described below.

4.3.1 Monitoring Well Maintenance

New 2-inch expandable locking J-plugs were installed at all 17 on-site and off-site monitoring wells.

4.3.2 Routine Maintenance

No routine maintenance was performed at the time this report was prepared.

4.3.3 Intermittent Maintenance

No intermittent maintenance was performed at the time this report was prepared. It should be noted that vegetation was observed growing in the revetments along the western bank of Cadosia Creek. Photographs of the vegetation can be found in Appendix A.

5.0 SUMMARY AND RECOMMENDATIONS

5.1 Groundwater Hydraulic Monitoring

It has been determined that the shallow and deep groundwater flows are to the south/southeast, towards Cadosia Creek. The intermediate groundwater flow is to the south/southwest.

5.2 Groundwater Quality Monitoring

Two SVOCs [i.e., 4-methylphenol (p-cresol) and benzo(b)fluoranthene] and several metals (i.e., arsenic, cadmium, iron, lead, and/or manganese) exceeded TOGS 1.1.1 Class GA standards and guidance values during the 2013 monitoring event. A historical summary of compounds detected in groundwater samples since post-remediation monitoring is provided in Table 3. Figure 6 includes results from the 2010 and 2011 monitoring events. Since this was the third round of sampling following the completion of remedial activities, trends in groundwater quality could be not be determined. A trend analysis will be performed following the 2014 groundwater monitoring event.

5.3 Monitoring Well Maintenance

New J-plugs were installed in all on-site and off-site monitoring wells in 2013.

5.4 Site Maintenance

It was noted during the site inspection that items requiring maintenance in the near future were:

- The presence of grass growing up through the gravel driveway;
- Removal of woody vegetation from the revetments; and
- Removal of autumn olive trees that have started to grow on site. It should be noted that cutting or mowing mature autumn olive plants stimulates resprouting. Mowing may be helpful in maintaining open areas by preventing the establishment of seedlings.

These items will be monitored during the next annual site inspection and remedial actions will take place, if required, to maintain the integrity of the access road and rip-rap.

TABLES

TABLE 1
GROUNDWATER ELEVATION MEASUREMENTS
KERRY CHEMICAL SITE

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MW-03I	54229.66	52973.02	1011.19		1015.97	I		7/20/2010 0000	3.34	1012.63	0.00		
								9/15/2010 1121	3.22	1012.75	0.00		
								12/14/2011 1201	1.51	1014.46	0.00		
								6/18/2013 0000	1.69	1014.28	0.00		
MW-03S	54239.31	52979.23	1012.61		1015.27	A		7/20/2010 0000	5.45	1009.82	0.00		
								9/15/2010 1115	5.32	1009.95	0.00		
								12/14/2011 1159	3.64	1011.63	0.00		
								6/18/2013 0000	4.00	1011.27	0.00		
MW-04I	54467.65	53154.2	1017.50		1019.91	I		7/20/2010 0000	6.89	1013.02	0.00		
								9/15/2010 1107	6.79	1013.12	0.00		
								12/14/2011 1148	5.17	1014.74	0.00		
								6/18/2013 0000	5.25	1014.66	0.00		
MW-04S	54459.64	53148.08	1017.29		1019.21	A		7/20/2010 0000	8.19	1011.02	0.00		
								9/15/2010 1110	8.50	1010.71	0.00		
								12/14/2011 1151	6.54	1012.67	0.00		
								6/18/2013 0000	6.71	1012.50	0.00		
MW-05D	54699.89	53271.2	1020.43		1022.02	B		7/20/2010 0000	7.73	1014.29	0.00		
								9/15/2010 1052	7.60	1014.42	0.00		
								12/15/2011 1147	5.88	1016.14	0.00		
								6/18/2013 0000	5.98	1016.04	0.00		

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

A Shallow Unconfined Aquifer
B Deep Unconfined Aquifer
I Intermediate Unconfined Aquifer

TABLE 1
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KERRY CHEMICAL SITE

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MW-05I	54680.88	53265.58	1020.05		1021.57	I		7/20/2010 0000	5.51	1016.06	0.00		
								9/15/2010 1056	5.41	1016.16	0.00		
								12/14/2011 1139	3.78	1017.79	0.00		
								6/18/2013 0000	3.92	1017.65	0.00		
MW-05S	54692.8	53262.24	1020.49		1022.50	A		7/20/2010 0000	7.90	1014.60	0.00		
								9/15/2010 1048	7.71	1014.79	0.00		
								12/14/2011 1137	6.60	1015.90	0.00		
								6/18/2013 0000	6.68	1015.82	0.00		
MW-07I	54877.28	53315.92	1022.80		1024.69	I		7/20/2010 0000	5.44	1019.25	0.00		
								9/15/2010 1045	5.31	1019.38	0.00		
								12/14/2011 1123	3.82	1020.87	0.00		
								6/18/2013 0000	3.83	1020.86	0.00		
MW-07S	54887.04	53317.77	1022.02		1024.78	A		7/20/2010 0000	8.83	1015.95	0.00		
								9/15/2010 1042	8.67	1016.11	0.00		
								12/14/2011 1120	7.82	1016.96	0.00		
								6/18/2013 0000	7.87	1016.91	0.00		
MW-09S	55571.63	53256.19	1033.54		1035.44	A		7/20/2010 0000	7.62	1027.82	0.00		
								9/15/2010 1035	7.54	1027.90	0.00		
								12/14/2011 0855	4.56	1030.88	0.00		
								6/18/2013 0000	4.43	1031.01	0.00		

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MW-10D	55550.16	53377.23	1033.39		1035.45	B		7/20/2010 0000	8.81	1026.64	0.00		
								9/15/2010 1024	8.82	1026.63	0.00		
								12/14/2011 0834	6.62	1028.83	0.00		
								6/18/2013 0000	6.96	1028.49	0.00		
MW-10I	55557.15	53382.8	1033.43		1035.26	I		7/20/2010 0000	10.02	1025.24	0.00		
								9/15/2010 1030	9.97	1025.29	0.00		
								12/14/2011 0838	7.89	1027.37	0.00		
								6/18/2013 0000	8.16	1027.10	0.00		
MW-10S	55543.03	53382.73	1033.35		1035.53	A		7/20/2010 0000	10.55	1024.98	0.00		
								9/15/2010 1017	10.47	1025.06	0.00		
								12/14/2011 1229	8.29	1027.24	0.00		
								6/18/2013 0000	8.03	1027.50	0.00		
MW-B1D	55226.51	53082.3	1044.66	1048.02	1047.87	B		7/20/2010 0000	21.35	1026.52	0.00		
								9/15/2010 1129	21.63	1026.24	0.00		
								12/15/2011 1401	18.61	1029.26	0.00		
								6/19/2013 0000	19.10	1028.77	0.00		
MW-B1S	55227.76	53090.37	1044.28	1047.79	1047.50	A		7/20/2010 0000	9.72	1037.78	0.00		
								9/15/2010 1134	14.25	1033.25	0.00		
								12/15/2011 1403	5.90	1041.60	0.00		
								6/18/2013 0000	6.20	1041.30	0.00		

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MW-B3D	54647.61	53140.78	1021.05	1023.87	1023.48	B		7/20/2010 0000	9.08	1014.40	0.00		
								9/15/2010 1100	9.30	1014.18	0.00		
								12/14/2011 1214	7.05	1016.43	0.00		
								6/18/2013 0000	7.16	1016.32	0.00		
MW-B3S	54651.45	53130.26	1021.05	1023.96	1023.42	A		7/20/2010 0000	9.28	1014.14	0.00		
								9/15/2010 1105	9.32	1014.10	0.00		
								12/14/2011 1216	7.27	1016.15	0.00		
								6/18/2013 0000	7.38	1016.04	0.00		

NM - No Measurement

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TABLE 2
SUMMARY OF DETECTED COMPOUNDS IN GROUNDWATER - JUNE 2013
KERRY CHEMICAL SITE

Location ID			MW-03I	MW-03S	MW-04I	MW-04S	MW-05D
Sample ID			MW-3I	MW-3S	MW-4I	MW-4S	MW-5D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/19/13	06/19/13	06/19/13	06/19/13	06/19/13
Parameter	**Units**	*					
Volatile Organic Compounds							
Acetone	UG/L	50					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Semivolatile Organic Compounds							
2,4-Dimethylphenol	UG/L	50					
4-Methylphenol (p-cresol)	UG/L	1					
Benzaldehyde	UG/L	-					
Benzo(b)fluoranthene	UG/L	0.002					
bis(2-Ethylhexyl)phthalate	UG/L	5					
Fluoranthene	UG/L	50					
Pyrene	UG/L	50					
Metals							
Aluminum	UG/L	-	200	63 J	270	370	1,100
Arsenic	UG/L	25				170	
Barium	UG/L	1000	130	130	240	730	130
Beryllium	UG/L	3					
Cadmium	UG/L	5			2.7		
Calcium	UG/L	-	23,600	15,200	25,300	13,000	23,800
Chromium	UG/L	50	2.2 J		2.3 J	1.5 J	2.7 J
Cobalt	UG/L	-		0.69 J			
Copper	UG/L	200	1.6 J		2.2 J		
Iron	UG/L	300	160	650	310	14,200	1,100
Lead	UG/L	25					

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including January 1999 Errata Sheet, April 2000 and June 2004 Addenda. Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds

- - No criteria. Blank cell - Not detected.

J - The reported concentration is an estimated value.

Only Detected Results Reported.

Advanced Selection: KERRY TAB 2 201
J:\Small_Chemistry_Jobs\DB\Program\EDMS.md
Printed: 9/10/2013 11:20:48 AM
[LOGDATE] BETWEEN #6/17/2013# AND #6/21/2013# AND [MATRIX] = 'WG

TABLE 2
SUMMARY OF DETECTED COMPOUNDS IN GROUNDWATER - JUNE 2013
KERRY CHEMICAL SITE

Location ID			MW-03I	MW-03S	MW-04I	MW-04S	MW-05D
Sample ID			MW-3I	MW-3S	MW-4I	MW-4S	MW-5D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/19/13	06/19/13	06/19/13	06/19/13	06/19/13
Parameter	**Units**	*					
Metals							
Magnesium	UG/L	35000	4,100	2,900	5,300	2,200	5,200
Manganese	UG/L	300	130	1,000	2,800	3,900	180
Nickel	UG/L	100		1.3 J	5.1 J		2.9 J
Potassium	UG/L	-	1,100	1,000	1,100	1,300	1,500
Sodium	UG/L	20000	10,000	5,800	3,700	7,200	9,600
Vanadium	UG/L	-					1.6 J
Zinc	UG/L	2000	4.7 J	4.1 J	4.4 J	2.8 J	3.4 J

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SUMMARY OF DETECTED COMPOUNDS IN GROUNDWATER - JUNE 2013
KERRY CHEMICAL SITE

Location ID			MW-05I	MW-05S	MW-07I	MW-07S	MW-09S
Sample ID			MW-5I	MW-5S	MW-7I	MW-7S	MW-9S
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/19/13	06/19/13	06/18/13	06/19/13	06/19/13
Parameter	**Units**	*					
Volatile Organic Compounds							
Acetone	UG/L	50					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Semivolatile Organic Compounds							
2,4-Dimethylphenol	UG/L	50					
4-Methylphenol (p-cresol)	UG/L	1					
Benzaldehyde	UG/L	-					
Benzo(b)fluoranthene	UG/L	0.002					
bis(2-Ethylhexyl)phthalate	UG/L	5					
Fluoranthene	UG/L	50					
Pyrene	UG/L	50					
Metals							
Aluminum	UG/L	-	94 J		220	70 J	1,800
Arsenic	UG/L	25					6.4 J
Barium	UG/L	1000	45	110	60	120	72
Beryllium	UG/L	3					
Cadmium	UG/L	5			0.71 J		
Calcium	UG/L	-	26,500	21,200	26,100	27,400	14,900
Chromium	UG/L	50	1.0 J	1.5 J	10		1.9 J
Cobalt	UG/L	-					1.1 J
Copper	UG/L	200			5.2 J		2.3 J
Iron	UG/L	300	81	200	370	220	3,500
Lead	UG/L	25					

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including January 1999 Errata Sheet, April 2000 and June 2004 Addenda. Class GA.

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Location ID			MW-05I	MW-05S	MW-07I	MW-07S	MW-09S
Sample ID			MW-5I	MW-5S	MW-7I	MW-7S	MW-9S
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/19/13	06/19/13	06/18/13	06/19/13	06/19/13
Parameter	**Units**	*					
Metals							
Magnesium	UG/L	35000	3,300	3,600	3,700	3,600	1,600
Manganese	UG/L	300	93	220	420	150	240
Nickel	UG/L	100			8.5 J		2.3 J
Potassium	UG/L	-	1,400	1,900	1,600	2,100	1,200
Sodium	UG/L	20000	4,300	1,300	8,500	1,300	1,200
Vanadium	UG/L	-					2.1 J
Zinc	UG/L	2000	2.3 J	3.2 J	5.8 J	1.6 J	9.5 J

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including January 1999 Errata Sheet, April 2000 and June 2004 Addenda. Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds

- - No criteria. Blank cell - Not detected.

J - The reported concentration is an estimated value.

Only Detected Results Reported.

TABLE 2
SUMMARY OF DETECTED COMPOUNDS IN GROUNDWATER - JUNE 2013
KERRY CHEMICAL SITE

Location ID			MW-10D	MW-10I	MW-10S	MW-10S	MW-B1D
Sample ID			MW-10D	MW-10I	FD-06182013	MW-10S	MW-B1D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/18/13	06/18/13	06/18/13	06/18/13	06/19/13
Parameter	**Units**	*			Field Duplicate (1-1)		
Volatile Organic Compounds							
Acetone	UG/L	50				3.2 J	
Methyl ethyl ketone (2-Butanone)	UG/L	50			1.4 J	1.4 J	
Semivolatile Organic Compounds							
2,4-Dimethylphenol	UG/L	50			3.5 J	1.0 J	
4-Methylphenol (p-cresol)	UG/L	1					
Benzaldehyde	UG/L	-				0.26 J*	
Benzo(b)fluoranthene	UG/L	0.002					
bis(2-Ethylhexyl)phthalate	UG/L	5					
Fluoranthene	UG/L	50					
Pyrene	UG/L	50					
Metals							
Aluminum	UG/L	-	310	1,200	170 J	180 J	3,000
Arsenic	UG/L	25					9.7 J
Barium	UG/L	1000	51	89	120	120	66
Beryllium	UG/L	3					
Cadmium	UG/L	5					0.67 J
Calcium	UG/L	-	23,500	26,600	29,200	29,500	19,200
Chromium	UG/L	50	6.3	3.2 J			7.6
Cobalt	UG/L	-					1.8 J
Copper	UG/L	200	2.6 J	3.4 J	35	39	4.7 J
Iron	UG/L	300	400	1,100	3,000	3,300	4,300
Lead	UG/L	25					

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including January 1999 Errata Sheet, April 2000 and June 2004 Addenda. Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds

- - No criteria. Blank cell - Not detected.

J - The reported concentration is an estimated value.

Only Detected Results Reported.

TABLE 2
SUMMARY OF DETECTED COMPOUNDS IN GROUNDWATER - JUNE 2013
KERRY CHEMICAL SITE

Location ID			MW-10D	MW-10I	MW-10S	MW-10S	MW-B1D
Sample ID			MW-10D	MW-10I	FD-06182013	MW-10S	MW-B1D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/18/13	06/18/13	06/18/13	06/18/13	06/19/13
Parameter	**Units**	*			Field Duplicate (1-1)		
Metals							
Magnesium	UG/L	35000	3,200	3,800	2,100	2,100	2,100
Manganese	UG/L	300	200	620	780	770	170
Nickel	UG/L	100	4.7 J	2.4 J			4.3 J
Potassium	UG/L	-	1,000	1,400	1,900	2,000	2,500
Sodium	UG/L	20000	5,400	8,500	1,900	2,000	3,500
Vanadium	UG/L	-					5.0
Zinc	UG/L	2000	1.9 J	9.7 J	6.7 J	6.9 J	26

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including January 1999 Errata Sheet, April 2000 and June 2004 Addenda. Class GA.

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Concentration Exceeds

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Only Detected Results Reported.

TABLE 2
SUMMARY OF DETECTED COMPOUNDS IN GROUNDWATER - JUNE 2013
KERRY CHEMICAL SITE

Location ID			MW-B1S	MW-B3D	MW-B3S
Sample ID			MW-B1S	MW-B3D	MW-B3S
Matrix			Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-
Date Sampled			06/19/13	06/19/13	06/19/13
Parameter	**Units**	*			
Volatile Organic Compounds					
Acetone	UG/L	50	3.4 J		
Methyl ethyl ketone (2-Butanone)	UG/L	50			
Semivolatile Organic Compounds					
2,4-Dimethylphenol	UG/L	50			
4-Methylphenol (p-cresol)	UG/L	1	1.2 J		
Benzaldehyde	UG/L	-	0.33 J*		
Benzo(b)fluoranthene	UG/L	0.002	0.72 J		
bis(2-Ethylhexyl)phthalate	UG/L	5	1.7 J		
Fluoranthene	UG/L	50	1.3 J		
Pyrene	UG/L	50	1.2 J		
Metals					
Aluminum	UG/L	-	17,400	82 J	
Arsenic	UG/L	25	21		
Barium	UG/L	1000	550	54	110
Beryllium	UG/L	3	1.4 J		
Cadmium	UG/L	5	5.8		
Calcium	UG/L	-	29,400	24,900	17,500
Chromium	UG/L	50	25		
Cobalt	UG/L	-	15	0.83 J	
Copper	UG/L	200	41		
Iron	UG/L	300	29,300	87	25 J
Lead	UG/L	25	55		

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including January 1999 Errata Sheet, April 2000 and June 2004 Addenda. Class GA.

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TABLE 2
SUMMARY OF DETECTED COMPOUNDS IN GROUNDWATER - JUNE 2013
KERRY CHEMICAL SITE

Location ID			MW-B1S	MW-B3D	MW-B3S
Sample ID			MW-B1S	MW-B3D	MW-B3S
Matrix			Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-
Date Sampled			06/19/13	06/19/13	06/19/13
Parameter	**Units**	*			
Metals					
Magnesium	UG/L	35000	4,000	3,100	3,900
Manganese	UG/L	300	1,400	530	320
Nickel	UG/L	100	28		
Potassium	UG/L	-	5,700	900	730
Sodium	UG/L	20000	1,600	3,000	1,600
Vanadium	UG/L	-	24		
Zinc	UG/L	2000	260	2.6 J	2.7 J

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TABLE 3
HISTORICAL SUMMARY OF DETECTED COMPOUNDS IN GROUNDWATER
KERRY CHEMICAL SITE

Location ID			MW-03I	MW-03I	MW-03I	MW-03S	MW-03S
Sample ID			MW-3I-WG	MW-3I	MW-3I	MW-3S-WG	MW-3S
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			09/16/10	12/14/11	06/19/13	09/16/10	12/14/11
Parameter	**Units**	*					
Volatile Organic Compounds							
1,2,4-Trichlorobenzene	UG/L	5					
Acetone	UG/L	50					
Chloromethane	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Semivolatile Organic Compounds							
2,4-Dimethylphenol	UG/L	50					
2-Methylphenol (o-cresol)	UG/L	1					
4-Methylphenol (p-cresol)	UG/L	1					
Benzaldehyde	UG/L	-	NA			NA	
Benzo(b)fluoranthene	UG/L	0.002					
bis(2-Ethylhexyl)phthalate	UG/L	5					
Dimethylphthalate	UG/L	50					
Fluoranthene	UG/L	50					
Naphthalene	UG/L	10					
Pyrene	UG/L	50					
Metals							
Aluminum	UG/L	-		650	200		
Arsenic	UG/L	25					
Barium	UG/L	1000		130	130	299	160
Beryllium	UG/L	3					
Cadmium	UG/L	5					
Calcium	UG/L	-	21,400	23,800	23,600	20,900	18,600

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TABLE 3
HISTORICAL SUMMARY OF DETECTED COMPOUNDS IN GROUNDWATER
KERRY CHEMICAL SITE

Location ID			MW-03I	MW-03I	MW-03I	MW-03S	MW-03S
Sample ID			MW-3I-WG	MW-3I	MW-3I	MW-3S-WG	MW-3S
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			09/16/10	12/14/11	06/19/13	09/16/10	12/14/11
Parameter	**Units**	*					
Metals							
Chromium	UG/L	50		3.3 J	2.2 J		0.92 J
Cobalt	UG/L	-				0.46 J	
Copper	UG/L	200	4.0 J	11	1.6 J		
Iron	UG/L	300	129	750	160	2,390	1,100
Lead	UG/L	25					
Magnesium	UG/L	35000	3,440 J	4,200	4,100	4,130 J	3,900
Manganese	UG/L	300	141	190	130	2,230	1,300
Nickel	UG/L	100		3.2 J		0.77 J	1.8 J
Potassium	UG/L	-		1,200	1,100		1,100
Selenium	UG/L	10					
Silver	UG/L	50					
Sodium	UG/L	20000	9,080 J	10,300	10,000		2,400
Thallium	UG/L	0.5				12.9	
Vanadium	UG/L	-					
Zinc	UG/L	2000	4.4 J	4.3 J	4.7 J	1.2 J	2.0 J

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TABLE 3
HISTORICAL SUMMARY OF DETECTED COMPOUNDS IN GROUNDWATER
KERRY CHEMICAL SITE

Location ID			MW-03S	MW-04I	MW-04I	MW-04I	MW-04S
Sample ID			MW-3S	MW-4I-WG	MW-4I	MW-4I	MW-4S-WG
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/19/13	09/16/10	12/14/11	06/19/13	09/16/10
Parameter	**Units**	*					
Volatile Organic Compounds							
1,2,4-Trichlorobenzene	UG/L	5					
Acetone	UG/L	50					
Chloromethane	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Semivolatile Organic Compounds							
2,4-Dimethylphenol	UG/L	50					
2-Methylphenol (o-cresol)	UG/L	1					
4-Methylphenol (p-cresol)	UG/L	1					
Benzaldehyde	UG/L	-		NA			NA
Benzo(b)fluoranthene	UG/L	0.002					
bis(2-Ethylhexyl)phthalate	UG/L	5					
Dimethylphthalate	UG/L	50					
Fluoranthene	UG/L	50					
Naphthalene	UG/L	10					
Pyrene	UG/L	50					
Metals							
Aluminum	UG/L	-	63 J		180 J	270	
Arsenic	UG/L	25					109
Barium	UG/L	1000	130		130	240	762
Beryllium	UG/L	3					
Cadmium	UG/L	5				2.7	
Calcium	UG/L	-	15,200	22,500	24,500	25,300	19,600

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(oval) Concentration Exceeds

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TABLE 3
HISTORICAL SUMMARY OF DETECTED COMPOUNDS IN GROUNDWATER
KERRY CHEMICAL SITE

Location ID			MW-03S	MW-04I	MW-04I	MW-04I	MW-04S
Sample ID			MW-3S	MW-4I-WG	MW-4I	MW-4I	MW-4S-WG
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/19/13	09/16/10	12/14/11	06/19/13	09/16/10
Parameter	**Units**	*					
Metals							
Chromium	UG/L	50		5.4 J	3.5 J	2.3 J	
Cobalt	UG/L	-	0.69 J				
Copper	UG/L	200		3.4 J		2.2 J	
Iron	UG/L	300	650		230	310	9,780
Lead	UG/L	25					
Magnesium	UG/L	35000	2,900	4,490 J	5,100	5,300	3,200 J
Manganese	UG/L	300	1,000	651	1,200	2,800	3,680
Nickel	UG/L	100	1.3 J		4.0 J	5.1 J	
Potassium	UG/L	-	1,000	731 J	980	1,100	1,020 J
Selenium	UG/L	10					
Silver	UG/L	50					11.2 J
Sodium	UG/L	20000	5,800	3,100 J	3,600	3,700	7,140 J
Thallium	UG/L	0.5		11.8			18.9
Vanadium	UG/L	-					
Zinc	UG/L	2000	4.1 J	5.9 J	2.5 J	4.4 J	

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Only Detected Results Reported.

Advanced Selection: KERRY TAB 3 201
J:\Small_Chemistry_Jobs\DB\Program\EDMS.md
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[SITEID] = '11176206' AND [MATRIX] = 'WG

TABLE 3
HISTORICAL SUMMARY OF DETECTED COMPOUNDS IN GROUNDWATER
KERRY CHEMICAL SITE

Location ID			MW-04S	MW-04S	MW-05D	MW-05D	MW-05D
Sample ID			MW-4S	MW-4S	MW-5D-WG	MW-5D	MW-5D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			12/14/11	06/19/13	09/16/10	12/15/11	06/19/13
Parameter	**Units**	*					
Volatile Organic Compounds							
1,2,4-Trichlorobenzene	UG/L	5					
Acetone	UG/L	50					
Chloromethane	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Semivolatile Organic Compounds							
2,4-Dimethylphenol	UG/L	50					
2-Methylphenol (o-cresol)	UG/L	1					
4-Methylphenol (p-cresol)	UG/L	1					
Benzaldehyde	UG/L	-			NA		
Benzo(b)fluoranthene	UG/L	0.002					
bis(2-Ethylhexyl)phthalate	UG/L	5					
Dimethylphthalate	UG/L	50					
Fluoranthene	UG/L	50					
Naphthalene	UG/L	10					
Pyrene	UG/L	50					
Metals							
Aluminum	UG/L	-		370	296 J	3,200	1,100
Arsenic	UG/L	25	100	170			
Barium	UG/L	1000	740	730		170	130
Beryllium	UG/L	3					
Cadmium	UG/L	5					
Calcium	UG/L	-	20,100	13,000	21,800	22,900	23,800

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including January 1999 Errata Sheet, April 2000 and June 2004 Addenda. Class GA.

Flags assigned during chemistry validation are shown.

(oval) Concentration Exceeds

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Only Detected Results Reported.

TABLE 3
HISTORICAL SUMMARY OF DETECTED COMPOUNDS IN GROUNDWATER
KERRY CHEMICAL SITE

Location ID			MW-04S	MW-04S	MW-05D	MW-05D	MW-05D
Sample ID			MW-4S	MW-4S	MW-5D-WG	MW-5D	MW-5D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			12/14/11	06/19/13	09/16/10	12/15/11	06/19/13
Parameter	**Units**	*					
Metals							
Chromium	UG/L	50		1.5 J		8.3	2.7 J
Cobalt	UG/L	-				2.3 J	
Copper	UG/L	200					
Iron	UG/L	300	9,000	14,200	416	3,800	1,100
Lead	UG/L	25					
Magnesium	UG/L	35000	3,500	2,200	4,500 J	5,300	5,200
Manganese	UG/L	300	4,200	3,900	183	670	180
Nickel	UG/L	100	1.5 J		2.1 J	14	2.9 J
Potassium	UG/L	-	1,300	1,300	968 J	2,200	1,500
Selenium	UG/L	10					
Silver	UG/L	50			12.7 J		
Sodium	UG/L	20000	7,800	7,200	8,650 J	9,400	9,600
Thallium	UG/L	0.5			8.4 J		
Vanadium	UG/L	-				4.2 J	1.6 J
Zinc	UG/L	2000	2.7 J	2.8 J	21.0	11	3.4 J

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Concentration Exceeds

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TABLE 3
HISTORICAL SUMMARY OF DETECTED COMPOUNDS IN GROUNDWATER
KERRY CHEMICAL SITE

Location ID			MW-05I	MW-05I	MW-05I	MW-05S	MW-05S
Sample ID			MW-5I-WG	MW-5I	MW-5I	MW-5S-WG	MW-5S
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			09/16/10	12/15/11	06/19/13	09/16/10	12/15/11
Parameter	**Units**	*					
Volatile Organic Compounds							
1,2,4-Trichlorobenzene	UG/L	5					
Acetone	UG/L	50					
Chloromethane	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Semivolatile Organic Compounds							
2,4-Dimethylphenol	UG/L	50					
2-Methylphenol (o-cresol)	UG/L	1					
4-Methylphenol (p-cresol)	UG/L	1					
Benzaldehyde	UG/L	-	NA			NA	
Benzo(b)fluoranthene	UG/L	0.002					
bis(2-Ethylhexyl)phthalate	UG/L	5	2 J				
Dimethylphthalate	UG/L	50					
Fluoranthene	UG/L	50					
Naphthalene	UG/L	10					
Pyrene	UG/L	50					
Metals							
Aluminum	UG/L	-		77 J	94 J		67 J
Arsenic	UG/L	25					
Barium	UG/L	1000		41	45	248	160
Beryllium	UG/L	3					
Cadmium	UG/L	5					
Calcium	UG/L	-	23,700	25,700	26,500	30,300	21,800

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including January 1999 Errata Sheet, April 2000 and June 2004 Addenda. Class GA.

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TABLE 3
HISTORICAL SUMMARY OF DETECTED COMPOUNDS IN GROUNDWATER
KERRY CHEMICAL SITE

Location ID			MW-05I	MW-05I	MW-05I	MW-05S	MW-05S
Sample ID			MW-5I-WG	MW-5I	MW-5I	MW-5S-WG	MW-5S
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			09/16/10	12/15/11	06/19/13	09/16/10	12/15/11
Parameter	**Units**	*					
Metals							
Chromium	UG/L	50		11	1.0 J		
Cobalt	UG/L	-				0.51 J	
Copper	UG/L	200	3.1 J				
Iron	UG/L	300		47 J	81	419	450
Lead	UG/L	25					
Magnesium	UG/L	35000	2,810 J	3,200	3,300	5,210	4,100
Manganese	UG/L	300	80.8	67	93	3,460	870
Nickel	UG/L	100		2.1 J		1.4 J	2.0 J
Potassium	UG/L	-	1,010 J	1,300	1,400	1,830 J	2,000
Selenium	UG/L	10				4.0 J	
Silver	UG/L	50				13.6 J	
Sodium	UG/L	20000	3,680 J	4,300	4,300	2,020 J	1,400
Thallium	UG/L	0.5	6.7 J			40.2	
Vanadium	UG/L	-					
Zinc	UG/L	2000	1.3 J		2.3 J	2.0 J	2.6 J

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Only Detected Results Reported.

TABLE 3
HISTORICAL SUMMARY OF DETECTED COMPOUNDS IN GROUNDWATER
KERRY CHEMICAL SITE

Location ID			MW-05S	MW-07I	MW-07I	MW-07I	MW-07S
Sample ID			MW-5S	MW-7I-WG	MW-7I	MW-7I	MW-7S-WG
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/19/13	09/15/10	12/15/11	06/18/13	09/15/10
Parameter	**Units**	*					
Volatile Organic Compounds							
1,2,4-Trichlorobenzene	UG/L	5					
Acetone	UG/L	50					
Chloromethane	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Semivolatile Organic Compounds							
2,4-Dimethylphenol	UG/L	50					
2-Methylphenol (o-cresol)	UG/L	1					
4-Methylphenol (p-cresol)	UG/L	1					
Benzaldehyde	UG/L	-		NA			NA
Benzo(b)fluoranthene	UG/L	0.002					
bis(2-Ethylhexyl)phthalate	UG/L	5		2 J			
Dimethylphthalate	UG/L	50					
Fluoranthene	UG/L	50					
Naphthalene	UG/L	10					
Pyrene	UG/L	50					
Metals							
Aluminum	UG/L	-			440	220	
Arsenic	UG/L	25					10.9
Barium	UG/L	1000	110		64	60	287
Beryllium	UG/L	3					
Cadmium	UG/L	5				0.71 J	
Calcium	UG/L	-	21,200	24,300	24,400	26,100	26,200

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TABLE 3
HISTORICAL SUMMARY OF DETECTED COMPOUNDS IN GROUNDWATER
KERRY CHEMICAL SITE

Location ID			MW-05S	MW-07I	MW-07I	MW-07I	MW-07S
Sample ID			MW-5S	MW-7I-WG	MW-7I	MW-7I	MW-7S-WG
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/19/13	09/15/10	12/15/11	06/18/13	09/15/10
Parameter	**Units**	*					
Metals							
Chromium	UG/L	50	1.5 J		21	10	
Cobalt	UG/L	-			0.76 J		0.64 J
Copper	UG/L	200		13.5 J	13	5.2 J	
Iron	UG/L	300	200	391	740	370	8,470
Lead	UG/L	25					
Magnesium	UG/L	35000	3,600	3,140 J	3,500	3,700	3,710 J
Manganese	UG/L	300	220	861	670	420	5,340
Nickel	UG/L	100		13.0 J	16	8.5 J	
Potassium	UG/L	-	1,900	1,390 J	1,500	1,600	1,960 J
Selenium	UG/L	10		4.0 J			
Silver	UG/L	50		14.0 J			
Sodium	UG/L	20000	1,300	7,670 J	7,900	8,500	1,740 J
Thallium	UG/L	0.5		14.1			32.3
Vanadium	UG/L	-					
Zinc	UG/L	2000	3.2 J	58.2	5.0 J	5.8 J	175

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including January 1999 Errata Sheet, April 2000 and June 2004 Addenda. Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds

- - No criteria. Blank cell - Not detected.

J - The reported concentration is an estimated value.

Only Detected Results Reported.

TABLE 3
HISTORICAL SUMMARY OF DETECTED COMPOUNDS IN GROUNDWATER
KERRY CHEMICAL SITE

Location ID			MW-07S	MW-07S	MW-09S	MW-09S	MW-09S
Sample ID			MW-7S	MW-7S	MW-9S-WG	MW-9S	MW-9S
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			12/15/11	06/19/13	09/15/10	12/16/11	06/19/13
Parameter	**Units**	*					
Volatile Organic Compounds							
1,2,4-Trichlorobenzene	UG/L	5					
Acetone	UG/L	50					
Chloromethane	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Semivolatile Organic Compounds							
2,4-Dimethylphenol	UG/L	50					
2-Methylphenol (o-cresol)	UG/L	1					
4-Methylphenol (p-cresol)	UG/L	1					
Benzaldehyde	UG/L	-			NA		
Benzo(b)fluoranthene	UG/L	0.002					
bis(2-Ethylhexyl)phthalate	UG/L	5					
Dimethylphthalate	UG/L	50					
Fluoranthene	UG/L	50					
Naphthalene	UG/L	10					
Pyrene	UG/L	50					
Metals							
Aluminum	UG/L	-		70 J	448 J	6,800	1,800
Arsenic	UG/L	25	6.3 J			10	6.4 J
Barium	UG/L	1000	120	120	101 J	110	72
Beryllium	UG/L	3					
Cadmium	UG/L	5			0.42 J		
Calcium	UG/L	-	26,100	27,400	21,600	11,900	14,900

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including January 1999 Errata Sheet, April 2000 and June 2004 Addenda. Class GA.

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TABLE 3
HISTORICAL SUMMARY OF DETECTED COMPOUNDS IN GROUNDWATER
KERRY CHEMICAL SITE

Location ID			MW-07S	MW-07S	MW-09S	MW-09S	MW-09S
Sample ID			MW-7S	MW-7S	MW-9S-WG	MW-9S	MW-9S
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			12/15/11	06/19/13	09/15/10	12/16/11	06/19/13
Parameter	**Units**	*					
Metals							
Chromium	UG/L	50	1.2 J			8.2	1.9 J
Cobalt	UG/L	-			0.44 J	4.4	1.1 J
Copper	UG/L	200				15	2.3 J
Iron	UG/L	300	280	220	4,570	10,000	3,500
Lead	UG/L	25				14	
Magnesium	UG/L	35000	4,300	3,600	1,430 J	2,300	1,600
Manganese	UG/L	300	110	150	942	410	240
Nickel	UG/L	100			3.4 J	10	2.3 J
Potassium	UG/L	-	2,600	2,100	829 J	2,800	1,200
Selenium	UG/L	10					
Silver	UG/L	50					
Sodium	UG/L	20000	1,900	1,300	2,170 J	960 J	1,200
Thallium	UG/L	0.5			9.6 J		
Vanadium	UG/L	-				7.3	2.1 J
Zinc	UG/L	2000		1.6 J	36.7	30	9.5 J

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including January 1999 Errata Sheet, April 2000 and June 2004 Addenda. Class GA.

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TABLE 3
HISTORICAL SUMMARY OF DETECTED COMPOUNDS IN GROUNDWATER
KERRY CHEMICAL SITE

Location ID			MW-10D	MW-10D	MW-10D	MW-10D	MW-10I
Sample ID			DUP-091510	MW-10D-WG	MW-10D	MW-10D	MW-10I-WG
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			09/15/10	09/15/10	12/14/11	06/18/13	09/15/10
Parameter	**Units**	*	Field Duplicate (1-1)				
Volatile Organic Compounds							
1,2,4-Trichlorobenzene	UG/L	5			1.3		
Acetone	UG/L	50					
Chloromethane	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Semivolatile Organic Compounds							
2,4-Dimethylphenol	UG/L	50					
2-Methylphenol (o-cresol)	UG/L	1					
4-Methylphenol (p-cresol)	UG/L	1					
Benzaldehyde	UG/L	-	NA	NA			NA
Benzo(b)fluoranthene	UG/L	0.002					
bis(2-Ethylhexyl)phthalate	UG/L	5					
Dimethylphthalate	UG/L	50					
Fluoranthene	UG/L	50					
Naphthalene	UG/L	10					
Pyrene	UG/L	50					
Metals							
Aluminum	UG/L	-	224 J	233 J	900	310	
Arsenic	UG/L	25					
Barium	UG/L	1000			50	51	
Beryllium	UG/L	3					
Cadmium	UG/L	5					
Calcium	UG/L	-	22,200	21,700	21,800	23,500	23,200

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including January 1999 Errata Sheet, April 2000 and June 2004 Addenda. Class GA.

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TABLE 3
HISTORICAL SUMMARY OF DETECTED COMPOUNDS IN GROUNDWATER
KERRY CHEMICAL SITE

Location ID			MW-10D	MW-10D	MW-10D	MW-10D	MW-10I
Sample ID			DUP-091510	MW-10D-WG	MW-10D	MW-10D	MW-10I-WG
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			09/15/10	09/15/10	12/14/11	06/18/13	09/15/10
Parameter	**Units**	*	Field Duplicate (1-1)				
Metals							
Chromium	UG/L	50			4.6	6.3	
Cobalt	UG/L	-			1.1 J		
Copper	UG/L	200				2.6 J	
Iron	UG/L	300	386	382	1,000	400	186
Lead	UG/L	25					
Magnesium	UG/L	35000	2,850 J	2,800 J	3,100	3,200	3,080 J
Manganese	UG/L	300	94.6	93.0	150	200	473
Nickel	UG/L	100		0.68 J	3.1 J	4.7 J	0.79 J
Potassium	UG/L	-	819 J	802 J	1,200	1,000	848 J
Selenium	UG/L	10					
Silver	UG/L	50					
Sodium	UG/L	20000	4,920 J	4,810 J	5,200	5,400	8,130 J
Thallium	UG/L	0.5	9.4 J	9.2 J			6.1 J
Vanadium	UG/L	-					
Zinc	UG/L	2000	8.9 J	6.8 J	4.2 J	1.9 J	29.5

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Advanced Selection: KERRY TAB 3 201
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[SITEID] = '11176206' AND [MATRIX] = 'WG

TABLE 3
HISTORICAL SUMMARY OF DETECTED COMPOUNDS IN GROUNDWATER
KERRY CHEMICAL SITE

Location ID			MW-10I	MW-10I	MW-10S	MW-10S	MW-10S
Sample ID			MW-10I	MW-10I	MW-10S-WG	FD-1	MW-10S
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			12/14/11	06/18/13	09/15/10	12/14/11	12/14/11
Parameter	**Units**	*				Field Duplicate (1-1)	
Volatile Organic Compounds							
1,2,4-Trichlorobenzene	UG/L	5					
Acetone	UG/L	50				3.7 J	
Chloromethane	UG/L	5				0.59 J	
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Semivolatile Organic Compounds							
2,4-Dimethylphenol	UG/L	50			3 J		
2-Methylphenol (o-cresol)	UG/L	1			2 J		
4-Methylphenol (p-cresol)	UG/L	1					
Benzaldehyde	UG/L	-			NA		
Benzo(b)fluoranthene	UG/L	0.002					
bis(2-Ethylhexyl)phthalate	UG/L	5					
Dimethylphthalate	UG/L	50			5 J	2.1 J	2.5 J
Fluoranthene	UG/L	50					
Naphthalene	UG/L	10			1 J		
Pyrene	UG/L	50					
Metals							
Aluminum	UG/L	-	2,300	1,200		170 J	480
Arsenic	UG/L	25					
Barium	UG/L	1000	87	89	259	130	140
Beryllium	UG/L	3					
Cadmium	UG/L	5					
Calcium	UG/L	-	24,300	26,600	34,500	27,600	25,700

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including January 1999 Errata Sheet, April 2000 and June 2004 Addenda. Class GA.

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TABLE 3
HISTORICAL SUMMARY OF DETECTED COMPOUNDS IN GROUNDWATER
KERRY CHEMICAL SITE

Location ID			MW-10I	MW-10I	MW-10S	MW-10S	MW-10S
Sample ID			MW-10I	MW-10I	MW-10S-WG	FD-1	MW-10S
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			12/14/11	06/18/13	09/15/10	12/14/11	12/14/11
Parameter	**Units**	*				Field Duplicate (1-1)	
Metals							
Chromium	UG/L	50	5.7	3.2 J			1.4 J
Cobalt	UG/L	-	0.96 J				0.81 J
Copper	UG/L	200		3.4 J	40.7	34 J	67 J
Iron	UG/L	300	2,200	1,100	8,600	3,700 J	7,700 J
Lead	UG/L	25					8.8
Magnesium	UG/L	35000	4,000	3,800	1,900 J	2,000	2,000
Manganese	UG/L	300	710	620	2,440	1,200	1,300
Nickel	UG/L	100	4.1 J	2.4 J			2.2 J
Potassium	UG/L	-	1,600	1,400	1,970 J	1,900	1,900
Selenium	UG/L	10					
Silver	UG/L	50					
Sodium	UG/L	20000	8,100	8,500	3,590 J	1,800	1,800
Thallium	UG/L	0.5			30.2		
Vanadium	UG/L	-	2.4 J			1.2 J	2.2 J
Zinc	UG/L	2000	6.9 J	9.7 J	17.2 J	8.0 J	9.0 J

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including January 1999 Errata Sheet, April 2000 and June 2004 Addenda. Class GA.

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TABLE 3
HISTORICAL SUMMARY OF DETECTED COMPOUNDS IN GROUNDWATER
KERRY CHEMICAL SITE

Location ID			MW-10S	MW-10S	MW-B1D	MW-B1D	MW-B1D
Sample ID			FD-06182013	MW-10S	MW-B1D-WG	MW-B1D	MW-B1D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/18/13	06/18/13	09/16/10	12/15/11	06/19/13
Parameter	**Units**	*	Field Duplicate (1-1)				
Volatile Organic Compounds							
1,2,4-Trichlorobenzene	UG/L	5					
Acetone	UG/L	50		3.2 J			
Chloromethane	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50	1.4 J	1.4 J			
Semivolatile Organic Compounds							
2,4-Dimethylphenol	UG/L	50	3.5 J	1.0 J			
2-Methylphenol (o-cresol)	UG/L	1					
4-Methylphenol (p-cresol)	UG/L	1					
Benzaldehyde	UG/L	-		0.26 J*	NA		
Benzo(b)fluoranthene	UG/L	0.002					
bis(2-Ethylhexyl)phthalate	UG/L	5			1 J		
Dimethylphthalate	UG/L	50					
Fluoranthene	UG/L	50					
Naphthalene	UG/L	10					
Pyrene	UG/L	50					
Metals							
Aluminum	UG/L	-	170 J	180 J	1,020 J	2,600	3,000
Arsenic	UG/L	25				9.3 J	9.7 J
Barium	UG/L	1000	120	120		55	66
Beryllium	UG/L	3					
Cadmium	UG/L	5					0.67 J
Calcium	UG/L	-	29,200	29,500	15,500	26,700	19,200

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including January 1999 Errata Sheet, April 2000 and June 2004 Addenda. Class GA.

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TABLE 3
HISTORICAL SUMMARY OF DETECTED COMPOUNDS IN GROUNDWATER
KERRY CHEMICAL SITE

Location ID			MW-10S	MW-10S	MW-B1D	MW-B1D	MW-B1D
Sample ID			FD-06182013	MW-10S	MW-B1D-WG	MW-B1D	MW-B1D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/18/13	06/18/13	09/16/10	12/15/11	06/19/13
Parameter	**Units**	*	Field Duplicate (1-1)				
Metals							
Chromium	UG/L	50				7.1	7.6
Cobalt	UG/L	-			0.65 J	1.2 J	1.8 J
Copper	UG/L	200	35	39			4.7 J
Iron	UG/L	300	3,000	3,300	1,700	2,600	4,300
Lead	UG/L	25					
Magnesium	UG/L	35000	2,100	2,100	1,310 J	1,300	2,100
Manganese	UG/L	300	780	770	82.4	110	170
Nickel	UG/L	100			2.2 J	2.1 J	4.3 J
Potassium	UG/L	-	1,900	2,000		2,300	2,500
Selenium	UG/L	10					
Silver	UG/L	50					
Sodium	UG/L	20000	1,900	2,000	2,750 J	3,500	3,500
Thallium	UG/L	0.5					
Vanadium	UG/L	-				4.2 J	5.0
Zinc	UG/L	2000	6.7 J	6.9 J	9.1 J	13	26

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including January 1999 Errata Sheet, April 2000 and June 2004 Addenda. Class GA.

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Advanced Selection: KERRY TAB 3 201
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TABLE 3
HISTORICAL SUMMARY OF DETECTED COMPOUNDS IN GROUNDWATER
KERRY CHEMICAL SITE

Location ID			MW-B1S	MW-B3D	MW-B3D	MW-B3D	MW-B3S
Sample ID			MW-B1S	MW-B3D-WG	MW-B3D	MW-B3D	MW-B3S-WG
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/19/13	09/15/10	12/15/11	06/19/13	09/15/10
Parameter	**Units**	*					
Volatile Organic Compounds							
1,2,4-Trichlorobenzene	UG/L	5					
Acetone	UG/L	50	3.4 J				
Chloromethane	UG/L	5					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Semivolatile Organic Compounds							
2,4-Dimethylphenol	UG/L	50					
2-Methylphenol (o-cresol)	UG/L	1					
4-Methylphenol (p-cresol)	UG/L	1	1.2 J				
Benzaldehyde	UG/L	-	0.33 J*	NA			NA
Benzo(b)fluoranthene	UG/L	0.002	0.72 J				
bis(2-Ethylhexyl)phthalate	UG/L	5	1.7 J				
Dimethylphthalate	UG/L	50					
Fluoranthene	UG/L	50	1.3 J				
Naphthalene	UG/L	10					
Pyrene	UG/L	50	1.2 J				
Metals							
Aluminum	UG/L	-	17,400		140 J	82 J	
Arsenic	UG/L	25	21				
Barium	UG/L	1000	550		56	54	
Beryllium	UG/L	3	1.4 J				
Cadmium	UG/L	5	5.8				
Calcium	UG/L	-	29,400	23,000	26,500	24,900	19,000

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TABLE 3
HISTORICAL SUMMARY OF DETECTED COMPOUNDS IN GROUNDWATER
KERRY CHEMICAL SITE

Location ID			MW-B1S	MW-B3D	MW-B3D	MW-B3D	MW-B3S
Sample ID			MW-B1S	MW-B3D-WG	MW-B3D	MW-B3D	MW-B3S-WG
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/19/13	09/15/10	12/15/11	06/19/13	09/15/10
Parameter	**Units**	*					
Metals							
Chromium	UG/L	50	25		1.2 J		
Cobalt	UG/L	-	15		0.78 J	0.83 J	
Copper	UG/L	200	41				2.6 J
Iron	UG/L	300	29,300	283	140	87	
Lead	UG/L	25	55				
Magnesium	UG/L	35000	4,000	2,650 J	3,100	3,100	3,820 J
Manganese	UG/L	300	1,400	137	500	530	114
Nickel	UG/L	100	28		1.6 J		
Potassium	UG/L	-	5,700	742 J	1,300	900	526 J
Selenium	UG/L	10					
Silver	UG/L	50					16.2 J
Sodium	UG/L	20000	1,600	2,520 J	3,200	3,000	1,470 J
Thallium	UG/L	0.5		7.7 J			5.5 J
Vanadium	UG/L	-	24				
Zinc	UG/L	2000	260	3.9 J	2.7 J	2.6 J	1.8 J

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including January 1999 Errata Sheet, April 2000 and June 2004 Addenda. Class GA.

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TABLE 3
HISTORICAL SUMMARY OF DETECTED COMPOUNDS IN GROUNDWATER
KERRY CHEMICAL SITE

Location ID			MW-B3S	MW-B3S
Sample ID			MW-B3S	MW-B3S
Matrix			Groundwater	Groundwater
Depth Interval (ft)			-	-
Date Sampled			12/15/11	06/19/13
Parameter	**Units**	*		
Volatile Organic Compounds				
1,2,4-Trichlorobenzene	UG/L	5		
Acetone	UG/L	50		
Chloromethane	UG/L	5		
Methyl ethyl ketone (2-Butanone)	UG/L	50		
Semivolatile Organic Compounds				
2,4-Dimethylphenol	UG/L	50		
2-Methylphenol (o-cresol)	UG/L	1		
4-Methylphenol (p-cresol)	UG/L	1		
Benzaldehyde	UG/L	-		
Benzo(b)fluoranthene	UG/L	0.002		
bis(2-Ethylhexyl)phthalate	UG/L	5		
Dimethylphthalate	UG/L	50		
Fluoranthene	UG/L	50		
Naphthalene	UG/L	10		
Pyrene	UG/L	50		
Metals				
Aluminum	UG/L	-		
Arsenic	UG/L	25		
Barium	UG/L	1000	120	110
Beryllium	UG/L	3		
Cadmium	UG/L	5		
Calcium	UG/L	-	19,700	17,500

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including January 1999 Errata Sheet, April 2000 and June 2004 Addenda. Class GA.

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TABLE 3
HISTORICAL SUMMARY OF DETECTED COMPOUNDS IN GROUNDWATER
KERRY CHEMICAL SITE

Location ID			MW-B3S	MW-B3S
Sample ID			MW-B3S	MW-B3S
Matrix			Groundwater	Groundwater
Depth Interval (ft)			-	-
Date Sampled			12/15/11	06/19/13
Parameter	**Units**	*		
Metals				
Chromium	UG/L	50	1.0 J	
Cobalt	UG/L	-		
Copper	UG/L	200		
Iron	UG/L	300	66	25 J
Lead	UG/L	25		
Magnesium	UG/L	35000	4,400	3,900
Manganese	UG/L	300	390	320
Nickel	UG/L	100		
Potassium	UG/L	-	800	730
Selenium	UG/L	10		
Silver	UG/L	50		
Sodium	UG/L	20000	1,700	1,600
Thallium	UG/L	0.5		
Vanadium	UG/L	-		
Zinc	UG/L	2000	2.7 J	2.7 J

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including January 1999 Errata Sheet, April 2000 and June 2004 Addenda. Class GA.

Flags assigned during chemistry validation are shown.

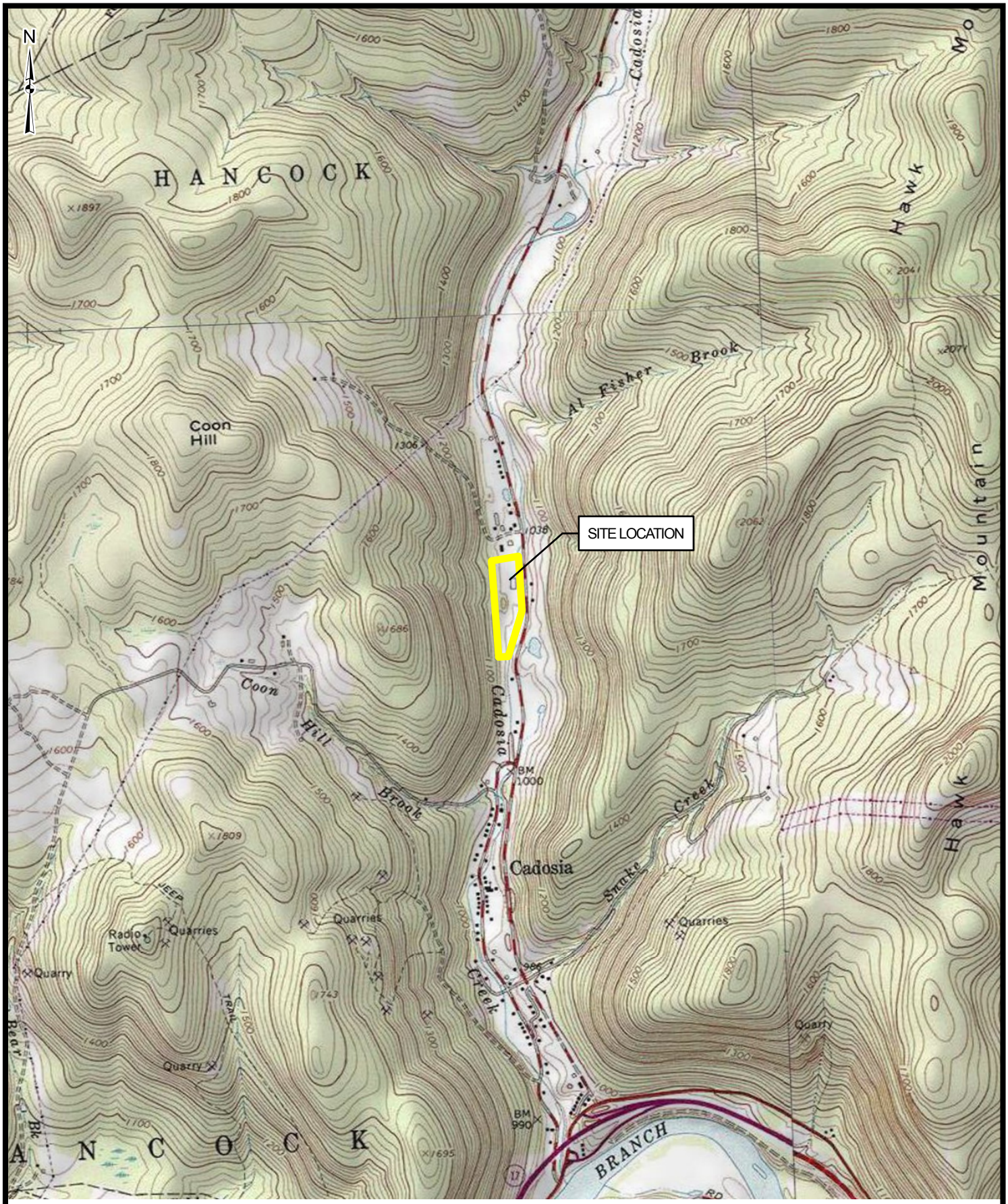
Concentration Exceeds

- - No criteria. Blank cell - Not detected.

J - The reported concentration is an estimated value.

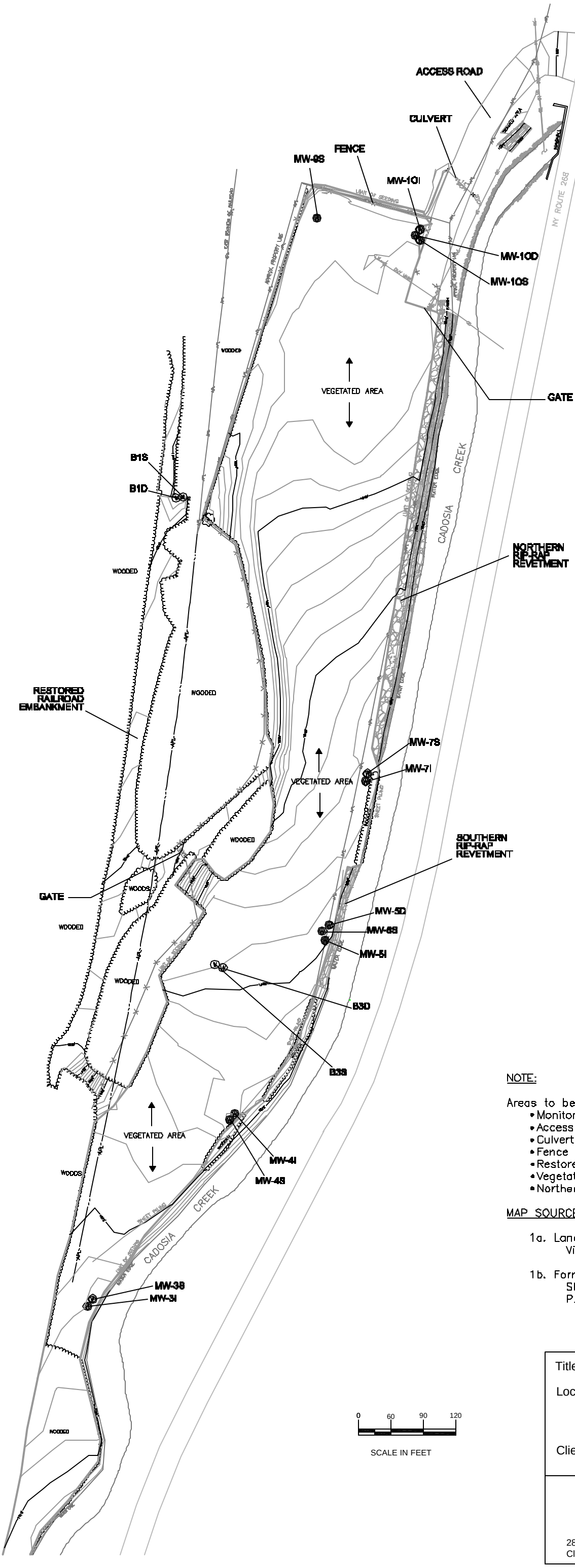
Only Detected Results Reported.

FIGURES



URS	SITE LOCATION MAP KERRY CEHMICAL COMPANY HANCOCK, NY	FIGURE 1

I:\11176206\GIS\Maps\1 - SiteLocation.mxd 1/13/2011 MDL



LEGEND

- FENCE
- OVERHEAD ELECTRIC LINE
- OVERHEAD TELEPHONE LINE
- OVERHEAD CABLE T.V. LINE
- APPROXIMATE PROPERTY LINE
- WOODED AREA
- SHEET PILING
- LIMITS OF SEEDING/TOPSOIL
- CULVERT PIPE
- RIP-RAP
- NEW MONITORING WELL — MW-10I
- EXISTING MONITORING WELL — B3D

NOTE:

Areas to be monitored and maintained include:

- Monitoring Wells
- Access Road
- Culvert Under Access Road
- Fence
- Restored Railroad Embankment
- Vegetated Area
- Northern and Southern Revetments

MAP SOURCE:

1a. Lands of Carme S. Vitale, Jr. and James F. Vitale surveyed by David J. Beers August 1, 1991.

1b. Former Kerry Chemical Site, As-Built Survey, Shumaker Consulting Engineering & Land Surveying, P.C., January 3, 2008.

Title:	SITE PLAN
Location:	KERRY CHEMICAL COMPANY APEX CADOSIA ROAD HANCOCK, NEW YORK
Client:	NYSDEC

URS Corporation
28 Corporate Drive, Suite 200
Clifton Park, New York 12065

Drafter: DAD	Date: January 2008
Drg. Size: 11x17	Job No.: 11174594.00002

FIGURE 2

J:\11174594\CAD\Fig 2 Site Plan.dwg

I:\11176206\GIS\Maps\061813_SHALLOW GW CONTOURS.mxd 7/26/2013 MDL

URS

KERRY CHEMICAL COMPANY
POTENTIOMETRIC SURFACE MAP FOR SHALLOW GROUNDWATER
JUNE 18, 2013

FIGURE 3

I:\11176206\GIS\Maps\061813_INTERMEDIATE GW CONTOURS.mxd 11/20/2013 MDL

URS

KERRY CHEMICAL COMPANY
POTENTIOMETRIC SURFACE MAP FOR INTERMEDIATE GROUNDWATER
JUNE 18, 2013

FIGURE 4

I:\11176206\GIS\Maps\061813_DEEP GW CONTOURS.mxd 7/26/2013 MDL

N

ACCESS ROAD

MW-10D, 1028.49

MW-B1D, 1028.77

MW-05D, 1016.04

MW-B3D, 1016.32

CADOSIA CREEK

NY ROUTE 268

1028

1026

1024

1022

1020

1018

1016

Legend

- Monitoring Well
- Groundwater Flow Direction
- Potentiometric Surface Contour (1020)
- Site Boundary
- Fence
- Treeline
- MW-03S, 1011.27 (Location ID / Groundwater Elevation (FT AMSL))

FT AMSL = FEET ABOVE MEAN SEA LEVEL

150 0 150 Feet

URS

KERRY CHEMICAL COMPANY
POTENTIOMETRIC SURFACE MAP FOR DEEP GROUNDWATER
JUNE 18 & 19, 2013

FIGURE 5

I:\11176206\GIS\Maps\2010_2011_2013_GROUNDWATER EXCEEDANCES.mxd 12/2/2013

N

ACCESS ROAD

CADOSIA CREEK

NY ROUTE 268

MW-09S	CRIT	9/10	12/11	6/13
MET:				
Iron	300	4570	10000	3500
Manganese	300	942	410	BC
Thallium	0.5	9.6	ND	ND

MW-10I	CRIT	9/10	12/11	6/13
MET:				
Iron	300	BC	2200	1100
Manganese	300	473	710	620
Thallium	0.5	6.1	ND	ND

MW-10D	CRIT	9/10	12/11	6/13
MET:				
Iron	300	386	1000	400
Thallium	0.5	9.4	ND	ND

MW-10S	CRIT	9/10	12/11	6/13
SVOCs:				
2-Methylphenol (o-cresol)	1	2	ND	ND
MET:				
Iron	300	8600	7700	3300
Manganese	300	2440	1300	780
Thallium	0.5	30.2	ND	ND

MW-B1S	CRIT	9/10	12/11	6/13
SVOCs:				
4-Methylphenol (p-cresol)	1	NS	NS	1.2
Benzo(b)fluoranthene	0.002	NS	NS	0.72
MET:				
Cadmium	5	NS	NS	5.8
Iron	300	NS	NS	29300
Lead	25	NS	NS	55
Manganese	300	NS	NS	1400

MW-B1D	CRIT	9/10	12/11	6/13
MET:				
Iron	300	1700	2600	4300

MW-07S	CRIT	9/10	12/11	6/13
MET:				
Iron	300	8470	BC	BC
Manganese	300	5340	BC	BC
Thallium	0.5	32.3	ND	ND

MW-07I	CRIT	9/10	12/11	6/13
MET:				
Iron	300	391	740	370
Manganese	300	861	670	420
Thallium	0.5	14.1	ND	ND

MW-B3S	CRIT	9/10	12/11	6/13
MET:				
Manganese	300	BC	390	320
Thallium	0.5	5.5	ND	ND

MW-05D	CRIT	9/10	12/11	6/13
MET:				
Iron	300	416	3800	1100
Manganese	300	BC	670	BC
Thallium	0.5	8.4	ND	ND

MW-B3D	CRIT	9/10	12/11	6/13
MET:				
Manganese	300	BC	500	530
Thallium	0.5	7.7	ND	ND

MW-05S	CRIT	9/10	12/11	6/13
MET:				
Iron	300	419	450	BC
Manganese	300	3460	870	BC
Thallium	0.5	40.2	ND	ND

MW-05I	CRIT	9/10	12/11	6/13
MET:				
Thallium	0.5	6.7	ND	ND

MW-04I	CRIT	9/10	12/11	6/13
MET:				
Iron	300	ND	BC	310
Manganese	300	651	1200	2800
Thallium	0.5	11.8	ND	ND

MW-03S	CRIT	9/10	12/11	6/13
MET:				
Iron	300	2390	1100	650
Manganese	300	2230	1300	1000
Thallium	0.5	12.9	ND	ND

MW-04S	CRIT	9/10	12/11	6/13
MET:				
Arsenic	25	109	100	170
Iron	300	9780	9000	14200
Manganese	300	3680	4200	3900
Thallium	0.5	18.9	ND	ND

MW-03I	CRIT	9/10	12/11	6/13
MET:				
Iron	300	BC	750	BC

Legend

- Monitoring Well
- Site Boundary
- Fence
- Treeline

Sample ID — Sample Date

MW-B1D	CRIT	9/10
Metals:		
Iron	300	2600

Compound — Criteria (TOGS) — Result (UG/L)

NOTES:
ND - Non Detect
BC - Below Criteria
NS - Not Sampled

150 0 150 Feet

URS

KERRY CHEMICAL COMPANY
GROUNDWATER EXCEEDANCES

FIGURE 6

APPENDIX A

PHOTOGRAPHIC LOG

KERRY CHEMICAL SITE
SITE MANAGEMENT-2013
PHOTOGRAPHIC LOG
TOWN OF HANCOCK, NEW YORK

Photo 1: Purging monitoring well MW-9S prior to sample collection using GeoPump 2 peristaltic pump with dedicated/disposable tubing and Horiba U-52 water quality meter and flow cell.

Photo 2: Rip rap along the west side of Cadosia Creek, looking north.

KERRY CHEMICAL SITE
SITE MANAGEMENT-2013
PHOTOGRAPHIC LOG
TOWN OF HANCOCK, NEW YORK

Photo 3: Looking south across the site. Picture taken from west shoreline of Cadosia Creek.

Photo 4: Rip rap along the west side of Cadosia Creek, looking north.

KERRY CHEMICAL SITE
SITE MANAGEMENT-2013
PHOTOGRAPHIC LOG
TOWN OF HANCOCK, NEW YORK

Photo 5: Close up of rip rap and sheet pile along the west side of Cadosia Creek.

Photo 6: Looking south at the sheet pile along the west side of Cadosia Creek.

KERRY CHEMICAL SITE
SITE MANAGEMENT-2013
PHOTOGRAPHIC LOG
TOWN OF HANCOCK, NEW YORK

Photo 7: Looking southwest down Cadosia Creek along the east side of the site.

Photo 8: Monitoring well MW-B3S, looking south.

KERRY CHEMICAL SITE
SITE MANAGEMENT-2013
PHOTOGRAPHIC LOG
TOWN OF HANCOCK, NEW YORK

Photo 9: Rip rap along the west side of Cadosia Creek, looking south.

Photo 10: Looking north across the site. Picture taken from southern end of site.

KERRY CHEMICAL SITE
SITE MANAGEMENT-2013
PHOTOGRAPHIC LOG
TOWN OF HANCOCK, NEW YORK

Photo 11: Monitoring well MW-3S, looking southeast.

Photo 12: Purging at monitoring well MW-3I prior to sample collection, looking southwest.

KERRY CHEMICAL SITE
SITE MANAGEMENT-2013
PHOTOGRAPHIC LOG
TOWN OF HANCOCK, NEW YORK

Photo 13: Access Road, looking north from the site. Note vegetation growing through gravel access road. Picture taken from just inside site entrance gate.

Photo 14: Looking south from northeast access road to the site. Note vegetation growing through gravel access road. Gate is in good condition.

APPENDIX B

FIELD NOTES

Location _____ Date 6/18/13

Project / Client Kerry Chemical / NYSDEC

~ 7:00 am left home
~ 7:30 amish Tim + Chuck Met @ old Borden Rd - left CDi truck - Travel to site - in rental 4x4 PU
~ 12:45 ck in @ Colonial Motel / Lunch / ckd emails - quickly
~ 1:30 on site. arrived H+S Mtg - brief Tim forgot plan - Route to hospital - will need to call him - be careful of wildlife / insects / ~~snakes~~ CD snakes
- set up @ MW-10D - Tim will begin sampling Chuck will collect H2O level measurements
- Calibrate Horiba U-52

Solution	Meter
pH - 4.0	4.01 pH
Cond - 4.49 mS/cm	4.72 mS/cm
Turb - 0.0 NTU	0.0 NTU
DO	8.51 mg/L

1436 - Begin sampling MW-10S. Will collect samples for TCL VOCs, TCL SVOCs + TAL Metals @ each location.
1506 - Sample MW-10S. Also collect Field duplicate @ 10S.

Location _____ Date 6/18/13

Project / Client Kerry Chemical ~75° F humid

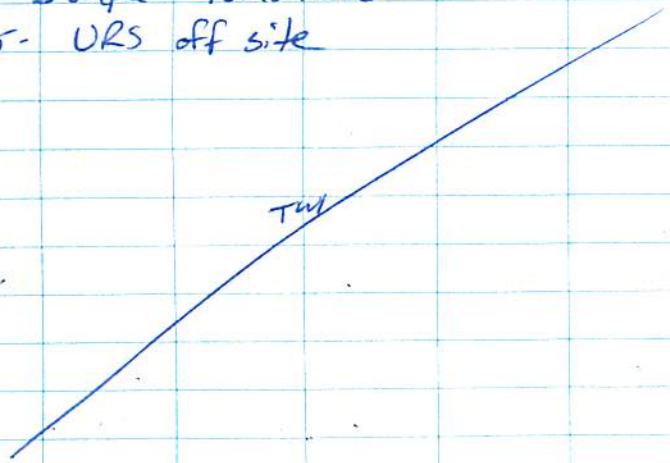
	Well ID	DTW	DTB	comment
	~~MW~~B3S	7.38	32.28	Soft
15:27	B3D	7.16	50.66	Soft
	MW-4S	6.71	17.05	Soft hard
	4I	5.25	46.07	Med
	5S	6.68	17.49	hard
	5I	3.92	47.34	med
	5D	5.98	89.98	?
	7S	7.87	17.20	Soft-hard
14:50	7I	3.83	47.12	Med
	9S	4.43	27.98	Soft
	10S	8.03	17.04	soft.
	10I	8.16	60.21	Soft
	10D	6.96	72.85	Soft
	B1S	6.20	15.15	soft
	B1D			soft
MW	#3S	4.0	18.40	Soft
MW	#3~~D~~I	1.69	62.47	Soft

~~B3I is tot tot B3D on well~~ ?

Location Hancock, NY Date 6/18/13

Project / Client Kerry Chemical / NYSDEC

1528 - Begin to purge MW-10D.
1628 - Collect sample from 10D.
1636 - Begin to purge MW-10I
1736 - Collect sample from 10I
1844 - Located wells MW-3S & MW-3I & moved to MW-B1D.
Bailed 8 gal. out of MW-B1D to dry. Will return tomorrow to grab a sample.
1905 - Bailed 2 gal out of MW-B1S to dry, will try to grab a sample tomorrow
1915 - URS off site



Location Hancock, NY Date 6/19/13

Project / Client Kerry Chemical / NYSDEC

Weather - Sunny, ~75°
0730 - URS onsite - Chuck Dusel & Tim Ifkovich. Will continue to collect groundwater samples.
- Calibrate Horiba U-52

Solution	Meter
pH - 4.0	3.99 pH
Cond. - 4.49 ms/cm	4.75 ms/cm
Turb - 0.0 NTU	0.0 NTU

0751 - Begin to purge MW-9S
0821 - Collect sample @ MW-9S
0835 - CD & TI leave site, meet Mike Mason & Chris (NYSDEC) for breakfast
0940 - Return to site w/ Mike & Chris & continue to sample
1004 - Begin to purge MW-7S.
1034 - Collect sample from 7S. Also collected MS/MSD.
1058 - Begin to purge MW-7I
1158 - Collect sample @ MW-7I
1222 - Begin to purge MW-5D
1300 - CD, MM, & Chris off site for lunch

Location Hancock, NY Date 6/19/13

Project / Client Kerry Chemical / NYSDEC

1322- Collect sample @ MW-5D
1335- Begin to Purge MW-5S
1400- Collect sample @ MW-5S
1415- CO, MM + Chris return to site
1410- Begin to purge MW-5I
1420- MM + Chris offsite
1455- Sampled MW-5I
1515- Collected sample @ MW-B1S w/ mini bailer. WL was @ 8.90
1526- Collected sample @ MW-B1D w/ bailer
1555- Begin to purge MW-3S
1620- Sampled MW-3S
1625- Begin to purge MW-3I
1655- Collect sample from MW-3I
1700- Begin to purge MW-4I
1730- Collect sample from MW-4I
1735- Begin to purge MW-4S
1800- Collect Sample From MW-4S
1805- Begin to purge MW-B3D
1835- Collect Sample from MW-B3D
1840- Begin to purge MW-B3S
1920- Collect Sample From MW-B3S
1930- Cleaned up site. URS offsite

Location Date

Project / Client

APPENDIX C

WELL PURGE LOGS

WELL PURGE LOG

URS Corporation

PROJECT TITLE: Former Kerry Chemical Site WELL NO.: MW- B1D

PROJECT NO.: 11176852.00004 Page: 1 of 1

STAFF: T. Ifkovich, C. Dusel

DATE(S): 6/18/2013, 6/19/2013

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	53.65	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	18.61	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	35.04	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	5.96	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	17.9	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	8.0	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

	6/18/2013								6/19/13		
PARAMETERS	Initial	1	3	4	5	6	7	8	Sample		
pH	10.46	10.29	10.23	10.17	10.05	9.88	9.99	9.87	10.07		
SPEC. COND. (mS)	0.172	0.201	0.188	0.171	0.144	0.129	0.149	0.134	0.156		
TEMPERATURE (°C)	11.99	11.25	11.46	11.28	11.71	11.43	11.38	11.21	11.86		
TURBIDITY (NTU)	14.5	7.4	20.2	20.1	224	222	>800	>800	23.7		
DO (mg/L)	5.41	4.50	5.63	4.29	4.83	6.67	6.26	7.73	5.76		
ORP (mV)	90	100	104	107	110	118	121	85	97		

COMMENTS: Well purged using dedicated/disposable bailer left in well.
Well was bailed dry on 6/18/2013. Returned on 6/19/2013 to collect sample.

Sample ID - MW-B1D
Time - 1526
Water Level (6/19/2013) - 19.10 ft

WELL PURGE LOG

URS Corporation

PROJECT TITLE: Former Kerry Chemical Site WELL NO.: MW- B1S

PROJECT NO.: 11176852.00004 Page: 1 of 1

STAFF: T. Ifkovich, C. Dusel

DATE(S): 6/18/2013, 6/19/2013

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	15.15	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	6.20	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	8.95	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	1.52	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	4.6	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	2.0	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

	6/18/2013			6/19/13							
PARAMETERS	Initial	1	2	Sample							
pH	8.42	7.97	7.55	7.60							
SPEC. COND. (mS)	0.073	0.070	0.081	0.092							
TEMPERATURE (°C)	12.61	12.32	12.17	14.48							
TURBIDITY (NTU)	99.3	210	>800	>800							
DO (mg/L)	5.08	5.53	5.39	1.89							
ORP (mV)	135	156	163	27							

COMMENTS: Well purged using dedicated/disposable mini-bailer left in well.
Well was bailed dry on 6/18/2013. Returned on 6/19/2013 to collect sample.

Sample ID - MW-B1S
Time - 1515
Water Level (6/19/2013) - 8.90 ft

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176852.00004 Site: Former Kerry Chemical Well ID.: MW-B3D

Sampling Personnel: T. Ifkovich, C. Dusel Date: 6/19/2013 Company: URS Corporation

Purging/ Sampling Device: Geopump Tubing Type: LDPE/Silicone Tubing Inlet: Screen Midpoint

Measuring Point: TOC Initial Depth to Water: 7.23 Depth to Well Bottom: 50.52 Well Diameter: 2" Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 26.7 Estimated Purge Volume (liters): 14.1

Sample ID: MW-B3D Sample Time: 1835 QA/QC: --

Sample Parameters: TCL VOCs + TICs, TCL SVOCs + TICs, TAL Metals

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1805	7.03	14.15	0.114	0.00	0.0	-23	500	7.23
1810	7.25	13.25	0.116	0.00	0.8	-45	525	9.88
1815	7.37	12.95	0.116	0.00	0.0	-61	525	11.42
1820	7.40	12.90	0.116	0.00	0.0	-65	420	11.62
1825	7.39	12.68	0.117	0.00	0.0	-64	420	11.75
1830	7.38	12.50	0.117	0.00	0.0	-62	420	11.86
1835	7.37	12.30	0.118	0.00	0.0	-59	420	12.17
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176852.00004 Site: Former Kerry Chemical Well ID.: MW-B3S

Sampling Personnel: T. Ifkovich, C. Dusel Date: 6/19/2013 Company: URS Corporation

Purging/ Sampling Device: Geopump Tubing Type: LDPE/Silicone Tubing Inlet: Screen Midpoint

Measuring Point: TOC Initial Depth to Water: 7.50 Depth to Well Bottom: 32.28 Well Diameter: 2" Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 15.3 Estimated Purge Volume (liters): 20.5

Sample ID: MW-B3S Sample Time: 1920 QA/QC: --

Sample Parameters: TCL VOCs + TICs, TCL SVOCs + TICs, TAL Metals

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1840	8.09	10.97	0.125	0.00	31.6	-3	450	7.50
1845	8.15	10.18	0.126	0.00	6.9	-31	450	8.04
1850	8.03	10.16	0.124	0.00	0.0	-28	450	8.04
1855	7.70	10.01	0.124	0.00	0.0	-13	550	8.13
1900	7.51	9.98	0.121	0.00	0.0	-1	550	8.12
1905	7.10	9.94	0.110	0.00	0.0	32	550	8.12
1910	6.99	9.91	0.105	0.00	0.0	50	550	8.14
1915	7.20	9.93	0.101	0.00	0.0	48	550	8.14
1920	7.24	9.91	0.096	0.00	0.0	40	550	8.14
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176852.00004 Site: Former Kerry Chemical Well ID.: MW-3I

Sampling Personnel: T. Ifkovich, C. Dusel Date: 6/19/2013 Company: URS Corporation

Purging/ Sampling Device: Geopump Tubing Type: LDPE/Silicone Tubing Inlet: Screen Midpoint

Measuring Point: TOC Initial Depth to Water: 1.69 Depth to Well Bottom: 62.47 Well Diameter: 2" Screen Length: 10'

Casing Type: Stainless Steel Volume in 1 Well Casing (liters): 37.5 Estimated Purge Volume (liters): 15.0

Sample ID: MW-3I Sample Time: 1655 QA/QC: --

Sample Parameters: TCL VOCs + TICs, TCL SVOCs + TICs, TAL Metals

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1625	8.03	14.90	0.125	0.00	0.0	29	500	1.69
1630	8.32	14.17	0.127	0.00	0.0	7	500	4.15
1635	8.33	13.69	0.128	0.00	0.0	2	500	4.77
1640	8.30	13.51	0.129	0.00	0.0	9	500	5.13
1645	8.21	13.38	0.130	0.00	0.0	17	500	5.25
1650	8.11	13.23	0.132	0.00	0.0	23	500	5.35
1655	8.20	13.14	0.133	0.00	0.0	19	500	5.45
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176852.00004 Site: Former Kerry Chemical Well ID.: MW-3S

Sampling Personnel: T. Ifkovich, C. Dusel Date: 6/19/2013 Company: URS Corporation

Purging/ Sampling Device: Geopump Tubing Type: LDPE/Silicone Tubing Inlet: Screen Midpoint

Measuring Point: TOC Initial Depth to Water: 4.00 Depth to Well Bottom: 32.12 Well Diameter: 2" Screen Length: 10'

Casing Type: Stainless Steel Volume in 1 Well Casing (liters): 17.4 Estimated Purge Volume (liters): 17.3

Sample ID: MW-3S Sample Time: 1620 QA/QC: --

Sample Parameters: TCL VOCs + TICs, TCL SVOCs + TICs, TAL Metals

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1555	7.59	15.86	0.135	0.63	533	144	650	4.00
1600	6.85	14.67	0.093	0.00	16.0	74	700	4.45
1605	6.65	14.75	0.097	0.00	0.0	54	700	4.45
1610	6.53	14.49	0.100	0.00	0.0	50	700	4.45
1615	6.48	14.43	0.100	0.00	0.0	48	700	4.45
1620	6.41	14.56	0.101	0.00	0.0	43	700	4.45
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176852.00004 Site: Former Kerry Chemical Well ID.: MW-4I

Sampling Personnel: T. Ifkovich, C. Dusel Date: 6/19/2013 Company: URS Corporation

Purging/ Sampling Device: Geopump Tubing Type: LDPE/Silicone Tubing Inlet: Screen Midpoint

Measuring Point: TOC Initial Depth to Water: 5.25 Depth to Well Bottom: 46.07 Well Diameter: 2" Screen Length: 10'

Casing Type: Stainless Steel Volume in 1 Well Casing (liters): 25.2 Estimated Purge Volume (liters): 15.0

Sample ID: MW-4I Sample Time: 1730 QA/QC: --

Sample Parameters: TCL VOCs + TICs, TCL SVOCs + TICs, TAL Metals

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1700	8.03	14.10	0.127	0.00	37.4	92	650	5.25
1705	7.82	13.43	0.128	0.00	44.6	100	650	8.28
1710	7.69	13.41	0.129	0.00	43.3	99	450	9.52
1715	7.61	13.39	0.129	0.00	28.7	98	450	10.60
1720	7.95	13.80	0.128	0.00	14.1	75	400	10.94
1725	8.01	13.91	0.127	0.00	6.7	69	400	11.42
1730	7.99	13.89	0.127	0.00	1.4	68	400	11.49
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176852.00004 Site: Former Kerry Chemical Well ID.: MW-4S

Sampling Personnel: T. Ifkovich, C. Dusel Date: 6/19/2013 Company: URS Corporation

Purging/ Sampling Device: Geopump Tubing Type: LDPE/Silicone Tubing Inlet: Screen Midpoint

Measuring Point: TOC Initial Depth to Water: 6.67 Depth to Well Bottom: 17.05 Well Diameter: 2" Screen Length: 10'

Casing Type: Stainless Steel Volume in 1 Well Casing (liters): 6.4 Estimated Purge Volume (liters): 9.0

Sample ID: MW-4S Sample Time: 1800 QA/QC: --

Sample Parameters: TCL VOCs + TICs, TCL SVOCs + TICs, TAL Metals

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1735	8.18	16.41	0.112	4.49	238	104	360	6.67
1740	7.00	11.79	0.118	0.00	107	-65	360	6.89
1745	6.86	11.59	0.119	0.00	77.5	-66	360	6.88
1750	6.80	11.62	0.119	0.00	56.9	-65	360	6.88
1755	6.82	11.62	0.118	0.00	36.0	-68	360	6.88
1800	6.85	11.61	0.119	0.00	32.0	-72	360	6.88
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176852.00004 Site: Former Kerry Chemical Well ID.: MW-5D

Sampling Personnel: T. Ifkovich, C. Dusel Date: 6/19/2013 Company: URS Corporation

Purging/ Sampling Device: Geopump Tubing Type: LDPE/Silicone Tubing Inlet: Screen Midpoint

Measuring Point: TOC Initial Depth to Water: 6.02 Depth to Well Bottom: 89.98 Well Diameter: 2" Screen Length: 10'

Casing Type: Stainless Steel Volume in 1 Well Casing (liters): 51.8 Estimated Purge Volume (liters): 38.0

Sample ID: MW-5D Sample Time: 1322 QA/QC: --

Sample Parameters: TCL VOCs + TICs, TCL SVOCs + TICs, TAL Metals

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1222	8.20	13.49	0.148	3.31	0.0	118	550	6.02
1227	8.13	11.86	0.147	1.84	0.0	118	550	6.31
1232	8.04	11.72	0.146	1.53	0.0	119	650	6.36
1237	7.98	11.66	0.147	0.64	0.0	120	650	6.41
1242	7.90	11.59	0.147	0.00	0.0	121	650	6.43
1247	7.84	11.61	0.147	0.00	0.0	120	650	6.44
1252	7.73	11.59	0.148	0.00	0.0	122	650	6.45
1257	7.67	11.55	0.147	0.00	0.0	123	650	6.45
1302	7.61	11.58	0.147	0.00	0.0	123	650	6.45
1307	8.10	11.73	0.146	0.00	0.0	92	650	6.45
1312	8.04	11.71	0.146	0.00	0.0	90	650	6.45
1317	7.99	11.69	0.146	0.00	0.0	89	650	6.45
1322	7.95	11.67	0.146	0.00	0.0	88	650	6.45
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176852.00004 Site: Former Kerry Chemical Well ID.: MW-5I

Sampling Personnel: T. Ifkovich, C. Dusel Date: 6/19/2013 Company: URS Corporation

Purging/ Sampling Device: Geopump Tubing Type: LDPE/Silicone Tubing Inlet: Screen Midpoint

Measuring Point: TOC Initial Depth to Water: 3.92 Depth to Well Bottom: 47.34 Well Diameter: 2" Screen Length: 10'

Casing Type: Stainless Steel Volume in 1 Well Casing (liters): 26.8 Estimated Purge Volume (liters): 18.5

Sample ID: MW-5I Sample Time: 1455 QA/QC: --

Sample Parameters: TCL VOCs + TICs, TCL SVOCs + TICs, TAL Metals

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1410	7.00	12.21	0.134	0.24	0.0	82	500	3.92
1415	7.82	12.04	0.133	0.00	0.0	44	500	7.02
1420	7.89	11.53	0.133	0.00	0.0	32	500	10.14
1425	7.91	11.55	0.133	0.00	0.0	17	500	12.11
1430	7.81	11.89	0.133	0.00	0.0	11	300	12.16
1435	7.81	11.83	0.133	0.00	0.0	0	350	12.16
1440	7.78	11.90	0.133	0.00	0.0	-10	350	12.25
1445	8.12	11.89	0.133	0.00	0.0	-36	350	12.36
1450	8.09	11.85	0.133	0.00	0.0	-40	350	12.51
1455	8.09	11.93	0.132	0.00	0.0	-43	350	12.57
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176852.00004 Site: Former Kerry Chemical Well ID.: MW-5S

Sampling Personnel: T. Ifkovich, C. Dusel Date: 6/19/2013 Company: URS Corporation

Purging/ Sampling Device: Geopump Tubing Type: LDPE/Silicone Tubing Inlet: Screen Midpoint

Measuring Point: TOC Initial Depth to Water: 6.64 Depth to Well Bottom: 17.49 Well Diameter: 2" Screen Length: 10'

Casing Type: Stainless Steel Volume in 1 Well Casing (liters): 6.7 Estimated Purge Volume (liters): 13.8

Sample ID: MW-5S Sample Time: 1400 QA/QC: --

Sample Parameters: TCL VOCs + TICs, TCL SVOCs + TICs, TAL Metals

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1335	7.90	13.27	0.110	2.72	12.6	98	550	6.64
1340	6.91	11.27	0.106	1.30	0.0	116	550	6.87
1345	6.68	11.42	0.106	1.35	0.0	122	550	6.87
1350	6.57	11.42	0.107	1.11	0.0	113	550	6.87
1355	6.52	11.43	0.108	1.06	0.0	109	550	6.87
1400	6.49	11.44	0.109	1.01	0.0	109	550	6.87
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176852.00004 Site: Former Kerry Chemical Well ID.: MW-7I

Sampling Personnel: T. Ifkovich, C. Dusel Date: 6/19/2013 Company: URS Corporation

Purging/ Sampling Device: Geopump Tubing Type: LDPE/Silicone Tubing Inlet: Screen Midpoint

Measuring Point: TOC Initial Depth to Water: 3.78 Depth to Well Bottom: 47.12 Well Diameter: 2" Screen Length: 10'

Casing Type: Stainless Steel Volume in 1 Well Casing (liters): 26.7 Estimated Purge Volume (liters): 8.0

Sample ID: MW-7I Sample Time: 1158 QA/QC: --

Sample Parameters: TCL VOCs + TICs, TCL SVOCs + TICs, TAL Metals

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1058	7.46	13.75	0.135	0.00	0.0	155	600	3.78
1103	7.73	13.12	0.137	0.00	0.0	150	250	9.50
1108	7.85	13.63	0.136	0.00	0.0	141	250	11.88
1113	7.88	13.68	0.136	0.00	0.0	139	250	13.12
1118	7.93	13.85	0.135	0.00	0.0	134	250	14.80
1123	7.87	13.46	0.138	0.00	0.0	136	150	16.02
1128	7.88	13.45	0.138	0.00	0.0	133	150	17.07
1133	8.01	13.64	0.137	0.00	0.0	124	150	18.35
1138	8.13	13.80	0.136	0.00	0.0	117	150	19.41
1143	8.19	14.14	0.135	0.00	0.0	111	150	20.23
1148	8.22	14.48	0.134	0.00	0.0	108	150	21.00
1153	8.28	15.24	0.131	0.00	0.0	104	150	21.86
1158	8.26	15.39	0.131	0.00	0.0	103	150	22.60
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176852.00004 Site: Former Kerry Chemical Well ID.: MW-7S

Sampling Personnel: T. Ifkovich, C. Dusel Date: 6/19/2013 Company: URS Corporation

Purging/ Sampling Device: Geopump Tubing Type: LDPE/Silicone Tubing Inlet: Screen Midpoint

Measuring Point: TOC Initial Depth to Water: 7.80 Depth to Well Bottom: 17.20 Well Diameter: 2" Screen Length: 10'

Casing Type: Stainless Steel Volume in 1 Well Casing (liters): 5.8 Estimated Purge Volume (liters): 12.8

Sample ID: MW-7S, MW-7S-MS, MW-7S-MSD Sample Time: 1034 QA/QC: MS/MSD

Sample Parameters: TCL VOCs + TICs, TCL SVOCs + TICs, TAL Metals

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1004	6.99	12.00	0.124	4.63	34.7	131	425	7.80
1009	6.72	11.18	0.126	2.92	0.0	142	425	7.97
1014	6.65	11.07	0.126	2.43	0.0	151	425	7.97
1019	6.56	10.97	0.127	1.91	0.0	157	425	7.97
1024	6.53	10.95	0.127	0.87	0.0	160	425	7.97
1029	6.50	10.89	0.128	0.74	0.0	163	425	7.97
1034	6.48	10.85	0.128	0.68	0.0	167	425	7.97
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176852.00004 Site: Former Kerry Chemical Well ID.: MW-9S

Sampling Personnel: T. Ifkovich, C. Dusel Date: _____ Company: URS Corporation

Purging/ Sampling Device: Geopump Tubing Type: LDPE/Silicone Tubing Inlet: Screen Midpoint

Measuring Point: TOC Initial Depth to Water: 4.43 Depth to Well Bottom: 27.98 Well Diameter: 2" Screen Length: 20'

Casing Type: Stainless Steel Volume in 1 Well Casing (liters): 14.5 Estimated Purge Volume (liters): 19.5

Sample ID: MW-9S Sample Time: 0821 QA/QC: --

Sample Parameters: TCL VOCs + TICs, TCL SVOCs + TICs, TAL Metals

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0751	8.38	16.91	0.070	1.68	32.4	1	650	4.43
0756	6.97	12.20	0.070	0.00	5.8	-14	650	5.40
0801	6.81	11.64	0.072	0.00	49.4	-4	650	5.40
0806	6.53	11.57	0.072	0.00	44.5	9	650	5.40
0811	6.38	11.49	0.072	0.00	28.6	18	650	5.40
0816	6.37	11.48	0.072	0.00	27.6	19	650	5.40
0821	6.34	11.49	0.071	0.00	31.3	23	650	5.40
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176852.00004 Site: Former Kerry Chemical Well ID.: MW-10D

Sampling Personnel: T. Ifkovich, C. Dusel Date: 6/18/2013 Company: URS Corporation

Purging/ Sampling Device: Geopump Tubing Type: LDPE/Silicone Tubing Inlet: Screen Midpoint

Measuring Point: TOC Initial Depth to Water: 6.74 Depth to Well Bottom: 72.38 Well Diameter: 2" Screen Length: 10'

Casing Type: Stainless Steel Volume in 1 Well Casing (liters): 40.5 Estimated Purge Volume (liters): 21.0

Sample ID: MW-10D Sample Time: 1628 QA/QC: --

Sample Parameters: TCL VOCs + TICs, TCL SVOCs + TICs, TAL Metals

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1528	6.70	16.86	0.113	0.40	0.0	75	250	6.74
1533	7.06	14.81	0.116	0.00	0.0	58	400	8.45
1538	7.43	14.70	0.118	0.00	0.0	40	400	8.91
1543	7.47	14.70	0.118	0.00	0.0	37	350	8.98
1548	7.47	14.89	0.119	0.00	0.0	36	350	9.00
1553	7.46	15.00	0.118	0.00	0.0	37	350	9.00
1558	7.53	15.81	0.117	0.00	0.0	33	350	9.00
1603	7.60	16.07	0.115	0.00	0.0	39	350	9.00
1608	7.67	16.35	0.115	0.00	0.0	37	350	9.00
1613	7.60	14.85	0.117	0.00	0.0	38	350	9.00
1618	7.57	13.97	0.120	0.00	0.0	40	350	9.00
1623	7.53	12.65	0.123	0.00	0.0	41	350	9.00
1628	7.51	12.46	0.124	0.00	0.0	44	350	9.00
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176852.00004 Site: Former Kerry Chemical Well ID.: MW-10S

Sampling Personnel: T. Ifkovich, C. Dusel Date: 6/18/2013 Company: URS Corporation

Purging/ Sampling Device: Geopump Tubing Type: LDPE/Silicone Tubing Inlet: Screen Midpoint

Measuring Point: TOC Initial Depth to Water: 8.03 Depth to Well Bottom: 17.04 Well Diameter: 2" Screen Length: 10'

Casing Type: Stainless Steel Volume in 1 Well Casing (liters): 5.6 Estimated Purge Volume (liters): 14.3

Sample ID: MW-10S FD-06182013 Sample Time: 1506 QA/QC: Field Duplicate

Sample Parameters: TCL VOCs + TICs, TCL SVOCs + TICs, TAL Metals

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1436	5.55	19.00	0.133	1.05	90.1	265	550	8.03
1441	6.01	13.93	0.126	1.69	66.5	161	500	9.11
1446	6.14	13.09	0.133	0.29	61.6	107	450	9.29
1451	6.22	13.11	0.128	0.00	0.0	69	450	9.27
1456	6.02	12.87	0.127	0.00	0.0	72	450	9.25
1501	5.94	12.66	0.124	0.00	1.2	76	450	9.25
1506	5.90	12.57	0.126	0.00	0.0	76	450	9.25
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments: Orange floculent was observed after initially purging the well.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176852.00004 Site: Former Kerry Chemical Well ID.: MW-10I

Sampling Personnel: T. Ifkovich, C. Dusel Date: 6/18/2013 Company: URS Corporation

Purging/ Sampling Device: Geopump Tubing Type: LDPE/Silicone Tubing Inlet: Screen Midpoint

Measuring Point: TOC Initial Depth to Water: 8.15 Depth to Well Bottom: 59.95 Well Diameter: 2" Screen Length: 10'

Casing Type: Stainless Steel Volume in 1 Well Casing (liters): 32.0 Estimated Purge Volume (liters): 20.4

Sample ID: MW-10I Sample Time: 1736 QA/QC: --

Sample Parameters: TCL VOCs + TICs, TCL SVOCs + TICs, TAL Metals

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1636	7.46	16.10	0.125	0.95	5.1	104	500	8.15
1641	7.33	14.46	0.128	0.00	0.0	107	325	11.58
1646	7.35	15.17	0.127	0.00	0.0	101	325	11.86
1651	7.26	14.93	0.127	0.00	0.0	101	325	12.21
1656	7.22	14.78	0.128	0.00	0.0	100	325	12.55
1701	7.19	14.65	0.128	0.00	0.0	99	325	12.77
1706	7.18	14.59	0.129	0.00	0.0	97	325	12.87
1711	7.18	14.51	0.130	0.00	0.0	96	325	12.95
1716	7.17	14.44	0.131	0.00	0.0	95	325	13.00
1721	7.18	14.44	0.131	0.00	83.9	93	325	13.02
1726	7.19	14.44	0.132	0.00	79.4	91	325	13.04
1731	7.20	14.45	0.132	0.00	78.5	90	325	13.07
1736	7.21	14.50	0.132	0.00	77.2	88	325	13.10
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:

APPENDIX D

DATA USABILITY SUMMARY REPORT

(On Compact Disc)

DATA USABILITY SUMMARY REPORT

KERRY CHEMICAL SITE
WORK ASSIGNMENT NO. D007622-13
SITE ID NO. 413001
TOWN OF HANCOCK
DELAWARE COUNTY, NEW YORK

Analyses Performed by:

TESTAMERICA LABORATORIES, INC.
AMHERST, NEW YORK

Prepared for:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION

Prepared by:

URS CORPORATION
77 GOODELL STREET
BUFFALO, NY 14203

OCTOBER 2013

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TABLES
(Following Text)

ATTACHMENTS

I. INTRODUCTION

This Data Usability Summary Report (DUSR) has been prepared following the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation *DER-10, Technical Guidance for Site Investigation and Remediation, Appendix 2B - Guidance for Data Deliverables and the Development of Data Usability Summary Reports*, May 2010. Discussed in this DUSR are the analytical data for seventeen (17) groundwater samples, one (1) field duplicate, and one (1) matrix spike/matrix spike duplicate (MS/MSD) pair collected on June 18-19, 2013. The samples were collected in support of the site management task assigned to URS under NYSDEC Work Assignment Number D007622-13 for the Kerry Chemical Site, Site ID Number 413001, located in the Town of Hancock, Delaware County, New York.

II. SAMPLE COLLECTION

On June 18-19, 2013, seventeen (17) groundwater samples, one (1) field duplicate, and one (1) MS/MSD pair were collected from the site. The samples were sent to TestAmerica Laboratories, Inc. located in Amherst, New York, which is a NYSDOH Environmental Laboratory Approval Program (ELAP) certified laboratory.

III. ANALYTICAL METHODOLOGIES AND DATA VALIDATION PROCEDURES

All samples were analyzed for the following parameters:

Parameter	Method Number
Target Compound List (TCL) Volatile Organic Compounds (VOCs) plus Tentatively Identified Compounds (TICs)	SW8260B
TCL Semivolatile Organic Compounds (SVOCs)	SW8270C
Target Analyte List (TAL) Metals	SW6010B/7470A

A limited data validation was performed on the samples following the guidelines in the following USEPA Region II documents:

- *Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B*, SOP HW-24, Revision 2, August 2008;
- *Validating Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8270D*, SOP HW-22, Revision 4, August 2008; and

- *ICP-AES Data Validation*, SOP HW-2a, Rev. 15, December 2012; and
- *Mercury and Cyanide Data Validation*, SOP HW-2c, Rev. 15, December 2012.

The limited data review included a review of completeness of all required deliverables; holding times; QC results (blanks, instrument tunes, calibration standards, MS/MSD recoveries, duplicate precision, and laboratory control sample recoveries) to determine if the data are within the protocol-required QC limits and specifications; a determination that all samples were analyzed using established and agreed upon analytical protocols; an evaluation of the raw data to confirm the results provided in the data summary sheets; and a review of laboratory data qualifiers.

Qualifications applied to the data during the data validation include 'UJ' (estimated quantitation limit), 'U' (non-detect), and 'R" (rejected). A summary of qualifications made to the data is presented in Table 1. The complete validated analytical results are provided in Table 2. Copies of the validated laboratory results (i.e., Form 1s) are presented in Attachment A. Documentation supporting the qualification of data is presented in Attachment B. Only problems affecting data usability are discussed in this report.

IV. DATA DELIVERABLE COMPLETENESS

Full deliverable data packages (i.e., NYSDEC ASP Category B or equivalent) were provided by the laboratory, and included all reporting forms and raw data necessary to fully evaluate and verify the reported analytical results.

V. SAMPLE RECEIPT/PRESERVATION/HOLDING TIMES

All samples were received by the laboratory intact, properly preserved, and under proper chain-of-custody (COC), and were analyzed within the required holding times.

VI. NON-CONFORMANCES

Instrument Calibration

The percent differences (%D) between the initial calibration (ICAL) average relative response factors (RRF) and the RRFs in the continuing calibration (CCAL) standards were

greater than 20% for one or more of the following VOCs: 1,1,1-trichloroethane, 1,2-dichloroethane, 1,1,2,2- tetrachloroethane, bromomethane, carbon tetrachloride, chloroethane, cyclohexane, and trichlorofluoromethane. The results for these compounds (all were non-detect) were qualified 'UJ' in all samples, as listed in Table 1.

Documentation supporting the qualification of data (i.e., Forms 5, 7) is presented in Attachment B.

Blanks

Di-n-butylphthalate and phenanthrene were detected in the laboratory method blank at a concentration less than the Contract Required Quantitation Limit (CRQL). Those samples that had concentrations of these compounds less than the CRQL were qualified 'U' at the CRQL. The associated samples have been listed on Table 1.

Documentation supporting the qualification of data (i.e., Forms 1, 4) is presented in Attachment B.

Surrogates

The percent recoveries (%R) of acid-phenolic surrogates 2-fluorophenol and phenol-d_5 were extremely poor (i.e., <10%) in sample MW-4I. The results of the associated acid-phenolic compounds in this sample have been qualified 'R'.

Documentation supporting the qualification of data (i.e., Form 2) is presented in Attachment B.

VII. SAMPLE RESULTS AND REPORTING

All sample results were reported in accordance with method requirements. Results reported below the quantitation limit, but greater than the method detection limit (MDL), are qualified 'J' by the laboratory.

A field duplicate sample was collected at location MW-10S. The results were in good agreement.

Several VOC samples had TICs that are considered artifacts of column breakdown (i.e., column bleed) in particular derivatives of siloxane. Those compounds were crossed out on the TIC forms.

VIII. SUMMARY

All sample analyses were found to be compliant with the method criteria, except where previously noted. Those results qualified 'UJ' (estimated quantitation limit) or 'U' (non-detect) during the data review are considered conditionally usable. Those results qualified 'R' are not usable. All other sample results are usable as reported. URS does not recommend the re-collection of any samples at this time.

Prepared By: Ann Marie Kropovitch, Chemist AMK **Date:** 9/27/13

Reviewed By: Peter R. Fairbanks, Senior Chemist PF **Date:** 9/27/13

DEFINITIONS OF USEPA REGION II DATA QUALIFIERS

U – The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J – The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ – The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

TABLE 1
SUMMARY OF DATA QUALIFICATIONS
KERRY CHEMICAL SITE

SAMPLE ID	FRACTION	ANALYTICAL DEVIATION	QUALIFICATION
MW-B1D, MW-B1S, MW-B3D, MW-3I, MW-3S, MW-4I, MW-4S, MW-5D, MW-5I, MW-5S, MW-7I, MW-7S, MW-9S, MW-10D, MW-10I, MW-10S, and FD-06182013 (MW-10S)	VOC	%D between the ICAL average RRF and the CCAL RRF >20% for 1,1,1-trichloroethane, 1,2-dichloroethane, bromomethane, carbon tetrachloride, chloroethane, cyclohexane, and trichlorofluoromethane.	Qualify non-detect results 'UJ'.
MW-B3S, TB-06182013, and TB-06192013	VOC	%D between the ICAL average RRF and the CCAL RRF >20% for 1,1,1-trichloroethane, 1,2-dichloroethane, 1,1,2,2- tetrachloroethane, bromomethane, carbon tetrachloride, chloroethane, and trichlorofluoromethane.	Qualify non-detect results 'UJ'.
MW-B1D, MW-B1S, MW-B3D, MW-B3S, MW-3I, MW-3S, MW-4I, MW-4S, MW-5D, MW-5I, MW-5S, MW-7I, MW-7S, MW-9S, MW-10D, MW-10I, MW-10S, and FD-06182013 (MW-10S)	SVOCs	Di-n-butylphthalate and/or phenanthrene detected in the laboratory method blank and sample below CRQL.	Qualify detected results 'U' at CRQL.
MW-4I	SVOCs	Acid-phenolic surrogates 2-fluorophenol and phenol-d_5 < QC limit (i.e., <10%).	Qualify associated compounds 'R'.

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
KERRY CHEMICAL SITE

Location ID		MW-03I	MW-03S	MW-04I	MW-04S	MW-05D
Sample ID		MW-3I	MW-3S	MW-4I	MW-4S	MW-5D
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/19/13	06/19/13	06/19/13	06/19/13	06/19/13
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	10 U	10 U	10 U	10 U	10 U
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/27/13
Checked By: PRF 9/27/13

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
KERRY CHEMICAL SITE

Location ID		MW-03I	MW-03S	MW-04I	MW-04S	MW-05D
Sample ID		MW-3I	MW-3S	MW-4I	MW-4S	MW-5D
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/19/13	06/19/13	06/19/13	06/19/13	06/19/13
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Carbon disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl ethyl ketone (2-Butanone)	UG/L	10 U	10 U	10 U	10 U	10 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ

Flags assigned during chemistry validation are shown.

Made By: AMK 9/27/13
Checked By: PRF 9/27/13

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
KERRY CHEMICAL SITE

Location ID		MW-03I	MW-03S	MW-04I	MW-04S	MW-05D
Sample ID		MW-3I	MW-3S	MW-4I	MW-4S	MW-5D
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/19/13	06/19/13	06/19/13	06/19/13	06/19/13
Parameter	Units					
Volatile Organic Compounds						
Vinyl chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylene (total)	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
2,2-oxybis(1-Chloropropane)	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
2,4,5-Trichlorophenol	UG/L	4.8 U	5.1 U	R	4.7 U	4.8 U
2,4,6-Trichlorophenol	UG/L	4.8 U	5.1 U	R	4.7 U	4.8 U
2,4-Dichlorophenol	UG/L	4.8 U	5.1 U	R	4.7 U	4.8 U
2,4-Dimethylphenol	UG/L	4.8 U	5.1 U	R	4.7 U	4.8 U
2,4-Dinitrophenol	UG/L	9.6 U	10 U	R	9.4 U	9.6 U
2,4-Dinitrotoluene	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
2,6-Dinitrotoluene	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
2-Chloronaphthalene	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
2-Chlorophenol	UG/L	4.8 U	5.1 U	R	4.7 U	4.8 U
2-Methylnaphthalene	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
2-Methylphenol (o-cresol)	UG/L	4.8 U	5.1 U	R	4.7 U	4.8 U
2-Nitroaniline	UG/L	9.6 U	10 U	10 U	9.4 U	9.6 U
2-Nitrophenol	UG/L	4.8 U	5.1 U	R	4.7 U	4.8 U
3,3-Dichlorobenzidine	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
3-Nitroaniline	UG/L	9.6 U	10 U	10 U	9.4 U	9.6 U
4,6-Dinitro-2-methylphenol	UG/L	9.6 U	10 U	R	9.4 U	9.6 U
4-Bromophenyl-phenylether	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
4-Chloro-3-methylphenol	UG/L	4.8 U	5.1 U	R	4.7 U	4.8 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/27/13
Checked By: PRF 9/27/13

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
KERRY CHEMICAL SITE

Location ID		MW-03I	MW-03S	MW-04I	MW-04S	MW-05D
Sample ID		MW-3I	MW-3S	MW-4I	MW-4S	MW-5D
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/19/13	06/19/13	06/19/13	06/19/13	06/19/13
Parameter	Units					
Semivolatile Organic Compounds						
4-Chloroaniline	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
4-Chlorophenyl-phenylether	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
4-Methylphenol (p-cresol)	UG/L	9.6 U	10 U	R	9.4 U	9.6 U
4-Nitroaniline	UG/L	9.6 U	10 U	10 U	9.4 U	9.6 U
4-Nitrophenol	UG/L	9.6 U	10 U	R	9.4 U	9.6 U
Acenaphthene	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
Acenaphthylene	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
Acetophenone	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
Anthracene	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
Atrazine	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
Benzaldehyde	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
Benzo(a)anthracene	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
Benzo(a)pyrene	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
Benzo(b)fluoranthene	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
Benzo(g,h,i)perylene	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
Benzo(k)fluoranthene	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
bis(2-Chloroethoxy)methane	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
bis(2-Chloroethyl)ether	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
bis(2-Ethylhexyl)phthalate	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
Butylbenzylphthalate	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
Caprolactam	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
Carbazole	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
Chrysene	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/27/13
Checked By: PRF 9/27/13

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
KERRY CHEMICAL SITE

Location ID		MW-03I	MW-03S	MW-04I	MW-04S	MW-05D
Sample ID		MW-3I	MW-3S	MW-4I	MW-4S	MW-5D
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/19/13	06/19/13	06/19/13	06/19/13	06/19/13
Parameter	**Units**					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
Dibenzofuran	UG/L	9.6 U	10 U	10 U	9.4 U	9.6 U
Diethylphthalate	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
Dimethylphthalate	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
Di-n-butylphthalate	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
Di-n-octylphthalate	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
Fluoranthene	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
Fluorene	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
Hexachlorobenzene	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
Hexachlorobutadiene	UG/L	0.48 U	0.51 U	0.50 U	0.47 U	0.48 U
Hexachlorocyclopentadiene	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
Hexachloroethane	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
Indeno(1,2,3-cd)pyrene	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
Isophorone	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
Naphthalene	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
Nitrobenzene	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
N-Nitroso-di-n-propylamine	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
N-Nitrosodiphenylamine	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
Pentachlorophenol	UG/L	9.6 U	10 U	R	9.4 U	9.6 U
Phenanthrene	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U
Phenol	UG/L	4.8 U	5.1 U	R	4.7 U	4.8 U
Pyrene	UG/L	4.8 U	5.1 U	5.0 U	4.7 U	4.8 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/27/13
Checked By: PRF 9/27/13

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
KERRY CHEMICAL SITE

Location ID		MW-03I	MW-03S	MW-04I	MW-04S	MW-05D
Sample ID		MW-3I	MW-3S	MW-4I	MW-4S	MW-5D
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/19/13	06/19/13	06/19/13	06/19/13	06/19/13
Parameter	Units					
Metals						
Aluminum	UG/L	200	63 J	270	370	1,100
Antimony	UG/L	20 U	20 U	20 U	20 U	20 U
Arsenic	UG/L	10 U	10 U	10 U	170	10 U
Barium	UG/L	130	130	240	730	130
Beryllium	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Cadmium	UG/L	1.0 U	1.0 U	2.7	1.0 U	1.0 U
Calcium	UG/L	23,600	15,200	25,300	13,000	23,800
Chromium	UG/L	2.2 J	4.0 U	2.3 J	1.5 J	2.7 J
Cobalt	UG/L	4.0 U	0.69 J	4.0 U	4.0 U	4.0 U
Copper	UG/L	1.6 J	10 U	2.2 J	10 U	10 U
Iron	UG/L	160	650	310	14,200	1,100
Lead	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Magnesium	UG/L	4,100	2,900	5,300	2,200	5,200
Manganese	UG/L	130	1,000	2,800	3,900	180
Mercury	UG/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Nickel	UG/L	10 U	1.3 J	5.1 J	10 U	2.9 J
Potassium	UG/L	1,100	1,000	1,100	1,300	1,500
Selenium	UG/L	15 U	15 U	15 U	15 U	15 U
Silver	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Sodium	UG/L	10,000	5,800	3,700	7,200	9,600
Thallium	UG/L	20 U	20 U	20 U	20 U	20 U
Vanadium	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	1.6 J
Zinc	UG/L	4.7 J	4.1 J	4.4 J	2.8 J	3.4 J

Flags assigned during chemistry validation are shown.

Made By: AMK 9/27/13
Checked By: PRF 9/27/13

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
KERRY CHEMICAL SITE

Location ID		MW-05I	MW-05S	MW-07I	MW-07S	MW-09S
Sample ID		MW-5I	MW-5S	MW-7I	MW-7S	MW-9S
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/19/13	06/19/13	06/18/13	06/19/13	06/19/13
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	10 U	10 U	10 U	10 U	10 U
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/27/13
Checked By: PRF 9/27/13

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
KERRY CHEMICAL SITE

Location ID		MW-05I	MW-05S	MW-07I	MW-07S	MW-09S
Sample ID		MW-5I	MW-5S	MW-7I	MW-7S	MW-9S
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/19/13	06/19/13	06/18/13	06/19/13	06/19/13
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Carbon disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl ethyl ketone (2-Butanone)	UG/L	10 U	10 U	10 U	10 U	10 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ

Flags assigned during chemistry validation are shown.

Made By: AMK 9/27/13
Checked By: PRF 9/27/13

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
KERRY CHEMICAL SITE

Location ID		MW-05I	MW-05S	MW-07I	MW-07S	MW-09S
Sample ID		MW-5I	MW-5S	MW-7I	MW-7S	MW-9S
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/19/13	06/19/13	06/18/13	06/19/13	06/19/13
Parameter	Units					
Volatile Organic Compounds						
Vinyl chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylene (total)	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
2,2-oxybis(1-Chloropropane)	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
2,4,5-Trichlorophenol	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
2,4,6-Trichlorophenol	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
2,4-Dichlorophenol	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
2,4-Dimethylphenol	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
2,4-Dinitrophenol	UG/L	10 U	9.6 U	9.9 U	9.7 U	10 U
2,4-Dinitrotoluene	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
2,6-Dinitrotoluene	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
2-Chloronaphthalene	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
2-Chlorophenol	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
2-Methylnaphthalene	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
2-Methylphenol (o-cresol)	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
2-Nitroaniline	UG/L	10 U	9.6 U	9.9 U	9.7 U	10 U
2-Nitrophenol	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
3,3-Dichlorobenzidine	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
3-Nitroaniline	UG/L	10 U	9.6 U	9.9 U	9.7 U	10 U
4,6-Dinitro-2-methylphenol	UG/L	10 U	9.6 U	9.9 U	9.7 U	10 U
4-Bromophenyl-phenylether	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
4-Chloro-3-methylphenol	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/27/13
Checked By: PRF 9/27/13

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
KERRY CHEMICAL SITE

Location ID		MW-05I	MW-05S	MW-07I	MW-07S	MW-09S
Sample ID		MW-5I	MW-5S	MW-7I	MW-7S	MW-9S
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/19/13	06/19/13	06/18/13	06/19/13	06/19/13
Parameter	Units					
Semivolatile Organic Compounds						
4-Chloroaniline	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
4-Chlorophenyl-phenylether	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
4-Methylphenol (p-cresol)	UG/L	10 U	9.6 U	9.9 U	9.7 U	10 U
4-Nitroaniline	UG/L	10 U	9.6 U	9.9 U	9.7 U	10 U
4-Nitrophenol	UG/L	10 U	9.6 U	9.9 U	9.7 U	10 U
Acenaphthene	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
Acenaphthylene	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
Acetophenone	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
Anthracene	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
Atrazine	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
Benzaldehyde	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
Benzo(a)anthracene	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
Benzo(a)pyrene	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
Benzo(b)fluoranthene	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
Benzo(g,h,i)perylene	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
Benzo(k)fluoranthene	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
bis(2-Chloroethoxy)methane	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
bis(2-Chloroethyl)ether	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
bis(2-Ethylhexyl)phthalate	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
Butylbenzylphthalate	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
Caprolactam	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
Carbazole	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
Chrysene	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/27/13
Checked By: PRF 9/27/13

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
KERRY CHEMICAL SITE

Location ID		MW-05I	MW-05S	MW-07I	MW-07S	MW-09S
Sample ID		MW-5I	MW-5S	MW-7I	MW-7S	MW-9S
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/19/13	06/19/13	06/18/13	06/19/13	06/19/13
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
Dibenzofuran	UG/L	10 U	9.6 U	9.9 U	9.7 U	10 U
Diethylphthalate	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
Dimethylphthalate	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
Di-n-butylphthalate	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
Di-n-octylphthalate	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
Fluoranthene	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
Fluorene	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
Hexachlorobenzene	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
Hexachlorobutadiene	UG/L	0.51 U	0.48 U	0.49 U	0.48 U	0.51 U
Hexachlorocyclopentadiene	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
Hexachloroethane	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
Indeno(1,2,3-cd)pyrene	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
Isophorone	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
Naphthalene	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
Nitrobenzene	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
N-Nitroso-di-n-propylamine	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
N-Nitrosodiphenylamine	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
Pentachlorophenol	UG/L	10 U	9.6 U	9.9 U	9.7 U	10 U
Phenanthrene	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
Phenol	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U
Pyrene	UG/L	5.1 U	4.8 U	4.9 U	4.8 U	5.1 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/27/13
Checked By: PRF 9/27/13

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
KERRY CHEMICAL SITE

Location ID		MW-05I	MW-05S	MW-07I	MW-07S	MW-09S
Sample ID		MW-5I	MW-5S	MW-7I	MW-7S	MW-9S
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/19/13	06/19/13	06/18/13	06/19/13	06/19/13
Parameter	Units					
Metals						
Aluminum	UG/L	94 J	200 U	220	70 J	1,800
Antimony	UG/L	20 U	20 U	20 U	20 U	20 U
Arsenic	UG/L	10 U	10 U	10 U	10 U	6.4 J
Barium	UG/L	45	110	60	120	72
Beryllium	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Cadmium	UG/L	1.0 U	1.0 U	0.71 J	1.0 U	1.0 U
Calcium	UG/L	26,500	21,200	26,100	27,400	14,900
Chromium	UG/L	1.0 J	1.5 J	10	4.0 U	1.9 J
Cobalt	UG/L	4.0 U	4.0 U	4.0 U	4.0 U	1.1 J
Copper	UG/L	10 U	10 U	5.2 J	10 U	2.3 J
Iron	UG/L	81	200	370	220	3,500
Lead	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Magnesium	UG/L	3,300	3,600	3,700	3,600	1,600
Manganese	UG/L	93	220	420	150	240
Mercury	UG/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Nickel	UG/L	10 U	10 U	8.5 J	10 U	2.3 J
Potassium	UG/L	1,400	1,900	1,600	2,100	1,200
Selenium	UG/L	15 U	15 U	15 U	15 U	15 U
Silver	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Sodium	UG/L	4,300	1,300	8,500	1,300	1,200
Thallium	UG/L	20 U	20 U	20 U	20 U	20 U
Vanadium	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	2.1 J
Zinc	UG/L	2.3 J	3.2 J	5.8 J	1.6 J	9.5 J

Flags assigned during chemistry validation are shown.

Made By: AMK 9/27/13
Checked By: PRF 9/27/13

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
KERRY CHEMICAL SITE

Location ID		MW-10D	MW-10I	MW-10S	MW-10S	MW-B1D
Sample ID		MW-10D	MW-10I	FD-06182013	MW-10S	MW-B1D
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/18/13	06/18/13	06/18/13	06/18/13	06/19/13
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	10 U	10 U	10 U	3.2 J	10 U
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/27/13
Checked By: PRF 9/27/13

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
KERRY CHEMICAL SITE

Location ID		MW-10D	MW-10I	MW-10S	MW-10S	MW-B1D
Sample ID		MW-10D	MW-10I	FD-06182013	MW-10S	MW-B1D
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/18/13	06/18/13	06/18/13	06/18/13	06/19/13
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Carbon disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl ethyl ketone (2-Butanone)	UG/L	10 U	10 U	1.4 J	1.4 J	10 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ

Flags assigned during chemistry validation are shown.

Made By: AMK 9/27/13
Checked By: PRF 9/27/13

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
KERRY CHEMICAL SITE

Location ID		MW-10D	MW-10I	MW-10S	MW-10S	MW-B1D
Sample ID		MW-10D	MW-10I	FD-06182013	MW-10S	MW-B1D
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/18/13	06/18/13	06/18/13	06/18/13	06/19/13
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
Vinyl chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylene (total)	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
2,2-oxybis(1-Chloropropane)	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
2,4,5-Trichlorophenol	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
2,4,6-Trichlorophenol	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
2,4-Dichlorophenol	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
2,4-Dimethylphenol	UG/L	4.8 U	4.8 U	3.5 J	1.0 J	4.7 U
2,4-Dinitrophenol	UG/L	9.7 U	9.7 U	9.5 U	9.5 U	9.4 U
2,4-Dinitrotoluene	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
2,6-Dinitrotoluene	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
2-Chloronaphthalene	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
2-Chlorophenol	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
2-Methylnaphthalene	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
2-Methylphenol (o-cresol)	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
2-Nitroaniline	UG/L	9.7 U	9.7 U	9.5 U	9.5 U	9.4 U
2-Nitrophenol	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
3,3-Dichlorobenzidine	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
3-Nitroaniline	UG/L	9.7 U	9.7 U	9.5 U	9.5 U	9.4 U
4,6-Dinitro-2-methylphenol	UG/L	9.7 U	9.7 U	9.5 U	9.5 U	9.4 U
4-Bromophenyl-phenylether	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
4-Chloro-3-methylphenol	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/27/13
Checked By: PRF 9/27/13

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
KERRY CHEMICAL SITE

Location ID		MW-10D	MW-10I	MW-10S	MW-10S	MW-B1D
Sample ID		MW-10D	MW-10I	FD-06182013	MW-10S	MW-B1D
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/18/13	06/18/13	06/18/13	06/18/13	06/19/13
Parameter	Units			Field Duplicate (1-1)		
Semivolatile Organic Compounds						
4-Chloroaniline	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
4-Chlorophenyl-phenylether	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
4-Methylphenol (p-cresol)	UG/L	9.7 U	9.7 U	9.5 U	9.5 U	9.4 U
4-Nitroaniline	UG/L	9.7 U	9.7 U	9.5 U	9.5 U	9.4 U
4-Nitrophenol	UG/L	9.7 U	9.7 U	9.5 U	9.5 U	9.4 U
Acenaphthene	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
Acenaphthylene	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
Acetophenone	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
Anthracene	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
Atrazine	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
Benzaldehyde	UG/L	4.8 U	4.8 U	4.8 U	0.26 J	4.7 U
Benzo(a)anthracene	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
Benzo(a)pyrene	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
Benzo(b)fluoranthene	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
Benzo(g,h,i)perylene	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
Benzo(k)fluoranthene	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
bis(2-Chloroethoxy)methane	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
bis(2-Chloroethyl)ether	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
bis(2-Ethylhexyl)phthalate	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
Butylbenzylphthalate	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
Caprolactam	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
Carbazole	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
Chrysene	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/27/13
Checked By: PRF 9/27/13

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
KERRY CHEMICAL SITE

Location ID		MW-10D	MW-10I	MW-10S	MW-10S	MW-B1D
Sample ID		MW-10D	MW-10I	FD-06182013	MW-10S	MW-B1D
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/18/13	06/18/13	06/18/13	06/18/13	06/19/13
Parameter	Units			Field Duplicate (1-1)		
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
Dibenzofuran	UG/L	9.7 U	9.7 U	9.5 U	9.5 U	9.4 U
Diethylphthalate	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
Dimethylphthalate	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
Di-n-butylphthalate	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
Di-n-octylphthalate	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
Fluoranthene	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
Fluorene	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
Hexachlorobenzene	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
Hexachlorobutadiene	UG/L	0.48 U	0.48 U	0.48 U	0.48 U	0.47 U
Hexachlorocyclopentadiene	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
Hexachloroethane	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
Indeno(1,2,3-cd)pyrene	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
Isophorone	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
Naphthalene	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
Nitrobenzene	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
N-Nitroso-di-n-propylamine	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
N-Nitrosodiphenylamine	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
Pentachlorophenol	UG/L	9.7 U	9.7 U	9.5 U	9.5 U	9.4 U
Phenanthrene	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
Phenol	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U
Pyrene	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.7 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/27/13
Checked By: PRF 9/27/13

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
KERRY CHEMICAL SITE

Location ID		MW-10D	MW-10I	MW-10S	MW-10S	MW-B1D
Sample ID		MW-10D	MW-10I	FD-06182013	MW-10S	MW-B1D
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		06/18/13	06/18/13	06/18/13	06/18/13	06/19/13
Parameter	Units			Field Duplicate (1-1)		
Metals						
Aluminum	UG/L	310	1,200	170 J	180 J	3,000
Antimony	UG/L	20 U	20 U	20 U	20 U	20 U
Arsenic	UG/L	10 U	10 U	10 U	10 U	9.7 J
Barium	UG/L	51	89	120	120	66
Beryllium	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Cadmium	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	0.67 J
Calcium	UG/L	23,500	26,600	29,200	29,500	19,200
Chromium	UG/L	6.3	3.2 J	4.0 U	4.0 U	7.6
Cobalt	UG/L	4.0 U	4.0 U	4.0 U	4.0 U	1.8 J
Copper	UG/L	2.6 J	3.4 J	35	39	4.7 J
Iron	UG/L	400	1,100	3,000	3,300	4,300
Lead	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Magnesium	UG/L	3,200	3,800	2,100	2,100	2,100
Manganese	UG/L	200	620	780	770	170
Mercury	UG/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Nickel	UG/L	4.7 J	2.4 J	10 U	10 U	4.3 J
Potassium	UG/L	1,000	1,400	1,900	2,000	2,500
Selenium	UG/L	15 U	15 U	15 U	15 U	15 U
Silver	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Sodium	UG/L	5,400	8,500	1,900	2,000	3,500
Thallium	UG/L	20 U	20 U	20 U	20 U	20 U
Vanadium	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0
Zinc	UG/L	1.9 J	9.7 J	6.7 J	6.9 J	26

Flags assigned during chemistry validation are shown.

Made By: AMK 9/27/13
Checked By: PRF 9/27/13

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
KERRY CHEMICAL SITE

Location ID		MW-B1S	MW-B3D	MW-B3S
Sample ID		MW-B1S	MW-B3D	MW-B3S
Matrix		Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-
Date Sampled		06/19/13	06/19/13	06/19/13
Parameter	Units			
Volatile Organic Compounds				
1,1,1-Trichloroethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 UJ
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone	UG/L	5.0 U	5.0 U	5.0 U
Acetone	UG/L	3.4 J	10 U	10 U
Benzene	UG/L	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/27/13
Checked By: PRF 9/27/13

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
KERRY CHEMICAL SITE

Location ID		MW-B1S	MW-B3D	MW-B3S
Sample ID		MW-B1S	MW-B3D	MW-B3S
Matrix		Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-
Date Sampled		06/19/13	06/19/13	06/19/13
Parameter	Units			
Volatile Organic Compounds				
Bromoform	UG/L	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ
Carbon disulfide	UG/L	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	UG/L	1.0 UJ	1.0 UJ	1.0 UJ
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ
Chloroform	UG/L	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 UJ	1.0 UJ	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U
Methyl ethyl ketone (2-Butanone)	UG/L	10 U	10 U	10 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U
Methylene chloride	UG/L	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ

Flags assigned during chemistry validation are shown.

Made By: AMK 9/27/13
Checked By: PRF 9/27/13

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
KERRY CHEMICAL SITE

Location ID		MW-B1S	MW-B3D	MW-B3S
Sample ID		MW-B1S	MW-B3D	MW-B3S
Matrix		Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-
Date Sampled		06/19/13	06/19/13	06/19/13
Parameter	Units			
Volatile Organic Compounds				
Vinyl chloride	UG/L	1.0 U	1.0 U	1.0 U
Xylene (total)	UG/L	2.0 U	2.0 U	2.0 U
Semivolatile Organic Compounds				
1,1-Biphenyl	UG/L	4.7 U	4.6 U	4.7 U
2,2-oxybis(1-Chloropropane)	UG/L	4.7 U	4.6 U	4.7 U
2,4,5-Trichlorophenol	UG/L	4.7 U	4.6 U	4.7 U
2,4,6-Trichlorophenol	UG/L	4.7 U	4.6 U	4.7 U
2,4-Dichlorophenol	UG/L	4.7 U	4.6 U	4.7 U
2,4-Dimethylphenol	UG/L	4.7 U	4.6 U	4.7 U
2,4-Dinitrophenol	UG/L	9.3 U	9.2 U	9.3 U
2,4-Dinitrotoluene	UG/L	4.7 U	4.6 U	4.7 U
2,6-Dinitrotoluene	UG/L	4.7 U	4.6 U	4.7 U
2-Chloronaphthalene	UG/L	4.7 U	4.6 U	4.7 U
2-Chlorophenol	UG/L	4.7 U	4.6 U	4.7 U
2-Methylnaphthalene	UG/L	4.7 U	4.6 U	4.7 U
2-Methylphenol (o-cresol)	UG/L	4.7 U	4.6 U	4.7 U
2-Nitroaniline	UG/L	9.3 U	9.2 U	9.3 U
2-Nitrophenol	UG/L	4.7 U	4.6 U	4.7 U
3,3-Dichlorobenzidine	UG/L	4.7 U	4.6 U	4.7 U
3-Nitroaniline	UG/L	9.3 U	9.2 U	9.3 U
4,6-Dinitro-2-methylphenol	UG/L	9.3 U	9.2 U	9.3 U
4-Bromophenyl-phenylether	UG/L	4.7 U	4.6 U	4.7 U
4-Chloro-3-methylphenol	UG/L	4.7 U	4.6 U	4.7 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/27/13
Checked By: PRF 9/27/13

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
KERRY CHEMICAL SITE

Location ID		MW-B1S	MW-B3D	MW-B3S
Sample ID		MW-B1S	MW-B3D	MW-B3S
Matrix		Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-
Date Sampled		06/19/13	06/19/13	06/19/13
Parameter	Units			
Semivolatile Organic Compounds				
4-Chloroaniline	UG/L	4.7 U	4.6 U	4.7 U
4-Chlorophenyl-phenylether	UG/L	4.7 U	4.6 U	4.7 U
4-Methylphenol (p-cresol)	UG/L	1.2 J	9.2 U	9.3 U
4-Nitroaniline	UG/L	9.3 U	9.2 U	9.3 U
4-Nitrophenol	UG/L	9.3 U	9.2 U	9.3 U
Acenaphthene	UG/L	4.7 U	4.6 U	4.7 U
Acenaphthylene	UG/L	4.7 U	4.6 U	4.7 U
Acetophenone	UG/L	4.7 U	4.6 U	4.7 U
Anthracene	UG/L	4.7 U	4.6 U	4.7 U
Atrazine	UG/L	4.7 U	4.6 U	4.7 U
Benzaldehyde	UG/L	0.33 J	4.6 U	4.7 U
Benzo(a)anthracene	UG/L	4.7 U	4.6 U	4.7 U
Benzo(a)pyrene	UG/L	4.7 U	4.6 U	4.7 U
Benzo(b)fluoranthene	UG/L	0.72 J	4.6 U	4.7 U
Benzo(g,h,i)perylene	UG/L	4.7 U	4.6 U	4.7 U
Benzo(k)fluoranthene	UG/L	4.7 U	4.6 U	4.7 U
bis(2-Chloroethoxy)methane	UG/L	4.7 U	4.6 U	4.7 U
bis(2-Chloroethyl)ether	UG/L	4.7 U	4.6 U	4.7 U
bis(2-Ethylhexyl)phthalate	UG/L	1.7 J	4.6 U	4.7 U
Butylbenzylphthalate	UG/L	4.7 U	4.6 U	4.7 U
Caprolactam	UG/L	4.7 U	4.6 U	4.7 U
Carbazole	UG/L	4.7 U	4.6 U	4.7 U
Chrysene	UG/L	4.7 U	4.6 U	4.7 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/27/13
Checked By: PRF 9/27/13

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
KERRY CHEMICAL SITE

Location ID		MW-B1S	MW-B3D	MW-B3S
Sample ID		MW-B1S	MW-B3D	MW-B3S
Matrix		Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-
Date Sampled		06/19/13	06/19/13	06/19/13
Parameter	Units			
Semivolatile Organic Compounds				
Dibenz(a,h)anthracene	UG/L	4.7 U	4.6 U	4.7 U
Dibenzofuran	UG/L	9.3 U	9.2 U	9.3 U
Diethylphthalate	UG/L	4.7 U	4.6 U	4.7 U
Dimethylphthalate	UG/L	4.7 U	4.6 U	4.7 U
Di-n-butylphthalate	UG/L	4.7 U	4.6 U	4.7 U
Di-n-octylphthalate	UG/L	4.7 U	4.6 U	4.7 U
Fluoranthene	UG/L	1.3 J	4.6 U	4.7 U
Fluorene	UG/L	4.7 U	4.6 U	4.7 U
Hexachlorobenzene	UG/L	4.7 U	4.6 U	4.7 U
Hexachlorobutadiene	UG/L	0.47 U	0.46 U	0.47 U
Hexachlorocyclopentadiene	UG/L	4.7 U	4.6 U	4.7 U
Hexachloroethane	UG/L	4.7 U	4.6 U	4.7 U
Indeno(1,2,3-cd)pyrene	UG/L	4.7 U	4.6 U	4.7 U
Isophorone	UG/L	4.7 U	4.6 U	4.7 U
Naphthalene	UG/L	4.7 U	4.6 U	4.7 U
Nitrobenzene	UG/L	4.7 U	4.6 U	4.7 U
N-Nitroso-di-n-propylamine	UG/L	4.7 U	4.6 U	4.7 U
N-Nitrosodiphenylamine	UG/L	4.7 U	4.6 U	4.7 U
Pentachlorophenol	UG/L	9.3 U	9.2 U	9.3 U
Phenanthrene	UG/L	4.7 U	4.6 U	4.7 U
Phenol	UG/L	4.7 U	4.6 U	4.7 U
Pyrene	UG/L	1.2 J	4.6 U	4.7 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/27/13
Checked By: PRF 9/27/13

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
KERRY CHEMICAL SITE

Location ID		MW-B1S	MW-B3D	MW-B3S
Sample ID		MW-B1S	MW-B3D	MW-B3S
Matrix		Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-
Date Sampled		06/19/13	06/19/13	06/19/13
Parameter	Units			
Metals				
Aluminum	UG/L	17,400	82 J	200 U
Antimony	UG/L	20 U	20 U	20 U
Arsenic	UG/L	21	10 U	10 U
Barium	UG/L	550	54	110
Beryllium	UG/L	1.4 J	2.0 U	2.0 U
Cadmium	UG/L	5.8	1.0 U	1.0 U
Calcium	UG/L	29,400	24,900	17,500
Chromium	UG/L	25	4.0 U	4.0 U
Cobalt	UG/L	15	0.83 J	4.0 U
Copper	UG/L	41	10 U	10 U
Iron	UG/L	29,300	87	25 J
Lead	UG/L	55	5.0 U	5.0 U
Magnesium	UG/L	4,000	3,100	3,900
Manganese	UG/L	1,400	530	320
Mercury	UG/L	0.20 U	0.20 U	0.20 U
Nickel	UG/L	28	10 U	10 U
Potassium	UG/L	5,700	900	730
Selenium	UG/L	15 U	15 U	15 U
Silver	UG/L	3.0 U	3.0 U	3.0 U
Sodium	UG/L	1,600	3,000	1,600
Thallium	UG/L	20 U	20 U	20 U
Vanadium	UG/L	24	5.0 U	5.0 U
Zinc	UG/L	260	2.6 J	2.7 J

Flags assigned during chemistry validation are shown.

Made By: AMK 9/27/13
Checked By: PRF 9/27/13

Detection Limits shown are PQL

TABLE 3
VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS
KERRY CHEMICAL SITE

Location ID		FIELDQC	FIELDQC
Sample ID		TRIP BLANK	TRIP BLANK
Matrix		Water Quality	Water Quality
Depth Interval (ft)		-	-
Date Sampled		06/18/13	06/19/13
Parameter	Units	Trip Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds			
1,1,1-Trichloroethane	UG/L	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	UG/L	1.0 UJ	1.0 UJ
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 UJ	1.0 UJ
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U
4-Methyl-2-pentanone	UG/L	5.0 U	5.0 U
Acetone	UG/L	10 U	10 U
Benzene	UG/L	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/27/13
Checked By: PRF 9/27/13

Detection Limits shown are PQL

TABLE 3
VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS
KERRY CHEMICAL SITE

Location ID		FIELDQC	FIELDQC
Sample ID		TRIP BLANK	TRIP BLANK
Matrix		Water Quality	Water Quality
Depth Interval (ft)		-	-
Date Sampled		06/18/13	06/19/13
Parameter	**Units**	Trip Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds			
Bromoform	UG/L	1.0 U	1.0 U
Bromomethane	UG/L	1.0 UJ	1.0 UJ
Carbon disulfide	UG/L	1.0 U	1.0 U
Carbon tetrachloride	UG/L	1.0 UJ	1.0 UJ
Chlorobenzene	UG/L	1.0 U	1.0 U
Chloroethane	UG/L	1.0 UJ	1.0 UJ
Chloroform	UG/L	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U
Methyl ethyl ketone (2-Butanone)	UG/L	10 U	10 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U
Methylene chloride	UG/L	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U
Trichloroethene	UG/L	1.0 U	1.0 U
Trichlorofluoromethane	UG/L	1.0 UJ	1.0 UJ

Flags assigned during chemistry validation are shown.

Made By: AMK 9/27/13
Checked By: PRF 9/27/13

Detection Limits shown are PQL

TABLE 3
VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS
KERRY CHEMICAL SITE

Location ID		FIELDQC	FIELDQC
Sample ID		TRIP BLANK	TRIP BLANK
Matrix		Water Quality	Water Quality
Depth Interval (ft)		-	-
Date Sampled		06/18/13	06/19/13
Parameter	Units	Trip Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds			
Vinyl chloride	UG/L	1.0 U	1.0 U
Xylene (total)	UG/L	2.0 U	2.0 U

Flags assigned during chemistry validation are shown.

Made By: AMK 9/27/13
Checked By: PRF 9/27/13

Detection Limits shown are PQL

ATTACHMENT A

VALIDATED FORM 1s

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-B1D | Lab Sample ID: 480-40517-12

Matrix: Water | Lab File ID: P9668.D

Analysis Method: 8260B | Date Collected: 06/19/2013 15:26

Sample wt/vol: 5(mL) | Date Analyzed: 06/21/2013 23:11

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.: 125278 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-B1D | Lab Sample ID: 480-40517-12

Matrix: Water | Lab File ID: P9668.D

Analysis Method: 8260B | Date Collected: 06/19/2013 15:26

Sample wt/vol: 5(mL) | Date Analyzed: 06/21/2013 23:11

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.: 125278 | Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		66-137
2037-26-5	Toluene-d8 (Surr)	92		71-126
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-B1D | Lab Sample ID: 480-40517-12

Matrix: Water | Lab File ID: P9668.D

Analysis Method: 8260B | Date Collected: 06/19/2013 15:26

Sample wt/vol: 5(mL) | Date Analyzed: 06/21/2013 23:11

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.: 125278 | Units: ug/L

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-B1S | Lab Sample ID: 480-40517-11

Matrix: Water | Lab File ID: P9667.D

Analysis Method: 8260B | Date Collected: 06/19/2013 15:15

Sample wt/vol: 5(mL) | Date Analyzed: 06/21/2013 22:46

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 125278 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	UJ	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND	UJ	1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	3.4	J	10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND	UJ	1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND	UJ	1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND	UJ	1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND	UJ	1.0	0.18
75-71-8	Dichlorodifluoromethane	ND	UJ	1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-B1S | Lab Sample ID: 480-40517-11

Matrix: Water | Lab File ID: P9667.D

Analysis Method: 8260B | Date Collected: 06/19/2013 15:15

Sample wt/vol: 5(mL) | Date Analyzed: 06/21/2013 22:46

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 125278 | Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		66-137
2037-26-5	Toluene-d8 (Surr)	92		71-126
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-B1S | Lab Sample ID: 480-40517-11

Matrix: Water | Lab File ID: P9667.D

Analysis Method: 8260B | Date Collected: 06/19/2013 15:15

Sample wt/vol: 5(mL) | Date Analyzed: 06/21/2013 22:46

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 125278 | Units: ug/L

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-B3D | Lab Sample ID: 480-40517-17

Matrix: Water | Lab File ID: P9673.D

Analysis Method: 8260B | Date Collected: 06/19/2013 18:35

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2013 01:14

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.: 125278 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-B3D | Lab Sample ID: 480-40517-17

Matrix: Water | Lab File ID: P9673.D

Analysis Method: 8260B | Date Collected: 06/19/2013 18:35

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2013 01:14

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.: 125278 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND	U5	1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	119		66-137
2037-26-5	Toluene-d8 (Surr)	92		71-126
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120

dwk 6/28/13

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-B3D | Lab Sample ID: 480-40517-17

Matrix: Water | Lab File ID: P9673.D

Analysis Method: 8260B | Date Collected: 06/19/2013 18:35

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2013 01:14

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.: 125278 | Units: ug/L

Number TICs Found: 1 | TIC Result Total: 8

CAS NO.	COMPOUND NAME	RT	RESULT	Q
18173-64-3	tert-Butyldimethylsilanol	6.31	8.0	T J N

dmf 9/27/13

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-B3S | Lab Sample ID: 480-40517-18

Matrix: Water | Lab File ID: P9690.D

Analysis Method: 8260B | Date Collected: 06/19/2013 19:20

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2013 18:54

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.: 125459 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-B3S | Lab Sample ID: 480-40517-18

Matrix: Water | Lab File ID: P9690.D

Analysis Method: 8260B | Date Collected: 06/19/2013 19:20

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2013 18:54

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.: 125459 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND	U5	1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	117		66-137
2037-26-5	Toluene-d8 (Surr)	94		71-126
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-B3S | Lab Sample ID: 480-40517-18

Matrix: Water | Lab File ID: P9690.D

Analysis Method: 8260B | Date Collected: 06/19/2013 19:20

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2013 18:54

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.: 125459 | Units: ug/L

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-3I | Lab Sample ID: 480-40517-14

Matrix: Water | Lab File ID: P9670.D

Analysis Method: 8260B | Date Collected: 06/19/2013 16:55

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2013 00:01

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.: 125278 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-3I | Lab Sample ID: 480-40517-14

Matrix: Water | Lab File ID: P9670.D

Analysis Method: 8260B | Date Collected: 06/19/2013 16:55

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2013 00:01

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.: 125278 | Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	120		66-137
2037-26-5	Toluene-d8 (Surr)	92		71-126
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-3I | Lab Sample ID: 480-40517-14

Matrix: Water | Lab File ID: P9670.D

Analysis Method: 8260B | Date Collected: 06/19/2013 16:55

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2013 00:01

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.: 125278 | Units: ug/L

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-3S | Lab Sample ID: 480-40517-13

Matrix: Water | Lab File ID: P9669.D

Analysis Method: 8260B | Date Collected: 06/19/2013 16:20

Sample wt/vol: 5(mL) | Date Analyzed: 06/21/2013 23:36

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.: 125278 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-3S | Lab Sample ID: 480-40517-13

Matrix: Water | Lab File ID: P9669.D

Analysis Method: 8260B | Date Collected: 06/19/2013 16:20

Sample wt/vol: 5(mL) | Date Analyzed: 06/21/2013 23:36

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.: 125278 | Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	114		66-137
2037-26-5	Toluene-d8 (Surr)	91		71-126
460-00-4	4-Bromofluorobenzene (Surr)	99		73-120

dwsk 8/28/13

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-3S | Lab Sample ID: 480-40517-13

Matrix: Water | Lab File ID: P9669.D

Analysis Method: 8260B | Date Collected: 06/19/2013 16:20

Sample wt/vol: 5(mL) | Date Analyzed: 06/21/2013 23:36

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.: 125278 | Units: ug/L

Number TICs Found: 1 | TIC Result Total: 4.5

CAS NO.	COMPOUND NAME	RT	RESULT	Q
1066-40-6	Silanol, trimethyl-	6.31	4.5	T J N

DMF 9/27/13

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-4I | Lab Sample ID: 480-40517-15

Matrix: Water | Lab File ID: P9671.D

Analysis Method: 8260B | Date Collected: 06/19/2013 17:30

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2013 00:25

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.: 125278 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-4I | Lab Sample ID: 480-40517-15

Matrix: Water | Lab File ID: P9671.D

Analysis Method: 8260B | Date Collected: 06/19/2013 17:30

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2013 00:25

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.: 125278 | Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	117		66-137
2037-26-5	Toluene-d8 (Surr)	93		71-126
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-4I | Lab Sample ID: 480-40517-15

Matrix: Water | Lab File ID: P9671.D

Analysis Method: 8260B | Date Collected: 06/19/2013 17:30

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2013 00:25

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.: 125278 | Units: ug/L

Number TICs Found: 1 | TIC Result Total: 4.7

CAS NO.	COMPOUND NAME	RT	RESULT	Q
1066-40-6	Silanol, trimethyl-	6.31	4.7	T J N

6/27/13

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-4S | Lab Sample ID: 480-40517-16

Matrix: Water | Lab File ID: P9672.D

Analysis Method: 8260B | Date Collected: 06/19/2013 18:00

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2013 00:50

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.: 125278 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-4S | Lab Sample ID: 480-40517-16

Matrix: Water | Lab File ID: P9672.D

Analysis Method: 8260B | Date Collected: 06/19/2013 18:00

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2013 00:50

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.: 125278 | Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	119		66-137
2037-26-5	Toluene-d8 (Surr)	92		71-126
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-4S | Lab Sample ID: 480-40517-16

Matrix: Water | Lab File ID: P9672.D

Analysis Method: 8260B | Date Collected: 06/19/2013 18:00

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2013 00:50

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.: 125278 | Units: ug/L

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-5I | Lab Sample ID: 480-40517-10

Matrix: Water | Lab File ID: P9666.D

Analysis Method: 8260B | Date Collected: 06/19/2013 14:55

Sample wt/vol: 5(mL) | Date Analyzed: 06/21/2013 22:22

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.: 125278 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-5I | Lab Sample ID: 480-40517-10

Matrix: Water | Lab File ID: P9666.D

Analysis Method: 8260B | Date Collected: 06/19/2013 14:55

Sample wt/vol: 5(mL) | Date Analyzed: 06/21/2013 22:22

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.: 125278 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND	U5	1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		66-137
2037-26-5	Toluene-d8 (Surr)	90		71-126
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120

check 6/26/13

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-5I | Lab Sample ID: 480-40517-10

Matrix: Water | Lab File ID: P9666.D

Analysis Method: 8260B | Date Collected: 06/19/2013 14:55

Sample wt/vol: 5(mL) | Date Analyzed: 06/21/2013 22:22

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.: 125278 | Units: ug/L

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-5S | Lab Sample ID: 480-40517-9

Matrix: Water | Lab File ID: P9665.D

Analysis Method: 8260B | Date Collected: 06/19/2013 14:00

Sample wt/vol: 5(mL) | Date Analyzed: 06/21/2013 21:57

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.: 125278 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-5S | Lab Sample ID: 480-40517-9

Matrix: Water | Lab File ID: P9665.D

Analysis Method: 8260B | Date Collected: 06/19/2013 14:00

Sample wt/vol: 5(mL) | Date Analyzed: 06/21/2013 21:57

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.: 125278 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND	G5	1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		66-137
2037-26-5	Toluene-d8 (Surr)	95		71-126
460-00-4	4-Bromofluorobenzene (Surr)	103		73-120

6/24/13

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-5S | Lab Sample ID: 480-40517-9

Matrix: Water | Lab File ID: P9665.D

Analysis Method: 8260B | Date Collected: 06/19/2013 14:00

Sample wt/vol: 5(mL) | Date Analyzed: 06/21/2013 21:57

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.: 125278 | Units: ug/L

Number TICs Found: 1 | TIC Result Total: 0.44

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	
594-20-7	2,2-Dichloropropane	6.30	0.44	J

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-5D | Lab Sample ID: 480-40517-8

Matrix: Water | Lab File ID: P9664.D

Analysis Method: 8260B | Date Collected: 06/19/2013 13:22

Sample wt/vol: 5(mL) | Date Analyzed: 06/21/2013 21:33

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.: 125278 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-5D | Lab Sample ID: 480-40517-8

Matrix: Water | Lab File ID: P9664.D

Analysis Method: 8260B | Date Collected: 06/19/2013 13:22

Sample wt/vol: 5(mL) | Date Analyzed: 06/21/2013 21:33

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.: 125278 | Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		66-137
2037-26-5	Toluene-d8 (Surr)	96		71-126
460-00-4	4-Bromofluorobenzene (Surr)	104		73-120

6/24/13

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-5D Lab Sample ID: 480-40517-8

Matrix: Water Lab File ID: P9664.D

Analysis Method: 8260B Date Collected: 06/19/2013 13:22

Sample wt/vol: 5(mL) Date Analyzed: 06/21/2013 21:33

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.: 125278 Units: ug/L

Number TICs Found: 1 TIC Result Total: 2.6

CAS NO.	COMPOUND NAME	RT	RESULT	Q
18173-64-3	tert-Butyldimethylsilanol	6.31	2.6	T J N

7/1/13

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-7I | Lab Sample ID: 480-40517-7

Matrix: Water | Lab File ID: P9663.D

Analysis Method: 8260B | Date Collected: 06/19/2013 11:58

Sample wt/vol: 5(mL) | Date Analyzed: 06/21/2013 21:08

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.: 125278 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-7I | Lab Sample ID: 480-40517-7

Matrix: Water | Lab File ID: P9663.D

Analysis Method: 8260B | Date Collected: 06/19/2013 11:58

Sample wt/vol: 5(mL) | Date Analyzed: 06/21/2013 21:08

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.: 125278 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND	U5	1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		66-137
2037-26-5	Toluene-d8 (Surr)	95		71-126
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-7I | Lab Sample ID: 480-40517-7

Matrix: Water | Lab File ID: P9663.D

Analysis Method: 8260B | Date Collected: 06/19/2013 11:58

Sample wt/vol: 5(mL) | Date Analyzed: 06/21/2013 21:08

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.: 125278 | Units: ug/L

Number TICs Found: 1 | TIC Result Total: 6.4

CAS NO.	COMPOUND NAME	RT	RESULT	Q
1066-40-6	Silanol, trimethyl-	6.31	6.4	T J N

dlw 6/27/13

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-7S | Lab Sample ID: 480-40517-6

Matrix: Water | Lab File ID: P9660.D

Analysis Method: 8260B | Date Collected: 06/19/2013 10:34

Sample wt/vol: 5(mL) | Date Analyzed: 06/21/2013 18:29

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.: 125278 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-7S | Lab Sample ID: 480-40517-6

Matrix: Water | Lab File ID: P9660.D

Analysis Method: 8260B | Date Collected: 06/19/2013 10:34

Sample wt/vol: 5(mL) | Date Analyzed: 06/21/2013 18:29

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.: 125278 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND	U5	1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		66-137
2037-26-5	Toluene-d8 (Surr)	95		71-126
460-00-4	4-Bromofluorobenzene (Surr)	104		73-120

QMSK 6/24/13

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-7S | Lab Sample ID: 480-40517-6

Matrix: Water | Lab File ID: P9660.D

Analysis Method: 8260B | Date Collected: 06/19/2013 10:34

Sample wt/vol: 5(mL) | Date Analyzed: 06/21/2013 18:29

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.: 125278 | Units: ug/L

Number TICs Found: 2 | TIC Result Total: 6.6

CAS NO.	COMPOUND NAME	RT	RESULT	Q
3183-41-3	Cycloheptanone, 2-ethyl-	15.82	3.3	T J N
80-71-7	2-Cyclopenten-1-one, 2-hydroxy-3-methyl-	18.26	3.3	T J N

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-9S | Lab Sample ID: 480-40517-5

Matrix: Water | Lab File ID: P9659.D

Analysis Method: 8260B | Date Collected: 06/19/2013 08:21

Sample wt/vol: 5(mL) | Date Analyzed: 06/21/2013 18:04

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.: 125278 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-9S | Lab Sample ID: 480-40517-5

Matrix: Water | Lab File ID: P9659.D

Analysis Method: 8260B | Date Collected: 06/19/2013 08:21

Sample wt/vol: 5(mL) | Date Analyzed: 06/21/2013 18:04

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.: 125278 | Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		66-137
2037-26-5	Toluene-d8 (Surr)	96		71-126
460-00-4	4-Bromofluorobenzene (Surr)	106		73-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-9S | Lab Sample ID: 480-40517-5

Matrix: Water | Lab File ID: P9659.D

Analysis Method: 8260B | Date Collected: 06/19/2013 08:21

Sample wt/vol: 5(mL) | Date Analyzed: 06/21/2013 18:04

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.: 125278 | Units: ug/L

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-10D | Lab Sample ID: 480-40517-2

Matrix: Water | Lab File ID: P9656.D

Analysis Method: 8260B | Date Collected: 06/18/2013 16:28

Sample wt/vol: 5(mL) | Date Analyzed: 06/21/2013 16:50

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.: 125278 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-10D | Lab Sample ID: 480-40517-2

Matrix: Water | Lab File ID: P9656.D

Analysis Method: 8260B | Date Collected: 06/18/2013 16:28

Sample wt/vol: 5(mL) | Date Analyzed: 06/21/2013 16:50

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.: 125278 | Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		66-137
2037-26-5	Toluene-d8 (Surr)	95		71-126
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120

dlsk 6/26/13

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-10D | Lab Sample ID: 480-40517-2

Matrix: Water | Lab File ID: P9656.D

Analysis Method: 8260B | Date Collected: 06/18/2013 16:28

Sample wt/vol: 5(mL) | Date Analyzed: 06/21/2013 16:50

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.: 125278 | Units: ug/L

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-10S | Lab Sample ID: 480-40517-1

Matrix: Water | Lab File ID: P9655.D

Analysis Method: 8260B | Date Collected: 06/18/2013 15:06

Sample wt/vol: 5(mL) | Date Analyzed: 06/21/2013 16:25

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.: 125278 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	1.4	J	10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	3.2	J	10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-10S | Lab Sample ID: 480-40517-1

Matrix: Water | Lab File ID: P9655.D

Analysis Method: 8260B | Date Collected: 06/18/2013 15:06

Sample wt/vol: 5(mL) | Date Analyzed: 06/21/2013 16:25

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.: 125278 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND	U5	1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	116		66-137
2037-26-5	Toluene-d8 (Surr)	94		71-126
460-00-4	4-Bromofluorobenzene (Surr)	104		73-120

dhyk 9/26/13

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-10S | Lab Sample ID: 480-40517-1

Matrix: Water | Lab File ID: P9655.D

Analysis Method: 8260B | Date Collected: 06/18/2013 15:06

Sample wt/vol: 5(mL) | Date Analyzed: 06/21/2013 16:25

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.: 125278 | Units: ug/L

Number TICs Found: 10 | TIC Result Total: 75.5

CAS NO.	COMPOUND NAME	RT	RESULT	Q
18402-82-9	3-Octen-2-one, (E)-	14.87	4.4	T J N
3183-41-3	Cycloheptanone, 2-ethyl-	15.82	16	T J N
765-69-5	1,3-Cyclopentanedione, 2-methyl-	15.90	7.0	T J N
496-16-2	Benzofuran, 2,3-dihydro-	16.01	5.7	T J N
4265-25-2	Benzofuran, 2-methyl-	16.30	5.7	T J N
1000145-59-2	2-Ethyl-5-propylcyclopentanone	17.07	6.0	T J N
1126-18-7	Cyclohexanone, 2-butyl-	17.13	8.0	T J N
1197-19-9	Benzonitrile, 4-(dimethylamino)-	17.64	5.3	T J N
4897-50-1	1,4'-Bipiperidine	18.25	13	T J N
589-92-4	Cyclohexanone, 4-methyl-	19.04	4.4	T J N

mw-105

FORM I

GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: FD-06182013 | Lab Sample ID: 480-40517-4

Matrix: Water | Lab File ID: P9658.D

Analysis Method: 8260B | Date Collected: 06/18/2013 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 06/21/2013 17:40

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.: 125278 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	UJ	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND	UJ	1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	1.4	J	10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND	UJ	1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND	UJ	1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND	UJ	1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND	UJ	1.0	0.18
75-71-8	Dichlorodifluoromethane	ND	UJ	1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

MW-10S

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: FD-06182013 | Lab Sample ID: 480-40517-4

Matrix: Water | Lab File ID: P9658.D

Analysis Method: 8260B | Date Collected: 06/18/2013 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 06/21/2013 17:40

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.: 125278 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND	U3	1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	116		66-137
2037-26-5	Toluene-d8 (Surr)	93		71-126
460-00-4	4-Bromofluorobenzene (Surr)	103		73-120

8/26/13

MW-105

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: FD-06182013 | Lab Sample ID: 480-40517-4

Matrix: Water | Lab File ID: P9658.D

Analysis Method: 8260B | Date Collected: 06/18/2013 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 06/21/2013 17:40

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.: 125278 | Units: ug/L

Number TICs Found: 10 | TIC Result Total: 86

CAS NO.	COMPOUND NAME	RT	RESULT	Q
18402-82-9	3-Octen-2-one, (E)-	14.87	5.1	T J N
3183-41-3	Cycloheptanone, 2-ethyl-	15.82	17	T J N
292-64-8	Cyclooctane	15.90	8.5	T J N
496-16-2	Benzofuran, 2,3-dihydro-	16.01	7.4	T J N
4265-25-2	Benzofuran, 2-methyl-	16.30	7.4	T J N
1000143-74-0	4-Butyl-cyclohexanone	16.35	5.2	T J N
1000145-59-2	2-Ethyl-5-propylcyclopentanone	17.07	6.5	T J N
1126-18-7	Cyclohexanone, 2-butyl-	17.13	9.2	T J N
28715-26-6	Benzofuran, 4,7-dimethyl-	17.63	5.7	T J N
1501-82-2	Cyclododecene	18.24	14	T J N

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-10I Lab Sample ID: 480-40517-3

Matrix: Water Lab File ID: P9657.D

Analysis Method: 8260B Date Collected: 06/18/2013 17:36

Sample wt/vol: 5(mL) Date Analyzed: 06/21/2013 17:15

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.: 125278 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-10I | Lab Sample ID: 480-40517-3

Matrix: Water | Lab File ID: P9657.D

Analysis Method: 8260B | Date Collected: 06/18/2013 17:36

Sample wt/vol: 5(mL) | Date Analyzed: 06/21/2013 17:15

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.: 125278 | Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	115		66-137
2037-26-5	Toluene-d8 (Surr)	96		71-126
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120

dmk 7/30/13

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-10I | Lab Sample ID: 480-40517-3

Matrix: Water | Lab File ID: P9657.D

Analysis Method: 8260B | Date Collected: 06/18/2013 17:36

Sample wt/vol: 5(mL) | Date Analyzed: 06/21/2013 17:15

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.: 125278 | Units: ug/L

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: TRIP BLANK | Lab Sample ID: 480-40517-19

Matrix: Water | Lab File ID: P9691.D

Analysis Method: 8260B | Date Collected: 06/18/2013 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2013 19:18

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.: 125459 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: TRIP BLANK | Lab Sample ID: 480-40517-19

Matrix: Water | Lab File ID: P9691.D

Analysis Method: 8260B | Date Collected: 06/18/2013 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2013 19:18

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.: 125459 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND	U5	1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	119		66-137
2037-26-5	Toluene-d8 (Surr)	94		71-126
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: TRIP BLANK | Lab Sample ID: 480-40517-19

Matrix: Water | Lab File ID: P9691.D

Analysis Method: 8260B | Date Collected: 06/18/2013 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2013 19:18

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.: 125459 | Units: ug/L

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: TRIP BLANK | Lab Sample ID: 480-40517-20

Matrix: Water | Lab File ID: P9692.D

Analysis Method: 8260B | Date Collected: 06/19/2013 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2013 19:43

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.: 125459 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: TRIP BLANK | Lab Sample ID: 480-40517-20

Matrix: Water | Lab File ID: P9692.D

Analysis Method: 8260B | Date Collected: 06/19/2013 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2013 19:43

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.: 125459 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND	U5	1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	118		66-137
2037-26-5	Toluene-d8 (Surr)	93		71-126
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120

clmk 8/8/13

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: TRIP BLANK | Lab Sample ID: 480-40517-20

Matrix: Water | Lab File ID: P9692.D

Analysis Method: 8260B | Date Collected: 06/19/2013 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2013 19:43

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.: 125459 | Units: ug/L

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-B1D | Lab Sample ID: 480-40517-12

Matrix: Water | Lab File ID: Y001526.D

Analysis Method: 8270C | Date Collected: 06/19/2013 15:26

Extract. Method: 3510C | Date Extracted: 06/21/2013 06:00

Sample wt/vol: 266.3(mL) | Date Analyzed: 06/29/2013 22:08

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 126788 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		4.7	0.61
108-60-1	bis (2-chloroisopropyl) ether	ND		4.7	0.49
95-95-4	2,4,5-Trichlorophenol	ND		4.7	0.45
88-06-2	2,4,6-Trichlorophenol	ND		4.7	0.57
120-83-2	2,4-Dichlorophenol	ND		4.7	0.48
105-67-9	2,4-Dimethylphenol	ND		4.7	0.47
51-28-5	2,4-Dinitrophenol	ND		9.4	2.1
121-14-2	2,4-Dinitrotoluene	ND		4.7	0.42
606-20-2	2,6-Dinitrotoluene	ND		4.7	0.38
91-58-7	2-Chloronaphthalene	ND		4.7	0.43
95-57-8	2-Chlorophenol	ND		4.7	0.50
91-57-6	2-Methylnaphthalene	ND		4.7	0.56
95-48-7	2-Methylphenol	ND		4.7	0.38
88-74-4	2-Nitroaniline	ND		9.4	0.39
88-75-5	2-Nitrophenol	ND		4.7	0.45
91-94-1	3,3'-Dichlorobenzidine	ND		4.7	0.38
99-09-2	3-Nitroaniline	ND	F	9.4	0.45
534-52-1	4,6-Dinitro-2-methylphenol	ND		9.4	2.1
101-55-3	4-Bromophenyl phenyl ether	ND		4.7	0.42
59-50-7	4-Chloro-3-methylphenol	ND		4.7	0.42
106-47-8	4-Chloroaniline	ND	F	4.7	0.55
7005-72-3	4-Chlorophenyl phenyl ether	ND		4.7	0.33
106-44-5	4-Methylphenol	ND		9.4	0.34
100-01-6	4-Nitroaniline	ND	F	9.4	0.23
100-02-7	4-Nitrophenol	ND		9.4	1.4
83-32-9	Acenaphthene	ND		4.7	0.38
208-96-8	Acenaphthylene	ND		4.7	0.36
98-86-2	Acetophenone	ND		4.7	0.51
120-12-7	Anthracene	ND		4.7	0.26
1912-24-9	Atrazine	ND		4.7	0.43
100-52-7	Benzaldehyde	ND	F	4.7	0.25
56-55-3	Benzo(a)anthracene	ND		4.7	0.34
50-32-8	Benzo(a)pyrene	ND		4.7	0.44
205-99-2	Benzo(b)fluoranthene	ND		4.7	0.32

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-B1D | Lab Sample ID: 480-40517-12

Matrix: Water | Lab File ID: Y001526.D

Analysis Method: 8270C | Date Collected: 06/19/2013 15:26

Extract. Method: 3510C | Date Extracted: 06/21/2013 06:00

Sample wt/vol: 266.3(mL) | Date Analyzed: 06/29/2013 22:08

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 126788 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		4.7	0.33
207-08-9	Benzo(k)fluoranthene	ND		4.7	0.69
111-91-1	Bis(2-chloroethoxy)methane	ND		4.7	0.33
111-44-4	Bis(2-chloroethyl)ether	ND		4.7	0.38
117-81-7	Bis(2-ethylhexyl) phthalate	ND		4.7	1.7
85-68-7	Butyl benzyl phthalate	ND		4.7	0.39
105-60-2	Caprolactam	ND		4.7	2.1
86-74-8	Carbazole	ND		4.7	0.28
218-01-9	Chrysene	ND		4.7	0.31
84-74-2	Di-n-butyl phthalate	~~0.33~~ ND	~~J~~	4.7	0.29
117-84-0	Di-n-octyl phthalate	ND		4.7	0.44
53-70-3	Dibenz(a,h)anthracene	ND		4.7	0.39
132-64-9	Dibenzofuran	ND		9.4	0.48
84-66-2	Diethyl phthalate	ND		4.7	0.21
131-11-3	Dimethyl phthalate	ND		4.7	0.34
206-44-0	Fluoranthene	ND		4.7	0.38
86-73-7	Fluorene	ND		4.7	0.34
118-74-1	Hexachlorobenzene	ND		4.7	0.48
87-68-3	Hexachlorobutadiene	ND		0.47	0.64
77-47-4	Hexachlorocyclopentadiene	ND		4.7	0.55
67-72-1	Hexachloroethane	ND		4.7	0.55
193-39-5	Indeno(1,2,3-cd)pyrene	ND		4.7	0.44
78-59-1	Isophorone	ND		4.7	0.40
621-64-7	N-Nitrosodi-n-propylamine	ND		4.7	0.51
86-30-6	N-Nitrosodiphenylamine	ND		4.7	0.48
91-20-3	Naphthalene	ND		4.7	0.71
98-95-3	Nitrobenzene	ND		4.7	0.27
87-86-5	Pentachlorophenol	ND		9.4	2.1
85-01-8	Phenanthrene	ND		4.7	0.41
108-95-2	Phenol	ND		4.7	0.37
129-00-0	Pyrene	ND		4.7	0.32

dlw 6/30/13

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-B1S | Lab Sample ID: 480-40517-11

Matrix: Water | Lab File ID: Y001525.D

Analysis Method: 8270C | Date Collected: 06/19/2013 15:15

Extract. Method: 3510C | Date Extracted: 06/21/2013 06:00

Sample wt/vol: 267.7(mL) | Date Analyzed: 06/29/2013 21:40

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 126788 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		4.7	0.61
108-60-1	bis (2-chloroisopropyl) ether	ND		4.7	0.49
95-95-4	2,4,5-Trichlorophenol	ND		4.7	0.45
88-06-2	2,4,6-Trichlorophenol	ND		4.7	0.57
120-83-2	2,4-Dichlorophenol	ND		4.7	0.48
105-67-9	2,4-Dimethylphenol	ND		4.7	0.47
51-28-5	2,4-Dinitrophenol	ND		9.3	2.1
121-14-2	2,4-Dinitrotoluene	ND		4.7	0.42
606-20-2	2,6-Dinitrotoluene	ND		4.7	0.37
91-58-7	2-Chloronaphthalene	ND		4.7	0.43
95-57-8	2-Chlorophenol	ND		4.7	0.49
91-57-6	2-Methylnaphthalene	ND		4.7	0.56
95-48-7	2-Methylphenol	ND		4.7	0.37
88-74-4	2-Nitroaniline	ND		9.3	0.39
88-75-5	2-Nitrophenol	ND		4.7	0.45
91-94-1	3,3'-Dichlorobenzidine	ND		4.7	0.37
99-09-2	3-Nitroaniline	ND		9.3	0.45
534-52-1	4,6-Dinitro-2-methylphenol	ND		9.3	2.1
101-55-3	4-Bromophenyl phenyl ether	ND		4.7	0.42
59-50-7	4-Chloro-3-methylphenol	ND		4.7	0.42
106-47-8	4-Chloroaniline	ND		4.7	0.55
7005-72-3	4-Chlorophenyl phenyl ether	ND		4.7	0.33
106-44-5	4-Methylphenol	1.2	J	9.3	0.34
100-01-6	4-Nitroaniline	ND		9.3	0.23
100-02-7	4-Nitrophenol	ND		9.3	1.4
83-32-9	Acenaphthene	ND		4.7	0.38
208-96-8	Acenaphthylene	ND		4.7	0.35
98-86-2	Acetophenone	ND		4.7	0.50
120-12-7	Anthracene	ND		4.7	0.26
1912-24-9	Atrazine	ND		4.7	0.43
100-52-7	Benzaldehyde	0.33	J	4.7	0.25
56-55-3	Benzo(a)anthracene	ND		4.7	0.34
50-32-8	Benzo(a)pyrene	ND		4.7	0.44
205-99-2	Benzo(b)fluoranthene	0.72	J	4.7	0.32

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-B1S | Lab Sample ID: 480-40517-11

Matrix: Water | Lab File ID: Y001525.D

Analysis Method: 8270C | Date Collected: 06/19/2013 15:15

Extract. Method: 3510C | Date Extracted: 06/21/2013 06:00

Sample wt/vol: 267.7(mL) | Date Analyzed: 06/29/2013 21:40

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 126788 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		4.7	0.33
207-08-9	Benzo(k)fluoranthene	ND		4.7	0.68
111-91-1	Bis(2-chloroethoxy)methane	ND		4.7	0.33
111-44-4	Bis(2-chloroethyl)ether	ND		4.7	0.37
117-81-7	Bis(2-ethylhexyl) phthalate	1.7	J	4.7	1.7
85-68-7	Butyl benzyl phthalate	ND		4.7	0.39
105-60-2	Caprolactam	ND		4.7	2.1
86-74-8	Carbazole	ND		4.7	0.28
218-01-9	Chrysene	ND		4.7	0.31
84-74-2	Di-n-butyl phthalate	~~0.85~~ ND	~~J~~ // ~~B~~	4.7	0.29
117-84-0	Di-n-octyl phthalate	ND		4.7	0.44
53-70-3	Dibenz(a,h)anthracene	ND		4.7	0.39
132-64-9	Dibenzofuran	ND		9.3	0.48
84-66-2	Diethyl phthalate	ND		4.7	0.21
131-11-3	Dimethyl phthalate	ND		4.7	0.34
206-44-0	Fluoranthene	1.3	J	4.7	0.37
86-73-7	Fluorene	ND		4.7	0.34
118-74-1	Hexachlorobenzene	ND		4.7	0.48
87-68-3	Hexachlorobutadiene	ND		0.47	0.64
77-47-4	Hexachlorocyclopentadiene	ND		4.7	0.55
67-72-1	Hexachloroethane	ND		4.7	0.55
193-39-5	Indeno(1,2,3-cd)pyrene	ND		4.7	0.44
78-59-1	Isophorone	ND		4.7	0.40
621-64-7	N-Nitrosodi-n-propylamine	ND		4.7	0.50
86-30-6	N-Nitrosodiphenylamine	ND		4.7	0.48
91-20-3	Naphthalene	ND		4.7	0.71
98-95-3	Nitrobenzene	ND		4.7	0.27
87-86-5	Pentachlorophenol	ND		9.3	2.1
85-01-8	Phenanthrene	~~0.58~~ ND	~~J~~ // ~~B~~	4.7	0.41
108-95-2	Phenol	ND		4.7	0.36
129-00-0	Pyrene	1.2	J	4.7	0.32

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-B3D | Lab Sample ID: 480-40517-17

Matrix: Water | Lab File ID: Y001531.D

Analysis Method: 8270C | Date Collected: 06/19/2013 18:35

Extract. Method: 3510C | Date Extracted: 06/21/2013 06:00

Sample wt/vol: 270.8(mL) | Date Analyzed: 06/30/2013 00:25

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 126788 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		4.6	0.60
108-60-1	bis (2-chloroisopropyl) ether	ND		4.6	0.48
95-95-4	2,4,5-Trichlorophenol	ND		4.6	0.44
88-06-2	2,4,6-Trichlorophenol	ND		4.6	0.56
120-83-2	2,4-Dichlorophenol	ND		4.6	0.47
105-67-9	2,4-Dimethylphenol	ND		4.6	0.46
51-28-5	2,4-Dinitrophenol	ND		9.2	2.0
121-14-2	2,4-Dinitrotoluene	ND		4.6	0.41
606-20-2	2,6-Dinitrotoluene	ND		4.6	0.37
91-58-7	2-Chloronaphthalene	ND		4.6	0.42
95-57-8	2-Chlorophenol	ND		4.6	0.49
91-57-6	2-Methylnaphthalene	ND		4.6	0.55
95-48-7	2-Methylphenol	ND		4.6	0.37
88-74-4	2-Nitroaniline	ND		9.2	0.39
88-75-5	2-Nitrophenol	ND		4.6	0.44
91-94-1	3,3'-Dichlorobenzidine	ND		4.6	0.37
99-09-2	3-Nitroaniline	ND		9.2	0.44
534-52-1	4,6-Dinitro-2-methylphenol	ND		9.2	2.0
101-55-3	4-Bromophenyl phenyl ether	ND		4.6	0.42
59-50-7	4-Chloro-3-methylphenol	ND		4.6	0.42
106-47-8	4-Chloroaniline	ND		4.6	0.54
7005-72-3	4-Chlorophenyl phenyl ether	ND		4.6	0.32
106-44-5	4-Methylphenol	ND		9.2	0.33
100-01-6	4-Nitroaniline	ND		9.2	0.23
100-02-7	4-Nitrophenol	ND		9.2	1.4
83-32-9	Acenaphthene	ND		4.6	0.38
208-96-8	Acenaphthylene	ND		4.6	0.35
98-86-2	Acetophenone	ND		4.6	0.50
120-12-7	Anthracene	ND		4.6	0.26
1912-24-9	Atrazine	ND		4.6	0.42
100-52-7	Benzaldehyde	ND		4.6	0.25
56-55-3	Benzo(a)anthracene	ND		4.6	0.33
50-32-8	Benzo(a)pyrene	ND		4.6	0.43
205-99-2	Benzo(b)fluoranthene	ND		4.6	0.31

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-B3D | Lab Sample ID: 480-40517-17

Matrix: Water | Lab File ID: Y001531.D

Analysis Method: 8270C | Date Collected: 06/19/2013 18:35

Extract. Method: 3510C | Date Extracted: 06/21/2013 06:00

Sample wt/vol: 270.8(mL) | Date Analyzed: 06/30/2013 00:25

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 126788 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		4.6	0.32
207-08-9	Benzo(k)fluoranthene	ND		4.6	0.67
111-91-1	Bis(2-chloroethoxy)methane	ND		4.6	0.32
111-44-4	Bis(2-chloroethyl)ether	ND		4.6	0.37
117-81-7	Bis(2-ethylhexyl) phthalate	ND		4.6	1.7
85-68-7	Butyl benzyl phthalate	ND		4.6	0.39
105-60-2	Caprolactam	ND		4.6	2.0
86-74-8	Carbazole	ND		4.6	0.28
218-01-9	Chrysene	ND		4.6	0.30
84-74-2	Di-n-butyl phthalate	ND ~~0.43~~	~~B~~	4.6	0.29
117-84-0	Di-n-octyl phthalate	ND		4.6	0.43
53-70-3	Dibenz(a,h)anthracene	ND		4.6	0.39
132-64-9	Dibenzofuran	ND		9.2	0.47
84-66-2	Diethyl phthalate	ND		4.6	0.20
131-11-3	Dimethyl phthalate	ND		4.6	0.33
206-44-0	Fluoranthene	ND		4.6	0.37
86-73-7	Fluorene	ND		4.6	0.33
118-74-1	Hexachlorobenzene	ND		4.6	0.47
87-68-3	Hexachlorobutadiene	ND		0.46	0.63
77-47-4	Hexachlorocyclopentadiene	ND		4.6	0.54
67-72-1	Hexachloroethane	ND		4.6	0.54
193-39-5	Indeno(1,2,3-cd)pyrene	ND		4.6	0.43
78-59-1	Isophorone	ND		4.6	0.40
621-64-7	N-Nitrosodi-n-propylamine	ND		4.6	0.50
86-30-6	N-Nitrosodiphenylamine	ND		4.6	0.47
91-20-3	Naphthalene	ND		4.6	0.70
98-95-3	Nitrobenzene	ND		4.6	0.27
87-86-5	Pentachlorophenol	ND		9.2	2.0
85-01-8	Phenanthrene	ND		4.6	0.41
108-95-2	Phenol	ND		4.6	0.36
129-00-0	Pyrene	ND		4.6	0.31

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-B3S | Lab Sample ID: 480-40517-18

Matrix: Water | Lab File ID: Y001532.D

Analysis Method: 8270C | Date Collected: 06/19/2013 19:20

Extract. Method: 3510C | Date Extracted: 06/21/2013 06:00

Sample wt/vol: 268.6(mL) | Date Analyzed: 06/30/2013 00:53

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 126788 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		4.7	0.61
108-60-1	bis (2-chloroisopropyl) ether	ND		4.7	0.48
95-95-4	2,4,5-Trichlorophenol	ND		4.7	0.45
88-06-2	2,4,6-Trichlorophenol	ND		4.7	0.57
120-83-2	2,4-Dichlorophenol	ND		4.7	0.47
105-67-9	2,4-Dimethylphenol	ND		4.7	0.47
51-28-5	2,4-Dinitrophenol	ND		9.3	2.1
121-14-2	2,4-Dinitrotoluene	ND		4.7	0.42
606-20-2	2,6-Dinitrotoluene	ND		4.7	0.37
91-58-7	2-Chloronaphthalene	ND		4.7	0.43
95-57-8	2-Chlorophenol	ND		4.7	0.49
91-57-6	2-Methylnaphthalene	ND		4.7	0.56
95-48-7	2-Methylphenol	ND		4.7	0.37
88-74-4	2-Nitroaniline	ND		9.3	0.39
88-75-5	2-Nitrophenol	ND		4.7	0.45
91-94-1	3,3'-Dichlorobenzidine	ND		4.7	0.37
99-09-2	3-Nitroaniline	ND		9.3	0.45
534-52-1	4,6-Dinitro-2-methylphenol	ND		9.3	2.0
101-55-3	4-Bromophenyl phenyl ether	ND		4.7	0.42
59-50-7	4-Chloro-3-methylphenol	ND		4.7	0.42
106-47-8	4-Chloroaniline	ND		4.7	0.55
7005-72-3	4-Chlorophenyl phenyl ether	ND		4.7	0.33
106-44-5	4-Methylphenol	ND		9.3	0.34
100-01-6	4-Nitroaniline	ND		9.3	0.23
100-02-7	4-Nitrophenol	ND		9.3	1.4
83-32-9	Acenaphthene	ND		4.7	0.38
208-96-8	Acenaphthylene	ND		4.7	0.35
98-86-2	Acetophenone	ND		4.7	0.50
120-12-7	Anthracene	ND		4.7	0.26
1912-24-9	Atrazine	ND		4.7	0.43
100-52-7	Benzaldehyde	ND		4.7	0.25
56-55-3	Benzo(a)anthracene	ND		4.7	0.34
50-32-8	Benzo(a)pyrene	ND		4.7	0.44
205-99-2	Benzo(b)fluoranthene	ND		4.7	0.32

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-B3S | Lab Sample ID: 480-40517-18

Matrix: Water | Lab File ID: Y001532.D

Analysis Method: 8270C | Date Collected: 06/19/2013 19:20

Extract. Method: 3510C | Date Extracted: 06/21/2013 06:00

Sample wt/vol: 268.6(mL) | Date Analyzed: 06/30/2013 00:53

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 126788 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		4.7	0.33
207-08-9	Benzo(k)fluoranthene	ND		4.7	0.68
111-91-1	Bis(2-chloroethoxy)methane	ND		4.7	0.33
111-44-4	Bis(2-chloroethyl)ether	ND		4.7	0.37
117-81-7	Bis(2-ethylhexyl) phthalate	ND		4.7	1.7
85-68-7	Butyl benzyl phthalate	ND		4.7	0.39
105-60-2	Caprolactam	ND		4.7	2.0
86-74-8	Carbazole	ND		4.7	0.28
218-01-9	Chrysene	ND		4.7	0.31
84-74-2	Di-n-butyl phthalate	ND ~~0.45~~	J B	4.7	0.29
117-84-0	Di-n-octyl phthalate	ND		4.7	0.44
53-70-3	Dibenz(a,h)anthracene	ND		4.7	0.39
132-64-9	Dibenzofuran	ND		9.3	0.47
84-66-2	Diethyl phthalate	ND		4.7	0.20
131-11-3	Dimethyl phthalate	ND		4.7	0.34
206-44-0	Fluoranthene	ND		4.7	0.37
86-73-7	Fluorene	ND		4.7	0.34
118-74-1	Hexachlorobenzene	ND		4.7	0.47
87-68-3	Hexachlorobutadiene	ND		0.47	0.63
77-47-4	Hexachlorocyclopentadiene	ND		4.7	0.55
67-72-1	Hexachloroethane	ND		4.7	0.55
193-39-5	Indeno(1,2,3-cd)pyrene	ND		4.7	0.44
78-59-1	Isophorone	ND		4.7	0.40
621-64-7	N-Nitrosodi-n-propylamine	ND		4.7	0.50
86-30-6	N-Nitrosodiphenylamine	ND		4.7	0.47
91-20-3	Naphthalene	ND		4.7	0.71
98-95-3	Nitrobenzene	ND		4.7	0.27
87-86-5	Pentachlorophenol	ND		9.3	2.0
85-01-8	Phenanthrene	ND ~~0.42~~	J B	4.7	0.41
108-95-2	Phenol	ND		4.7	0.36
129-00-0	Pyrene	ND		4.7	0.32

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-3I | Lab Sample ID: 480-40517-14

Matrix: Water | Lab File ID: Y001528.D

Analysis Method: 8270C | Date Collected: 06/19/2013 16:55

Extract. Method: 3510C | Date Extracted: 06/21/2013 06:00

Sample wt/vol: 260.8(mL) | Date Analyzed: 06/29/2013 23:03

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 126788 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		4.8	0.63
108-60-1	bis (2-chloroisopropyl) ether	ND		4.8	0.50
95-95-4	2,4,5-Trichlorophenol	ND		4.8	0.46
88-06-2	2,4,6-Trichlorophenol	ND		4.8	0.58
120-83-2	2,4-Dichlorophenol	ND		4.8	0.49
105-67-9	2,4-Dimethylphenol	ND		4.8	0.48
51-28-5	2,4-Dinitrophenol	ND		9.6	2.1
121-14-2	2,4-Dinitrotoluene	ND		4.8	0.43
606-20-2	2,6-Dinitrotoluene	ND		4.8	0.38
91-58-7	2-Chloronaphthalene	ND		4.8	0.44
95-57-8	2-Chlorophenol	ND		4.8	0.51
91-57-6	2-Methylnaphthalene	ND		4.8	0.58
95-48-7	2-Methylphenol	ND		4.8	0.38
88-74-4	2-Nitroaniline	ND		9.6	0.40
88-75-5	2-Nitrophenol	ND		4.8	0.46
91-94-1	3,3'-Dichlorobenzidine	ND		4.8	0.38
99-09-2	3-Nitroaniline	ND		9.6	0.46
534-52-1	4,6-Dinitro-2-methylphenol	ND		9.6	2.1
101-55-3	4-Bromophenyl phenyl ether	ND		4.8	0.43
59-50-7	4-Chloro-3-methylphenol	ND		4.8	0.43
106-47-8	4-Chloroaniline	ND		4.8	0.57
7005-72-3	4-Chlorophenyl phenyl ether	ND		4.8	0.34
106-44-5	4-Methylphenol	ND		9.6	0.35
100-01-6	4-Nitroaniline	ND		9.6	0.24
100-02-7	4-Nitrophenol	ND		9.6	1.5
83-32-9	Acenaphthene	ND		4.8	0.39
208-96-8	Acenaphthylene	ND		4.8	0.36
98-86-2	Acetophenone	ND		4.8	0.52
120-12-7	Anthracene	ND		4.8	0.27
1912-24-9	Atrazine	ND		4.8	0.44
100-52-7	Benzaldehyde	ND		4.8	0.26
56-55-3	Benzo(a)anthracene	ND		4.8	0.35
50-32-8	Benzo(a)pyrene	ND		4.8	0.45
205-99-2	Benzo(b)fluoranthene	ND		4.8	0.33

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-3I | Lab Sample ID: 480-40517-14

Matrix: Water | Lab File ID: Y001528.D

Analysis Method: 8270C | Date Collected: 06/19/2013 16:55

Extract. Method: 3510C | Date Extracted: 06/21/2013 06:00

Sample wt/vol: 260.8(mL) | Date Analyzed: 06/29/2013 23:03

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 126788 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		4.8	0.34
207-08-9	Benzo(k)fluoranthene	ND		4.8	0.70
111-91-1	Bis(2-chloroethoxy)methane	ND		4.8	0.34
111-44-4	Bis(2-chloroethyl)ether	ND		4.8	0.38
117-81-7	Bis(2-ethylhexyl) phthalate	ND		4.8	1.7
85-68-7	Butyl benzyl phthalate	ND		4.8	0.40
105-60-2	Caprolactam	ND		4.8	2.1
86-74-8	Carbazole	ND		4.8	0.29
218-01-9	Chrysene	ND		4.8	0.32
84-74-2	Di-n-butyl phthalate	ND ~~0.50~~	~~J~~ J	4.8	0.30
117-84-0	Di-n-octyl phthalate	ND		4.8	0.45
53-70-3	Dibenz(a,h)anthracene	ND		4.8	0.40
132-64-9	Dibenzofuran	ND		9.6	0.49
84-66-2	Diethyl phthalate	ND		4.8	0.21
131-11-3	Dimethyl phthalate	ND		4.8	0.35
206-44-0	Fluoranthene	ND		4.8	0.38
86-73-7	Fluorene	ND		4.8	0.35
118-74-1	Hexachlorobenzene	ND		4.8	0.49
87-68-3	Hexachlorobutadiene	ND		0.48	0.65
77-47-4	Hexachlorocyclopentadiene	ND		4.8	0.57
67-72-1	Hexachloroethane	ND		4.8	0.57
193-39-5	Indeno(1,2,3-cd)pyrene	ND		4.8	0.45
78-59-1	Isophorone	ND		4.8	0.41
621-64-7	N-Nitrosodi-n-propylamine	ND		4.8	0.52
86-30-6	N-Nitrosodiphenylamine	ND		4.8	0.49
91-20-3	Naphthalene	ND		4.8	0.73
98-95-3	Nitrobenzene	ND		4.8	0.28
87-86-5	Pentachlorophenol	ND		9.6	2.1
85-01-8	Phenanthrene	ND ~~0.43~~	~~J~~ J	4.8	0.42
108-95-2	Phenol	ND		4.8	0.37
129-00-0	Pyrene	ND		4.8	0.33

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-3S | Lab Sample ID: 480-40517-13

Matrix: Water | Lab File ID: Y001527.D

Analysis Method: 8270C | Date Collected: 06/19/2013 16:20

Extract. Method: 3510C | Date Extracted: 06/21/2013 06:00

Sample wt/vol: 245.6(mL) | Date Analyzed: 06/29/2013 22:35

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 126788 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		5.1	0.66
108-60-1	bis (2-chloroisopropyl) ether	ND		5.1	0.53
95-95-4	2,4,5-Trichlorophenol	ND		5.1	0.49
88-06-2	2,4,6-Trichlorophenol	ND		5.1	0.62
120-83-2	2,4-Dichlorophenol	ND		5.1	0.52
105-67-9	2,4-Dimethylphenol	ND		5.1	0.51
51-28-5	2,4-Dinitrophenol	ND		10	2.3
121-14-2	2,4-Dinitrotoluene	ND		5.1	0.46
606-20-2	2,6-Dinitrotoluene	ND		5.1	0.41
91-58-7	2-Chloronaphthalene	ND		5.1	0.47
95-57-8	2-Chlorophenol	ND		5.1	0.54
91-57-6	2-Methylnaphthalene	ND		5.1	0.61
95-48-7	2-Methylphenol	ND		5.1	0.41
88-74-4	2-Nitroaniline	ND		10	0.43
88-75-5	2-Nitrophenol	ND		5.1	0.49
91-94-1	3,3'-Dichlorobenzidine	ND		5.1	0.41
99-09-2	3-Nitroaniline	ND		10	0.49
534-52-1	4,6-Dinitro-2-methylphenol	ND		10	2.2
101-55-3	4-Bromophenyl phenyl ether	ND		5.1	0.46
59-50-7	4-Chloro-3-methylphenol	ND		5.1	0.46
106-47-8	4-Chloroaniline	ND		5.1	0.60
7005-72-3	4-Chlorophenyl phenyl ether	ND		5.1	0.36
106-44-5	4-Methylphenol	ND		10	0.37
100-01-6	4-Nitroaniline	ND		10	0.25
100-02-7	4-Nitrophenol	ND		10	1.5
83-32-9	Acenaphthene	ND		5.1	0.42
208-96-8	Acenaphthylene	ND		5.1	0.39
98-86-2	Acetophenone	ND		5.1	0.55
120-12-7	Anthracene	ND		5.1	0.29
1912-24-9	Atrazine	ND		5.1	0.47
100-52-7	Benzaldehyde	ND		5.1	0.27
56-55-3	Benzo(a)anthracene	ND		5.1	0.37
50-32-8	Benzo(a)pyrene	ND		5.1	0.48
205-99-2	Benzo(b)fluoranthene	ND		5.1	0.35

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-3S | Lab Sample ID: 480-40517-13

Matrix: Water | Lab File ID: Y001527.D

Analysis Method: 8270C | Date Collected: 06/19/2013 16:20

Extract. Method: 3510C | Date Extracted: 06/21/2013 06:00

Sample wt/vol: 245.6(mL) | Date Analyzed: 06/29/2013 22:35

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 126788 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		5.1	0.36
207-08-9	Benzo(k)fluoranthene	ND		5.1	0.74
111-91-1	Bis(2-chloroethoxy)methane	ND		5.1	0.36
111-44-4	Bis(2-chloroethyl)ether	ND		5.1	0.41
117-81-7	Bis(2-ethylhexyl) phthalate	ND		5.1	1.8
85-68-7	Butyl benzyl phthalate	ND		5.1	0.43
105-60-2	Caprolactam	ND		5.1	2.2
86-74-8	Carbazole	ND		5.1	0.31
218-01-9	Chrysene	ND		5.1	0.34
84-74-2	Di-n-butyl phthalate	ND ~~0.43~~	J ~~B~~	5.1	0.32
117-84-0	Di-n-octyl phthalate	ND		5.1	0.48
53-70-3	Dibenz(a,h)anthracene	ND		5.1	0.43
132-64-9	Dibenzofuran	ND		10	0.52
84-66-2	Diethyl phthalate	ND		5.1	0.22
131-11-3	Dimethyl phthalate	ND		5.1	0.37
206-44-0	Fluoranthene	ND		5.1	0.41
86-73-7	Fluorene	ND		5.1	0.37
118-74-1	Hexachlorobenzene	ND		5.1	0.52
87-68-3	Hexachlorobutadiene	ND		0.51	0.69
77-47-4	Hexachlorocyclopentadiene	ND		5.1	0.60
67-72-1	Hexachloroethane	ND		5.1	0.60
193-39-5	Indeno(1,2,3-cd)pyrene	ND		5.1	0.48
78-59-1	Isophorone	ND		5.1	0.44
621-64-7	N-Nitrosodi-n-propylamine	ND		5.1	0.55
86-30-6	N-Nitrosodiphenylamine	ND		5.1	0.52
91-20-3	Naphthalene	ND		5.1	0.77
98-95-3	Nitrobenzene	ND		5.1	0.30
87-86-5	Pentachlorophenol	ND		10	2.2
85-01-8	Phenanthrene	ND		5.1	0.45
108-95-2	Phenol	ND		5.1	0.40
129-00-0	Pyrene	ND		5.1	0.35

8/30/13

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-4I | Lab Sample ID: 480-40517-15

Matrix: Water | Lab File ID: Y001529.D

Analysis Method: 8270C | Date Collected: 06/19/2013 17:30

Extract. Method: 3510C | Date Extracted: 06/21/2013 06:00

Sample wt/vol: 250.7(mL) | Date Analyzed: 06/29/2013 23:30

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup: (Y/N) N

Analysis Batch No.: 126788 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		5.0	0.65
108-60-1	bis (2-chloroisopropyl) ether	ND		5.0	0.52
95-95-4	2,4,5-Trichlorophenol	ND	R	5.0	0.48
88-06-2	2,4,6-Trichlorophenol	ND	R	5.0	0.61
120-83-2	2,4-Dichlorophenol	ND	R	5.0	0.51
105-67-9	2,4-Dimethylphenol	ND	R	5.0	0.50
51-28-5	2,4-Dinitrophenol	ND	R	10	2.2
121-14-2	2,4-Dinitrotoluene	ND		5.0	0.45
606-20-2	2,6-Dinitrotoluene	ND		5.0	0.40
91-58-7	2-Chloronaphthalene	ND		5.0	0.46
95-57-8	2-Chlorophenol	ND	R	5.0	0.53
91-57-6	2-Methylnaphthalene	ND		5.0	0.60
95-48-7	2-Methylphenol	ND	R	5.0	0.40
88-74-4	2-Nitroaniline	ND		10	0.42
88-75-5	2-Nitrophenol	ND	R	5.0	0.48
91-94-1	3,3'-Dichlorobenzidine	ND		5.0	0.40
99-09-2	3-Nitroaniline	ND		10	0.48
534-52-1	4,6-Dinitro-2-methylphenol	ND	R	10	2.2
101-55-3	4-Bromophenyl phenyl ether	ND		5.0	0.45
59-50-7	4-Chloro-3-methylphenol	ND	R	5.0	0.45
106-47-8	4-Chloroaniline	ND	R	5.0	0.59
7005-72-3	4-Chlorophenyl phenyl ether	ND		5.0	0.35
106-44-5	4-Methylphenol	ND	R	10	0.36
100-01-6	4-Nitroaniline	ND		10	0.25
100-02-7	4-Nitrophenol	ND	R	10	1.5
83-32-9	Acenaphthene	ND		5.0	0.41
208-96-8	Acenaphthylene	ND		5.0	0.38
98-86-2	Acetophenone	ND		5.0	0.54
120-12-7	Anthracene	ND		5.0	0.28
1912-24-9	Atrazine	ND		5.0	0.46
100-52-7	Benzaldehyde	ND		5.0	0.27
56-55-3	Benzo(a)anthracene	ND		5.0	0.36
50-32-8	Benzo(a)pyrene	ND		5.0	0.47
205-99-2	Benzo(b)fluoranthene	ND		5.0	0.34

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-4I | Lab Sample ID: 480-40517-15

Matrix: Water | Lab File ID: Y001529.D

Analysis Method: 8270C | Date Collected: 06/19/2013 17:30

Extract. Method: 3510C | Date Extracted: 06/21/2013 06:00

Sample wt/vol: 250.7(mL) | Date Analyzed: 06/29/2013 23:30

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 126788 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		5.0	0.35
207-08-9	Benzo(k)fluoranthene	ND		5.0	0.73
111-91-1	Bis(2-chloroethoxy)methane	ND		5.0	0.35
111-44-4	Bis(2-chloroethyl)ether	ND		5.0	0.40
117-81-7	Bis(2-ethylhexyl) phthalate	ND		5.0	1.8
85-68-7	Butyl benzyl phthalate	ND		5.0	0.42
105-60-2	Caprolactam	ND		5.0	2.2
86-74-8	Carbazole	ND		5.0	0.30
218-01-9	Chrysene	ND		5.0	0.33
84-74-2	Di-n-butyl phthalate	ND ~~0.46~~	J B	5.0	0.31
117-84-0	Di-n-octyl phthalate	ND		5.0	0.47
53-70-3	Dibenz(a,h)anthracene	ND		5.0	0.42
132-64-9	Dibenzofuran	ND		10	0.51
84-66-2	Diethyl phthalate	ND		5.0	0.22
131-11-3	Dimethyl phthalate	ND		5.0	0.36
206-44-0	Fluoranthene	ND		5.0	0.40
86-73-7	Fluorene	ND		5.0	0.36
118-74-1	Hexachlorobenzene	ND		5.0	0.51
87-68-3	Hexachlorobutadiene	ND		0.50	0.68
77-47-4	Hexachlorocyclopentadiene	ND		5.0	0.59
67-72-1	Hexachloroethane	ND		5.0	0.59
193-39-5	Indeno(1,2,3-cd)pyrene	ND		5.0	0.47
78-59-1	Isophorone	ND		5.0	0.43
621-64-7	N-Nitrosodi-n-propylamine	ND		5.0	0.54
86-30-6	N-Nitrosodiphenylamine	ND		5.0	0.51
91-20-3	Naphthalene	ND		5.0	0.76
98-95-3	Nitrobenzene	ND		5.0	0.29
87-86-5	Pentachlorophenol	ND	R	10	2.2
85-01-8	Phenanthrene	ND		5.0	0.44
108-95-2	Phenol	ND	R	5.0	0.39
129-00-0	Pyrene	ND		5.0	0.34

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-4S | Lab Sample ID: 480-40517-16

Matrix: Water | Lab File ID: Y001530.D

Analysis Method: 8270C | Date Collected: 06/19/2013 18:00

Extract. Method: 3510C | Date Extracted: 06/21/2013 06:00

Sample wt/vol: 265.1(mL) | Date Analyzed: 06/29/2013 23:58

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 126788 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		4.7	0.62
108-60-1	bis (2-chloroisopropyl) ether	ND		4.7	0.49
95-95-4	2,4,5-Trichlorophenol	ND		4.7	0.45
88-06-2	2,4,6-Trichlorophenol	ND		4.7	0.58
120-83-2	2,4-Dichlorophenol	ND		4.7	0.48
105-67-9	2,4-Dimethylphenol	ND		4.7	0.47
51-28-5	2,4-Dinitrophenol	ND		9.4	2.1
121-14-2	2,4-Dinitrotoluene	ND		4.7	0.42
606-20-2	2,6-Dinitrotoluene	ND		4.7	0.38
91-58-7	2-Chloronaphthalene	ND		4.7	0.43
95-57-8	2-Chlorophenol	ND		4.7	0.50
91-57-6	2-Methylnaphthalene	ND		4.7	0.57
95-48-7	2-Methylphenol	ND		4.7	0.38
88-74-4	2-Nitroaniline	ND		9.4	0.40
88-75-5	2-Nitrophenol	ND		4.7	0.45
91-94-1	3,3'-Dichlorobenzidine	ND		4.7	0.38
99-09-2	3-Nitroaniline	ND	F	9.4	0.45
534-52-1	4,6-Dinitro-2-methylphenol	ND		9.4	2.1
101-55-3	4-Bromophenyl phenyl ether	ND		4.7	0.42
59-50-7	4-Chloro-3-methylphenol	ND		4.7	0.42
106-47-8	4-Chloroaniline	ND	F	4.7	0.56
7005-72-3	4-Chlorophenyl phenyl ether	ND		4.7	0.33
106-44-5	4-Methylphenol	ND		9.4	0.34
100-01-6	4-Nitroaniline	ND	F	9.4	0.24
100-02-7	4-Nitrophenol	ND		9.4	1.4
83-32-9	Acenaphthene	ND		4.7	0.39
208-96-8	Acenaphthylene	ND		4.7	0.36
98-86-2	Acetophenone	ND		4.7	0.51
120-12-7	Anthracene	ND		4.7	0.26
1912-24-9	Atrazine	ND		4.7	0.43
100-52-7	Benzaldehyde	ND	F	4.7	0.25
56-55-3	Benzo(a)anthracene	ND		4.7	0.34
50-32-8	Benzo(a)pyrene	ND		4.7	0.44
205-99-2	Benzo(b)fluoranthene	ND		4.7	0.32

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-4S | Lab Sample ID: 480-40517-16

Matrix: Water | Lab File ID: Y001530.D

Analysis Method: 8270C | Date Collected: 06/19/2013 18:00

Extract. Method: 3510C | Date Extracted: 06/21/2013 06:00

Sample wt/vol: 265.1(mL) | Date Analyzed: 06/29/2013 23:58

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 126788 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		4.7	0.33
207-08-9	Benzo(k)fluoranthene	ND		4.7	0.69
111-91-1	Bis(2-chloroethoxy)methane	ND		4.7	0.33
111-44-4	Bis(2-chloroethyl)ether	ND		4.7	0.38
117-81-7	Bis(2-ethylhexyl) phthalate	ND		4.7	1.7
85-68-7	Butyl benzyl phthalate	ND		4.7	0.40
105-60-2	Caprolactam	ND		4.7	2.1
86-74-8	Carbazole	ND		4.7	0.28
218-01-9	Chrysene	ND		4.7	0.31
84-74-2	Di-n-butyl phthalate	~~0.40~~ ND	~~J B~~	4.7	0.29
117-84-0	Di-n-octyl phthalate	ND		4.7	0.44
53-70-3	Dibenz(a,h)anthracene	ND		4.7	0.40
132-64-9	Dibenzofuran	ND		9.4	0.48
84-66-2	Diethyl phthalate	ND		4.7	0.21
131-11-3	Dimethyl phthalate	ND		4.7	0.34
206-44-0	Fluoranthene	ND		4.7	0.38
86-73-7	Fluorene	ND		4.7	0.34
118-74-1	Hexachlorobenzene	ND		4.7	0.48
87-68-3	Hexachlorobutadiene	ND		0.47	0.64
77-47-4	Hexachlorocyclopentadiene	ND		4.7	0.56
67-72-1	Hexachloroethane	ND		4.7	0.56
193-39-5	Indeno(1,2,3-cd)pyrene	ND		4.7	0.44
78-59-1	Isophorone	ND		4.7	0.41
621-64-7	N-Nitrosodi-n-propylamine	ND		4.7	0.51
86-30-6	N-Nitrosodiphenylamine	ND		4.7	0.48
91-20-3	Naphthalene	ND		4.7	0.72
98-95-3	Nitrobenzene	ND		4.7	0.27
87-86-5	Pentachlorophenol	ND		9.4	2.1
85-01-8	Phenanthrene	ND		4.7	0.41
108-95-2	Phenol	ND		4.7	0.37
129-00-0	Pyrene	ND		4.7	0.32

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-5D | Lab Sample ID: 480-40517-8

Matrix: Water | Lab File ID: Y001522.D

Analysis Method: 8270C | Date Collected: 06/19/2013 13:22

Extract. Method: 3510C | Date Extracted: 06/21/2013 06:00

Sample wt/vol: 261.6(mL) | Date Analyzed: 06/29/2013 20:17

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 126788 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		4.8	0.62
108-60-1	bis (2-chloroisopropyl) ether	ND		4.8	0.50
95-95-4	2,4,5-Trichlorophenol	ND		4.8	0.46
88-06-2	2,4,6-Trichlorophenol	ND		4.8	0.58
120-83-2	2,4-Dichlorophenol	ND		4.8	0.49
105-67-9	2,4-Dimethylphenol	ND		4.8	0.48
51-28-5	2,4-Dinitrophenol	ND		9.6	2.1
121-14-2	2,4-Dinitrotoluene	ND		4.8	0.43
606-20-2	2,6-Dinitrotoluene	ND		4.8	0.38
91-58-7	2-Chloronaphthalene	ND		4.8	0.44
95-57-8	2-Chlorophenol	ND		4.8	0.51
91-57-6	2-Methylnaphthalene	ND		4.8	0.57
95-48-7	2-Methylphenol	ND		4.8	0.38
88-74-4	2-Nitroaniline	ND		9.6	0.40
88-75-5	2-Nitrophenol	ND		4.8	0.46
91-94-1	3,3'-Dichlorobenzidine	ND		4.8	0.38
99-09-2	3-Nitroaniline	ND		9.6	0.46
534-52-1	4,6-Dinitro-2-methylphenol	ND		9.6	2.1
101-55-3	4-Bromophenyl phenyl ether	ND		4.8	0.43
59-50-7	4-Chloro-3-methylphenol	ND		4.8	0.43
106-47-8	4-Chloroaniline	ND		4.8	0.56
7005-72-3	4-Chlorophenyl phenyl ether	ND		4.8	0.33
106-44-5	4-Methylphenol	ND		9.6	0.34
100-01-6	4-Nitroaniline	ND		9.6	0.24
100-02-7	4-Nitrophenol	ND		9.6	1.5
83-32-9	Acenaphthene	ND		4.8	0.39
208-96-8	Acenaphthylene	ND		4.8	0.36
98-86-2	Acetophenone	ND		4.8	0.52
120-12-7	Anthracene	ND		4.8	0.27
1912-24-9	Atrazine	ND		4.8	0.44
100-52-7	Benzaldehyde	ND		4.8	0.26
56-55-3	Benzo(a)anthracene	ND		4.8	0.34
50-32-8	Benzo(a)pyrene	ND		4.8	0.45
205-99-2	Benzo(b)fluoranthene	ND		4.8	0.32

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-5D | Lab Sample ID: 480-40517-8

Matrix: Water | Lab File ID: Y001522.D

Analysis Method: 8270C | Date Collected: 06/19/2013 13:22

Extract. Method: 3510C | Date Extracted: 06/21/2013 06:00

Sample wt/vol: 261.6(mL) | Date Analyzed: 06/29/2013 20:17

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 126788 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		4.8	0.33
207-08-9	Benzo(k)fluoranthene	ND		4.8	0.70
111-91-1	Bis(2-chloroethoxy)methane	ND		4.8	0.33
111-44-4	Bis(2-chloroethyl)ether	ND		4.8	0.38
117-81-7	Bis(2-ethylhexyl) phthalate	ND		4.8	1.7
85-68-7	Butyl benzyl phthalate	ND		4.8	0.40
105-60-2	Caprolactam	ND		4.8	2.1
86-74-8	Carbazole	ND		4.8	0.29
218-01-9	Chrysene	ND		4.8	0.32
84-74-2	Di-n-butyl phthalate	~~0.46~~ ND	~~J~~	4.8	0.30
117-84-0	Di-n-octyl phthalate	ND		4.8	0.45
53-70-3	Dibenz(a,h)anthracene	ND		4.8	0.40
132-64-9	Dibenzofuran	ND		9.6	0.49
84-66-2	Diethyl phthalate	ND		4.8	0.21
131-11-3	Dimethyl phthalate	ND		4.8	0.34
206-44-0	Fluoranthene	ND		4.8	0.38
86-73-7	Fluorene	ND		4.8	0.34
118-74-1	Hexachlorobenzene	ND		4.8	0.49
87-68-3	Hexachlorobutadiene	ND		0.48	0.65
77-47-4	Hexachlorocyclopentadiene	ND		4.8	0.56
67-72-1	Hexachloroethane	ND		4.8	0.56
193-39-5	Indeno(1,2,3-cd)pyrene	ND		4.8	0.45
78-59-1	Isophorone	ND		4.8	0.41
621-64-7	N-Nitrosodi-n-propylamine	ND		4.8	0.52
86-30-6	N-Nitrosodiphenylamine	ND		4.8	0.49
91-20-3	Naphthalene	ND		4.8	0.73
98-95-3	Nitrobenzene	ND		4.8	0.28
87-86-5	Pentachlorophenol	ND		9.6	2.1
85-01-8	Phenanthrene	ND		4.8	0.42
108-95-2	Phenol	ND		4.8	0.37
129-00-0	Pyrene	ND		4.8	0.32

dmk 8/29/13

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-5I | Lab Sample ID: 480-40517-10

Matrix: Water | Lab File ID: Y001524.D

Analysis Method: 8270C | Date Collected: 06/19/2013 14:55

Extract. Method: 3510C | Date Extracted: 06/21/2013 06:00

Sample wt/vol: 247.3(mL) | Date Analyzed: 06/29/2013 21:13

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 126788 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		5.1	0.66
108-60-1	bis (2-chloroisopropyl) ether	ND		5.1	0.53
95-95-4	2,4,5-Trichlorophenol	ND		5.1	0.49
88-06-2	2,4,6-Trichlorophenol	ND		5.1	0.62
120-83-2	2,4-Dichlorophenol	ND		5.1	0.52
105-67-9	2,4-Dimethylphenol	ND		5.1	0.51
51-28-5	2,4-Dinitrophenol	ND		10	2.2
121-14-2	2,4-Dinitrotoluene	ND		5.1	0.45
606-20-2	2,6-Dinitrotoluene	ND		5.1	0.40
91-58-7	2-Chloronaphthalene	ND		5.1	0.47
95-57-8	2-Chlorophenol	ND		5.1	0.54
91-57-6	2-Methylnaphthalene	ND		5.1	0.61
95-48-7	2-Methylphenol	ND		5.1	0.40
88-74-4	2-Nitroaniline	ND		10	0.42
88-75-5	2-Nitrophenol	ND		5.1	0.49
91-94-1	3,3'-Dichlorobenzidine	ND		5.1	0.40
99-09-2	3-Nitroaniline	ND		10	0.49
534-52-1	4,6-Dinitro-2-methylphenol	ND		10	2.2
101-55-3	4-Bromophenyl phenyl ether	ND		5.1	0.45
59-50-7	4-Chloro-3-methylphenol	ND		5.1	0.45
106-47-8	4-Chloroaniline	ND		5.1	0.60
7005-72-3	4-Chlorophenyl phenyl ether	ND		5.1	0.35
106-44-5	4-Methylphenol	ND		10	0.36
100-01-6	4-Nitroaniline	ND		10	0.25
100-02-7	4-Nitrophenol	ND		10	1.5
83-32-9	Acenaphthene	ND		5.1	0.41
208-96-8	Acenaphthylene	ND		5.1	0.38
98-86-2	Acetophenone	ND		5.1	0.55
120-12-7	Anthracene	ND		5.1	0.28
1912-24-9	Atrazine	ND		5.1	0.47
100-52-7	Benzaldehyde	ND		5.1	0.27
56-55-3	Benzo(a)anthracene	ND		5.1	0.36
50-32-8	Benzo(a)pyrene	ND		5.1	0.48
205-99-2	Benzo(b)fluoranthene	ND		5.1	0.34

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-5I | Lab Sample ID: 480-40517-10

Matrix: Water | Lab File ID: Y001524.D

Analysis Method: 8270C | Date Collected: 06/19/2013 14:55

Extract. Method: 3510C | Date Extracted: 06/21/2013 06:00

Sample wt/vol: 247.3(mL) | Date Analyzed: 06/29/2013 21:13

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 126788 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		5.1	0.35
207-08-9	Benzo(k)fluoranthene	ND		5.1	0.74
111-91-1	Bis(2-chloroethoxy)methane	ND		5.1	0.35
111-44-4	Bis(2-chloroethyl)ether	ND		5.1	0.40
117-81-7	Bis(2-ethylhexyl) phthalate	ND		5.1	1.8
85-68-7	Butyl benzyl phthalate	ND		5.1	0.42
105-60-2	Caprolactam	ND		5.1	2.2
86-74-8	Carbazole	ND		5.1	0.30
218-01-9	Chrysene	ND		5.1	0.33
84-74-2	Di-n-butyl phthalate	~~0.63~~ ND	~~J~~ B	5.1	0.31
117-84-0	Di-n-octyl phthalate	ND		5.1	0.48
53-70-3	Dibenz(a,h)anthracene	ND		5.1	0.42
132-64-9	Dibenzofuran	ND		10	0.52
84-66-2	Diethyl phthalate	ND		5.1	0.22
131-11-3	Dimethyl phthalate	ND		5.1	0.36
206-44-0	Fluoranthene	ND		5.1	0.40
86-73-7	Fluorene	ND		5.1	0.36
118-74-1	Hexachlorobenzene	ND		5.1	0.52
87-68-3	Hexachlorobutadiene	ND		0.51	0.69
77-47-4	Hexachlorocyclopentadiene	ND		5.1	0.60
67-72-1	Hexachloroethane	ND		5.1	0.60
193-39-5	Indeno(1,2,3-cd)pyrene	ND		5.1	0.48
78-59-1	Isophorone	ND		5.1	0.43
621-64-7	N-Nitrosodi-n-propylamine	ND		5.1	0.55
86-30-6	N-Nitrosodiphenylamine	ND		5.1	0.52
91-20-3	Naphthalene	ND		5.1	0.77
98-95-3	Nitrobenzene	ND		5.1	0.29
87-86-5	Pentachlorophenol	ND		10	2.2
85-01-8	Phenanthrene	~~0.50~~ ND	~~J~~ B	5.1	0.44
108-95-2	Phenol	ND		5.1	0.39
129-00-0	Pyrene	ND		5.1	0.34

7/29/13

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-5S | Lab Sample ID: 480-40517-9

Matrix: Water | Lab File ID: Y001523.D

Analysis Method: 8270C | Date Collected: 06/19/2013 14:00

Extract. Method: 3510C | Date Extracted: 06/21/2013 06:00

Sample wt/vol: 259.6(mL) | Date Analyzed: 06/29/2013 20:45

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 126788 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		4.8	0.63
108-60-1	bis (2-chloroisopropyl) ether	ND		4.8	0.50
95-95-4	2,4,5-Trichlorophenol	ND		4.8	0.46
88-06-2	2,4,6-Trichlorophenol	ND		4.8	0.59
120-83-2	2,4-Dichlorophenol	ND		4.8	0.49
105-67-9	2,4-Dimethylphenol	ND		4.8	0.48
51-28-5	2,4-Dinitrophenol	ND		9.6	2.1
121-14-2	2,4-Dinitrotoluene	ND		4.8	0.43
606-20-2	2,6-Dinitrotoluene	ND		4.8	0.39
91-58-7	2-Chloronaphthalene	ND		4.8	0.44
95-57-8	2-Chlorophenol	ND		4.8	0.51
91-57-6	2-Methylnaphthalene	ND		4.8	0.58
95-48-7	2-Methylphenol	ND		4.8	0.39
88-74-4	2-Nitroaniline	ND		9.6	0.40
88-75-5	2-Nitrophenol	ND		4.8	0.46
91-94-1	3,3'-Dichlorobenzidine	ND		4.8	0.39
99-09-2	3-Nitroaniline	ND		9.6	0.46
534-52-1	4,6-Dinitro-2-methylphenol	ND		9.6	2.1
101-55-3	4-Bromophenyl phenyl ether	ND		4.8	0.43
59-50-7	4-Chloro-3-methylphenol	ND		4.8	0.43
106-47-8	4-Chloroaniline	ND		4.8	0.57
7005-72-3	4-Chlorophenyl phenyl ether	ND		4.8	0.34
106-44-5	4-Methylphenol	ND		9.6	0.35
100-01-6	4-Nitroaniline	ND		9.6	0.24
100-02-7	4-Nitrophenol	ND		9.6	1.5
83-32-9	Acenaphthene	ND		4.8	0.39
208-96-8	Acenaphthylene	ND		4.8	0.37
98-86-2	Acetophenone	ND		4.8	0.52
120-12-7	Anthracene	ND		4.8	0.27
1912-24-9	Atrazine	ND		4.8	0.44
100-52-7	Benzaldehyde	ND		4.8	0.26
56-55-3	Benzo(a)anthracene	ND		4.8	0.35
50-32-8	Benzo(a)pyrene	ND		4.8	0.45
205-99-2	Benzo(b)fluoranthene	ND		4.8	0.33

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-5S | Lab Sample ID: 480-40517-9

Matrix: Water | Lab File ID: Y001523.D

Analysis Method: 8270C | Date Collected: 06/19/2013 14:00

Extract. Method: 3510C | Date Extracted: 06/21/2013 06:00

Sample wt/vol: 259.6(mL) | Date Analyzed: 06/29/2013 20:45

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 126788 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		4.8	0.34
207-08-9	Benzo(k)fluoranthene	ND		4.8	0.70
111-91-1	Bis(2-chloroethoxy)methane	ND		4.8	0.34
111-44-4	Bis(2-chloroethyl)ether	ND		4.8	0.39
117-81-7	Bis(2-ethylhexyl) phthalate	ND		4.8	1.7
85-68-7	Butyl benzyl phthalate	ND		4.8	0.40
105-60-2	Caprolactam	ND		4.8	2.1
86-74-8	Carbazole	ND		4.8	0.29
218-01-9	Chrysene	ND		4.8	0.32
84-74-2	Di-n-butyl phthalate	~~0.66~~ ND	~~J~~	4.8	0.30
117-84-0	Di-n-octyl phthalate	ND		4.8	0.45
53-70-3	Dibenz(a,h)anthracene	ND		4.8	0.40
132-64-9	Dibenzofuran	ND		9.6	0.49
84-66-2	Diethyl phthalate	ND		4.8	0.21
131-11-3	Dimethyl phthalate	ND		4.8	0.35
206-44-0	Fluoranthene	ND		4.8	0.39
86-73-7	Fluorene	ND		4.8	0.35
118-74-1	Hexachlorobenzene	ND		4.8	0.49
87-68-3	Hexachlorobutadiene	ND		0.48	0.65
77-47-4	Hexachlorocyclopentadiene	ND		4.8	0.57
67-72-1	Hexachloroethane	ND		4.8	0.57
193-39-5	Indeno(1,2,3-cd)pyrene	ND		4.8	0.45
78-59-1	Isophorone	ND		4.8	0.41
621-64-7	N-Nitrosodi-n-propylamine	ND		4.8	0.52
86-30-6	N-Nitrosodiphenylamine	ND		4.8	0.49
91-20-3	Naphthalene	ND		4.8	0.73
98-95-3	Nitrobenzene	ND		4.8	0.28
87-86-5	Pentachlorophenol	ND		9.6	2.1
85-01-8	Phenanthrene	ND		4.8	0.42
108-95-2	Phenol	ND		4.8	0.38
129-00-0	Pyrene	ND		4.8	0.33

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-7I | Lab Sample ID: 480-40517-7

Matrix: Water | Lab File ID: Y001521.D

Analysis Method: 8270C | Date Collected: 06/19/2013 11:58

Extract. Method: 3510C | Date Extracted: 06/21/2013 06:00

Sample wt/vol: 253.6(mL) | Date Analyzed: 06/29/2013 19:50

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 126788 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		4.9	0.64
108-60-1	bis (2-chloroisopropyl) ether	ND		4.9	0.51
95-95-4	2,4,5-Trichlorophenol	ND		4.9	0.47
88-06-2	2,4,6-Trichlorophenol	ND		4.9	0.60
120-83-2	2,4-Dichlorophenol	ND		4.9	0.50
105-67-9	2,4-Dimethylphenol	ND		4.9	0.49
51-28-5	2,4-Dinitrophenol	ND		9.9	2.2
121-14-2	2,4-Dinitrotoluene	ND		4.9	0.44
606-20-2	2,6-Dinitrotoluene	ND		4.9	0.39
91-58-7	2-Chloronaphthalene	ND		4.9	0.45
95-57-8	2-Chlorophenol	ND		4.9	0.52
91-57-6	2-Methylnaphthalene	ND		4.9	0.59
95-48-7	2-Methylphenol	ND		4.9	0.39
88-74-4	2-Nitroaniline	ND		9.9	0.41
88-75-5	2-Nitrophenol	ND		4.9	0.47
91-94-1	3,3'-Dichlorobenzidine	ND		4.9	0.39
99-09-2	3-Nitroaniline	ND	/	9.9	0.47
534-52-1	4,6-Dinitro-2-methylphenol	ND		9.9	2.2
101-55-3	4-Bromophenyl phenyl ether	ND		4.9	0.44
59-50-7	4-Chloro-3-methylphenol	ND		4.9	0.44
106-47-8	4-Chloroaniline	ND	/	4.9	0.58
7005-72-3	4-Chlorophenyl phenyl ether	ND		4.9	0.35
106-44-5	4-Methylphenol	ND		9.9	0.35
100-01-6	4-Nitroaniline	ND	/	9.9	0.25
100-02-7	4-Nitrophenol	ND		9.9	1.5
83-32-9	Acenaphthene	ND		4.9	0.40
208-96-8	Acenaphthylene	ND		4.9	0.37
98-86-2	Acetophenone	ND		4.9	0.53
120-12-7	Anthracene	ND		4.9	0.28
1912-24-9	Atrazine	ND		4.9	0.45
100-52-7	Benzaldehyde	ND	/	4.9	0.26
56-55-3	Benzo(a)anthracene	ND		4.9	0.35
50-32-8	Benzo(a)pyrene	ND		4.9	0.46
205-99-2	Benzo(b)fluoranthene	ND		4.9	0.34

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-7I | Lab Sample ID: 480-40517-7

Matrix: Water | Lab File ID: Y001521.D

Analysis Method: 8270C | Date Collected: 06/19/2013 11:58

Extract. Method: 3510C | Date Extracted: 06/21/2013 06:00

Sample wt/vol: 253.6(mL) | Date Analyzed: 06/29/2013 19:50

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 126788 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		4.9	0.35
207-08-9	Benzo(k)fluoranthene	ND		4.9	0.72
111-91-1	Bis(2-chloroethoxy)methane	ND		4.9	0.35
111-44-4	Bis(2-chloroethyl)ether	ND		4.9	0.39
117-81-7	Bis(2-ethylhexyl) phthalate	ND		4.9	1.8
85-68-7	Butyl benzyl phthalate	ND		4.9	0.41
105-60-2	Caprolactam	ND		4.9	2.2
86-74-8	Carbazole	ND		4.9	0.30
218-01-9	Chrysene	ND		4.9	0.33
84-74-2	Di-n-butyl phthalate	~~0.71~~ ND	~~J~~	4.9	0.31
117-84-0	Di-n-octyl phthalate	ND		4.9	0.46
53-70-3	Dibenz(a,h)anthracene	ND		4.9	0.41
132-64-9	Dibenzofuran	ND		9.9	0.50
84-66-2	Diethyl phthalate	ND		4.9	0.22
131-11-3	Dimethyl phthalate	ND		4.9	0.35
206-44-0	Fluoranthene	ND		4.9	0.39
86-73-7	Fluorene	ND		4.9	0.35
118-74-1	Hexachlorobenzene	ND		4.9	0.50
87-68-3	Hexachlorobutadiene	ND		0.49	0.67
77-47-4	Hexachlorocyclopentadiene	ND		4.9	0.58
67-72-1	Hexachloroethane	ND		4.9	0.58
193-39-5	Indeno(1,2,3-cd)pyrene	ND		4.9	0.46
78-59-1	Isophorone	ND		4.9	0.42
621-64-7	N-Nitrosodi-n-propylamine	ND		4.9	0.53
86-30-6	N-Nitrosodiphenylamine	ND		4.9	0.50
91-20-3	Naphthalene	ND		4.9	0.75
98-95-3	Nitrobenzene	ND		4.9	0.29
87-86-5	Pentachlorophenol	ND		9.9	2.2
85-01-8	Phenanthrene	ND		4.9	0.43
108-95-2	Phenol	ND		4.9	0.38
129-00-0	Pyrene	ND		4.9	0.34

dlsk 8/26/13

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-7S | Lab Sample ID: 480-40517-6

Matrix: Water | Lab File ID: Y001520.D

Analysis Method: 8270C | Date Collected: 06/19/2013 10:34

Extract. Method: 3510C | Date Extracted: 06/21/2013 06:00

Sample wt/vol: 259(mL) | Date Analyzed: 06/29/2013 19:22

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 126788 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		4.8	0.63
108-60-1	bis (2-chloroisopropyl) ether	ND		4.8	0.50
95-95-4	2,4,5-Trichlorophenol	ND		4.8	0.46
88-06-2	2,4,6-Trichlorophenol	ND		4.8	0.59
120-83-2	2,4-Dichlorophenol	ND		4.8	0.49
105-67-9	2,4-Dimethylphenol	ND		4.8	0.48
51-28-5	2,4-Dinitrophenol	ND		9.7	2.1
121-14-2	2,4-Dinitrotoluene	ND		4.8	0.43
606-20-2	2,6-Dinitrotoluene	ND		4.8	0.39
91-58-7	2-Chloronaphthalene	ND		4.8	0.44
95-57-8	2-Chlorophenol	ND		4.8	0.51
91-57-6	2-Methylnaphthalene	ND		4.8	0.58
95-48-7	2-Methylphenol	ND		4.8	0.39
88-74-4	2-Nitroaniline	ND		9.7	0.41
88-75-5	2-Nitrophenol	ND		4.8	0.46
91-94-1	3,3'-Dichlorobenzidine	ND		4.8	0.39
99-09-2	3-Nitroaniline	ND		9.7	0.46
534-52-1	4,6-Dinitro-2-methylphenol	ND		9.7	2.1
101-55-3	4-Bromophenyl phenyl ether	ND		4.8	0.43
59-50-7	4-Chloro-3-methylphenol	ND		4.8	0.43
106-47-8	4-Chloroaniline	ND		4.8	0.57
7005-72-3	4-Chlorophenyl phenyl ether	ND		4.8	0.34
106-44-5	4-Methylphenol	ND		9.7	0.35
100-01-6	4-Nitroaniline	ND		9.7	0.24
100-02-7	4-Nitrophenol	ND		9.7	1.5
83-32-9	Acenaphthene	ND		4.8	0.40
208-96-8	Acenaphthylene	ND		4.8	0.37
98-86-2	Acetophenone	ND		4.8	0.52
120-12-7	Anthracene	ND		4.8	0.27
1912-24-9	Atrazine	ND		4.8	0.44
100-52-7	Benzaldehyde	ND		4.8	0.26
56-55-3	Benzo(a)anthracene	ND		4.8	0.35
50-32-8	Benzo(a)pyrene	ND		4.8	0.45
205-99-2	Benzo(b)fluoranthene	ND		4.8	0.33

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-7S | Lab Sample ID: 480-40517-6

Matrix: Water | Lab File ID: Y001520.D

Analysis Method: 8270C | Date Collected: 06/19/2013 10:34

Extract. Method: 3510C | Date Extracted: 06/21/2013 06:00

Sample wt/vol: 259(mL) | Date Analyzed: 06/29/2013 19:22

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 126788 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		4.8	0.34
207-08-9	Benzo(k)fluoranthene	ND		4.8	0.70
111-91-1	Bis(2-chloroethoxy)methane	ND		4.8	0.34
111-44-4	Bis(2-chloroethyl)ether	ND		4.8	0.39
117-81-7	Bis(2-ethylhexyl) phthalate	ND		4.8	1.7
85-68-7	Butyl benzyl phthalate	ND		4.8	0.41
105-60-2	Caprolactam	ND		4.8	2.1
86-74-8	Carbazole	ND		4.8	0.29
218-01-9	Chrysene	ND		4.8	0.32
84-74-2	Di-n-butyl phthalate	~~0.59~~ ND	~~J~~ B	4.8	0.30
117-84-0	Di-n-octyl phthalate	ND		4.8	0.45
53-70-3	Dibenz(a,h)anthracene	ND		4.8	0.41
132-64-9	Dibenzofuran	ND		9.7	0.49
84-66-2	Diethyl phthalate	ND		4.8	0.21
131-11-3	Dimethyl phthalate	ND		4.8	0.35
206-44-0	Fluoranthene	ND		4.8	0.39
86-73-7	Fluorene	ND		4.8	0.35
118-74-1	Hexachlorobenzene	ND		4.8	0.49
87-68-3	Hexachlorobutadiene	ND		0.48	0.66
77-47-4	Hexachlorocyclopentadiene	ND		4.8	0.57
67-72-1	Hexachloroethane	ND		4.8	0.57
193-39-5	Indeno(1,2,3-cd)pyrene	ND		4.8	0.45
78-59-1	Isophorone	ND		4.8	0.42
621-64-7	N-Nitrosodi-n-propylamine	ND		4.8	0.52
86-30-6	N-Nitrosodiphenylamine	ND		4.8	0.49
91-20-3	Naphthalene	ND		4.8	0.73
98-95-3	Nitrobenzene	ND		4.8	0.28
87-86-5	Pentachlorophenol	ND		9.7	2.1
85-01-8	Phenanthrene	~~0.42~~ ND	~~J~~ B	4.8	0.42
108-95-2	Phenol	ND		4.8	0.38
129-00-0	Pyrene	ND		4.8	0.33

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-9S | Lab Sample ID: 480-40517-5

Matrix: Water | Lab File ID: Y001519.D

Analysis Method: 8270C | Date Collected: 06/19/2013 08:21

Extract. Method: 3510C | Date Extracted: 06/21/2013 06:00

Sample wt/vol: 246.2(mL) | Date Analyzed: 06/29/2013 18:55

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 126788 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		5.1	0.66
108-60-1	bis (2-chloroisopropyl) ether	ND		5.1	0.53
95-95-4	2,4,5-Trichlorophenol	ND		5.1	0.49
88-06-2	2,4,6-Trichlorophenol	ND		5.1	0.62
120-83-2	2,4-Dichlorophenol	ND		5.1	0.52
105-67-9	2,4-Dimethylphenol	ND		5.1	0.51
51-28-5	2,4-Dinitrophenol	ND		10	2.3
121-14-2	2,4-Dinitrotoluene	ND		5.1	0.45
606-20-2	2,6-Dinitrotoluene	ND		5.1	0.41
91-58-7	2-Chloronaphthalene	ND		5.1	0.47
95-57-8	2-Chlorophenol	ND		5.1	0.54
91-57-6	2-Methylnaphthalene	ND		5.1	0.61
95-48-7	2-Methylphenol	ND		5.1	0.41
88-74-4	2-Nitroaniline	ND		10	0.43
88-75-5	2-Nitrophenol	ND		5.1	0.49
91-94-1	3,3'-Dichlorobenzidine	ND		5.1	0.41
99-09-2	3-Nitroaniline	ND	*	10	0.49
534-52-1	4,6-Dinitro-2-methylphenol	ND		10	2.2
101-55-3	4-Bromophenyl phenyl ether	ND		5.1	0.46
59-50-7	4-Chloro-3-methylphenol	ND		5.1	0.46
106-47-8	4-Chloroaniline	ND	*	5.1	0.60
7005-72-3	4-Chlorophenyl phenyl ether	ND		5.1	0.36
106-44-5	4-Methylphenol	ND		10	0.37
100-01-6	4-Nitroaniline	ND	*	10	0.25
100-02-7	4-Nitrophenol	ND		10	1.5
83-32-9	Acenaphthene	ND		5.1	0.42
208-96-8	Acenaphthylene	ND		5.1	0.39
98-86-2	Acetophenone	ND		5.1	0.55
120-12-7	Anthracene	ND		5.1	0.28
1912-24-9	Atrazine	ND		5.1	0.47
100-52-7	Benzaldehyde	ND	*	5.1	0.27
56-55-3	Benzo(a)anthracene	ND		5.1	0.37
50-32-8	Benzo(a)pyrene	ND		5.1	0.48
205-99-2	Benzo(b)fluoranthene	ND		5.1	0.35

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-9S | Lab Sample ID: 480-40517-5

Matrix: Water | Lab File ID: Y001519.D

Analysis Method: 8270C | Date Collected: 06/19/2013 08:21

Extract. Method: 3510C | Date Extracted: 06/21/2013 06:00

Sample wt/vol: 246.2(mL) | Date Analyzed: 06/29/2013 18:55

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 126788 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		5.1	0.36
207-08-9	Benzo(k)fluoranthene	ND		5.1	0.74
111-91-1	Bis(2-chloroethoxy)methane	ND		5.1	0.36
111-44-4	Bis(2-chloroethyl)ether	ND		5.1	0.41
117-81-7	Bis(2-ethylhexyl) phthalate	ND		5.1	1.8
85-68-7	Butyl benzyl phthalate	ND		5.1	0.43
105-60-2	Caprolactam	ND		5.1	2.2
86-74-8	Carbazole	ND		5.1	0.30
218-01-9	Chrysene	ND		5.1	0.34
84-74-2	Di-n-butyl phthalate	~~0.53~~ ND	~~J~~ B	5.1	0.31
117-84-0	Di-n-octyl phthalate	ND		5.1	0.48
53-70-3	Dibenz(a,h)anthracene	ND		5.1	0.43
132-64-9	Dibenzofuran	ND		10	0.52
84-66-2	Diethyl phthalate	ND		5.1	0.22
131-11-3	Dimethyl phthalate	ND		5.1	0.37
206-44-0	Fluoranthene	ND		5.1	0.41
86-73-7	Fluorene	ND		5.1	0.37
118-74-1	Hexachlorobenzene	ND		5.1	0.52
87-68-3	Hexachlorobutadiene	ND		0.51	0.69
77-47-4	Hexachlorocyclopentadiene	ND		5.1	0.60
67-72-1	Hexachloroethane	ND		5.1	0.60
193-39-5	Indeno(1,2,3-cd)pyrene	ND		5.1	0.48
78-59-1	Isophorone	ND		5.1	0.44
621-64-7	N-Nitrosodi-n-propylamine	ND		5.1	0.55
86-30-6	N-Nitrosodiphenylamine	ND		5.1	0.52
91-20-3	Naphthalene	ND		5.1	0.77
98-95-3	Nitrobenzene	ND		5.1	0.29
87-86-5	Pentachlorophenol	ND		10	2.2
85-01-8	Phenanthrene	ND		5.1	0.45
108-95-2	Phenol	ND		5.1	0.40
129-00-0	Pyrene	ND		5.1	0.35

7/8/13

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-10D | Lab Sample ID: 480-40517-2

Matrix: Water | Lab File ID: Y001516.D

Analysis Method: 8270C | Date Collected: 06/18/2013 16:28

Extract. Method: 3510C | Date Extracted: 06/21/2013 06:00

Sample wt/vol: 258.9(mL) | Date Analyzed: 06/29/2013 17:32

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 126788 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		4.8	0.63
108-60-1	bis (2-chloroisopropyl) ether	ND		4.8	0.50
95-95-4	2,4,5-Trichlorophenol	ND		4.8	0.46
88-06-2	2,4,6-Trichlorophenol	ND		4.8	0.59
120-83-2	2,4-Dichlorophenol	ND		4.8	0.49
105-67-9	2,4-Dimethylphenol	ND		4.8	0.48
51-28-5	2,4-Dinitrophenol	ND		9.7	2.1
121-14-2	2,4-Dinitrotoluene	ND		4.8	0.43
606-20-2	2,6-Dinitrotoluene	ND		4.8	0.39
91-58-7	2-Chloronaphthalene	ND		4.8	0.44
95-57-8	2-Chlorophenol	ND		4.8	0.51
91-57-6	2-Methylnaphthalene	ND		4.8	0.58
95-48-7	2-Methylphenol	ND		4.8	0.39
88-74-4	2-Nitroaniline	ND		9.7	0.41
88-75-5	2-Nitrophenol	ND		4.8	0.46
91-94-1	3,3'-Dichlorobenzidine	ND		4.8	0.39
99-09-2	3-Nitroaniline	ND		9.7	0.46
534-52-1	4,6-Dinitro-2-methylphenol	ND		9.7	2.1
101-55-3	4-Bromophenyl phenyl ether	ND		4.8	0.43
59-50-7	4-Chloro-3-methylphenol	ND		4.8	0.43
106-47-8	4-Chloroaniline	ND		4.8	0.57
7005-72-3	4-Chlorophenyl phenyl ether	ND		4.8	0.34
106-44-5	4-Methylphenol	ND		9.7	0.35
100-01-6	4-Nitroaniline	ND		9.7	0.24
100-02-7	4-Nitrophenol	ND		9.7	1.5
83-32-9	Acenaphthene	ND		4.8	0.40
208-96-8	Acenaphthylene	ND		4.8	0.37
98-86-2	Acetophenone	ND		4.8	0.52
120-12-7	Anthracene	ND		4.8	0.27
1912-24-9	Atrazine	ND		4.8	0.44
100-52-7	Benzaldehyde	ND		4.8	0.26
56-55-3	Benzo(a)anthracene	ND		4.8	0.35
50-32-8	Benzo(a)pyrene	ND		4.8	0.45
205-99-2	Benzo(b)fluoranthene	ND		4.8	0.33

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-10D | Lab Sample ID: 480-40517-2

Matrix: Water | Lab File ID: Y001516.D

Analysis Method: 8270C | Date Collected: 06/18/2013 16:28

Extract. Method: 3510C | Date Extracted: 06/21/2013 06:00

Sample wt/vol: 258.9(mL) | Date Analyzed: 06/29/2013 17:32

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 126788 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		4.8	0.34
207-08-9	Benzo(k)fluoranthene	ND		4.8	0.70
111-91-1	Bis(2-chloroethoxy)methane	ND		4.8	0.34
111-44-4	Bis(2-chloroethyl)ether	ND		4.8	0.39
117-81-7	Bis(2-ethylhexyl) phthalate	ND		4.8	1.7
85-68-7	Butyl benzyl phthalate	ND		4.8	0.41
105-60-2	Caprolactam	ND		4.8	2.1
86-74-8	Carbazole	ND		4.8	0.29
218-01-9	Chrysene	ND		4.8	0.32
84-74-2	Di-n-butyl phthalate	~~0.48~~ ND	~~J B~~	4.8	0.30
117-84-0	Di-n-octyl phthalate	ND		4.8	0.45
53-70-3	Dibenz(a,h)anthracene	ND		4.8	0.41
132-64-9	Dibenzofuran	ND		9.7	0.49
84-66-2	Diethyl phthalate	ND		4.8	0.21
131-11-3	Dimethyl phthalate	ND		4.8	0.35
206-44-0	Fluoranthene	ND		4.8	0.39
86-73-7	Fluorene	ND		4.8	0.35
118-74-1	Hexachlorobenzene	ND		4.8	0.49
87-68-3	Hexachlorobutadiene	ND		0.48	0.66
77-47-4	Hexachlorocyclopentadiene	ND		4.8	0.57
67-72-1	Hexachloroethane	ND		4.8	0.57
193-39-5	Indeno(1,2,3-cd)pyrene	ND		4.8	0.45
78-59-1	Isophorone	ND		4.8	0.42
621-64-7	N-Nitrosodi-n-propylamine	ND		4.8	0.52
86-30-6	N-Nitrosodiphenylamine	ND		4.8	0.49
91-20-3	Naphthalene	ND		4.8	0.73
98-95-3	Nitrobenzene	ND		4.8	0.28
87-86-5	Pentachlorophenol	ND		9.7	2.1
85-01-8	Phenanthrene	ND		4.8	0.42
108-95-2	Phenol	ND		4.8	0.38
129-00-0	Pyrene	ND		4.8	0.33

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-10I | Lab Sample ID: 480-40517-3

Matrix: Water | Lab File ID: Y001517.D

Analysis Method: 8270C | Date Collected: 06/18/2013 17:36

Extract. Method: 3510C | Date Extracted: 06/21/2013 06:00

Sample wt/vol: 258(mL) | Date Analyzed: 06/29/2013 17:59

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 126788 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		4.8	0.63
108-60-1	bis (2-chloroisopropyl) ether	ND		4.8	0.50
95-95-4	2,4,5-Trichlorophenol	ND		4.8	0.47
88-06-2	2,4,6-Trichlorophenol	ND		4.8	0.59
120-83-2	2,4-Dichlorophenol	ND		4.8	0.49
105-67-9	2,4-Dimethylphenol	ND		4.8	0.48
51-28-5	2,4-Dinitrophenol	ND		9.7	2.2
121-14-2	2,4-Dinitrotoluene	ND		4.8	0.43
606-20-2	2,6-Dinitrotoluene	ND		4.8	0.39
91-58-7	2-Chloronaphthalene	ND		4.8	0.45
95-57-8	2-Chlorophenol	ND		4.8	0.51
91-57-6	2-Methylnaphthalene	ND		4.8	0.58
95-48-7	2-Methylphenol	ND		4.8	0.39
88-74-4	2-Nitroaniline	ND		9.7	0.41
88-75-5	2-Nitrophenol	ND		4.8	0.47
91-94-1	3,3'-Dichlorobenzidine	ND		4.8	0.39
99-09-2	3-Nitroaniline	ND	✓	9.7	0.47
534-52-1	4,6-Dinitro-2-methylphenol	ND		9.7	2.1
101-55-3	4-Bromophenyl phenyl ether	ND		4.8	0.44
59-50-7	4-Chloro-3-methylphenol	ND		4.8	0.44
106-47-8	4-Chloroaniline	ND	✓	4.8	0.57
7005-72-3	4-Chlorophenyl phenyl ether	ND		4.8	0.34
106-44-5	4-Methylphenol	ND		9.7	0.35
100-01-6	4-Nitroaniline	ND	✓	9.7	0.24
100-02-7	4-Nitrophenol	ND		9.7	1.5
83-32-9	Acenaphthene	ND		4.8	0.40
208-96-8	Acenaphthylene	ND		4.8	0.37
98-86-2	Acetophenone	ND		4.8	0.52
120-12-7	Anthracene	ND		4.8	0.27
1912-24-9	Atrazine	ND		4.8	0.45
100-52-7	Benzaldehyde	ND	✓	4.8	0.26
56-55-3	Benzo(a)anthracene	ND		4.8	0.35
50-32-8	Benzo(a)pyrene	ND		4.8	0.46
205-99-2	Benzo(b)fluoranthene	ND		4.8	0.33

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-10I | Lab Sample ID: 480-40517-3

Matrix: Water | Lab File ID: Y001517.D

Analysis Method: 8270C | Date Collected: 06/18/2013 17:36

Extract. Method: 3510C | Date Extracted: 06/21/2013 06:00

Sample wt/vol: 258(mL) | Date Analyzed: 06/29/2013 17:59

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 126788 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		4.8	0.34
207-08-9	Benzo(k)fluoranthene	ND		4.8	0.71
111-91-1	Bis(2-chloroethoxy)methane	ND		4.8	0.34
111-44-4	Bis(2-chloroethyl)ether	ND		4.8	0.39
117-81-7	Bis(2-ethylhexyl) phthalate	ND		4.8	1.7
85-68-7	Butyl benzyl phthalate	ND		4.8	0.41
105-60-2	Caprolactam	ND		4.8	2.1
86-74-8	Carbazole	ND		4.8	0.29
218-01-9	Chrysene	ND		4.8	0.32
84-74-2	Di-n-butyl phthalate	~~0.55~~ ND	~~J~~ B	4.8	0.30
117-84-0	Di-n-octyl phthalate	ND		4.8	0.46
53-70-3	Dibenz(a,h)anthracene	ND		4.8	0.41
132-64-9	Dibenzofuran	ND		9.7	0.49
84-66-2	Diethyl phthalate	ND		4.8	0.21
131-11-3	Dimethyl phthalate	ND		4.8	0.35
206-44-0	Fluoranthene	ND		4.8	0.39
86-73-7	Fluorene	ND		4.8	0.35
118-74-1	Hexachlorobenzene	ND		4.8	0.49
87-68-3	Hexachlorobutadiene	ND		0.48	0.66
77-47-4	Hexachlorocyclopentadiene	ND		4.8	0.57
67-72-1	Hexachloroethane	ND		4.8	0.57
193-39-5	Indeno(1,2,3-cd)pyrene	ND		4.8	0.46
78-59-1	Isophorone	ND		4.8	0.42
621-64-7	N-Nitrosodi-n-propylamine	ND		4.8	0.52
86-30-6	N-Nitrosodiphenylamine	ND		4.8	0.49
91-20-3	Naphthalene	ND		4.8	0.74
98-95-3	Nitrobenzene	ND		4.8	0.28
87-86-5	Pentachlorophenol	ND		9.7	2.1
85-01-8	Phenanthrene	ND		4.8	0.43
108-95-2	Phenol	ND		4.8	0.38
129-00-0	Pyrene	ND		4.8	0.33

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-10S | Lab Sample ID: 480-40517-1

Matrix: Water | Lab File ID: Y001515.D

Analysis Method: 8270C | Date Collected: 06/18/2013 15:06

Extract. Method: 3510C | Date Extracted: 06/21/2013 06:00

Sample wt/vol: 261.9(mL) | Date Analyzed: 06/29/2013 17:04

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 126788 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		4.8	0.62
108-60-1	bis (2-chloroisopropyl) ether	ND		4.8	0.50
95-95-4	2,4,5-Trichlorophenol	ND		4.8	0.46
88-06-2	2,4,6-Trichlorophenol	ND		4.8	0.58
120-83-2	2,4-Dichlorophenol	ND		4.8	0.49
105-67-9	2,4-Dimethylphenol	1.0	J	4.8	0.48
51-28-5	2,4-Dinitrophenol	ND		9.5	2.1
121-14-2	2,4-Dinitrotoluene	ND		4.8	0.43
606-20-2	2,6-Dinitrotoluene	ND		4.8	0.38
91-58-7	2-Chloronaphthalene	ND		4.8	0.44
95-57-8	2-Chlorophenol	ND		4.8	0.51
91-57-6	2-Methylnaphthalene	ND		4.8	0.57
95-48-7	2-Methylphenol	ND		4.8	0.38
88-74-4	2-Nitroaniline	ND		9.5	0.40
88-75-5	2-Nitrophenol	ND		4.8	0.46
91-94-1	3,3'-Dichlorobenzidine	ND		4.8	0.38
99-09-2	3-Nitroaniline	ND		9.5	0.46
534-52-1	4,6-Dinitro-2-methylphenol	ND		9.5	2.1
101-55-3	4-Bromophenyl phenyl ether	ND		4.8	0.43
59-50-7	4-Chloro-3-methylphenol	ND		4.8	0.43
106-47-8	4-Chloroaniline	ND		4.8	0.56
7005-72-3	4-Chlorophenyl phenyl ether	ND		4.8	0.33
106-44-5	4-Methylphenol	ND		9.5	0.34
100-01-6	4-Nitroaniline	ND		9.5	0.24
100-02-7	4-Nitrophenol	ND		9.5	1.5
83-32-9	Acenaphthene	ND		4.8	0.39
208-96-8	Acenaphthylene	ND		4.8	0.36
98-86-2	Acetophenone	ND		4.8	0.52
120-12-7	Anthracene	ND		4.8	0.27
1912-24-9	Atrazine	ND		4.8	0.44
100-52-7	Benzaldehyde	0.26	J	4.8	0.25
56-55-3	Benzo(a)anthracene	ND		4.8	0.34
50-32-8	Benzo(a)pyrene	ND		4.8	0.45
205-99-2	Benzo(b)fluoranthene	ND		4.8	0.32

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: MW-10S | Lab Sample ID: 480-40517-1

Matrix: Water | Lab File ID: Y001515.D

Analysis Method: 8270C | Date Collected: 06/18/2013 15:06

Extract. Method: 3510C | Date Extracted: 06/21/2013 06:00

Sample wt/vol: 261.9(mL) | Date Analyzed: 06/29/2013 17:04

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 126788 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		4.8	0.33
207-08-9	Benzo(k)fluoranthene	ND		4.8	0.70
111-91-1	Bis(2-chloroethoxy)methane	ND		4.8	0.33
111-44-4	Bis(2-chloroethyl)ether	ND		4.8	0.38
117-81-7	Bis(2-ethylhexyl) phthalate	ND		4.8	1.7
85-68-7	Butyl benzyl phthalate	ND		4.8	0.40
105-60-2	Caprolactam	ND		4.8	2.1
86-74-8	Carbazole	ND		4.8	0.29
218-01-9	Chrysene	ND		4.8	0.32
84-74-2	Di-n-butyl phthalate	~~0.67~~ ND	~~J~~	4.8	0.30
117-84-0	Di-n-octyl phthalate	ND		4.8	0.45
53-70-3	Dibenz(a,h)anthracene	ND		4.8	0.40
132-64-9	Dibenzofuran	ND		9.5	0.49
84-66-2	Diethyl phthalate	ND		4.8	0.21
131-11-3	Dimethyl phthalate	ND		4.8	0.34
206-44-0	Fluoranthene	ND		4.8	0.38
86-73-7	Fluorene	ND		4.8	0.34
118-74-1	Hexachlorobenzene	ND		4.8	0.49
87-68-3	Hexachlorobutadiene	ND		0.48	0.65
77-47-4	Hexachlorocyclopentadiene	ND		4.8	0.56
67-72-1	Hexachloroethane	ND		4.8	0.56
193-39-5	Indeno(1,2,3-cd)pyrene	ND		4.8	0.45
78-59-1	Isophorone	ND		4.8	0.41
621-64-7	N-Nitrosodi-n-propylamine	ND		4.8	0.52
86-30-6	N-Nitrosodiphenylamine	ND		4.8	0.49
91-20-3	Naphthalene	ND		4.8	0.73
98-95-3	Nitrobenzene	ND		4.8	0.28
87-86-5	Pentachlorophenol	ND		9.5	2.1
85-01-8	Phenanthrene	~~0.46~~ ND	~~J~~	4.8	0.42
108-95-2	Phenol	ND		4.8	0.37
129-00-0	Pyrene	ND		4.8	0.32

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

MW-10S

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: FD-06182013 | Lab Sample ID: 480-40517-4

Matrix: Water | Lab File ID: Y001518.D

Analysis Method: 8270C | Date Collected: 06/18/2013 00:00

Extract. Method: 3510C | Date Extracted: 06/21/2013 06:00

Sample wt/vol: 262.6(mL) | Date Analyzed: 06/29/2013 18:27

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 126788 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		4.8	0.62
108-60-1	bis (2-chloroisopropyl) ether	ND		4.8	0.50
95-95-4	2,4,5-Trichlorophenol	ND		4.8	0.46
88-06-2	2,4,6-Trichlorophenol	ND		4.8	0.58
120-83-2	2,4-Dichlorophenol	ND		4.8	0.49
105-67-9	2,4-Dimethylphenol	3.5	J	4.8	0.48
51-28-5	2,4-Dinitrophenol	ND		9.5	2.1
121-14-2	2,4-Dinitrotoluene	ND		4.8	0.43
606-20-2	2,6-Dinitrotoluene	ND		4.8	0.38
91-58-7	2-Chloronaphthalene	ND		4.8	0.44
95-57-8	2-Chlorophenol	ND		4.8	0.50
91-57-6	2-Methylnaphthalene	ND		4.8	0.57
95-48-7	2-Methylphenol	ND		4.8	0.38
88-74-4	2-Nitroaniline	ND		9.5	0.40
88-75-5	2-Nitrophenol	ND		4.8	0.46
91-94-1	3,3'-Dichlorobenzidine	ND		4.8	0.38
99-09-2	3-Nitroaniline	ND		9.5	0.46
534-52-1	4,6-Dinitro-2-methylphenol	ND		9.5	2.1
101-55-3	4-Bromophenyl phenyl ether	ND		4.8	0.43
59-50-7	4-Chloro-3-methylphenol	ND		4.8	0.43
106-47-8	4-Chloroaniline	ND		4.8	0.56
7005-72-3	4-Chlorophenyl phenyl ether	ND		4.8	0.33
106-44-5	4-Methylphenol	ND		9.5	0.34
100-01-6	4-Nitroaniline	ND		9.5	0.24
100-02-7	4-Nitrophenol	ND		9.5	1.4
83-32-9	Acenaphthene	ND		4.8	0.39
208-96-8	Acenaphthylene	ND		4.8	0.36
98-86-2	Acetophenone	ND		4.8	0.51
120-12-7	Anthracene	ND		4.8	0.27
1912-24-9	Atrazine	ND		4.8	0.44
100-52-7	Benzaldehyde	ND		4.8	0.25
56-55-3	Benzo(a)anthracene	ND		4.8	0.34
50-32-8	Benzo(a)pyrene	ND		4.8	0.45
205-99-2	Benzo(b)fluoranthene	ND		4.8	0.32

9/4/13

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

MW-105

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: FD-06182013 | Lab Sample ID: 480-40517-4

Matrix: Water | Lab File ID: Y001518.D

Analysis Method: 8270C | Date Collected: 06/18/2013 00:00

Extract. Method: 3510C | Date Extracted: 06/21/2013 06:00

Sample wt/vol: 262.6(mL) | Date Analyzed: 06/29/2013 18:27

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 126788 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		4.8	0.33
207-08-9	Benzo(k)fluoranthene	ND		4.8	0.69
111-91-1	Bis(2-chloroethoxy)methane	ND		4.8	0.33
111-44-4	Bis(2-chloroethyl)ether	ND		4.8	0.38
117-81-7	Bis(2-ethylhexyl) phthalate	ND		4.8	1.7
85-68-7	Butyl benzyl phthalate	ND		4.8	0.40
105-60-2	Caprolactam	ND		4.8	2.1
86-74-8	Carbazole	ND		4.8	0.29
218-01-9	Chrysene	ND		4.8	0.31
84-74-2	Di-n-butyl phthalate	ND ~~0.57~~	J B	4.8	0.30
117-84-0	Di-n-octyl phthalate	ND		4.8	0.45
53-70-3	Dibenz(a,h)anthracene	ND		4.8	0.40
132-64-9	Dibenzofuran	ND		9.5	0.49
84-66-2	Diethyl phthalate	ND		4.8	0.21
131-11-3	Dimethyl phthalate	ND		4.8	0.34
206-44-0	Fluoranthene	ND		4.8	0.38
86-73-7	Fluorene	ND		4.8	0.34
118-74-1	Hexachlorobenzene	ND		4.8	0.49
87-68-3	Hexachlorobutadiene	ND		0.48	0.65
77-47-4	Hexachlorocyclopentadiene	ND		4.8	0.56
67-72-1	Hexachloroethane	ND		4.8	0.56
193-39-5	Indeno(1,2,3-cd)pyrene	ND		4.8	0.45
78-59-1	Isophorone	ND		4.8	0.41
621-64-7	N-Nitrosodi-n-propylamine	ND		4.8	0.51
86-30-6	N-Nitrosodiphenylamine	ND		4.8	0.49
91-20-3	Naphthalene	ND		4.8	0.72
98-95-3	Nitrobenzene	ND		4.8	0.28
87-86-5	Pentachlorophenol	ND		9.5	2.1
85-01-8	Phenanthrene	ND ~~0.43~~	J B	4.8	0.42
108-95-2	Phenol	ND		4.8	0.37
129-00-0	Pyrene	ND		4.8	0.32

7/9/13

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-B1D
Lab Sample ID: 480-40517-12
Lab Name: TestAmerica Buffalo
Job No.: 480-40517-1
SDG ID.:
Matrix: Water
Date Sampled: 06/19/2013 15:26
Reporting Basis: WET
Date Received: 06/20/2013 11:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	3.0	0.20	0.060	mg/L			1	6010B
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010B
7440-38-2	Arsenic	0.0097	0.010	0.0056	mg/L	J		1	6010B
7440-39-3	Barium	0.066	0.0020	0.00070	mg/L			1	6010B
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010B
7440-43-9	Cadmium	0.00067	0.0010	0.00050	mg/L	J		1	6010B
7440-70-2	Calcium	19.2	0.50	0.10	mg/L			1	6010B
7440-47-3	Chromium	0.0076	0.0040	0.0010	mg/L			1	6010B
7440-48-4	Cobalt	0.0018	0.0040	0.00063	mg/L	J		1	6010B
7440-50-8	Copper	0.0047	0.010	0.0016	mg/L	J		1	6010B
7439-89-6	Iron	4.3	0.050	0.019	mg/L			1	6010B
7439-92-1	Lead	ND	0.0050	0.0030	mg/L			1	6010B
7439-95-4	Magnesium	2.1	0.20	0.043	mg/L			1	6010B
7439-96-5	Manganese	0.17	0.0030	0.00040	mg/L			1	6010B
7440-02-0	Nickel	0.0043	0.010	0.0013	mg/L	J		1	6010B
7440-09-7	Potassium	2.5	0.50	0.10	mg/L			1	6010B
7782-49-2	Selenium	ND	0.015	0.0087	mg/L			1	6010B
7440-22-4	Silver	ND	0.0030	0.0017	mg/L			1	6010B
7440-23-5	Sodium	3.5	1.0	0.32	mg/L			1	6010B
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010B
7440-62-2	Vanadium	0.0050	0.0050	0.0015	mg/L			1	6010B
7440-66-6	Zinc	0.026	0.010	0.0015	mg/L			1	6010B
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-B1S
Lab Sample ID: 480-40517-11
Lab Name: TestAmerica Buffalo
Job No.: 480-40517-1
SDG ID.:
Matrix: Water
Date Sampled: 06/19/2013 15:15
Reporting Basis: WET
Date Received: 06/20/2013 11:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	17.4	0.20	0.060	mg/L			1	6010B
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010B
7440-38-2	Arsenic	0.021	0.010	0.0056	mg/L			1	6010B
7440-39-3	Barium	0.55	0.0020	0.00070	mg/L			1	6010B
7440-41-7	Beryllium	0.0014	0.0020	0.00030	mg/L	J		1	6010B
7440-43-9	Cadmium	0.0058	0.0010	0.00050	mg/L			1	6010B
7440-70-2	Calcium	29.4	0.50	0.10	mg/L			1	6010B
7440-47-3	Chromium	0.025	0.0040	0.0010	mg/L			1	6010B
7440-48-4	Cobalt	0.015	0.0040	0.00063	mg/L			1	6010B
7440-50-8	Copper	0.041	0.010	0.0016	mg/L			1	6010B
7439-89-6	Iron	29.3	0.050	0.019	mg/L			1	6010B
7439-92-1	Lead	0.055	0.0050	0.0030	mg/L			1	6010B
7439-95-4	Magnesium	4.0	0.20	0.043	mg/L			1	6010B
7439-96-5	Manganese	1.4	0.0030	0.00040	mg/L			1	6010B
7440-02-0	Nickel	0.028	0.010	0.0013	mg/L			1	6010B
7440-09-7	Potassium	5.7	0.50	0.10	mg/L			1	6010B
7782-49-2	Selenium	ND	0.015	0.0087	mg/L			1	6010B
7440-22-4	Silver	ND	0.0030	0.0017	mg/L			1	6010B
7440-23-5	Sodium	1.6	1.0	0.32	mg/L			1	6010B
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010B
7440-62-2	Vanadium	0.024	0.0050	0.0015	mg/L			1	6010B
7440-66-6	Zinc	0.26	0.010	0.0015	mg/L			1	6010B
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-B3D
Lab Sample ID: 480-40517-17
Lab Name: TestAmerica Buffalo
Job No.: 480-40517-1
SDG ID.:
Matrix: Water
Date Sampled: 06/19/2013 18:35
Reporting Basis: WET
Date Received: 06/20/2013 11:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.082	0.20	0.060	mg/L	J		1	6010B
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010B
7440-38-2	Arsenic	ND	0.010	0.0056	mg/L			1	6010B
7440-39-3	Barium	0.054	0.0020	0.00070	mg/L			1	6010B
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010B
7440-43-9	Cadmium	ND	0.0010	0.00050	mg/L			1	6010B
7440-70-2	Calcium	24.9	0.50	0.10	mg/L			1	6010B
7440-47-3	Chromium	ND	0.0040	0.0010	mg/L			1	6010B
7440-48-4	Cobalt	0.00083	0.0040	0.00063	mg/L	J		1	6010B
7440-50-8	Copper	ND	0.010	0.0016	mg/L			1	6010B
7439-89-6	Iron	0.087	0.050	0.019	mg/L			1	6010B
7439-92-1	Lead	ND	0.0050	0.0030	mg/L			1	6010B
7439-95-4	Magnesium	3.1	0.20	0.043	mg/L			1	6010B
7439-96-5	Manganese	0.53	0.0030	0.00040	mg/L			1	6010B
7440-02-0	Nickel	ND	0.010	0.0013	mg/L			1	6010B
7440-09-7	Potassium	0.90	0.50	0.10	mg/L			1	6010B
7782-49-2	Selenium	ND	0.015	0.0087	mg/L			1	6010B
7440-22-4	Silver	ND	0.0030	0.0017	mg/L			1	6010B
7440-23-5	Sodium	3.0	1.0	0.32	mg/L			1	6010B
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010B
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010B
7440-66-6	Zinc	0.0026	0.010	0.0015	mg/L	J		1	6010B
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-B3S
Lab Sample ID: 480-40517-18
Lab Name: TestAmerica Buffalo
Job No.: 480-40517-1
SDG ID.:
Matrix: Water
Date Sampled: 06/19/2013 19:20
Reporting Basis: WET
Date Received: 06/20/2013 11:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	ND	0.20	0.060	mg/L			1	6010B
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010B
7440-38-2	Arsenic	ND	0.010	0.0056	mg/L			1	6010B
7440-39-3	Barium	0.11	0.0020	0.00070	mg/L			1	6010B
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010B
7440-43-9	Cadmium	ND	0.0010	0.00050	mg/L			1	6010B
7440-70-2	Calcium	17.5	0.50	0.10	mg/L			1	6010B
7440-47-3	Chromium	ND	0.0040	0.0010	mg/L			1	6010B
7440-48-4	Cobalt	ND	0.0040	0.00063	mg/L			1	6010B
7440-50-8	Copper	ND	0.010	0.0016	mg/L			1	6010B
7439-89-6	Iron	0.025	0.050	0.019	mg/L	J		1	6010B
7439-92-1	Lead	ND	0.0050	0.0030	mg/L			1	6010B
7439-95-4	Magnesium	3.9	0.20	0.043	mg/L			1	6010B
7439-96-5	Manganese	0.32	0.0030	0.00040	mg/L			1	6010B
7440-02-0	Nickel	ND	0.010	0.0013	mg/L			1	6010B
7440-09-7	Potassium	0.73	0.50	0.10	mg/L			1	6010B
7782-49-2	Selenium	ND	0.015	0.0087	mg/L			1	6010B
7440-22-4	Silver	ND	0.0030	0.0017	mg/L			1	6010B
7440-23-5	Sodium	1.6	1.0	0.32	mg/L			1	6010B
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010B
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010B
7440-66-6	Zinc	0.0027	0.010	0.0015	mg/L	J		1	6010B
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-3I
Lab Sample ID: 480-40517-14

Lab Name: TestAmerica Buffalo
Job No.: 480-40517-1

SDG ID.:

Matrix: Water
Date Sampled: 06/19/2013 16:55

Reporting Basis: WET
Date Received: 06/20/2013 11:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.20	0.20	0.060	mg/L			1	6010B
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010B
7440-38-2	Arsenic	ND	0.010	0.0056	mg/L			1	6010B
7440-39-3	Barium	0.13	0.0020	0.00070	mg/L			1	6010B
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010B
7440-43-9	Cadmium	ND	0.0010	0.00050	mg/L			1	6010B
7440-70-2	Calcium	23.6	0.50	0.10	mg/L			1	6010B
7440-47-3	Chromium	0.0022	0.0040	0.0010	mg/L	J		1	6010B
7440-48-4	Cobalt	ND	0.0040	0.00063	mg/L			1	6010B
7440-50-8	Copper	0.0016	0.010	0.0016	mg/L	J		1	6010B
7439-89-6	Iron	0.16	0.050	0.019	mg/L			1	6010B
7439-92-1	Lead	ND	0.0050	0.0030	mg/L			1	6010B
7439-95-4	Magnesium	4.1	0.20	0.043	mg/L			1	6010B
7439-96-5	Manganese	0.13	0.0030	0.00040	mg/L			1	6010B
7440-02-0	Nickel	ND	0.010	0.0013	mg/L			1	6010B
7440-09-7	Potassium	1.1	0.50	0.10	mg/L			1	6010B
7782-49-2	Selenium	ND	0.015	0.0087	mg/L			1	6010B
7440-22-4	Silver	ND	0.0030	0.0017	mg/L			1	6010B
7440-23-5	Sodium	10	1.0	0.32	mg/L			1	6010B
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010B
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010B
7440-66-6	Zinc	0.0047	0.010	0.0015	mg/L	J		1	6010B
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-3S
Lab Sample ID: 480-40517-13
Lab Name: TestAmerica Buffalo
Job No.: 480-40517-1
SDG ID.:
Matrix: Water
Date Sampled: 06/19/2013 16:20
Reporting Basis: WET
Date Received: 06/20/2013 11:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.063	0.20	0.060	mg/L	J		1	6010B
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010B
7440-38-2	Arsenic	ND	0.010	0.0056	mg/L			1	6010B
7440-39-3	Barium	0.13	0.0020	0.00070	mg/L			1	6010B
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010B
7440-43-9	Cadmium	ND	0.0010	0.00050	mg/L			1	6010B
7440-70-2	Calcium	15.2	0.50	0.10	mg/L			1	6010B
7440-47-3	Chromium	ND	0.0040	0.0010	mg/L			1	6010B
7440-48-4	Cobalt	0.00069	0.0040	0.00063	mg/L	J		1	6010B
7440-50-8	Copper	ND	0.010	0.0016	mg/L			1	6010B
7439-89-6	Iron	0.65	0.050	0.019	mg/L			1	6010B
7439-92-1	Lead	ND	0.0050	0.0030	mg/L			1	6010B
7439-95-4	Magnesium	2.9	0.20	0.043	mg/L			1	6010B
7439-96-5	Manganese	1.0	0.0030	0.00040	mg/L			1	6010B
7440-02-0	Nickel	0.0013	0.010	0.0013	mg/L	J		1	6010B
7440-09-7	Potassium	1.0	0.50	0.10	mg/L			1	6010B
7782-49-2	Selenium	ND	0.015	0.0087	mg/L			1	6010B
7440-22-4	Silver	ND	0.0030	0.0017	mg/L			1	6010B
7440-23-5	Sodium	5.8	1.0	0.32	mg/L			1	6010B
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010B
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010B
7440-66-6	Zinc	0.0041	0.010	0.0015	mg/L	J		1	6010B
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-4I
Lab Sample ID: 480-40517-15
Lab Name: TestAmerica Buffalo
Job No.: 480-40517-1
SDG ID.:
Matrix: Water
Date Sampled: 06/19/2013 17:30
Reporting Basis: WET
Date Received: 06/20/2013 11:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.27	0.20	0.060	mg/L			1	6010B
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010B
7440-38-2	Arsenic	ND	0.010	0.0056	mg/L			1	6010B
7440-39-3	Barium	0.24	0.0020	0.00070	mg/L			1	6010B
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010B
7440-43-9	Cadmium	0.0027	0.0010	0.00050	mg/L			1	6010B
7440-70-2	Calcium	25.3	0.50	0.10	mg/L			1	6010B
7440-47-3	Chromium	0.0023	0.0040	0.0010	mg/L	J		1	6010B
7440-48-4	Cobalt	ND	0.0040	0.00063	mg/L			1	6010B
7440-50-8	Copper	0.0022	0.010	0.0016	mg/L	J		1	6010B
7439-89-6	Iron	0.31	0.050	0.019	mg/L			1	6010B
7439-92-1	Lead	ND	0.0050	0.0030	mg/L			1	6010B
7439-95-4	Magnesium	5.3	0.20	0.043	mg/L			1	6010B
7439-96-5	Manganese	2.8	0.0030	0.00040	mg/L			1	6010B
7440-02-0	Nickel	0.0051	0.010	0.0013	mg/L	J		1	6010B
7440-09-7	Potassium	1.1	0.50	0.10	mg/L			1	6010B
7782-49-2	Selenium	ND	0.015	0.0087	mg/L			1	6010B
7440-22-4	Silver	ND	0.0030	0.0017	mg/L			1	6010B
7440-23-5	Sodium	3.7	1.0	0.32	mg/L			1	6010B
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010B
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010B
7440-66-6	Zinc	0.0044	0.010	0.0015	mg/L	J		1	6010B
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-4S
Lab Sample ID: 480-40517-16
Lab Name: TestAmerica Buffalo
Job No.: 480-40517-1
SDG ID.:
Matrix: Water
Date Sampled: 06/19/2013 18:00
Reporting Basis: WET
Date Received: 06/20/2013 11:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.37	0.20	0.060	mg/L			1	6010B
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010B
7440-38-2	Arsenic	0.17	0.010	0.0056	mg/L			1	6010B
7440-39-3	Barium	0.73	0.0020	0.00070	mg/L			1	6010B
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010B
7440-43-9	Cadmium	ND	0.0010	0.00050	mg/L			1	6010B
7440-70-2	Calcium	13.0	0.50	0.10	mg/L			1	6010B
7440-47-3	Chromium	0.0015	0.0040	0.0010	mg/L	J		1	6010B
7440-48-4	Cobalt	ND	0.0040	0.00063	mg/L			1	6010B
7440-50-8	Copper	ND	0.010	0.0016	mg/L			1	6010B
7439-89-6	Iron	14.2	0.050	0.019	mg/L			1	6010B
7439-92-1	Lead	ND	0.0050	0.0030	mg/L			1	6010B
7439-95-4	Magnesium	2.2	0.20	0.043	mg/L			1	6010B
7439-96-5	Manganese	3.9	0.0030	0.00040	mg/L			1	6010B
7440-02-0	Nickel	ND	0.010	0.0013	mg/L			1	6010B
7440-09-7	Potassium	1.3	0.50	0.10	mg/L			1	6010B
7782-49-2	Selenium	ND	0.015	0.0087	mg/L			1	6010B
7440-22-4	Silver	ND	0.0030	0.0017	mg/L			1	6010B
7440-23-5	Sodium	7.2	1.0	0.32	mg/L			1	6010B
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010B
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010B
7440-66-6	Zinc	0.0028	0.010	0.0015	mg/L	J		1	6010B
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-5D
Lab Sample ID: 480-40517-8
Lab Name: TestAmerica Buffalo
Job No.: 480-40517-1
SDG ID.:
Matrix: Water
Date Sampled: 06/19/2013 13:22
Reporting Basis: WET
Date Received: 06/20/2013 11:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	1.1	0.20	0.060	mg/L			1	6010B
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010B
7440-38-2	Arsenic	ND	0.010	0.0056	mg/L			1	6010B
7440-39-3	Barium	0.13	0.0020	0.00070	mg/L			1	6010B
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010B
7440-43-9	Cadmium	ND	0.0010	0.00050	mg/L			1	6010B
7440-70-2	Calcium	23.8	0.50	0.10	mg/L			1	6010B
7440-47-3	Chromium	0.0027	0.0040	0.0010	mg/L	J		1	6010B
7440-48-4	Cobalt	ND	0.0040	0.00063	mg/L			1	6010B
7440-50-8	Copper	ND	0.010	0.0016	mg/L			1	6010B
7439-89-6	Iron	1.1	0.050	0.019	mg/L			1	6010B
7439-92-1	Lead	ND	0.0050	0.0030	mg/L			1	6010B
7439-95-4	Magnesium	5.2	0.20	0.043	mg/L			1	6010B
7439-96-5	Manganese	0.18	0.0030	0.00040	mg/L			1	6010B
7440-02-0	Nickel	0.0029	0.010	0.0013	mg/L	J		1	6010B
7440-09-7	Potassium	1.5	0.50	0.10	mg/L			1	6010B
7782-49-2	Selenium	ND	0.015	0.0087	mg/L			1	6010B
7440-22-4	Silver	ND	0.0030	0.0017	mg/L			1	6010B
7440-23-5	Sodium	9.6	1.0	0.32	mg/L			1	6010B
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010B
7440-62-2	Vanadium	0.0016	0.0050	0.0015	mg/L	J		1	6010B
7440-66-6	Zinc	0.0034	0.010	0.0015	mg/L	J		1	6010B
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-5I
Lab Sample ID: 480-40517-10
Lab Name: TestAmerica Buffalo
Job No.: 480-40517-1
SDG ID.:
Matrix: Water
Date Sampled: 06/19/2013 14:55
Reporting Basis: WET
Date Received: 06/20/2013 11:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.094	0.20	0.060	mg/L	J		1	6010B
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010B
7440-38-2	Arsenic	ND	0.010	0.0056	mg/L			1	6010B
7440-39-3	Barium	0.045	0.0020	0.00070	mg/L			1	6010B
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010B
7440-43-9	Cadmium	ND	0.0010	0.00050	mg/L			1	6010B
7440-70-2	Calcium	26.5	0.50	0.10	mg/L			1	6010B
7440-47-3	Chromium	0.0010	0.0040	0.0010	mg/L	J		1	6010B
7440-48-4	Cobalt	ND	0.0040	0.00063	mg/L			1	6010B
7440-50-8	Copper	ND	0.010	0.0016	mg/L			1	6010B
7439-89-6	Iron	0.081	0.050	0.019	mg/L			1	6010B
7439-92-1	Lead	ND	0.0050	0.0030	mg/L			1	6010B
7439-95-4	Magnesium	3.3	0.20	0.043	mg/L			1	6010B
7439-96-5	Manganese	0.093	0.0030	0.00040	mg/L			1	6010B
7440-02-0	Nickel	ND	0.010	0.0013	mg/L			1	6010B
7440-09-7	Potassium	1.4	0.50	0.10	mg/L			1	6010B
7782-49-2	Selenium	ND	0.015	0.0087	mg/L			1	6010B
7440-22-4	Silver	ND	0.0030	0.0017	mg/L			1	6010B
7440-23-5	Sodium	4.3	1.0	0.32	mg/L			1	6010B
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010B
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010B
7440-66-6	Zinc	0.0023	0.010	0.0015	mg/L	J		1	6010B
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-5S
Lab Sample ID: 480-40517-9
Lab Name: TestAmerica Buffalo
Job No.: 480-40517-1
SDG ID.:
Matrix: Water
Date Sampled: 06/19/2013 14:00
Reporting Basis: WET
Date Received: 06/20/2013 11:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	ND	0.20	0.060	mg/L			1	6010B
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010B
7440-38-2	Arsenic	ND	0.010	0.0056	mg/L			1	6010B
7440-39-3	Barium	0.11	0.0020	0.00070	mg/L			1	6010B
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010B
7440-43-9	Cadmium	ND	0.0010	0.00050	mg/L			1	6010B
7440-70-2	Calcium	21.2	0.50	0.10	mg/L			1	6010B
7440-47-3	Chromium	0.0015	0.0040	0.0010	mg/L	J		1	6010B
7440-48-4	Cobalt	ND	0.0040	0.00063	mg/L			1	6010B
7440-50-8	Copper	ND	0.010	0.0016	mg/L			1	6010B
7439-89-6	Iron	0.20	0.050	0.019	mg/L			1	6010B
7439-92-1	Lead	ND	0.0050	0.0030	mg/L			1	6010B
7439-95-4	Magnesium	3.6	0.20	0.043	mg/L			1	6010B
7439-96-5	Manganese	0.22	0.0030	0.00040	mg/L			1	6010B
7440-02-0	Nickel	ND	0.010	0.0013	mg/L			1	6010B
7440-09-7	Potassium	1.9	0.50	0.10	mg/L			1	6010B
7782-49-2	Selenium	ND	0.015	0.0087	mg/L			1	6010B
7440-22-4	Silver	ND	0.0030	0.0017	mg/L			1	6010B
7440-23-5	Sodium	1.3	1.0	0.32	mg/L			1	6010B
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010B
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010B
7440-66-6	Zinc	0.0032	0.010	0.0015	mg/L	J		1	6010B
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-7I
Lab Sample ID: 480-40517-7
Lab Name: TestAmerica Buffalo
Job No.: 480-40517-1
SDG ID.:
Matrix: Water
Date Sampled: 06/19/2013 11:58
Reporting Basis: WET
Date Received: 06/20/2013 11:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.22	0.20	0.060	mg/L			1	6010B
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010B
7440-38-2	Arsenic	ND	0.010	0.0056	mg/L			1	6010B
7440-39-3	Barium	0.060	0.0020	0.00070	mg/L			1	6010B
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010B
7440-43-9	Cadmium	0.00071	0.0010	0.00050	mg/L	J		1	6010B
7440-70-2	Calcium	26.1	0.50	0.10	mg/L			1	6010B
7440-47-3	Chromium	0.010	0.0040	0.0010	mg/L			1	6010B
7440-48-4	Cobalt	ND	0.0040	0.00063	mg/L			1	6010B
7440-50-8	Copper	0.0052	0.010	0.0016	mg/L	J		1	6010B
7439-89-6	Iron	0.37	0.050	0.019	mg/L			1	6010B
7439-92-1	Lead	ND	0.0050	0.0030	mg/L			1	6010B
7439-95-4	Magnesium	3.7	0.20	0.043	mg/L			1	6010B
7439-96-5	Manganese	0.42	0.0030	0.00040	mg/L			1	6010B
7440-02-0	Nickel	0.0085	0.010	0.0013	mg/L	J		1	6010B
7440-09-7	Potassium	1.6	0.50	0.10	mg/L			1	6010B
7782-49-2	Selenium	ND	0.015	0.0087	mg/L			1	6010B
7440-22-4	Silver	ND	0.0030	0.0017	mg/L			1	6010B
7440-23-5	Sodium	8.5	1.0	0.32	mg/L			1	6010B
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010B
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010B
7440-66-6	Zinc	0.0058	0.010	0.0015	mg/L	J		1	6010B
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-7S
Lab Sample ID: 480-40517-6
Lab Name: TestAmerica Buffalo
Job No.: 480-40517-1
SDG ID.:
Matrix: Water
Date Sampled: 06/19/2013 10:34
Reporting Basis: WET
Date Received: 06/20/2013 11:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.070	0.20	0.060	mg/L	J		1	6010B
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010B
7440-38-2	Arsenic	ND	0.010	0.0056	mg/L			1	6010B
7440-39-3	Barium	0.12	0.0020	0.00070	mg/L			1	6010B
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010B
7440-43-9	Cadmium	ND	0.0010	0.00050	mg/L			1	6010B
7440-70-2	Calcium	27.4	0.50	0.10	mg/L			1	6010B
7440-47-3	Chromium	ND	0.0040	0.0010	mg/L			1	6010B
7440-48-4	Cobalt	ND	0.0040	0.00063	mg/L			1	6010B
7440-50-8	Copper	ND	0.010	0.0016	mg/L			1	6010B
7439-89-6	Iron	0.22	0.050	0.019	mg/L			1	6010B
7439-92-1	Lead	ND	0.0050	0.0030	mg/L			1	6010B
7439-95-4	Magnesium	3.6	0.20	0.043	mg/L			1	6010B
7439-96-5	Manganese	0.15	0.0030	0.00040	mg/L			1	6010B
7440-02-0	Nickel	ND	0.010	0.0013	mg/L			1	6010B
7440-09-7	Potassium	2.1	0.50	0.10	mg/L			1	6010B
7782-49-2	Selenium	ND	0.015	0.0087	mg/L			1	6010B
7440-22-4	Silver	ND	0.0030	0.0017	mg/L			1	6010B
7440-23-5	Sodium	1.3	1.0	0.32	mg/L			1	6010B
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010B
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010B
7440-66-6	Zinc	0.0016	0.010	0.0015	mg/L	J		1	6010B
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-9S
Lab Sample ID: 480-40517-5
Lab Name: TestAmerica Buffalo
Job No.: 480-40517-1
SDG ID.:
Matrix: Water
Date Sampled: 06/19/2013 08:21
Reporting Basis: WET
Date Received: 06/20/2013 11:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	1.8	0.20	0.060	mg/L			1	6010B
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010B
7440-38-2	Arsenic	0.0064	0.010	0.0056	mg/L	J		1	6010B
7440-39-3	Barium	0.072	0.0020	0.00070	mg/L			1	6010B
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010B
7440-43-9	Cadmium	ND	0.0010	0.00050	mg/L			1	6010B
7440-70-2	Calcium	14.9	0.50	0.10	mg/L			1	6010B
7440-47-3	Chromium	0.0019	0.0040	0.0010	mg/L	J		1	6010B
7440-48-4	Cobalt	0.0011	0.0040	0.00063	mg/L	J		1	6010B
7440-50-8	Copper	0.0023	0.010	0.0016	mg/L	J		1	6010B
7439-89-6	Iron	3.5	0.050	0.019	mg/L			1	6010B
7439-92-1	Lead	ND	0.0050	0.0030	mg/L			1	6010B
7439-95-4	Magnesium	1.6	0.20	0.043	mg/L			1	6010B
7439-96-5	Manganese	0.24	0.0030	0.00040	mg/L			1	6010B
7440-02-0	Nickel	0.0023	0.010	0.0013	mg/L	J		1	6010B
7440-09-7	Potassium	1.2	0.50	0.10	mg/L			1	6010B
7782-49-2	Selenium	ND	0.015	0.0087	mg/L			1	6010B
7440-22-4	Silver	ND	0.0030	0.0017	mg/L			1	6010B
7440-23-5	Sodium	1.2	1.0	0.32	mg/L			1	6010B
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010B
7440-62-2	Vanadium	0.0021	0.0050	0.0015	mg/L	J		1	6010B
7440-66-6	Zinc	0.0095	0.010	0.0015	mg/L	J		1	6010B
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-10D
Lab Sample ID: 480-40517-2
Lab Name: TestAmerica Buffalo
Job No.: 480-40517-1
SDG ID.:
Matrix: Water
Date Sampled: 06/18/2013 16:28
Reporting Basis: WET
Date Received: 06/20/2013 11:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.31	0.20	0.060	mg/L			1	6010B
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010B
7440-38-2	Arsenic	ND	0.010	0.0056	mg/L			1	6010B
7440-39-3	Barium	0.051	0.0020	0.00070	mg/L			1	6010B
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010B
7440-43-9	Cadmium	ND	0.0010	0.00050	mg/L			1	6010B
7440-70-2	Calcium	23.5	0.50	0.10	mg/L			1	6010B
7440-47-3	Chromium	0.0063	0.0040	0.0010	mg/L			1	6010B
7440-48-4	Cobalt	ND	0.0040	0.00063	mg/L			1	6010B
7440-50-8	Copper	0.0026	0.010	0.0016	mg/L	J		1	6010B
7439-89-6	Iron	0.40	0.050	0.019	mg/L			1	6010B
7439-92-1	Lead	ND	0.0050	0.0030	mg/L			1	6010B
7439-95-4	Magnesium	3.2	0.20	0.043	mg/L			1	6010B
7439-96-5	Manganese	0.20	0.0030	0.00040	mg/L			1	6010B
7440-02-0	Nickel	0.0047	0.010	0.0013	mg/L	J		1	6010B
7440-09-7	Potassium	1.0	0.50	0.10	mg/L			1	6010B
7782-49-2	Selenium	ND	0.015	0.0087	mg/L			1	6010B
7440-22-4	Silver	ND	0.0030	0.0017	mg/L			1	6010B
7440-23-5	Sodium	5.4	1.0	0.32	mg/L			1	6010B
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010B
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010B
7440-66-6	Zinc	0.0019	0.010	0.0015	mg/L	J		1	6010B
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-10I
Lab Sample ID: 480-40517-3
Lab Name: TestAmerica Buffalo
Job No.: 480-40517-1
SDG ID.:
Matrix: Water
Date Sampled: 06/18/2013 17:36
Reporting Basis: WET
Date Received: 06/20/2013 11:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	1.2	0.20	0.060	mg/L			1	6010B
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010B
7440-38-2	Arsenic	ND	0.010	0.0056	mg/L			1	6010B
7440-39-3	Barium	0.089	0.0020	0.00070	mg/L			1	6010B
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010B
7440-43-9	Cadmium	ND	0.0010	0.00050	mg/L			1	6010B
7440-70-2	Calcium	26.6	0.50	0.10	mg/L			1	6010B
7440-47-3	Chromium	0.0032	0.0040	0.0010	mg/L	J		1	6010B
7440-48-4	Cobalt	ND	0.0040	0.00063	mg/L			1	6010B
7440-50-8	Copper	0.0034	0.010	0.0016	mg/L	J		1	6010B
7439-89-6	Iron	1.1	0.050	0.019	mg/L			1	6010B
7439-92-1	Lead	ND	0.0050	0.0030	mg/L			1	6010B
7439-95-4	Magnesium	3.8	0.20	0.043	mg/L			1	6010B
7439-96-5	Manganese	0.62	0.0030	0.00040	mg/L			1	6010B
7440-02-0	Nickel	0.0024	0.010	0.0013	mg/L	J		1	6010B
7440-09-7	Potassium	1.4	0.50	0.10	mg/L			1	6010B
7782-49-2	Selenium	ND	0.015	0.0087	mg/L			1	6010B
7440-22-4	Silver	ND	0.0030	0.0017	mg/L			1	6010B
7440-23-5	Sodium	8.5	1.0	0.32	mg/L			1	6010B
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010B
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010B
7440-66-6	Zinc	0.0097	0.010	0.0015	mg/L	J		1	6010B
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-10S
Lab Sample ID: 480-40517-1
Lab Name: TestAmerica Buffalo
Job No.: 480-40517-1
SDG ID.:
Matrix: Water
Date Sampled: 06/18/2013 15:06
Reporting Basis: WET
Date Received: 06/20/2013 11:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.18	0.20	0.060	mg/L	J		1	6010B
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010B
7440-38-2	Arsenic	ND	0.010	0.0056	mg/L			1	6010B
7440-39-3	Barium	0.12	0.0020	0.00070	mg/L			1	6010B
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010B
7440-43-9	Cadmium	ND	0.0010	0.00050	mg/L			1	6010B
7440-70-2	Calcium	29.5	0.50	0.10	mg/L			1	6010B
7440-47-3	Chromium	ND	0.0040	0.0010	mg/L			1	6010B
7440-48-4	Cobalt	ND	0.0040	0.00063	mg/L			1	6010B
7440-50-8	Copper	0.039	0.010	0.0016	mg/L			1	6010B
7439-89-6	Iron	3.3	0.050	0.019	mg/L			1	6010B
7439-92-1	Lead	ND	0.0050	0.0030	mg/L			1	6010B
7439-95-4	Magnesium	2.1	0.20	0.043	mg/L			1	6010B
7439-96-5	Manganese	0.77	0.0030	0.00040	mg/L			1	6010B
7440-02-0	Nickel	ND	0.010	0.0013	mg/L			1	6010B
7440-09-7	Potassium	2.0	0.50	0.10	mg/L			1	6010B
7782-49-2	Selenium	ND	0.015	0.0087	mg/L			1	6010B
7440-22-4	Silver	ND	0.0030	0.0017	mg/L			1	6010B
7440-23-5	Sodium	2.0	1.0	0.32	mg/L			1	6010B
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010B
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010B
7440-66-6	Zinc	0.0069	0.010	0.0015	mg/L	J		1	6010B
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

MW-10S

Client Sample ID: FD-06182013 Lab Sample ID: 480-40517-4

Lab Name: TestAmerica Buffalo Job No.: 480-40517-1

SDG ID.:

Matrix: Water Date Sampled: 06/18/2013 00:00

Reporting Basis: WET Date Received: 06/20/2013 11:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.17	0.20	0.060	mg/L	J		1	6010B
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010B
7440-38-2	Arsenic	ND	0.010	0.0056	mg/L			1	6010B
7440-39-3	Barium	0.12	0.0020	0.00070	mg/L			1	6010B
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010B
7440-43-9	Cadmium	ND	0.0010	0.00050	mg/L			1	6010B
7440-70-2	Calcium	29.2	0.50	0.10	mg/L			1	6010B
7440-47-3	Chromium	ND	0.0040	0.0010	mg/L			1	6010B
7440-48-4	Cobalt	ND	0.0040	0.00063	mg/L			1	6010B
7440-50-8	Copper	0.035	0.010	0.0016	mg/L			1	6010B
7439-89-6	Iron	3.0	0.050	0.019	mg/L			1	6010B
7439-92-1	Lead	ND	0.0050	0.0030	mg/L			1	6010B
7439-95-4	Magnesium	2.1	0.20	0.043	mg/L			1	6010B
7439-96-5	Manganese	0.78	0.0030	0.00040	mg/L			1	6010B
7440-02-0	Nickel	ND	0.010	0.0013	mg/L			1	6010B
7440-09-7	Potassium	1.9	0.50	0.10	mg/L			1	6010B
7782-49-2	Selenium	ND	0.015	0.0087	mg/L			1	6010B
7440-22-4	Silver	ND	0.0030	0.0017	mg/L			1	6010B
7440-23-5	Sodium	1.9	1.0	0.32	mg/L			1	6010B
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010B
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010B
7440-66-6	Zinc	0.0067	0.010	0.0015	mg/L	J		1	6010B
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	7470A

ATTACHMENT B

SUPPORT DOCUMENTATION

CHAIN OF CUSTODY RECORD

URS

PROJECT NO.: 11176852 00004
SITE NAME: Kerry Chemical
SAMPLERS (PRINT/SIGNATURE): Tim Ifkovich / [signature] Chuck Dowd /

LAB: Test America
COOLER: 1 of 3
PAGE: 1 of 2

DELIVERY SERVICE: Drop off AIRBILL NO.: —

TESTS: 8260B (MOD) TCL list OCM 04.2; 6010B 7470A; 8270C (MOD) TCL SVOA - OCM 04.2

BOTTLE TYPE AND PRESERVATIVE: 40ml VOA HCl; 250ml Plastic HNO3; 250ml Amber No pres

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	8260B (MOD) TCL list OCM 04.2 — 40ml VOA HCl	6010B 7470A — 250ml Plastic HNO3	8270C (MOD) TCL SVOA - OCM 04.2 — 250ml Amber No pres	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (IRPIMS ONLY)
MW-10S	6-18-13	1506	G	MW 10S	WG	6	3	1	2		N,			
MW-10D	6-18-13	1628	G	MW-10D	WG	6	3	1	2		N,			
MW-10I	6-18-13		G	MW-10I	WG	6	3	1	2		N			
Field Dup	6-18-13	—	G	FD-06182013	WG	6	3	1	2	MW-10S	FD,			
MW-9S	6-19-13	0821	G	MW 9S	WG	6	3	1	2		N,			
MW-7S	6-19-13	1034	G	MW-7S	WG	6	3	1	2		N,			
MW-7S	6-19-13	1034	G	MW-7SMS	WG	6	3	1	2		MS,			
MW-7S	6-19-13	1034	G	MW 7SMSD	WG	6	3	1	2		SD,			
MW-7I	6-19-13	11:58	G	MW 7I	WG	6	3	1	2		N,			
MW-5D	6-19-13	1322	G	MW-5D	WG	6	3	1	2		N,			
MW-5S	6-19-13	1400	G	MW-5S	WG	6	3	1	2		N,			
MW-5I	6-19-13	1455	G	MW-5I	WG	6	3	1	2		N,			
MW-B1S	6-19-13	1515	G	MW-B1S	WG	6	3	1	2		N			

480-40517 Chain of Custody

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Tim Ifkovich [signature]	6-19-13	1140	[signature] TA BFFLO	6/20/13	11:40

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: For questions contact George Kislak @ 716-856-5636

Distribution: Original accompanies shipment, copy to coordinator field files #2 3.2.2.8, 3.2.3.6

URSF-075C/1 OF 1/CdCR/GCM

CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11176852 00004

SITE NAME Kerry Chemical

SAMPLERS (PRINT/SIGNATURE) Tim Ifkovich / [signature] Chuck Dusel /

LAB Test America

COOLER 1 of 3

PAGE 2 of 2

DELIVERY SERVICE: Drop Off AIRBILL NO.: —

TESTS: 8260B (mod) TCL List OLM 04.2; GRO 8015 7470A; 8270C (mod) TCL SVOA-OLM04.2

BOTTLE TYPE AND PRESERVATIVE: 40 ml VOA HCl; 250 ml Plastic HNO3; 250 ml Amber No pres.

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	40 ml VOA HCl	250 ml Plastic HNO3	250 ml Amber No pres.	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (IRPIMS ONLY)
MW-B10	6-19-13	1526	G	MW-B1D	WG	6	3	1	2		N			
MW-3S	6-19-13	1620	G	MW-3S	WG	6	3	1	2		N1			
MW-3I	6-19-13	1655	G	MW-3I	WG	6	3	1	2		N			
MW-4I	6-19-13	1730	G	MW-4I	WG	6	3	1	2		N			
MW-4S	6-19-13	1800	G	MW-4S	WG	6	3	1	2		N			
MW-33D	6-19-13	1835	G	MW-33D	WG	6	3	1	2		N			
MW-33S	6-19-13	1920	G	MW-33S	WG	6	3	1	2		N			
Trip Blank	6-18-13	–	–	TB-06182013	WQ	1	1				TB1			
Trip Blank	6-19-13	–	–	TB-06192013	WQ	2	2				TB2			

MATRIX CODES
AA - AMBIENT AIR, SE - SEDIMENT, SH - HAZARDOUS SOLID WASTE, SL - SLUDGE, WP - DRINKING WATER, WW - WASTE WATER, WG - GROUND WATER, SO - SOIL, DC - DRILL CUTTINGS, WL - LEACHATE, GS - SOIL GAS, WC - DRILLING WATER, WO - OCEAN WATER, WS - SURFACE WATER, WQ - WATER FIELD QC, LH - HAZARDOUS LIQUID WASTE, LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK, SD# - MATRIX SPIKE DUPLICATE, RB# - RINSE BLANK, FR# - FIELD REPLICATE, N# - NORMAL ENVIRONMENTAL SAMPLE, MS# - MATRIX SPIKE (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Tim Ifkovich	6-19-13	1140	[signature] Buffalo	6/20/13	11:40
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS
For questions contact George Kisluk @ 716-856-5636

Distribution: Original accompanies shipment, copy to coordinator field files #2 3028.32.3.6

URSF-075C/1 OF 1/CofCR/GCM

Job Narrative
480-40517-1

Receipt
The samples were received on 6/20/2013 11:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.8° C, 3.2° C and 3.6° C.

Except:

The following sample(s) was received at the laboratory without a sample collection time documented on the chain-of-custody: As a result, a sample collection time consistent with the time written on the sample bottle was used.

GC/MS VOA
Method(s) 8260B: The following compounds were outside control limits in the continuing calibration verification (CCV) associated with batch 125278: Bromomethane. These compounds are not classified as Calibration Check Compounds (CCCs) in the reference method, and the laboratory defaults to in-house and/or project-specific criteria for evaluation. Due to the large number of analytes contained in the CCV, the laboratory's SOP allows for six analytes to be outside limits; therefore, the data have been reported. (CCVIS 480-125278/3)

Method(s) 8260B: The following compounds were outside control limits in the continuing calibration verification (CCV) associated with batch 125459: Bromomethane. These compounds are not classified as Calibration Check Compounds (CCCs) in the reference method, and the laboratory defaults to in-house and/or project-specific criteria for evaluation. Due to the large number of analytes contained in the CCV, the laboratory's SOP allows for six analytes to be outside limits; therefore, the data have been reported. (CCVIS 480-125459/3)

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 125278 recovered outside control limits for the following analytes: Chloroethane and Dichlorodifluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 125459 recovered outside control limits for the following analytes: Dichlorodifluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No other analytical or quality issues were noted.

GC/MS Semi VOA
Method(s) 8270C: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for batch 125205 recovered outside control limits for the following analytes: 3-Nitroaniline, 4-Chloroaniline, 4-Nitroaniline, and Benzaldehyde. 3-Nitroaniline, 4-Chloroaniline, 4-Nitroaniline, and Benzaldehyde have been identified as poor performing analytes when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method(s) 8270C: The method blank for batch 125205 contained Di-n-butyl phthalate and Phenanthrene above the method detection limit. These target analyte concentrations were less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8270C: Surrogate recovery for the following sample(s) was outside control limits: MW-4I (480-40517-15). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No other analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Job Number: 480-40517-1

Job Description: Kerry Chemical #413001

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Joseph V. Giacomazza

Approved for release.
Joe Giacomazza
Project Administrator
7/8/2013 12:45 PM

Designee for
Sally Hoffman

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

Lab Name: TestAmerica Buffalo Job No.: 480-40517-1

SDG No.:

Lab File ID: P9650.D BFB Injection Date: 06/21/2013

Instrument ID: HP5973P BFB Injection Time: 13:23

Analysis Batch No.: 125278

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.6	
75	30.0 - 60.0 % of mass 95	51.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.4	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	90.4	
175	5.0 - 9.0 % of mass 174	7.4	(8.2)1
176	95.0 - 101.0 % of mass 174	91.2	(100.8)1
177	5.0 - 9.0 % of mass 176	6.6	(7.2)2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-125278/3	P9651.D	06/21/2013	13:52
	MB 480-125278/5	P9653.D	06/21/2013	15:02
	LCS 480-125278/26	P9654.D	06/21/2013	15:41
MW-10S	480-40517-1	P9655.D	06/21/2013	16:25
MW-10D	480-40517-2	P9656.D	06/21/2013	16:50
MW-10I	480-40517-3	P9657.D	06/21/2013	17:15
FD-06182013	480-40517-4	P9658.D	06/21/2013	17:40
MW-9S	480-40517-5	P9659.D	06/21/2013	18:04
MW-7S	480-40517-6	P9660.D	06/21/2013	18:29
MW-7SMS MS	480-40517-6 MS	P9661.D	06/21/2013	18:53
MW-7SMSD MSD	480-40517-6 MSD	P9662.D	06/21/2013	19:18
MW-7I	480-40517-7	P9663.D	06/21/2013	21:08
MW-5D	480-40517-8	P9664.D	06/21/2013	21:33
MW-5S	480-40517-9	P9665.D	06/21/2013	21:57
MW-5I	480-40517-10	P9666.D	06/21/2013	22:22
MW-B1S	480-40517-11	P9667.D	06/21/2013	22:46
MW-B1D	480-40517-12	P9668.D	06/21/2013	23:11
MW-3S	480-40517-13	P9669.D	06/21/2013	23:36
MW-3I	480-40517-14	P9670.D	06/22/2013	00:01
MW-4I	480-40517-15	P9671.D	06/22/2013	00:25
MW-4S	480-40517-16	P9672.D	06/22/2013	00:50
MW-B3D	480-40517-17	P9673.D	06/22/2013	01:14

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-40517-1

SDG No.:

Lab Sample ID: CCVIS 480-125278/3 Calibration Date: 06/21/2013 13:52

Instrument ID: HP5973P Calib Start Date: 06/07/2013 13:25

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 06/07/2013 15:30

Lab File ID: P9651.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	0.4638	0.4719		25.4	25.0	1.7	50.0
Chloromethane	Ave	0.3998	0.3747	0.1000	23.4	25.0	-6.3	50.0
Vinyl chloride	Ave	0.3422	0.3539		25.9	25.0	3.4	20.0
Bromomethane	Ave	0.1607	0.2430		37.8	25.0	51.2*	50.0
Chloroethane	Ave	0.1341	0.1816		33.9	25.0	35.4	50.0
Trichlorofluoromethane	Ave	0.5955	0.7835		32.9	25.0	31.6	50.0
Acrolein	Ave	0.0700	0.0581		415	500	-17.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3350	0.3746		28.0	25.0	11.8	50.0
1,1-Dichloroethene	Ave	0.4064	0.3801	0.1000	23.4	25.0	-6.5	20.0
Acetone	Ave	0.1970	0.2096		133	125	6.4	50.0
Iodomethane	Ave	0.5438	0.5930		27.3	25.0	9.0	50.0
Carbon disulfide	Ave	1.171	1.074		22.9	25.0	-8.3	50.0
Methyl acetate	Ave	0.5278	0.4627		21.9	25.0	-12.3	50.0
Acetonitrile	Ave	0.0423	0.0370		875	1000	-12.5	50.0
Methylene Chloride	Lin1		0.4366		24.5	25.0	-2.2	50.0
Methyl tert-butyl ether	Ave	1.458	1.558		26.7	25.0	6.8	50.0
trans-1,2-Dichloroethene	Ave	0.4418	0.4247		24.0	25.0	-3.9	50.0
Acrylonitrile	Ave	0.2123	0.1858		109	125	-12.5	50.0
Vinyl acetate	Ave	0.9515	0.9135		120	125	-4.0	50.0
1,1-Dichloroethane	Ave	0.7898	0.7907		25.0	25.0	0.1	50.0
2-Butanone (MEK)	Ave	0.2925	0.2667		114	125	-8.8	50.0
2,2-Dichloropropane	Ave	0.6607	0.7693		29.1	25.0	16.4	50.0
cis-1,2-Dichloroethene	Ave	0.4836	0.4693		24.3	25.0	-3.0	50.0
Bromochloromethane	Ave	0.2449	0.2579		26.3	25.0	5.3	50.0
Tetrahydrofuran	Ave	0.1901	0.1612		106	125	-15.2	50.0
Chloroform	Ave	0.8148	0.9092		27.9	25.0	11.6	20.0
1,1,1-Trichloroethane	Ave	0.6832	0.8357		30.6	25.0	22.3	50.0
Cyclohexane	Ave	0.6521	0.5165		19.8	25.0	-20.8	50.0
1,1-Dichloropropene	Ave	0.6182	0.6215		25.1	25.0	0.5	50.0
Carbon tetrachloride	Ave	0.5906	0.7499		31.7	25.0	27.0	50.0
Benzene	Ave	1.734	1.558		22.5	25.0	-10.2	50.0
1,2-Dichloroethane	Ave	0.6360	0.8226		32.3	25.0	29.3	50.0
Trichloroethene	Ave	0.4635	0.4695		25.3	25.0	1.3	50.0
Methylcyclohexane	Ave	0.6553	0.5752		21.9	25.0	-12.2	50.0
1,2-Dichloropropane	Ave	0.4496	0.3944		21.9	25.0	-12.3	20.0
Dibromomethane	Ave	0.3158	0.3268		25.9	25.0	3.5	50.0
Bromodichloromethane	Ave	0.6135	0.6818		27.8	25.0	11.1	50.0
2-Chloroethyl vinyl ether	Ave	0.3226	0.3123		121	125	-3.2	50.0
cis-1,3-Dichloropropene	Ave	0.7635	0.7624		25.0	25.0	-0.1	50.0
4-Methyl-2-pentanone (MIBK)	Ave	1.114	0.9617		108	125	-13.7	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-40517-1

SDG No.:

Lab Sample ID: CCVIS 480-125278/3 Calibration Date: 06/21/2013 13:52

Instrument ID: HP5973P Calib Start Date: 06/07/2013 13:25

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 06/07/2013 15:30

Lab File ID: P9651.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
Toluene	Ave	2.119	1.841		21.7	25.0	-13.1	20.0
trans-1,3-Dichloropropene	Ave	1.423	1.450		25.5	25.0	1.9	50.0
Ethyl methacrylate	Ave	1.350	1.160		21.5	25.0	-14.1	50.0
1,1,2-Trichloroethane	Ave	0.7314	0.6464		22.1	25.0	-11.6	50.0
Tetrachloroethene	Ave	0.9719	0.9779		25.2	25.0	0.6	50.0
1,3-Dichloropropane	Ave	1.421	1.326		23.3	25.0	-6.7	50.0
2-Hexanone	Ave	0.8528	0.7523		110	125	-11.8	50.0
Dibromochloromethane	Ave	0.9799	1.042		26.6	25.0	6.3	50.0
1,2-Dibromoethane	Ave	0.9626	0.9249		24.0	25.0	-3.9	50.0
Chlorobenzene	Ave	2.417	2.272	0.3000	23.5	25.0	-6.0	50.0
Ethylbenzene	Ave	4.013	3.798		23.7	25.0	-5.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.8701	0.9313		26.8	25.0	7.0	50.0
m,p-Xylene	Ave	1.564	1.445		46.2	50.0	-7.6	50.0
o-Xylene	Ave	1.587	1.452		22.9	25.0	-8.5	50.0
Styrene	Ave	2.675	2.472		23.1	25.0	-7.6	50.0
Bromoform	Ave	0.7372	0.7855	0.1000	26.6	25.0	6.6	50.0
Isopropylbenzene	Ave	3.833	3.391		22.1	25.0	-11.5	50.0
1,1,2,2-Tetrachloroethane	Ave	1.328	1.082	0.3000	20.4	25.0	-18.5	50.0
Bromobenzene	Ave	1.118	1.045		23.4	25.0	-6.5	50.0
trans-1,4-Dichloro-2-butene	Ave	0.2557	0.2962		145	125	15.8	50.0
1,2,3-Trichloropropane	Ave	0.3581	0.3584		25.0	25.0	0.0	50.0
N-Propylbenzene	Ave	4.725	4.247		22.5	25.0	-10.1	50.0
2-Chlorotoluene	Ave	0.9602	0.8553		22.3	25.0	-10.9	50.0
1,3,5-Trimethylbenzene	Ave	3.276	3.014		23.0	25.0	-8.0	50.0
4-Chlorotoluene	Ave	1.001	0.8957		22.4	25.0	-10.5	50.0
tert-Butylbenzene	Ave	0.6572	0.5761		21.9	25.0	-12.4	50.0
1,2,4-Trimethylbenzene	Ave	3.320	3.085		23.2	25.0	-7.1	50.0
sec-Butylbenzene	Ave	4.084	3.602		22.0	25.0	-11.8	50.0
4-Isopropyltoluene	Ave	3.469	3.246		23.4	25.0	-6.4	50.0
1,3-Dichlorobenzene	Ave	2.038	1.916		23.5	25.0	-6.0	50.0
1,4-Dichlorobenzene	Ave	2.110	1.965		23.3	25.0	-6.9	50.0
n-Butylbenzene	Ave	3.150	2.850		22.6	25.0	-9.5	50.0
1,2-Dichlorobenzene	Ave	2.021	1.920		23.7	25.0	-5.0	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.2768	0.2729		24.6	25.0	-1.4	50.0
1,2,4-Trichlorobenzene	Ave	1.490	1.468		24.6	25.0	-1.4	50.0
Hexachlorobutadiene	Ave	0.3444	0.4236		30.7	25.0	23.0	50.0
Naphthalene	Ave	2.143	2.382		27.8	25.0	11.2	50.0
1,2,3-Trichlorobenzene	Ave	0.7435	0.8954		30.1	25.0	20.4	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2075	0.2410		29.0	25.0	16.1	50.0
Toluene-d8 (Surr)	Ave	2.354	2.186		23.2	25.0	-7.1	50.0
4-Bromofluorobenzene (Surr)	Ave	0.8346	0.8946		26.8	25.0	7.2	50.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-40517-1

SDG No.:

Lab File ID: P9677.D BFB Injection Date: 06/22/2013

Instrument ID: HP5973P BFB Injection Time: 12:53

Analysis Batch No.: 125459

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.8	
75	30.0 - 60.0 % of mass 95	54.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.0	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	88.2	
175	5.0 - 9.0 % of mass 174	7.3	(8.2)1
176	95.0 - 101.0 % of mass 174	87.5	(99.1)1
177	5.0 - 9.0 % of mass 176	6.0	(6.8)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 480-125459/3	P9678.D	06/22/2013	13:20
	LCS 480-125459/4	P9679.D	06/22/2013	13:59
	MB 480-125459/5	P9680.D	06/22/2013	14:24
MW-B3S	480-40517-18	P9690.D	06/22/2013	18:54
TRIP BLANK	480-40517-19	P9691.D	06/22/2013	19:18
TRIP BLANK	480-40517-20	P9692.D	06/22/2013	19:43

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-40517-1

SDG No.:

Lab Sample ID: CCVIS 480-125459/3 Calibration Date: 06/22/2013 13:20

Instrument ID: HP5973P Calib Start Date: 06/07/2013 13:25

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 06/07/2013 15:30

Lab File ID: P9678.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	0.4638	0.4370		23.6	25.0	-5.8	50.0
Chloromethane	Ave	0.3998	0.3639	0.1000	22.8	25.0	-9.0	50.0
Vinyl chloride	Ave	0.3422	0.3402		24.9	25.0	-0.6	20.0
Bromomethane	Ave	0.1607	0.2432		37.8	25.0	51.3*	50.0
Chloroethane	Ave	0.1341	0.1806		33.7	25.0	34.7	50.0
Trichlorofluoromethane	Ave	0.5955	0.7788		32.7	25.0	30.8	50.0
Acrolein	Ave	0.0700	0.0591		422	500	-15.6	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3350	0.3983		29.7	25.0	18.9	50.0
1,1-Dichloroethene	Ave	0.4064	0.3793	0.1000	23.3	25.0	-6.7	20.0
Acetone	Ave	0.1970	0.2132		135	125	8.2	50.0
Iodomethane	Ave	0.5438	0.6166		28.3	25.0	13.4	50.0
Carbon disulfide	Ave	1.171	1.100		23.5	25.0	-6.0	50.0
Methyl acetate	Ave	0.5278	0.4642		22.0	25.0	-12.1	50.0
Acetonitrile	Ave	0.0423	0.0372		879	1000	-12.1	50.0
Methylene Chloride	Lin1		0.4329		24.2	25.0	-3.0	50.0
Methyl tert-butyl ether	Ave	1.458	1.575		27.0	25.0	8.0	50.0
trans-1,2-Dichloroethene	Ave	0.4418	0.4232		23.9	25.0	-4.2	50.0
Acrylonitrile	Ave	0.2123	0.1857		109	125	-12.5	50.0
Vinyl acetate	Ave	0.9515	0.9049		119	125	-4.9	50.0
1,1-Dichloroethane	Ave	0.7898	0.7872		24.9	25.0	-0.3	50.0
2-Butanone (MEK)	Ave	0.2925	0.2671		114	125	-8.7	50.0
2,2-Dichloropropane	Ave	0.6607	0.7740		29.3	25.0	17.1	50.0
cis-1,2-Dichloroethene	Ave	0.4836	0.4673		24.2	25.0	-3.4	50.0
Bromochloromethane	Ave	0.2449	0.2547		26.0	25.0	4.0	50.0
Tetrahydrofuran	Ave	0.1901	0.1600		105	125	-15.8	50.0
Chloroform	Ave	0.8148	0.9103		27.9	25.0	11.7	20.0
1,1,1-Trichloroethane	Ave	0.6832	0.8431		30.9	25.0	23.4	50.0
Cyclohexane	Ave	0.6521	0.5419		20.8	25.0	-16.9	50.0
1,1-Dichloropropene	Ave	0.6182	0.6207		25.1	25.0	0.4	50.0
Carbon tetrachloride	Ave	0.5906	0.7467		31.6	25.0	26.4	50.0
Benzene	Ave	1.734	1.530		22.0	25.0	-11.8	50.0
1,2-Dichloroethane	Ave	0.6360	0.8144		32.0	25.0	28.1	50.0
Trichloroethene	Ave	0.4635	0.4607		24.8	25.0	-0.6	50.0
Methylcyclohexane	Ave	0.6553	0.6072		23.2	25.0	-7.3	50.0
1,2-Dichloropropane	Ave	0.4496	0.3825		21.3	25.0	-14.9	20.0
Dibromomethane	Ave	0.3158	0.3228		25.6	25.0	2.2	50.0
Bromodichloromethane	Ave	0.6135	0.6777		27.6	25.0	10.5	50.0
2-Chloroethyl vinyl ether	Ave	0.3226	0.3100		120	125	-3.9	50.0
cis-1,3-Dichloropropene	Ave	0.7635	0.7472		24.5	25.0	-2.1	50.0
4-Methyl-2-pentanone (MIBK)	Ave	1.114	0.9480		106	125	-14.9	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-40517-1

SDG No.:

Lab Sample ID: CCVIS 480-125459/3 Calibration Date: 06/22/2013 13:20

Instrument ID: HP5973P Calib Start Date: 06/07/2013 13:25

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 06/07/2013 15:30

Lab File ID: P9678.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
Toluene	Ave	2.119	1.803		21.3	25.0	-14.9	20.0
trans-1,3-Dichloropropene	Ave	1.423	1.404		24.7	25.0	-1.3	50.0
Ethyl methacrylate	Ave	1.350	1.132		21.0	25.0	-16.1	50.0
1,1,2-Trichloroethane	Ave	0.7314	0.6351		21.7	25.0	-13.2	50.0
Tetrachloroethene	Ave	0.9719	0.9567		24.6	25.0	-1.6	50.0
1,3-Dichloropropane	Ave	1.421	1.308		23.0	25.0	-7.9	50.0
2-Hexanone	Ave	0.8528	0.7397		108	125	-13.3	50.0
Dibromochloromethane	Ave	0.9799	1.011		25.8	25.0	3.2	50.0
1,2-Dibromoethane	Ave	0.9626	0.9068		23.5	25.0	-5.8	50.0
Chlorobenzene	Ave	2.417	2.226	0.3000	23.0	25.0	-7.9	50.0
Ethylbenzene	Ave	4.013	3.745		23.3	25.0	-6.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.8701	0.9296		26.7	25.0	6.8	50.0
m,p-Xylene	Ave	1.564	1.411		45.1	50.0	-9.7	50.0
o-Xylene	Ave	1.587	1.430		22.5	25.0	-9.9	50.0
Styrene	Ave	2.675	2.413		22.6	25.0	-9.8	50.0
Bromoform	Ave	0.7372	0.7614	0.1000	25.8	25.0	3.3	50.0
Isopropylbenzene	Ave	3.833	3.296		21.5	25.0	-14.0	50.0
1,1,2,2-Tetrachloroethane	Ave	1.328	1.039	0.3000	19.6	25.0	-21.8	50.0
Bromobenzene	Ave	1.118	1.025		22.9	25.0	-8.3	50.0
trans-1,4-Dichloro-2-butene	Ave	0.2557	0.2885		141	125	12.8	50.0
1,2,3-Trichloropropane	Ave	0.3581	0.3453		24.1	25.0	-3.6	50.0
N-Propylbenzene	Ave	4.725	4.128		21.8	25.0	-12.6	50.0
2-Chlorotoluene	Ave	0.9602	0.8299		21.6	25.0	-13.6	50.0
1,3,5-Trimethylbenzene	Ave	3.276	2.942		22.4	25.0	-10.2	50.0
4-Chlorotoluene	Ave	1.001	0.8678		21.7	25.0	-13.3	50.0
tert-Butylbenzene	Ave	0.6572	0.5594		21.3	25.0	-14.9	50.0
1,2,4-Trimethylbenzene	Ave	3.320	2.999		22.6	25.0	-9.7	50.0
sec-Butylbenzene	Ave	4.084	3.511		21.5	25.0	-14.0	50.0
4-Isopropyltoluene	Ave	3.469	3.166		22.8	25.0	-8.7	50.0
1,3-Dichlorobenzene	Ave	2.038	1.864		22.9	25.0	-8.6	50.0
1,4-Dichlorobenzene	Ave	2.110	1.928		22.8	25.0	-8.7	50.0
n-Butylbenzene	Ave	3.150	2.748		21.8	25.0	-12.7	50.0
1,2-Dichlorobenzene	Ave	2.021	1.853		22.9	25.0	-8.3	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.2768	0.2663		24.0	25.0	-3.8	50.0
1,2,4-Trichlorobenzene	Ave	1.490	1.447		24.3	25.0	-2.9	50.0
Hexachlorobutadiene	Ave	0.3444	0.4301		31.2	25.0	24.9	50.0
Naphthalene	Ave	2.143	2.417		28.2	25.0	12.8	50.0
1,2,3-Trichlorobenzene	Ave	0.7435	0.9041		30.4	25.0	21.6	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2075	0.2433		29.3	25.0	17.2	50.0
Toluene-d8 (Surr)	Ave	2.354	2.157		22.9	25.0	-8.4	50.0
4-Bromofluorobenzene (Surr)	Ave	0.8346	0.8942		26.8	25.0	7.1	50.0

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-40517-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): RXI-5Sil MS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPH #
MW-10S	480-40517-1	50	38	70	80	94	79
MW-10D	480-40517-2	41	28	69	70	77	90
MW-10I	480-40517-3	25	16	65	66	67	81
FD-06182013	480-40517-4	54	38	75	84	95	85
MW-9S	480-40517-5	43	31	67	69	75	83
MW-7S	480-40517-6	51	36	75	74	86	84
MW-7I	480-40517-7	42	30	67	70	74	82
MW-5D	480-40517-8	41	28	72	70	77	85
MW-5S	480-40517-9	45	30	73	73	87	88
MW-5I	480-40517-10	51	37	75	78	88	99
MW-B1S	480-40517-11	45	31	75	71	84	73
MW-B1D	480-40517-12	39	26	60	62	73	79
MW-3S	480-40517-13	42	29	67	65	74	78
MW-3I	480-40517-14	52	37	75	79	93	95
MW-4I	480-40517-15	7 X	3 X	60	61	44	78
MW-4S	480-40517-16	49	32	75	76	85	75
MW-B3D	480-40517-17	33	20	73	76	79	92
MW-B3S	480-40517-18	37	23	71	76	77	87
	MB 480-125205/1-A	51	37	78	71	80	94
	LCS 480-125205/2-A	56	41	80	81	96	90
MW-7SMS MS	480-40517-6 MS	54	40	84	91	100	82
MW-7SMSD MSD	480-40517-6 MSD	43	32	71	74	95	74

	QC LIMITS
2FP = 2-Fluorophenol	18-120
PHL = Phenol-d5	11-120
NBZ = Nitrobenzene-d5	34-132
FBP = 2-Fluorobiphenyl	37-120
TBP = 2,4,6-Tribromophenol	39-146
TPH = p-Terphenyl-d14	58-147

Column to be used to flag recovery values

FORM II 8270C

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-40517-1

SDG No.:

Lab File ID: Y001511.D Lab Sample ID: MB 480-125205/1-A

Matrix: Water Date Extracted: 06/21/2013 06:00

Instrument ID: HP5973Y Date Analyzed: 06/29/2013 15:14

Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-125205/2-A	Y001512.D	06/29/2013 15:41
MW-7SMS MS	480-40517-6 MS	Y001513.D	06/29/2013 16:09
MW-7SMSD MSD	480-40517-6 MSD	Y001514.D	06/29/2013 16:36
MW-10S	480-40517-1	Y001515.D	06/29/2013 17:04
MW-10D	480-40517-2	Y001516.D	06/29/2013 17:32
MW-10I	480-40517-3	Y001517.D	06/29/2013 17:59
FD-06182013	480-40517-4	Y001518.D	06/29/2013 18:27
MW-9S	480-40517-5	Y001519.D	06/29/2013 18:55
MW-7S	480-40517-6	Y001520.D	06/29/2013 19:22
MW-7I	480-40517-7	Y001521.D	06/29/2013 19:50
MW-5D	480-40517-8	Y001522.D	06/29/2013 20:17
MW-5S	480-40517-9	Y001523.D	06/29/2013 20:45
MW-5I	480-40517-10	Y001524.D	06/29/2013 21:13
MW-B1S	480-40517-11	Y001525.D	06/29/2013 21:40
MW-B1D	480-40517-12	Y001526.D	06/29/2013 22:08
MW-3S	480-40517-13	Y001527.D	06/29/2013 22:35
MW-3I	480-40517-14	Y001528.D	06/29/2013 23:03
MW-4I	480-40517-15	Y001529.D	06/29/2013 23:30
MW-4S	480-40517-16	Y001530.D	06/29/2013 23:58
MW-B3D	480-40517-17	Y001531.D	06/30/2013 00:25
MW-B3S	480-40517-18	Y001532.D	06/30/2013 00:53

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-40517-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-125205/1-A

Matrix: Water | Lab File ID: Y001511.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3510C | Date Extracted: 06/21/2013 06:00

Sample wt/vol: 250(mL) | Date Analyzed: 06/29/2013 15:14

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 126788 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		5.0	0.35
207-08-9	Benzo(k)fluoranthene	ND		5.0	0.73
111-91-1	Bis(2-chloroethoxy)methane	ND		5.0	0.35
111-44-4	Bis(2-chloroethyl)ether	ND		5.0	0.40
117-81-7	Bis(2-ethylhexyl) phthalate	ND		5.0	1.8
85-68-7	Butyl benzyl phthalate	ND		5.0	0.42
105-60-2	Caprolactam	ND		5.0	2.2
86-74-8	Carbazole	ND		5.0	0.30
218-01-9	Chrysene	ND		5.0	0.33
84-74-2	Di-n-butyl phthalate	0.431	J	5.0	0.31
117-84-0	Di-n-octyl phthalate	ND		5.0	0.47
53-70-3	Dibenz(a,h)anthracene	ND		5.0	0.42
132-64-9	Dibenzofuran	ND		10	0.51
84-66-2	Diethyl phthalate	ND		5.0	0.22
131-11-3	Dimethyl phthalate	ND		5.0	0.36
206-44-0	Fluoranthene	ND		5.0	0.40
86-73-7	Fluorene	ND		5.0	0.36
118-74-1	Hexachlorobenzene	ND		5.0	0.51
87-68-3	Hexachlorobutadiene	ND		0.50	0.68
77-47-4	Hexachlorocyclopentadiene	ND		5.0	0.59
67-72-1	Hexachloroethane	ND		5.0	0.59
193-39-5	Indeno(1,2,3-cd)pyrene	ND		5.0	0.47
78-59-1	Isophorone	ND		5.0	0.43
621-64-7	N-Nitrosodi-n-propylamine	ND		5.0	0.54
86-30-6	N-Nitrosodiphenylamine	ND		5.0	0.51
91-20-3	Naphthalene	ND		5.0	0.76
98-95-3	Nitrobenzene	ND		5.0	0.29
87-86-5	Pentachlorophenol	ND		10	2.2
85-01-8	Phenanthrene	0.459	J	5.0	0.44
108-95-2	Phenol	ND		5.0	0.39
129-00-0	Pyrene	ND		5.0	0.34

APPENDIX E

MONITORING WELL INSPECTION FORMS

KERRY CHEMICAL COMPANY SITE
NYSDEC SITE NO. 4-13-001

WELL INSPECTION LOG SHEET

Well ID:	MW-B1S	**Time:**	1905
Date:	6/18/2013	**Inspector:**	Tim Ifkovich
Weather:	Partly Sunny	**Signature:**	Tim Ifkovich
Temperature:	75°F	**Company:**	URS Corporation
Season (circle one): Winter	(Spring)	Summer	Fall

Area	Item Inspected	Comments (attach additional sheet if needed)	Additional Maintenance Needed?	Inspector's Initials
Well Exterior	Casing and collar	OK (Stick-up)	NO	TI
	Well label	OK	NO	TI
	Lock and Cover	OK	NO	TI
	Weep hole	No weep hole	NO	TI
	Vegetation	OK	NO	TI
	Tampering	None	NO	TI
	Other	NA	NO	TI
Well Interior	Well cap	OK	NO	TI
	Well riser	OK. The riser was crimped at about 5 feet bgs. A 0.5 inch outside diameter bailer and water level tape will pass this point.	NO	TI
	Annular space	OK	NO	TI
	Sediment accumulation	Soft bottom	NO	TI
	Other	NA	NO	TI

KERRY CHEMICAL COMPANY SITE
NYSDEC SITE NO. 4-13-001

WELL INSPECTION LOG SHEET

Well ID:	MW-B1D	**Time:**	1844
Date:	6/18/2013	**Inspector:**	Tim Ifkovich
Weather:	Partly Sunny	**Signature:**	Tim Ifkovich
Temperature:	75°F	**Company:**	URS Corporation
Season (circle one): Winter (Spring) Summer Fall			

Area	Item Inspected	Comments (attach additional sheet if needed)	Additional Maintenance Needed?	Inspector's Initials
Well Exterior	Casing and collar	OK (Stick-up)	NO	TI
	Well label	OK	NO	TI
	Lock and Cover	OK	NO	TI
	Weep hole	No weep hole	NO	TI
	Vegetation	OK	NO	TI
	Tampering	None	NO	TI
	Other	NA	NO	TI
Well Interior	Well cap	OK	NO	TI
	Well riser	OK	NO	TI
	Annular space	OK	NO	TI
	Sediment accumulation	Soft bottom	NO	TI
	Other	NA	NO	TI

KERRY CHEMICAL COMPANY SITE
NYSDEC SITE NO. 4-13-001

WELL INSPECTION LOG SHEET

Well ID:	MW-B3D	**Time:**	1805
Date:	6/19/2013	**Inspector:**	Tim Ifkovich
Weather:	Sunny	**Signature:**	Tim Ifkovich
Temperature:	75°F	**Company:**	URS Corporation
Season (circle one):	Winter	(Spring)	Summer Fall

Area	Item Inspected	Comments (attach additional sheet if needed)	Additional Maintenance Needed?	Inspector's Initials
Well Exterior	Casing and collar	OK (Stick-up)	NO	TI
	Well label	OK	NO	TI
	Lock and Cover	OK	NO	TI
	Weep hole	No weep hole	NO	TI
	Vegetation	OK/Grassy	NO	TI
	Tampering	None	NO	TI
	Other	NA	NO	TI
Well Interior	Well cap	OK	NO	TI
	Well riser	OK	NO	TI
	Annular space	OK	NO	TI
	Sediment accumulation	Soft bottom	NO	TI
	Other	NA	NO	TI

KERRY CHEMICAL COMPANY SITE
NYSDEC SITE NO. 4-13-001

WELL INSPECTION LOG SHEET

Well ID:	MW-B3S	**Time:**	1840
Date:	6/19/2013	**Inspector:**	Tim Ifkovich
Weather:	Sunny	**Signature:**	Tim Ifkovich
Temperature:	75°F	**Company:**	URS Corporation
Season (circle one):	Winter	(Spring)	Summer Fall

Area	Item Inspected	Comments (attach additional sheet if needed)	Additional Maintenance Needed?	Inspector's Initials
Well Exterior	Casing and collar	OK (Stick-up)	NO	TI
	Well label	OK	NO	TI
	Lock and Cover	OK	NO	TI
	Weep hole	No weep hole	NO	TI
	Vegetation	OK/Grassy	NO	TI
	Tampering	None	NO	TI
	Other	NA	NO	TI
Well Interior	Well cap	OK	NO	TI
	Well riser	OK	NO	TI
	Annular space	OK	NO	TI
	Sediment accumulation	Soft bottom	NO	TI
	Other	NA	NO	TI

KERRY CHEMICAL COMPANY SITE
NYSDEC SITE NO. 4-13-001

WELL INSPECTION LOG SHEET

Well ID:	MW-3S	**Time:**	1555
Date:	6/19/2013	**Inspector:**	Tim Ifkovich
Weather:	Sunny	**Signature:**	Tim Ifkovich
Temperature:	75°F	**Company:**	URS Corporation
Season (circle one):	Winter	(Spring)	Summer Fall

Area	Item Inspected	Comments (attach additional sheet if needed)	Additional Maintenance Needed?	Inspector's Initials
Well Exterior	Casing and collar	OK (Stick-up)	NO	TI
	Well label	OK	NO	TI
	Lock and Cover	OK	NO	TI
	Weep hole	No weep hole	NO	TI
	Vegetation	OK/Grassy	NO	TI
	Tampering	None	NO	TI
	Other	NA	NO	TI
Well Interior	Well cap	OK	NO	TI
	Well riser	OK	NO	TI
	Annular space	OK	NO	TI
	Sediment accumulation	Soft bottom	NO	TI
	Other	NA	NO	TI

KERRY CHEMICAL COMPANY SITE
NYSDEC SITE NO. 4-13-001

WELL INSPECTION LOG SHEET

Well ID:	MW-3I	**Time:**	1625
Date:	6/19/2013	**Inspector:**	Tim Ifkovich
Weather:	Sunny	**Signature:**	Tim Ifkovich
Temperature:	75°F	**Company:**	URS Corporation
Season (circle one):	Winter	(Spring)	Summer Fall

Area	Item Inspected	Comments (attach additional sheet if needed)	Additional Maintenance Needed?	Inspector's Initials
Well Exterior	Casing and collar	OK (Stick-up)	NO	TI
	Well label	OK	NO	TI
	Lock and Cover	OK	NO	TI
	Weep hole	No weep hole	NO	TI
	Vegetation	OK/Grassy	NO	TI
	Tampering	None	NO	TI
	Other	NA	NO	TI
Well Interior	Well cap	OK	NO	TI
	Well riser	OK	NO	TI
	Annular space	OK	NO	TI
	Sediment accumulation	Soft bottom	NO	TI
	Other	NA	NO	TI

KERRY CHEMICAL COMPANY SITE
NYSDEC SITE NO. 4-13-001

WELL INSPECTION LOG SHEET

Well ID:	MW-4I	**Time:**	1700
Date:	6/19/2013	**Inspector:**	Tim Ifkovich
Weather:	Sunny	**Signature:**	Tim Ifkovich
Temperature:	75°F	**Company:**	URS Corporation
Season (circle one):	Winter	(Spring)	Summer Fall

Area	Item Inspected	Comments (attach additional sheet if needed)	Additional Maintenance Needed?	Inspector's Initials
Well Exterior	Casing and collar	OK (Stick-up)	NO	TI
	Well label	OK	NO	TI
	Lock and Cover	OK	NO	TI
	Weep hole	No weep hole	NO	TI
	Vegetation	OK/Grassy	NO	TI
	Tampering	None	NO	TI
	Other	NA	NO	TI
Well Interior	Well cap	OK	NO	TI
	Well riser	OK	NO	TI
	Annular space	OK	NO	TI
	Sediment accumulation	Hard bottom	NO	TI
	Other	NA	NO	TI

KERRY CHEMICAL COMPANY SITE
NYSDEC SITE NO. 4-13-001

WELL INSPECTION LOG SHEET

Well ID:	MW-4S	**Time:**	1735
Date:	6/19/2013	**Inspector:**	Tim Ifkovich
Weather:	Sunny	**Signature:**	Tim Ifkovich
Temperature:	75°F	**Company:**	URS Corporation
Season (circle one):	Winter	(Spring)	Summer Fall

Area	Item Inspected	Comments (attach additional sheet if needed)	Additional Maintenance Needed?	Inspector's Initials
Well Exterior	Casing and collar	OK (Stick-up)	NO	TI
	Well label	OK	NO	TI
	Lock and Cover	OK	NO	TI
	Weep hole	No weep hole	NO	TI
	Vegetation	OK/Grassy	NO	TI
	Tampering	None	NO	TI
	Other	NA	NO	TI
Well Interior	Well cap	OK	NO	TI
	Well riser	OK	NO	TI
	Annular space	OK	NO	TI
	Sediment accumulation	Hard bottom	NO	TI
	Other	NA	NO	TI

KERRY CHEMICAL COMPANY SITE
NYSDEC SITE NO. 4-13-001

WELL INSPECTION LOG SHEET

Well ID:	MW-5S	**Time:**	1335
Date:	6/19/2013	**Inspector:**	Tim Ifkovich
Weather:	Sunny	**Signature:**	Tim Ifkovich
Temperature:	75°F	**Company:**	URS Corporation
Season (circle one):	Winter	(Spring)	Summer Fall

Area	Item Inspected	Comments (attach additional sheet if needed)	Additional Maintenance Needed?	Inspector's Initials
Well Exterior	Casing and collar	OK (Stick-up)	NO	TI
	Well label	OK	NO	TI
	Lock and Cover	OK	NO	TI
	Weep hole	No weep hole	NO	TI
	Vegetation	OK/Grassy	NO	TI
	Tampering	None	NO	TI
	Other	NA	NO	TI
Well Interior	Well cap	OK	NO	TI
	Well riser	OK	NO	TI
	Annular space	OK	NO	TI
	Sediment accumulation	Hard bottom	NO	TI
	Other	NA	NO	TI

KERRY CHEMICAL COMPANY SITE
NYSDEC SITE NO. 4-13-001

WELL INSPECTION LOG SHEET

Well ID:	MW-5I	**Time:**	1410
Date:	6/19/2013	**Inspector:**	Tim Ifkovich
Weather:	Sunny	**Signature:**	Tim Ifkovich
Temperature:	75°F	**Company:**	URS Corporation
Season (circle one):	Winter	(Spring)	Summer Fall

Area	Item Inspected	Comments (attach additional sheet if needed)	Additional Maintenance Needed?	Inspector's Initials
Well Exterior	Casing and collar	OK (Stick-up)	NO	TI
	Well label	OK	NO	TI
	Lock and Cover	OK	NO	TI
	Weep hole	No weep hole	NO	TI
	Vegetation	OK/Grassy	NO	TI
	Tampering	None	NO	TI
	Other	NA	NO	TI
Well Interior	Well cap	OK	NO	TI
	Well riser	OK	NO	TI
	Annular space	OK	NO	TI
	Sediment accumulation	Hard bottom	NO	TI
	Other	NA	NO	TI

KERRY CHEMICAL COMPANY SITE
NYSDEC SITE NO. 4-13-001

WELL INSPECTION LOG SHEET

Well ID:	MW-5D	**Time:**	1322
Date:	6/19/2013	**Inspector:**	Tim Ifkovich
Weather:	Sunny	**Signature:**	Tim Ifk
Temperature:	75°F	**Company:**	URS Corporation
Season (circle one):	Winter	(Spring)	Summer Fall

Area	Item Inspected	Comments (attach additional sheet if needed)	Additional Maintenance Needed?	Inspector's Initials
Well Exterior	Casing and collar	OK (Stick-up)	NO	TI
	Well label	OK	NO	TI
	Lock and Cover	OK	NO	TI
	Weep hole	No weep hole	NO	TI
	Vegetation	OK/Grassy	NO	TI
	Tampering	None	NO	TI
	Other	NA	NO	TI
Well Interior	Well cap	OK	NO	TI
	Well riser	OK	NO	TI
	Annular space	OK	NO	TI
	Sediment accumulation	Soft bottom	NO	TI
	Other	NA	NO	TI

KERRY CHEMICAL COMPANY SITE
NYSDEC SITE NO. 4-13-001

WELL INSPECTION LOG SHEET

Well ID:	MW-7S	**Time:**	1034
Date:	6/19/2013	**Inspector:**	Tim Ifkovich
Weather:	Sunny	**Signature:**	Tim Ifkovich
Temperature:	75°F	**Company:**	URS Corporation
Season (circle one):	Winter	(Spring)	Summer Fall

Area	Item Inspected	Comments (attach additional sheet if needed)	Additional Maintenance Needed?	Inspector's Initials
Well Exterior	Casing and collar	OK (Stick-up)	NO	TI
	Well label	OK	NO	TI
	Lock and Cover	OK	NO	TI
	Weep hole	No weep hole	NO	TI
	Vegetation	OK/Grassy	NO	TI
	Tampering	None	NO	TI
	Other	NA	NO	TI
Well Interior	Well cap	OK	NO	TI
	Well riser	OK	NO	TI
	Annular space	OK	NO	TI
	Sediment accumulation	Soft bottom	NO	TI
	Other	NA	NO	TI

KERRY CHEMICAL COMPANY SITE
NYSDEC SITE NO. 4-13-001

WELL INSPECTION LOG SHEET

Well ID:	MW-7I	**Time:**	1158
Date:	6/19/2013	**Inspector:**	Tim Ifkovich
Weather:	Sunny	**Signature:**	Tim Ifkovich
Temperature:	75°F	**Company:**	URS Corporation
Season (circle one):	Winter	(Spring)	Summer Fall

Area	Item Inspected	Comments (attach additional sheet if needed)	Additional Maintenance Needed?	Inspector's Initials
Well Exterior	Casing and collar	OK (Stick-up)	NO	TI
	Well label	OK	NO	TI
	Lock and Cover	OK	NO	TI
	Weep hole	No weep hole	NO	TI
	Vegetation	OK/Grassy	NO	TI
	Tampering	None	NO	TI
	Other	NA	NO	TI
Well Interior	Well cap	OK	NO	TI
	Well riser	OK	NO	TI
	Annular space	OK	NO	TI
	Sediment accumulation	Hard bottom	NO	TI
	Other	NA	NO	TI

KERRY CHEMICAL COMPANY SITE
NYSDEC SITE NO. 4-13-001

WELL INSPECTION LOG SHEET

Well ID:	MW-9S	**Time:**	0820
Date:	6/19/2013	**Inspector:**	Tim Ifkovich
Weather:	Sunny	**Signature:**	Tim Ifkovich
Temperature:	75°F	**Company:**	URS Corporation
Season (circle one):	Winter	(Spring)	Summer Fall

Area	Item Inspected	Comments (attach additional sheet if needed)	Additional Maintenance Needed?	Inspector's Initials
Well Exterior	Casing and collar	OK (Stick-up)	NO	TI
	Well label	OK	NO	TI
	Lock and Cover	OK	NO	TI
	Weep hole	No weep hole	NO	TI
	Vegetation	OK	NO	TI
	Tampering	None	NO	TI
	Other	NA	NO	TI
Well Interior	Well cap	OK	NO	TI
	Well riser	OK	NO	TI
	Annular space	OK	NO	TI
	Sediment accumulation	Soft bottom	NO	TI
	Other	NA	NO	TI

KERRY CHEMICAL COMPANY SITE
NYSDEC SITE NO. 4-13-001

WELL INSPECTION LOG SHEET

Well ID:	MW-10I	**Time:**	1600
Date:	6/18/2013	**Inspector:**	Tim Ifkovich
Weather:	Partly Sunny	**Signature:**	
Temperature:	75°F	**Company:**	URS Corporation
Season (circle one):	Winter	(Spring)	Summer Fall

Area	Item Inspected	Comments (attach additional sheet if needed)	Additional Maintenance Needed?	Inspector's Initials
Well Exterior	Casing and collar	OK (Stick-up)	NO	TI
	Well label	OK	NO	TI
	Lock and Cover	OK	NO	TI
	Weep hole	No weep hole	NO	TI
	Vegetation	OK/Grassy	NO	TI
	Tampering	None	NO	TI
	Other	NA	NO	TI
Well Interior	Well cap	OK	NO	TI
	Well riser	OK	NO	TI
	Annular space	OK	NO	TI
	Sediment accumulation	Soft bottom	NO	TI
	Other	NA	NO	TI

KERRY CHEMICAL COMPANY SITE
NYSDEC SITE NO. 4-13-001

WELL INSPECTION LOG SHEET

Well ID:	MW-10D	**Time:**	1555
Date:	6/18/2013	**Inspector:**	Tim Ifkovich
Weather:	Partly Sunny	**Signature:**	Tim Ifkovich
Temperature:	75°F	**Company:**	URS Corporation
Season (circle one):	Winter	(Spring)	Summer Fall

Area	Item Inspected	Comments (attach additional sheet if needed)	Additional Maintenance Needed?	Inspector's Initials
Well Exterior	Casing and collar	OK (Stick-up)	NO	TI
	Well label	OK	NO	TI
	Lock and Cover	OK	NO	TI
	Weep hole	No weep hole	NO	TI
	Vegetation	OK/Grassy	NO	TI
	Tampering	None	NO	TI
	Other	NA	NO	TI
Well Interior	Well cap	OK	NO	TI
	Well riser	OK	NO	TI
	Annular space	OK	NO	TI
	Sediment accumulation	Soft bottom	NO	TI
	Other	NA	NO	TI

KERRY CHEMICAL COMPANY SITE
NYSDEC SITE NO. 4-13-001

WELL INSPECTION LOG SHEET

Well ID:	MW-10S	**Time:**	1506
Date:	6/18/2013	**Inspector:**	Tim Ifkovich
Weather:	Partly Sunny	**Signature:**	Tim Ifkovich
Temperature:	75°F	**Company:**	URS Corporation
Season (circle one):	Winter	(Spring)	Summer Fall

Area	Item Inspected	Comments (attach additional sheet if needed)	Additional Maintenance Needed?	Inspector's Initials
Well Exterior	Casing and collar	OK (Stick-up)	NO	TI
	Well label	OK	NO	TI
	Lock and Cover	OK	NO	TI
	Weep hole	No weep hole	NO	TI
	Vegetation	OK/Grassy	NO	TI
	Tampering	None	NO	TI
	Other	NA	NO	TI
Well Interior	Well cap	OK	NO	TI
	Well riser	OK	NO	TI
	Annular space	OK	NO	TI
	Sediment accumulation	Soft bottom	NO	TI
	Other	NA	NO	TI

APPENDIX F

SITE INSPECTION FORM

KERRY CHEMICAL COMPANY SITE
NYSDEC SITE NO. 4-13-001

SITE INSPECTION LOG SHEET

Date:	6/19/13	**Inspector:**	C. Dasel, M. Mason
Weather:	75°F	**Signature:**	C. Dasel MMason
Temperature:	Sunny	**Company:**	CRA NYSDEC
Season (circle one):	Winter Spring	Summer	Fall

Area	Item Inspected	Comments (attach additional sheets if needed)	Additional Maintenance Needed?	Inspector's Initials
Access Road	Road surface	gravel. (Veg. growth)	Yes / (No)	CD.
	Stream bank	good	Yes / (No)	CD.
	Drainage channel	good	Yes / (No)	CD.
	Culvert	good	Yes / (No)	CD.
Site Fence	Fabric	good	Yes / (No)	CD.
	Gates	good	Yes / (No)	CD.
	Vehicle tracks	Minor	Yes / (No)	CD.
	Shot gun shells or other trash present	None	Yes / (No)	CD.
	Vandalism	None	Yes / (No)	CD.
Vegetative Cover	Sparse, dead, stressed, or missing vegetation	Veg. Cover Excellent	Yes / (No)	CD.
	Erosion channels	Minor	Yes / (No)	CD.
	Erosion along sheet pile or rip-rap	None	Yes / (No)	CD.
Monitoring Wells	See well inspection sheets		Yes / (No)	CD
Stream Bank Protection	Condition of toe	good	Yes / (No)	CD
	Condition of ends of revetments	good	Yes / (No)	CD
	Subsidence or slumping	None	Yes / (No)	CD
	Vegetation growing through rip-rap	some/minor	Yes / (No)	CD
Other	Mowing	Needs	(Yes) / No	CD

Attach Photolog

Autumn olive trees beginning to grow on site. Will need to be cut per M. Mason -

APPENDIX G

AUTUMN OLIVE FACT SHEET

Michigan Department of Natural Resources
Michigan Natural Features Inventory
2/2012

Autumn olive

Elaeagnus umbellata

Autumn olive is native to Asia and was introduced into the US in the 1830s. It was commonly planted for wildlife food and cover until its invasive traits became apparent. It produces abundant fruits that are widely distributed by birds and mammals. Like many non-native shrubs, it leafs out early and retains its leaves late in fall, shading out desirable native species and reducing species diversity. It is able to germinate and survive in shade as well as sun.

Autumn olive has root nodules that fix atmospheric nitrogen. As a result, it has the potential to degrade native plant communities that are adapted to low nutrient levels such as barrens and prairies. The resulting increase in nitrogen can promote the growth and spread of weedy species at the expense of low-nutrient adapted natives. In addition, it can increase stream water nitrate concentrations when it comprises a large portion of the stream bank vegetation.

Autumn olive does not appear to suffer significantly from herbivory by deer. In one study, it grew as tall outside of exclosures as it did within, while natives growing in the same places were much smaller when browsed by deer.


Suzan Campbell, MNFI

Identification

Habit:
Autumn olive is a deciduous shrub or small tree growing up to 6 m (20 ft) in height and 9 m (30 ft) in width. Its form is rounded, with dense branches.

Leaves:
Autumn olive's leaves are alternate and oval, with finely pointed tips. Their margins are wavy but do not have teeth. They are bright green above, and a distinctive silvery-scaly below. Leaves range from 5 to 10 cm (2-4 in) in length. They leaf out in mid-March.


James H. Miller, USDA Forest Service, Bugwood.org

Bark/Stems:


Robert Vidéki, Doronicum Kft., Bugwood.org

Autumn olive's young twigs are silvery with brownish scales giving them a speckled appearance. Thorns on young branches may be several inches long. With age, the bark becomes light gray to gray-brown.

Flowers:


Suzan Campbell, MNFI

Autumn olive has fragrant cream or light yellow flowers. They are tubular with four petals and stamens, and are arranged in clusters of 1 to 8. They bloom from April to June and are pollinated by insects.

Fruits/Seeds:
Autumn olive's abundant fruits are silvery with brown scales when young and ripen to a speckled red in September and October. Fruits are eaten by a variety of birds and mammals, which disperse the seeds widely.


Suzan Campbell, MNFI

Habitat:
Autumn olive is moderately shade tolerant and occurs on a variety of soil types. It spreads rapidly in old fields and is also found in open woods, along forest edges, roadsides, sand dunes, and other disturbed areas. It poses a particular threat to prairies, savannas and open woods, particularly where fire is infrequent or has been completely suppressed.

Similar species

Russian olive

The related Russian olive *(E. angustifolia)* is also a non-native invasive species. It is taller and is usually a single or multi-stemmed tree. It has longer, narrower leaves that are silvery on top as well as on the underside.


Paul Wray, Iowa State University, Bugwood.org

Buffaloberry


Dave Powell, USDA Forest Service, Bugwood.org

Buffaloberry (*Shepherdia canadensis*) is also related to autumn olive but is native to Michigan. It has opposite leaves, rather than alternate, and it does not grow as tall. Typically, it ranges from 1-4 m (3-13 ft) tall while autumn olive can grow twice as tall.

Bush honeysuckles

A number of non-native invasive honeysuckles have red berries also. They have opposite leaves, rather than alternate and they do not have tiny glistening scales on their leaves or twigs.

Quick check

Autumn olive will ALWAYS have:

- Alternate leaves
- Tiny glistening scales on the twigs, fruit and undersides of leaves.


James H. Miller, USDA Forest Service, Bugwood.org

Reproduction/Dispersal

Autumn olive reproduces primarily by seed. It also sprouts vigorously from the root crown following cutting or fire.

Autumn olive is polygamodioecious; male and female flowers are usually on different shrubs but occasionally male flowers will grow on female plants and vice versa. The flowers are insect pollinated.

Seeds are dispersed by a variety of animals including songbirds such as thrushes, cardinals, cedar waxwings, evening grosbeaks, sparrows, bobwhite, ruffed grouse, ring-necked pheasants, wild turkeys, and mallards. Mammals including raccoons, skunks, opossums, and even black bears will eat it also. Since the fruit persists late into winter, it offers a source of nutrients when little else is available. At the same time, however, this results in wide distribution of its seed.

Plants mature rapidly and may bear fruit at 3 years of age. Mature trees may produce up to 30 lbs of fruit a year, yielding up to 66,000 seeds. The seed benefits from a period of cold treatment but even without it, germination rates of over 70 percent have been documented. With cold treatment, germination rates exceed 90 percent.

Because the seed germinates so rapidly, autumn olive does not persist in the seedbank. Typically, however, many plants occur nearby, outside of the managed area, and provide an ongoing seed source for repeated invasions.

While autumn olive is most productive in full sun, it can still survive and produce some seed in moderate shade. It can spread into open forest when there are source populations nearby.

Planning a control program

Resources for invasive species control invariably fall short of the actual need, so it is important to prioritize sites for treatment and plan carefully. Assessing the scope of the problem is a critical first step:

- Map known populations.
- Does it occur in high quality habitat or on important recreational, hunting or fishing lands?
- Does it occur adjacent to high value lands?
- Is there a pool of volunteers available to assist with control? Or will efforts rely on paid staff or contractors?

Given this information, develop a strategy for control:

1. Prioritize high value sites for treatment, including lower value surrounding lands with source populations of autumn olive.
2. Choose appropriate control methods, given site conditions and available resources.
3. If using herbicide, be sure to read the product label before finalizing plans. Is there potential for harm to non-target species? Have you made adequate provisions to minimize damage?
4. Do these control methods require any permits (i.e. herbicide application in wetlands, prescribed burning)?
5. Prevent further spread; focus on mature plants, particularly those in full sun with abundant fruit.
6. Eradicate smaller satellite populations.
7. Treat larger infestations of lower value as resources permit if success is likely—don't waste scarce resources where there is little chance of success.
8. Monitor to ensure desired results are being achieved; adapt management to improve success.

Best survey period
Because autumn olive leafs out early and retains its leaves late in fall in much of the state, it is often easiest to locate for mapping or control efforts in early spring or late fall when the leaves of native vegetation are absent or have changed color. It is very distinctive, however, and can be distinguished in summer by its silvery leaf undersides and year-round by its speckled twigs.

Documenting occurrences
In order to track the spread of an invasive species on a landscape scale, it is important to report populations where they occur. The Midwest Invasive Species Information Network (MISIN) has an easy-to-use interactive online mapping system. It accepts reports of invasive species' locations from users who have completed a simple, online training module for the species being reported. It also offers the potential for batch uploading of occurrence data for any invasive species.

Herbaria also provide a valuable and authoritative record of plant distribution. The University of Michigan Herbarium's database can be searched online for county records of occurrence, for example. When autumn olive is first encountered in a county where it had not been known previously, specimens should be submitted to the Herbarium to document its presence. Check the "Online Resources" section for links to both of these resources.

Control

Autumn olive can be more difficult to control than many invasive shrubs and is almost impossible to eradicate completely from a region once it has become well-established. A primary goal in controlling this species is to prevent seed production and dispersal both within the managed site and outside it, as nearby plants provide a seed source for repeated invasion. A variety of techniques including both mechanical and chemical controls may be most effective and should be tailored to the specific conditions on the site. It is critical to monitor the site to ensure that cut stumps do not resprout. Where abundant seed sources are present nearby, monitoring may be required indefinitely.

Mechanical control

In the very earliest stages of invasion, when only seedlings and young plants are present, mechanical controls such as pulling and repeated cutting may be adequate to control or eradicate autumn olive. Mechanical control methods are particularly useful where volunteers are available. These methods are impractical in larger, established infestations, but may effectively supplement the use of herbicide.

Hand-pulling/Digging
Autumn olive seedlings can be hand-pulled easily, particularly when the soil is moist and the population is small. Pull steadily and slowly to minimize soil disturbance and tamp down the soil afterwards. Tools such as the Weed Wrench® or Root Talon® provide additional leverage, facilitating the removal of somewhat larger plants up to a diameter of 9 cm (3.5 in). Hand digging larger plants is less effective as they will resprout from any roots that are left in the soil.

On low-quality sites, large shrubs can be pulled out with a chain and gouged out with the bucket of a tractor. This creates a lot of ground disturbance, however and should not be used on higher quality sites. Often there is some resprouting, but with the large plants removed, follow-up treatment is facilitated or mowing can begin.

Cutting/Mowing
Cutting or mowing autumn olive stimulates resprouting in mature plants unless the cut surfaces are treated with herbicide. Mowing may be helpful in maintaining open areas by preventing the establishment of seedlings.

Grazing
Goats and sheep will eat autumn olive readily. Goats are particularly effective; they will debark the shrubs, they don't mind thorns and they can stand on their hind legs to defoliate branches up to a height of 5 feet.

Effective control requires repeated heavy defoliation in spring and early summer; although goats can clear brush in a single season, multiple years are needed to actually kill the shrubs. Grazing should be managed to prevent overgrazing of grasses and forbs, which would lead to soil erosion and reduced diversity.

Chemical control

For large, well-established infestations, effective control of autumn olive requires the use of herbicide. Factors that should be considered when selecting an herbicide for use on a particular site include proximity to water or wetlands, presence or absence of desirable native vegetation, potential for erosion and the effectiveness of the herbicide under consideration on autumn olive. Because autumn olive leafs out early and remains green much later than many native species, spring or fall treatment may minimize damage to desirable plants.

General considerations
Anyone who applies herbicides as part of their employment must become a certified pesticide applicator. In addition, certification is required for the use of some herbicides under any circumstances. The exam is administered by the Michigan Department of Agriculture and Rural Development and a link to their website is included in the "Online Resources" section.

A permit from the Michigan Department of Environmental Quality is usually required to apply herbicide where standing water is present—in wetlands, along streams, rivers

or lakes, or over open water. A permit is also required for herbicide use below the ordinary high water mark along the Great Lakes or Lake St. Clair shoreline, whether or not standing water is present. A link to their website is included in the "Online Resources" section.

A number of adjuvants or additives may be used with herbicides to improve their performance including mixing agents, surfactants, penetrating oils and dyes . Some are included in premixed products while others must be added. Adjuvants do not work with all products; consult the product label to determine which adjuvants may be used with a specific herbicide formulation.

Dyes are useful in keeping track of which plants have been treated and making spills on clothing or equipment apparent. Some premixed herbicide include them or they can be added to others. Clothing dyes such as Rit® can be added to water soluble herbicides, while other products require oil-based dyes. Consult the product label for instructions.

Crop Data Management Systems, Inc. (CDMS) maintains a database of agro-chemicals that includes herbicide labels for specific products. Herbicide labels contain information on application methods and rates, specific weather conditions, equipment types, nozzles etc. to provide the desired coverage and minimize the potential for volatilization or drift. They also contain critical information about the potential for damage to valuable non-target species. A link to the CDMS website is included in the "Online Resources" section.

Read the entire pesticide label before use. Follow all directions on the label.

Herbicide specifics

Glyphosate (e.g., Roundup®, Rodeo®, Accord®) can provide moderate control of autumn olive both as a foliar spray and for cut surface treatments, but it may require more follow-up and re-treatment than other herbicides discussed here.

It should not be used for cut surface treatments in spring while leaves are emerging and sap is flowing upward, as it is not effective at this time. It is not selective and will kill desirable non-target species, in some cases leading to increased erosion on site.

Triclopyr provides effective control of broad-leaved plants but does not kill grasses or some conifers. It is available in both amine (e.g., Garlon 3A®) and ester (e.g., Garlon 4 Ultra®) formulations. The amine formulation can be safely used in wetlands.

Triclopyr can be used as a foliar spray once autumn olive is fully leafed out in spring until just before it changes color in fall. The ester formulation should be used with a vegetable oil based multi-purpose adjuvant (e.g. SprayTech® Oil) and the amine formulation should be used with a wetland-approved non-ionic surfactant (e.g., Cygnet Plus®). Triclopyr can also be used in conjunction with cut surface treatments; cut-stump, girdling and frilling. Treatments may be applied throughout the year including when snow is present, however control may be reduced in early spring when the sap is beginning to flow or during summer drought.

Ester formulations are particularly effective for root or stem-sprouting species such as autumn olive because the triclopyr persists in the plant until it dies. The ester formulation should be used with a penetrating oil (e.g., AX-IT®), which improves effectiveness and increases the amount of time after cutting in which treatment can occur. Penetrating oil also facilitates absorption in basal bark treatment.

In non-target plants, triclopyr residues in the soils can damage non-target species via root uptake. Use caution in high-quality forests.

In sensitive areas, the amine form may be used for cut-surface treatments but must be painted onto the cut surface immediately. It can also be used for drill and fill techniques.

Foliar application

Foliar application of herbicide can be useful on sites with extensive autumn olive populations and few desirable natives. Herbicide should be applied after spring sap flow to actively growing plants, although during periods of drought or other stress, it may not be effective. It can be applied to the foliage with squirt bottles, backpack sprayers or boom-mounted sprayers.

The product label for the specific herbicide being used provides essential information on coverage; how much of the foliage should be treated how wet it should be. Herbicide labels also contain information on specific weather conditions, application modes, equipment types, nozzles etc. to provide the desired coverage and minimize the potential for volatilization or drift.

The herbicide applicator is responsible for managing drift and damage to non-target vegetation. Wind speeds between 3 and 10 miles per hour are best for foliar herbicide spraying. At higher wind speeds, herbicide may be blown onto adjacent vegetation or water bodies.

At lower wind speeds, temperature inversions can occur, restricting vertical air movement. Under these conditions, small suspended droplets of herbicide can persist in a concentrated cloud and be blown off-target by variable gusts of wind. Ground fog indicates the presence of a temperature inversion, but if no fog is present, smoke movement on the ground can also reveal inversions. Smoke that layers and remains trapped in a cloud at a low level indicates an inversion, while smoke that rises and dissipates indicates good air mixing.

In hot, dry weather, herbicide can evaporate rapidly. Setting equipment to produce large droplets can help compensate for this. In general, follow all directions on the label of the specific herbicide being used, in order to prevent damage to non-target vegetation or water bodies.

Cut-stump

Cut-stump treatment may be used in any season except during heavy spring sap flow, when sap is flowing upwards. Ideally, it should occur before fruit is produced that season.

Cut-stump treatment is useful for species like autumn olive that normally resprout after cutting. After the stems have been cut, they are painted with concentrated herbicide, using a squirt bottle or wicking applicator. Small stems can be cut several inches above the ground so that both the sides and the cut surface may be treated. On large stems, cuts should be made as close to the ground as possible and only the cambium—the thin layer where active growth occurs, just inside the bark—should be treated. When using glyphosate or the amine formulation of triclopyr, cut surfaces must be treated immediately or the herbicide will be ineffective.

Product labels list what adjuvants may be used to increase effectiveness of the herbicide; penetrating oils only work with ester formulations, for example. Similarly, dyes, which are useful in keeping track of which stems have been treated, may be water or oil-based and should be selected to work with a specific herbicide formulation.

Treated plants should be monitored for several years as they may still resprout. New stems may be treated with a foliar spray, or cut and retreated.

Basal bark

Basal bark treatment can be used on stems that are less than six inches in diameter at any time except during heavy sap flow in spring. It should not be used when snow or water prevent herbicide from being applied at the ground level or when stems are saturated. It it is most useful during the dormant season. Typically, ester formulations of herbicide are used with penetrating oils.

In basal bark treatment, concentrated herbicide is applied to a band of bark around autumn olive stems extending up 18 inches from the ground. Basal bark treatment is most effective on younger stems with thin bark.

Prescribed burning

In fire-adapted communities, a prescribed burn may enhance control of autumn olive, but should be considered as part of an integrated management plan for the site.

General considerations

A permit is required before implementing a prescribed burn. The Michigan Department of Natural Resources (DNR) is responsible for issuing burn permits in the Upper Peninsula and Northern Lower Peninsula unless a municipality wishes to do so. Municipalities located in the Southern Lower Peninsula issue burn permits under authority of the state law. A link to the DNR local fire contacts web page is included in the "Online Resources" section. In the Southern Lower Peninsula, contact the local Fire Marshall for permits and more information. Some municipalities require insurance coverage before a permit is issued, to cover the cost of damages if the fire should escape.

Before initiating a program of prescribed burning, a written burn plan establishing the criteria necessary for starting, controlling, and extinguishing a burn is required. The burn plan includes details such as specific weather conditions, locations of control lines, ignition pattern, equipment and personnel needed, contingency plans, and important phone numbers. The burn plan is essentially the "prescription" for how to conduct the burn safely while accomplishing the management objectives.

If other invasive species that are stimulated by burning are present on the site, planning should incorporate additional control methods to eradicate them.

Prescribed burning specifics

Prescribed burning alone will not control autumn olive as it resprouts vigorously in response to fire. In fire-adapted communities, prescribed burning can be a useful tool for controlling large autumn olive shrubs. If there is enough fuel to top kill or partially top kill the autumn olive, subsequent burns (1-3 additional) will ignite the dead stems. This generates enough heat on the stump to kill the shrub. It is less effective on smaller shrubs, however.

Prescribed burning is also beneficial when used in conjunction with chemical treatment. When it is used first, to top kill shrubs, resprouts can be sprayed with herbicide. Alternatively, following treatment with herbicide, any resprouts will be injured or killed by burning. Prescribed burning can also kill autumn olive seedlings when adequate fuel is present.

If left untreated, autumn olive can alter fire ecology as fuels do not accumulate beneath it.

Biological control

No biological controls have been reported for autumn olive except for grazing by sheep and goats, which was reported under grazing.

Disposal of plant parts

When seedlings or young shrubs are pulled, they should be disposed of in a manner that will ensure that their roots will dry out completely. In addition, if fruit is present, it should be burned or bagged and placed in a landfill. Where this is not possible, any resulting seedlings will require monitoring and control.

Although landscape waste cannot generally be disposed of in land fills, Michigan law permits the disposal of invasive species plant parts. See the "Online resources" section for a link to the relevant legislation.

Online resources:

CDMS - herbicide labels:
http://www.cdms.net/LabelsMsds/LMDefault.aspx?t=

Fire Effects Information System, *Eleagnus umbellata*
http://www.fs.fed.us/database/feis/plants/shrub/elaumb/all.html

Invasive.org, Autumn olive
http://www.invasive.org/browse/subinfo.cfm?sub=3021

Invasipedia at BugwoodWiki, *Eleagnus umbellata*
http://wiki.bugwood.org/Elaeagnus_umbellata

Invasive Plant Atlas of New England, Autumn olive
http://www.eddmaps.org/ipane/ipanespecies/shrubs/Elaeagnus_umbellata.htm

Midwest Invasive Species Information Network, Autumn Olive
http://www.misin.msu.edu/facts/detail.php?id=6

The Michigan Department of Agriculture and Rural Development—Pesticide Certification
www.michigan.gov/pestexam

The Michigan Department of Environmental Quality—Aquatic Nuisance Control
www.michigan.gov/deqinlandlakes
http://www.michigan.gov/deq/0,4561,7-135-3313_3681_3710---,00.html

Michigan Department of Natural Resources—Local DNR Fire Manager contact list
http://www.michigan.gov/dnr/0,4570,7-153-30301_30505_44539-159248--,00.html

Michigan's Invasive Species Legislation
Natural Resources and Environmental Protection Act 451 of 1994, Section 324.4130
http://legislature.mi.gov/doc.aspx?mcl-324-41301

Michigan Legislation—landscape waste, disposal of invasive species plant parts
Natural Resources and Environmental Protection Act 451 of 1994, Section 324.11521, 2 (d)
http://legislature.mi.gov/doc.aspx?mcl-324-11521

The Nature Conservancy's Weed Control Methods Handbook: Tools and Techniques for Use in Natural Areas
http://www.invasive.org/gist/handbook.html

The Nature Conservancy's Weed Control Methods Handbook: Tools and Techniques for Use in Natural Areas
http://www.invasive.org/gist/handbook.html

University of Michigan Herbarium - Michigan Flora Online
http://michiganflora.net/

Quick reference—Autumn olive

This chart has been provided as a convenience, to summarize the pros and cons of each herbicide and to present details on adjuvants, concentrations, etc. that do not fit into the discussion in the preceding sections. Although every attempt has been made to ensure accuracy, the product labels for the listed herbicides are the ultimate authority for their usage. Where there are conflicts, always follow the label directions. Techniques are listed in order of general preference by MDNR Wildlife Division staff but not all are suitable for wetlands or sensitive sites. Site conditions vary—choose a method that is best suited to conditions on the site being treated..

Anyone using herbicides in the course of their employment is required to be a certified pesticide applicator. Treatment in wetlands or over open water requires a permit from the Michigan Department of Environmental Quality.

These chemicals are available in a variety of formulations and concentrations. Concentration is listed below as a percentage of the active ingredient (AI) to facilitate use of different products. Always follow all directions on the product label including mixing instructions, timing, rate, leaf coverage and the use of personal protective equipment.

	Herbicide	% A.I.	Adjuvant	Timing	Pros	Cons
Basal Bark	**Triclopyr ester** (e.g., Garlon 4 Ultra®)	27%	Use a penetrating oil (e.g., AX-IT®), unless it is already included in product, e.g. Michigan blend.	Use any time of year, including winter months EXCEPT during heavy spring sap flow OR when snow or water prevent application at ground level OR when stems are saturated.	Relatively selective herbicide and technique. More effective than glyphosate on this species.	Not approved for use in wetlands.
Foliar Spray	**Triclopyr ester** (e.g., Garlon 4 Ultra®)	2-3%	Use a non-ionic surfactant (e.g., Cygnet Plus®).	Spring, before most natives emerge.	More effective than glyphosate on this species. Broad-leaf specific—will not harm sedges and grasses.	Not approved for use in wetlands.
Foliar Spray	**Triclopyr amine** (e.g., Garlon 3A®)	2-3%	Use a non-ionic surfactant (e.g., Cygnet Plus®).	Spring, before most natives emerge.	Safe for use in wetlands. More effective than glyphosate on this species. Broad-leaf specific—will not harm sedges and grasses.	
Cut-stump	**Triclopyr ester** (e.g., Garlon 4 Ultra®)	27%	Use a penetrating oil (e.g., AX-IT®), unless it is already included in product, e.g. Michigan blend.	Use any time EXCEPT during spring sap flow.	Relatively selective herbicide and technique. More effective than glyphosate on this species.	Not approved for use in wetlands.
Cut-stump	**Glyphosate** (e.g., Roundup®, Rodeo®, Accord®)	27%	Different products have different formulations—follow directions on the label.	Use after spring sap flow, while plant is actively growing.	Some products approved for use in wetlands. Less toxic than many alternatives.	Cuts must be treated IMMEDIATELY. When adjacent shrubs share roots, plants that were not treated may be injured.
Foliar Spray	**Glyphosate** (e.g., Roundup®, Rodeo®, Accord®)	2-3%	Some products already contain a surfactant—if not, add one (e.g. Cygnet Plus®, Nu-Film IR®).	Spring, before most natives emerge.	Relatively inexpensive Some products approved for use in wetlands.	Non-selective!!!! Use only on young plants—may resprout. Ineffective on mature plants.
Injection	**Triclopyr amine** (e.g., Garlon 3A®, Renovate®)	27%		Use any time EXCEPT during spring sap flow. Inject 1 ml into cambium at 3-4 inch intervals around trunk at convenient height.	Extremely selective herbicide and technique. Safe for use in wetlands, sensitive areas.	Somewhat labor intensive.