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FINAL SEMI-ANNUAL O&M REPORT REMEDIAL WORK ELEMENTS II AND IV REPORTING PERIOD JULY 1, 2012 THROUGH DECEMBER 31, 2012

Malta Rocket Fuel Area Site Malta, New York

February 21, 2013

Submitted to:

General Electric Company Corporate Environmental Programs 319 Great Oaks Boulevard, Suite 319 Albany, New York 12203

Submitted by:

Shaw Environmental & Infrastructure, Inc. 13 British American Boulevard Latham, New York 12110 **CERTIFICATION**: This document has been reviewed and is prepared in accordance with the contract documents.

Min Muun

Brian Neumann, PG, CPG Project Manager

Final Semi-Annual July Thru Dec 2012 O&M Report – Remedial Work Elements II and IV Malta Rocket Fuel Area Site, Malta, New York

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1.0 INTRODUCTION

This operations and maintenance (O&M) report documents ongoing O&M activities conducted at the Malta Rocket Fuel Area (MRFA) Site, in the Town of Malta, New York.

This report has been prepared in accordance with the following documents:

- <u>Operations and Maintenance Manual, Remedial Work Element II, Groundwater, dated</u> January 22, 1998 and prepared by ERM - Northeast, Inc., and <u>Addendum No. 1,</u> January 31, 2005.
- <u>Operation and Maintenance Manual, Remedial Work Element IV, Institutional</u> <u>Controls, dated September 9, 1999, revised September 27, 1999, prepared by IT</u> <u>Corporation, Inc., currently Shaw.</u>

This report covers all site activities performed at the Site, as required in each of the previously referenced documents, for the period from July 1 through December 31, 2012.

2.1 Sample Collection

Unfiltered groundwater samples were collected on October 23rd through the 25th, 2012 from the Early Warning Monitoring System (EWMS) in accordance with: 1) the Operations and Maintenance Manual for Remedial Work Element II - Ground Water, ERM Northeast, Inc., January 22, 1998, (O&M-GW), 2) the Five-Year Review Report, Malta Rocket Fuel Area Superfund Site, United States Environmental Protection Agency (EPA), September 24, 2004 (Five Year Review Report) including a table titled "Proposed Modifications to Groundwater and Surface Water Sampling Regimes at the Malta Rocket Fuel Area Site", a letter from GE to the USEPA dated October 26, 2004, and 3) Addendum No. 1, Operations and Maintenance Manual, Remedial Work Element II- Groundwater, Malta Rocket Fuel Area Site, General Electric Company, January 31, 2005 (Addendum No. 1). During this reporting period EWMS samples were collected from monitoring wells DGC-3S, DGC-4S, 10S, 11D, 13S, 13D, MW-1, MW-4, M-24DR, M-25D, M-27D, M-28S and M-29D (Figure 1). Surface water samples were collected from locations SW-A, SW-B, SW-D, SW-E, SW-F and SW-G (Figure 1). A blind duplicate sample was collected from well M-27D for VOCs, chromium, and hexavalent chromium. A second blind duplicate was collected for VOCs at M-28S. Trip blanks were also analyzed. Monitoring wells MW-4 and MW-28S were sampled for hydrazine as requested by the USEPA. A blind duplicate was collected from MW-28S for hydrazine.

During this event, additional sampling was performed in accordance with the EPA letter request dated December 1, 2011 (*Modification to the Groundwater Monitoring Program*) and subsequent correspondence with General Electric Company. The following modifications were made to the existing EWMS sample event:

- Monitoring wells 10S, 13S, MW-1, MW-4, M-26S, M-26D and M-29D were added to the sample locations to collect VOC information from the full radial extent of groundwater flow. M-26S and M26D were not accessible during this event. Access discussions are ongoing between General Electric Company and Global Foundries U.S., Inc.
- Water samples were also analyzed for the Trichloroethene (TCE) breakdown product ethane. Vinyl chloride is already included in the current analysis.

- Water samples were collected from monitoring wells MW-4 and M-28S for hydrazine, 1.1-Dimethylhydrazine and Methylhydrazine. As referenced above, M-26S was not accessible during this event.
- The condition of monitoring wells M-26S and M-26D could not be assessed during this event due to the noted access limitations.

Samples from all designated sampling locations were analyzed by Columbia Analytical Services, Inc. in Rochester, New York for VOCs according to USEPA Method OLC-02.1. Samples from wells 13D, M-27D and surface water SW-B were also analyzed for unfiltered total matrix chromium following CLP procedures and unfiltered hexavalent chromium by SW-846 Method 7196 (*Test Methods for Evaluating Solid Waste*, 3rd Edition, November 1986). Monitoring wells MW-4 and MW-28S were analyzed for Hydrazine by SW-846 Method 8315A by Lancaster Laboratories in Lancaster, Pennsylvania. Results of the October 2012 semi-annual EWMS sampling event are summarized in **Table 1**. The laboratory reports are presented in **Appendix A**. The data validation reports are included in **Appendix B**. A summary of analytical results from 1987 through this reporting period for samples collected at locations currently included in the EWMS sampling program is provided in **Tables 2**, **3**, and **4**. In accordance with the O&M-GW, time versus concentration plots for carbon tetrachloride at monitoring well M-27D are included as **Figure 2**. **Figure 3** includes a comparison of simulated versus observed concentrations of carbon tetrachloride at monitoring well M-27D.

2.2 Chromium Analytical Results

Unfiltered total chromium was detected in monitoring wells 13D, MW-27D, and surface water location SW-B at estimated concentrations of 6.6 μ g/l, 6.4 μ g/l, and 1.1 μ g/l, respectively. The New York State Ground Water Standard (NYSGWS) for total chromium is 50 μ g/l.

Analytical results showed no detectable concentrations of hexavalent chromium at the method detection limit for all sample locations (13D, M-27D, SW-B) during the reporting period. The NYSGWS for hexavalent chromium is 50 μ g/l.

2.3 VOC Analytical Results

Carbon tetrachloride was detected in monitoring wells 10S, 11D, 13S, M-24DR, M-25D, M-27D, M-29D, at concentrations of, 2.2 μ g/l, 6.7 μ g/l, 4.1 μ g/l, 1.0 μ g/l, 29 μ g/l, 4.2 μ g/l, , and 24 μ g/l, respectively. In addition, carbon tetrachloride was detected at estimated concentrations in monitoring wells 13D, M-28S and surface water location SW-B at 0.68 μ g/l, 4.1 μ g/l and 0.17 μ g/l respectively. All other sample locations were non-detect for carbon tetrachloride during the reporting period. The time versus concentration plot for carbon tetrachloride in well M-27D is presented in **Figure 2**. The NYSGWS for carbon tetrachloride is 5 μ g/l.

Chloroform was detected at estimated concentrations in monitoring wells 10S, 11D, 13D, M-25D, M-27D, M-28S, and M-29D at concentrations of 0.39 μ g/l, 0.56 μ g/l, 0.13 μ g/l, 1.7 μ g/l, 0.33 μ g/l, 0.20 μ g/l, and 0.96 μ g/l, respectively. The NYSGWS for chloroform is 7 μ g/l. All other sample locations were non-detect for chloroform during the reporting period.

TCE was detected in monitoring wells 11D, 13S, M-24DR, M-25D, M-27D, and M-29D at concentrations of 1.9 μ g/l, 2.2 μ g/l, 4.2 μ g/l, 67 μ g/l and 5.8 μ g/l, , and 23 μ g/l respectively. In addition, TCE was detected at monitoring well M-28S and surface water location SW-B at estimated concentrations of 4.3 μ g/l and 0.16 μ g/l, respectively. The NYSGWS for TCE is 5 μ g/l. TCE was not detected at the other sample locations during this reporting period. 1,1,1-Trichloroethene was detected in monitoring well M-29D at a concentration of 4.6 μ g/l. 1,1-Dichloroethene was detected in M-29D at an estimated concentration of 0.31 μ g/l.

2.4 Comparison of Observed VOC Concentrations to Simulation Results

Carbon tetrachloride and TCE concentrations detected during this monitoring period were compared to the results from the contaminant fate and transport modeling reported in **Appendix A** of the O&M-GW. The comparison was performed for carbon tetrachloride in monitoring well M-27D (**Figure 3**). As shown in **Figure 3**, the simulated carbon tetrachloride results are higher than the observed concentrations.

2.5 Hydrazine Analytical Results

Hydrazine was not detected at monitoring wells MW-4 and M-28

2.6 Groundwater Gauging

A total of 39 on-site and perimeter monitoring wells were gauged to determine groundwater flow direction and gradient across the site. Three additional monitoring wells (M-31D, M-34 and M-35D) could not be located and are believed damaged or completely destroyed. Groundwater elevations recorded during the October 2012 sampling event were used to determine the groundwater gradient across the site and are visually represented in **Figures 4A and 4B**

O&M activities for remedial Work Element IV, Institutional Controls, are conducted on a semiannual basis. Shaw conducts visual inspections of the Environmental Restriction Zone (ERZ) during each of the semi-annual groundwater sampling events. Shaw interviews each of the property owners regarding known activities being performed within the ERZ on an annual basis (Fall).

3.1 Sampling and Survey Results

From October 23 through 25, 2012, as part of the semi-annual EWMS sampling program, site conditions in the environmental restriction zone ERZ were inspected to determine if any changes or property development occurred, specifically the installation of new groundwater wells. The inspections were conducted in the following areas of the site:

- Proximate to the surface water sampling locations and monitoring well locations, as well as long the access roads and wooded paths leading to these locations
- Proximate to building 15 at the MRFA site

3.2 Interviews with Property Owners

Shaw Personnel conducted telephone interviews with the following representatives regarding the ERZ:

- Kevin Hunt representing NYSERDA was interviewed on September 17, 2012.
- Kevin King representing the Town of Malta was interviewed on September 18, 2012.
- Jon Dawes representing LFTCDC was interviewed on September 24, 2012.
- Patrick Hewlett representing Global Foundries was interviewed on January 28, 2013.

Interview logs documenting the conversation with each of the property representatives are included in **Appendix C**.

Mr. Dawes stated that he was aware of ongoing construction by Global Foundries facility. Mr. Dawes was not aware of any new groundwater usage or other actions within the ERZ.

Mr. King from the Town of Malta stated that he was not aware of any new groundwater usage, or other actions within the ERZ.

Mr. Hunt from the NYSERDA stated that he was not aware of any new groundwater usage, or other actions within the ERZ. Mr. Hunt also stated that NYSERDA had provided other interested parties the Environmental Restriction Easements and the Declaration of Restrictive Covenants.

Mr. Hewlett from Global Foundries stated that he was not aware of any new groundwater usage within the ERZ. Mr. Groseclose, also from the Global Foundries, stated that there is ongoing construction just beyond the fence line to the northwest associated with the development of the Global Foundries property. The general contractors are aware of the Environmental Restriction Easements and the Declaration of Restrictive Covenants and have a contingency plan in place if groundwater is encountered.

4.0 SUMMARY

4.1 Early Warning Monitoring System (EWMS)

The analytical results from this reporting period are summarized as follows:

- Chromium was detected in monitoring wells 13D, M-27D, and surface water location SW-B at estimated concentrations of 6.6 μ g/l, 6.4 μ g/l, and 1.1 μ g/l, respectively. The chromium detections were below the NYSGWS of 50 μ g/l.
- Hexavalent chromium was not detected at the any of the sample locations.
- Carbon tetrachloride was detected in monitoring wells 10S, 11D, 13S, M-24DR, M-25D, M-27D, , M-29D, at concentrations of, 2.2 μ g/l, 6.7 μ g/l, 4.1 μ g/l, 1.0 μ g/l, 29 μ g/l, 4.2 μ g/l, , and 24 μ g/l, respectively. All other sample locations contained either estimated concentrations or were non-detect for carbon tetrachloride during the reporting period. The NYSGWS for carbon tetrachloride is 5 μ g/l.
- Chloroform detections were either estimated concentrations or were non-detect during the reporting period. The NYSGWS for chloroform is $7 \mu g/l$.
- TCE was detected in monitoring wells 11D, 13S, M-24DR, M-25D, M-27D, and M-29D at concentrations of 1.9 μ g/l, 2.2 μ g/l, 4.2 μ g/l, 67 μ g/l and 5.8 μ g/l, and 23 μ g/l respectively. 1,1,1-Trichloroethene was detected in monitoring well M-29D at a concentration of 4.6 μ g/l. All other sample locations contained either estimated concentrations or were non-detect for TCE, 1,1,1-Trichloroethene and 1,1-Dichloroethene during the reporting period. The NYSGWS for TCE, and 1,1,1-Trichloroethene is 5 μ g/l.
- As shown in **Figure 3**, simulated concentrations of carbon tetrachloride are much higher than the observed concentrations. The NYSGWS for carbon tetrachloride is $5 \mu g/l$.

4.2 Institutional Controls

Although several property owners reported knowledge of construction activities within the ERZ, none of the property owners have knowledge of current or potential future use of groundwater within the area of the Environmental Restriction Zone.

Tables

TABLE 1 OCTOBER 2012 WATER QUALITY ANALYTICAL RESULTS SEMI-ANNUAL SAMPLING

	Remedial																							
	Action												DUP A		DUP B		Trip	Trip						
Compound	Objective	DGC-3S	DGC-4S	10S	11D	13S	13D	MW-1	MW-4	M-24DR	M-25D	M-27D	M-27D	M-28S	MW-28S	M-29D	Blank (10/23/12)	Blank (10/24/12)	SW-A	SW-B	SW-D	SW-E	SW-F	SW-G
Acetone	50	5.0 UJ	25.0 UJ	5.0 UJ	2.1 J	1.6 J	5.0 UJ																	
Carbon Disulfide	None*	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U							
Carbon Tetrachloride	5	1.0 U	1.0 U	2.2	6.7	4.1	0.68 J	1.0 U	1.0 U	1.0	29	4.2	4.9	4.1 J	1.6 J	24	1.0 U	1.0 U	1.0 U	0.17 J	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 U	1.0 U	0.39 J	0.56 J	1.0 U	0.13 J	1.0 U	1.0 U	1.0 U	1.7 J	0.33 J	4.1 J	0.20 J	1.0 U	0.96 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	5	5.0 UJ	25.0 UJ	5.0 U	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ												
Trichloroethene	5	1.0 U	1.0 U	1.0 U	1.9	2.2	1.0 U	1.0 U	1.0 U	4.2	67	5.8	5.8	4.3 J	1.3 J	23	1.0 U	1.0 U	1.0 U	0.16 J	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5*	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U								
1,1,1-Trichloroethane	5	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U								
1,1-Dichloroethene	NP	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.31 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U								
cis-1,2-Dichloroethene	5	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U								
Toluene	5	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U								
Chromium	50*	NA	NA	NA	NA	NA	6.6 J	NA	NA	NA	NA	6.4 J	2.3 J	NA	NA	NA	NA	NA	NA	1.1 J	NA	NA	NA	NA
Hexavalent Chromium	50*	NA	NA	NA	NA	NA	10.0 U	NA	NA	NA	NA	10.0 U	10.0 U	NA	NA	NA	NA	NA	NA	10.0 U	NA	NA	NA	NA
Ethane	NP	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U									
1,1-Dimethylhydrazine	NP	NA	0.25 U	NA	NA	NA	NA	0.25 U	0.25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA						
Hydrazine	5*	NA	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA						
Methylhydrazine	NP	NA	0.25 U	NA	NA	NA	NA	0.25 U	0.25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA						

Field Parameters																				
pH	 6.67	7.26	7.77	7.98	7.62	8.01	8.08	7.96	10.91	7.75	7.75	 7.48	 7.9	 	7.94	8.1	7.93	7.92	7.55	7.59
Temperature (celsius)	 10.97	11.13	11.76	10.42	10.62	10.68	10.83	10.84	11.45	10.91	10.52	 11.31	 10.69	 	10.71	11.46	10.44	10.39	10.04	10.14
Conductivity (umhos/cm)	 0.092	0.216	0.337	0.313	0.437	0.320	0.219	0.134	0.381	0.409	0.418	 0.313	 0.374	 	0.335	0.409	0.557	0.506	0.338	0.321
Dissolved Oxygen (mg/L)	 6.66	4.9	12.36	11.89	11.79	8.87	13.87	12.68	9.02	11.44	8.26	 12.34	 12.55	 	10.21	8.22	8.88	7.05	6.81	6.45
Turbidity (NTUs)	 9.7	11.2	58.7	9.8	9.30	20.2	8.6	3.4	7.0	1.0	2.2	 17.7	 1.0	 	3.3	5.6	3.4	4.7	3.3	4.1
Depth To Water (feet)	 14.10	7.10	33.25	27.1	30.61	34.53	39.74	24.89	34.32	26.93	31.91	 47.55	 42.44	 						
Ground Water Elevation (feet)	 198.50	196.80	293.75	290.5	296.59	292.77	299.86	300.61	286.25	285.77	285.73	 292.75	 289.86	 						

<u>Notes:</u>
1. All analytical concentrations are in µg/l (micrograms per liter (ppb))unless otherwise noted.
2. Only compounds detected at one or more sampling points are listed.

3. NA - not analyzed for.

4. U - analyte was not detected, and value shown is the detection limit.

4. O - analyte was not detected, and value shown is the detection mint.
5. J - estimated value due to data validation requirements or concentration less than CRQL (organics only).
6. B - The reported value is less than the CRDL but greater than the IDL (inorganics only).
* Based on NYSDEC Final Combined Regulatory Impact and Environmental Impact Statement (Title 6, Chapter X, Parts 700-706, 1998), identified for comparison purposes only. ** Analyical concentrations are in mg/l (milligrams per liter (ppm)) 7. D - Indentifies all compounds analyzed at a secondary dilution factor.

8. NM - Not measured due to equipment malfunction.

	Remedial											
Wells / Compounds	Action	6/29-			1/19-	4/18-	7/20-	10/11-	1/19-			
DGC-3S	Objective	7/1/1987	7/31/87	11/5/87	1/20/1988	4/19/1988	7/21/1988	10/12/88	1/20/89	4/10/89	7/12/89	8/15/1989
Benzene	0.7*	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	None*	ND	NA	ND	ND	ND	ND	ND	NA	ND	ND	ND
Carbon Tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aluminum	100*	0.48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25*	NA	NA	NA	NA	<0.005 mg/L	NA	NA	NA	NA	NA	NA
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexavalent Chromium	50*	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
DGC-4S								1		1		
Carbon Disulfide	None*											
Chromium	50*											
138												
Benzene	0.7*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	None*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexavalent Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Units are µg/l (ppb) unless otherwise stated.

Only detected compounds are listed.

NA = Not analyzed.

ND = Not detected.

NS = Not sampled.

B = The reported value is less than the CRQL/CRDL but greater than the IDL.

dp = Duplicate sample.

E = Estimated concentration: due to interference.

D = Concentration determined from a sample dilution.

J = Estimated concentration.

V = Estimated concentration: due to variance to quality control limits.

--= Not sampled: well installed in December, 1990.

* Based on NYSDEC Final Combined Regulatory Impact and Environmental Impact Statement (Title 6, Chapter X, Parts 700-706, 1998), identified

for comparison purposes only.

** = Filtered Sample.

Wells / Compounds DGC-3S	Remedial Action Objective	11/30/1989	5/30/90	8/28/90	12/6/90	4/8- 4/10/1991	6/12- 6/13/1991	9/23- 9/24/1991	12/26- 12/27/91	2/10- 2/11/92	6/1- 6/2/1992	9/28- 9/29/1992
Benzene	0.7*	ND	ND	ND	ND	ND	ND	0.2 J	ND	ND/NDdp	ND	ND
Carbon Disulfide	None*	ND	ND	ND	NA	8 V / 7 Vdp	4	ND	ND	ND/NDdp	ND	ND
Carbon Tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aluminum	100*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50*	NA	NA	NA	NA	NA	NA	6.1	62.2E/70.3Edp	16.2/ND*, 14.6/ND*dp	25.2/ND*	ND
Hexavalent Chromium	50*	no data	NA	NA	NA	NA	NA	NA	NA	ND/4*/ND dp	NA	NA
DGC-4S Carbon Disulfide Chromium	None* 50*					ND/0.5Vdp NA	ND NA	ND 15.9	ND 11.9 E	ND ND/ND*	ND ND/ND*	ND/ND dp ND/ND dp
138												
Benzene	0.7*	NA	NA	NA	NA	2	0.7/0.6 Jdp	1	ND	ND	ND	ND
Carbon Disulfide	None*	NA	NA	NA	NA	60 D	0.6	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	NA	18/16 dp	6.4	4.4	8	24 J/24 Jdp	8	12	9	6 J	9
Chloroform	7	NA	ND	ND	ND	ND	0.8/0.9 Jdp	ND	0.4 J	0.3 J	ND	ND
Trichloroethene	5	NA	ND	ND	ND	ND	ND	0.4 J	0.9	0.6	ND	0.6
Trichlorofluoromethane	5*	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5
Chromium	50*	NA	NA	NA	NA	336 V	NA	269/261**	316 E/562 E**	282/498**	504/512**	179/172**
Hexavalent Chromium	50*	NA	NA	NA	NA	NA	NA	280	486/302**	260/310**	NA	287

Notes:

Units are µg/l (ppb) unless otherwise stated.

Only detected compounds are listed.

NA = Not analyzed.

ND = Not detected.

NS = Not sampled.

B = The reported value is less than the CRQL/CRDL but greater than the IDL.

dp = Duplicate sample.

E = Estimated concentration: due to interference.

D = Concentration determined from a sample dilution.

J = Estimated concentration.

V = Estimated concentration: due to variance to quality control limits.

--= Not sampled: well installed in December, 1990.

* Based on NYSDEC Final Combined Regulatory Impact and Environmental Impact Statement (Title 6, Chapter X, Parts 700-706, 1998), identified

for comparison purposes only.

** = Filtered Sample.

	Remedial											
Wells / Compounds	Action	11/18-	3/17-	5/25-	8/24-	11/8-	2/22-	5/18-	8/24-	11/15-		
DGC-3S	Objective	11/19/1992	3/18/1993	5/26/1993	8/25/1993	11/9/1993	2/23/1994	5/19/1994	8/25/1994	11/16/1994	5/23/1995	10/17/1995
Benzene	0.7*	ND	ND	ND	ND	ND	ND	ND V	ND	ND	ND	ND
Carbon Disulfide	None*	ND	ND	ND	0.8	ND	ND	ND V	ND	ND	ND	ND
Carbon Tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aluminum	100*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50*	33.6/ND*	18.5	4.3 B	4.7B	19.4	23.9	4.5 B	9.9 B	11.1	NA	NA
Hexavalent Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DGC-4S Carbon Disulfide	None*	4 V	ND	0.3 J	0.2J	ND		ND V/ND V dp	ND	ND	ND	ND
Chromium	50*	8.6 B	48.1/ND*	ND	3.3B	ND	31.2/ND*	ND/ND dp	5.6 B	ND	NA	NA
138												
Benzene	0.7*	0.4 JV	ND	ND	ND	ND	ND/ND dp	ND	ND	ND	NA	NA
Carbon Disulfide	None*	ND	ND	ND	ND	ND	ND/ND dp	ND	ND	ND	NA	NA
Carbon Tetrachloride	5	16 V	15	10	17	18	20/9 dp	9	9	9	NA	NA
Chloroform	7	0.6 V	0.6	0.4 J	0.6	0.7	ND/ND dp	0.4 J	0.3 J	ND	NA	NA
Trichloroethene	5	1 V	2	0.6	ND	2	2/1 dp	0.8	1	0.9	NA	NA
Trichlorofluoromethane	5*	0.9 V	2	0.5	ND	2	2/1 dp	0.9	1	ND	NA	NA
Chromium	50*	585/576**	746/614**	198/609**	787/716**	572/610**	580/357** 567/357** dp	406/434**	133 V/157 V**	44.2 V/95.8 V**	140 J	52.7 J
Hexavalent Chromium	50*	493	663	460	800	560	530/540 dp	340	101	36	150	48

Notes:

Units are µg/l (ppb) unless otherwise stated.

Only detected compounds are listed.

NA = Not analyzed.

ND = Not detected.

NS = Not sampled.

B = The reported value is less than the CRQL/CRDL but greater than the IDL.

dp = Duplicate sample.

E = Estimated concentration: due to interference.

D = Concentration determined from a sample dilution.

J = Estimated concentration.

V = Estimated concentration: due to variance to quality control limits.

--= Not sampled: well installed in December, 1990.

* Based on NYSDEC Final Combined Regulatory Impact and Environmental Impact Statement (Title 6, Chapter X, Parts 700-706, 1998), identified

for comparison purposes only.

** = Filtered Sample.

Wells / Compounds	Remedial Action											
DGC-3S	Objective	5/14/1996	10/23/1996	6/2/1997	10/14/1997	5/28/1998	10/29/1998	5/11/1999	10/26/1999	5/22/2000	10/24/2000	5/15/2001
Benzene	0.7*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	None*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aluminum	100*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexavalent Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DGC-4S Carbon Disulfide Chromium	None* 50*	ND NA	ND NA	ND NA	ND NA	ND NA	ND NA	ND NA	ND NA	ND NA	ND NA	ND NA
138												
Benzene	0.7*	NA	NA	1U	1U	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	None*	NA	NA	1U	1U	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	5	NA	NA	1U	8	NA	NA	NA	NA	NA	NA	NA
Chloroform	7	NA	NA	1U	1U	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50*	44.8	46.4	90.7/90.9**	71.4	71.2	98.6 J	72.4	169	249	29.9	136
Hexavalent Chromium	50*	47	47	97	67	51	54.0 J	71.0	178	262	41	12.3

Notes:

Units are $\mu g/l$ (ppb) unless otherwise stated. Only detected compounds are listed.

NA = Not analyzed.

NA = Not analyzed.ND = Not detected.

ND = Not detected.NS = Not sampled.

B = The reported value is less than the CRQL/CRDL but greater than the IDL.

dp = Duplicate sample.

E = Estimated concentration: due to interference.

D = Concentration determined from a sample dilution.

J = Estimated concentration.

V = Estimated concentration: due to variance to quality control limits.

--= Not sampled: well installed in December, 1990.

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for comparison purposes only.

** = Filtered Sample.

W-ll- / C-maranada	Remedial Action											
Wells / Compounds DGC-3S	Objective	10/23/2001	5/29/2002	10/29/2002	4/9/2003	10/9/2003	5/25/2004	11/2004	5/24/2005	10/2005	5/23/2006	10/16/2006
Benzene	0.7*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	None*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aluminum	100*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexavalent Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DGC-4S Carbon Disulfide Chromium	None* 50*	ND NA	ND NA	ND NA	ND NA	ND NA	ND NA	ND NA	ND NA	ND NA	ND NA	ND NA
138	1	1		1		1			.			
Benzene	0.7*	NA	NA	NA	NA	NA	NA	NA	NS	NS	NS	NS
Carbon Disulfide	None*	NA	NA	NA	NA	NA	NA	NA	NS	NS	NS	NS
Carbon Tetrachloride	5	NA	NA	NA	NA	NA	NA	NA	NS	NS	NS	NS
Chloroform	7	NA	NA	NA	NA	NA	NA	NA	NS	NS	NS	NS
Trichloroethene	5	NA	NA	NA	NA	NA	NA	NA	NS	NS	NS	NS
Trichlorofluoromethane	5*	NA	NA	NA	NA	NA	NA	NA	NS	NS	NS	NS
Chromium	50*	43.3	13.4	34.8	52.2	49.4	20.1	NA	NS	NS	NS	NS
Hexavalent Chromium	50*	43.6 J	18	3.59	45	51.5	11	11.2	NS	NS	NS	NS

Notes:

Units are $\mu g/l$ (ppb) unless otherwise stated. Only detected compounds are listed. NA = Not analyzed. ND = Not detected. NS = Not sampled. B = The reported value is less than the CRQL/CRDL but greater than the IDL. dp = Duplicate sample. E = Estimated concentration: due to interference.

D = Concentration determined from a sample dilution.

J = Estimated concentration.

- V = Estimated concentration: due to variance to quality control limits.
- --= Not sampled: well installed in December, 1990.
- * Based on NYSDEC Final Combined Regulatory Impact and Environmental Impact Statement (Title 6, Chapter X, Parts 700-706, 1998), identified
- for comparison purposes only.
- ** = Filtered Sample.
- See RI report for additional data.

	Remedial
Wells / Compounds	Action

Wells / Compounds	Action												
DGC-3S	Objective	5/14/2007	10/16/2007	5/15/2008	10/13/2008	5/13/2009	11/11/2009	5/19/2010	10/26/2010	5/18/2011	10/25-10/26-2011	5/22-5/24-2012	10/23-10/24-2012
Benzene	0.7*	ND	ND	ND	ND								
Carbon Disulfide	None*	ND	ND	ND	ND								
Carbon Tetrachloride	5	ND	ND	0.13 J	ND								
Trichloroethene	5	ND	ND	0.20 J	ND								
Aluminum	100*	NA	NA	NA	ND								
Lead	25*	NA	NA	NA	ND								
Chromium	50*	NA	NA	NA	ND								
Hexavalent Chromium	50*	NA	NA	NA	ND								
DGC-4S Carbon Disulfide Chromium	None* 50*	ND NA	ND NA	ND NA	ND ND								
138											· · · · · · · · · · · · · · · · · · ·		- II
Benzene	0.7*	NS	NS	ND	ND								
Carbon Disulfide	None*	NS	NS	ND	ND								
Carbon Tetrachloride	5	NS	NS	4	4.1								
Chloroform	7	NS	NS	ND	ND								
Trichloroethene	5	NS	NS	3.8	2.2								
Trichlorofluoromethane	5*	NS	NS	ND	ND								
Chromium	50*	NS	NS	NA	NA								
Hexavalent Chromium	50*	NS	NS	NA	NA								

Notes:

Units are µg/l (ppb) unless otherwise stated.

Only detected compounds are listed.

NA = Not analyzed.

ND = Not detected.

NS = Not aetected.

B = The reported value is less than the CRQL/CRDL but greater than the IDL.

dp = Duplicate sample.

E = Estimated concentration: due to interference.

D = Concentration determined from a sample dilution.

J = Estimated concentration.

V = Estimated concentration: due to variance to quality control limits.

-- = Not sampled: well installed in December, 1990.

* Based on NYSDEC Final Combined Regulatory Impact and Environmental

Impact Statement (Title 6, Chapter X, Parts 700-706, 1998), identified

for comparison purposes only.

** = Filtered Sample.

TABLE 3 SUMMARY OF WATER QUALITY ANALYTICAL RESULTS MONITORING WELLS M-27S, M-27D, M-33S, M-33I JUNE 1992 - OCTOBER 2012 SEMI-ANNUAL SAMPLING

Remedial

	Action												
M-27S	Objective	6/5/1992	11/11/1992	3/14/1994	5/23/1995	10/17/1995	5/14/1996	10/23/1996	6/2/1997	10/14/1997	5/28/1998	10/29/1998	5/11/1999
Carbon Disulfide	None*	ND	ND	not sampled	ND	ND	ND	ND	ND	ND	ND	ND	0.85 J
Chloromethane	5	40	ND	not sampled	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	50*	8.4 B/ND**	57.4/ND**	not sampled	ND	ND	ND	ND	ND	ND	ND	3.2 BJ	0.98B
Hexavalent Chromium	50*	NA	NA	not sampled	ND	ND	ND	ND	ND	ND	ND	ND	ND

M-27D

M-2/D													
Carbon Tetrachloride	5	75/62 dp	23	not sampled	33/42 dp	56	31	28	26	22	27	26 / 27 dp	20.3 / 20.1 dp
Chloroform	7	ND	3	not sampled	4/4 dp	5	3	3	3	2	3	2 / 2 dp	1.8 / 1.8 dp
Chloromethane	5	4 J/28 dp	ND	not sampled	ND/ND dp	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND dp
Trichloroethene	5											ND/ND dp	4.1/4.1 dp
Trichlorofluoromethane	5*	no data	no data	not sampled	no data	no data	no data	no data	no data	no data	no data	0.3 J / 0.3 J dp	0.92J / 0.99J dp
Chromium	50*	2.0 B/ND**	19.8/ND**	not sampled	ND/ND dp	ND	ND	ND	ND	1.2B	ND	4.6 BJ /	1.4 B /
Hexavalent Chromium	50*	NA	NA	not sampled	ND/ND dp	ND	ND	ND	ND	ND	ND	ND / ND dp	ND / ND dp

M-33S

VOCs	-	not sampled	not sampled	ND									
M-33I													

VOCs	-	not sampled	not sampled	ND									

Notes:

Units are ug/l (ppb) unless otherwise stated.

Only detected compounds are listed.

NA = Not analyzed.

ND = Not detected.

NS = Not Sampled

J = Estimated concentration.

dp = Duplicate sample.

B = The reported value is less than the CRQL/CRDL but greater than the IDL.

D = Indentifies compound analyzed at a secondary dilution factor.

* Based on NYSDEC Final Combined Regulatory Impact and Environmental

Impact Statement (Title 6, Chapter X, Parts 700-706, 1998), identified

for comparison purposes only.

** = Filtered Sample.

TABLE 3 SUMMARY OF WATER QUALITY ANALYTICAL RESULTS MONITORING WELLS M-27S, M-27D, M-33S, M-33I JUNE 1992 - OCTOBER 2012 SEMI-ANNUAL SAMPLING

	Action												
M-27S	Objective	10/26/1999	5/22/2000	10/24/2000	5/15/2001	10/23/2001	5/29/2002	10/29/2002	4/15/2003	10/9/2003	5/25/2004	11/2004	5/24/2005
Carbon Disulfide	None*	ND / ND dp	ND	ND	ND / ND dp	ND / ND dp	ND / ND dp	ND J / ND J dp	ND	ND / 0.11 J dp	ND	NA	NA
Chloromethane	5	ND / ND dp	ND	ND	ND / ND dp	ND / ND dp	ND / ND dp	ND J / ND J dp	ND	ND / ND dp	ND	NA	NA
Chromium	50*	0.85B/0.90b dp	1.1B	1.2B	ND / ND dp	ND / ND dp	ND / ND dp	1.2 B	8.5 B	1.0 B / 1.8 B dp	83.1	2.6 B / 2.2 B dp	NA
Hexavalent Chromium	50*	ND / ND dp	ND	ND	ND / ND dp	ND UJ	ND U / ND dp	ND	ND	NA			

5	22.3	26.7D/28.9D dp	19.2/19.8 dp	13.8	16.2	14.5	24.2 DJ	5.1 / 4.5 dp	16.6	3 / 2.7 dp	22.1	21
7	1.8	ND / ND dp	1.7J /1.3 dp	1.1	1.1	0.94J	2.4	ND / ND dp	1.0	0.53 JB / 0.55 JB dp	ND	ND
5	ND	ND / ND dp	ND / ND dp	ND	ND	ND	ND	ND ND dp	ND	ND ND dp	ND	ND
5	10.7	12.8 / 12.1 dp	26.4 /26.5D dp	19.4	27 D	22.7	14	2.4 / 2.2 dp	21.8 D	3.2 / 2.9 dp	22.7	18
5*	1.4	1.9 / 1.8 dp	2.9 / 2.9 dp	2.0	2.2	1.5	0.96 J	0.21J / 0.18J dp	2.3	0.27 J / 0.29 J dp	2.3	1.3
50*	0.81B	2B/1.8B dp	1.2B/1.2B dp	ND	1.5 B	2 B	1.5 B	5.9B / 6.1B dp	1.2 B	22.6 / 21.3 dp	2.6 B	1.7 B
50*	ND	ND/ND dp	ND/ND dp	ND	ND	ND	ND	ND / ND dp	ND	ND / ND dp	ND	ND
		7 1.8 5 ND 5 10.7 5* 1.4 50* 0.81B	7 1.8 ND / ND dp 5 ND ND / ND dp 5 10.7 12.8 / 12.1 dp 5* 1.4 1.9 / 1.8 dp 50* 0.81B 2B/1.8B dp	7 1.8 ND / ND dp 1.7J /1.3 dp 5 ND ND / ND dp ND / ND dp 5 10.7 12.8 / 12.1 dp 26.4 / 26.5 D dp 5* 1.4 1.9 / 1.8 dp 2.9 / 2.9 dp 50* 0.81B 2B/1.8B dp 1.2B/1.2B dp	7 1.8 ND / ND dp 1.7J / 1.3 dp 1.1 5 ND ND / ND dp ND / ND dp ND 5 10.7 12.8 / 12.1 dp 26.4 / 26.5D dp 19.4 5* 1.4 1.9 / 1.8 dp 2.9 / 2.9 dp 2.0 50* 0.81B 2B/1.8B dp 1.2B/1.2B dp ND	7 1.8 ND / ND dp 1.7J / 1.3 dp 1.1 1.1 5 ND ND / ND dp ND / ND dp ND ND 5 10.7 12.8 / 12.1 dp 26.4 / 26.5D dp 19.4 27 D 5* 1.4 1.9 / 1.8 dp 2.9 / 2.9 dp 2.0 2.2 50* 0.81B 2B/1.8B dp 1.2B/1.2B dp ND 1.5 B	7 1.8 ND / ND dp 1.7J / 1.3 dp 1.1 1.1 0.94J 5 ND ND / ND dp ND / ND dp ND ND ND 5 10.7 12.8 / 12.1 dp 26.4 / 26.5D dp 19.4 27 D 22.7 5* 1.4 1.9 / 1.8 dp 2.9 / 2.9 dp 2.0 2.2 1.5 50* 0.81B 2B/1.8B dp 1.2B/1.2B dp ND 1.5 B 2 B	7 1.8 ND / ND dp 1.7J / 1.3 dp 1.1 1.1 0.94J 2.4 5 ND ND / ND dp ND / ND dp ND ND ND ND 5 10.7 12.8 / 12.1 dp 26.4 / 26.5D dp 19.4 27 D 22.7 14 5* 1.4 1.9 / 1.8 dp 2.9 / 29 dp 2.0 2.2 1.5 0.96 J 50* 0.81B 2B/1.8B dp 1.2B/1.2B dp ND 1.5 B 2 B 1.5 B	7 1.8 ND / ND dp 1.7J / 1.3 dp 1.1 1.1 0.94J 2.4 ND / ND dp 5 ND ND / ND dp ND / ND dp ND ND ND ND ND ND ND dp 5 10.7 12.8 / 12.1 dp 26.4 / 26.5D dp 19.4 27 D 22.7 14 2.4 / 2.2 dp 5* 1.4 1.9 / 1.8 dp 2.9 / 2.9 dp 2.0 2.2 1.5 0.96 J 0.21J / 0.18J dp 50* 0.81B 2B/1.8B dp 1.2B/1.2B dp ND 1.5 B 2 B 1.5 B 5.9B / 6.1B dp	7 1.8 ND / ND dp 1.7J / 1.3 dp 1.1 1.1 0.94J 2.4 ND / ND dp 1.0 5 ND ND / ND dp ND / ND dp ND ND ND ND ND / ND dp ND 5 10.7 12.8 / 12.1 dp 26.4 / 26.5D dp 19.4 27 D 22.7 14 2.4 / 2.2 dp 21.8 D 5* 1.4 1.9 / 1.8 dp 2.9 / 2.9 dp 2.0 2.2 1.5 0.96 J 0.211 / 0.18J dp 2.3 50* 0.81B 2B/1.8B dp 1.2B/1.2B dp ND 1.5 B 2 B 1.5 B 5.9B / 6.1B dp 1.2 B	7 1.8 ND / ND dp 1.7J / 1.3 dp 1.1 1.1 0.94J 2.4 ND / ND dp 1.0 0.53 JB / 0.55 JB dp 5 ND ND / ND dp ND / ND dp ND ND ND ND ND MD dp ND ND dp 5 10.7 12.8 / 12.1 dp 26.4 / 26.5D dp 19.4 27 D 22.7 14 2.4 / 2.2 dp 21.8 D 3.2 / 2.9 dp 5* 1.4 1.9 / 1.8 dp 2.9 / 2.9 dp 2.0 2.2 1.5 0.96J 0.21J / 0.181 dp 2.3 0.27 J / 0.29 J dp 50* 0.81B 2B/1.8B dp 1.2B/1.2B dp ND 1.5 B 2 B 1.5 B 5.9B / 6.1B dp 1.2 B 22.6 / 21.3 dp	7 1.8 ND / ND dp 1.7J / 1.3 dp 1.1 1.1 0.94J 2.4 ND / ND dp 1.0 0.55 JB dp ND 5 ND ND / ND dp ND / ND dp ND / ND dp ND ND ND ND ND dp ND ND dp ND ND 5 10.7 12.8 / 12.1 dp 26.4 / 26.5D dp 19.4 27 D 22.7 14 2.4 / 2.2 dp 21.8 D 3.2 / 2.9 dp 22.7 5* 1.4 1.9 / 1.8 dp 2.9 / 2.9 dp 2.0 2.2 1.5 0.96 J 0.21J / 0.18J dp 2.3 2.3 50* 0.81B 2B/1.8B dp 1.2B/1.2B dp ND 1.5 B 2 B 1.5 B 5.9B / 6.1B dp 1.2 B 22.6 / 21.3 dp 2.6 B

M-33S

VOCs	-	ND	ND	ND	8.0 J	ND							
M-33I													
VOCs	-	ND	ND	ND	4.1 J	ND							

Notes:

Units are ug/l (ppb) unless otherwise stated.

Only detected compounds are listed.

NA = Not analyzed.

ND = Not detected.

NS = Not Sampled

J = Estimated concentration.

dp = Duplicate sample.

B = The reported value is less than the CRQL/CRDL but greater than the IDL.

Remedial

D = Indentifies compound analyzed at a secondary dilution factor.

* Based on NYSDEC Final Combined Regulatory Impact and Environmental Impact Statement (Title 6, Chapter X, Parts 700-706, 1998), identified for comparison purposes only.

** = Filtered Sample.

TABLE 3 SUMMARY OF WATER QUALITY ANALYTICAL RESULTS MONITORING WELLS M-27S, M-27D, M-33S, M-33I JUNE 1992 - OCTOBER 2012 SEMI-ANNUAL SAMPLING

	Action															
M-27S	Objective	10/2005	5/23/2006	10/16/2006	5/14/2007	10/16/2007	5/14/2008	10/13/2008	5/13/2009	11/11/2009	5/19/2010	10/26/2010	5/18/2011	10/25-10/26/2011	5/22-5/24-2012	10/23-10/24-2012
Carbon Disulfide	None*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS	NS	NS
Chloromethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS	NS	NS
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS	NS	NS
Hexavalent Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS	NS	NS
M-27D																
Carbon Tetrachloride	5	13	22	12	15	10	11	9	7.6	5.8	4.2	6.9	8.3	6	5.2	4.2
Chloroform	7	ND	2	0.76J	2	0.7J	ND	0.6 J	0.30 J	0.31 J	ND	0.61 J	1.1	0.5J	0.53 J	0.33 J
Chloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	0.13 J	ND	ND	ND	ND	ND	ND
Trichloroethene	5	24	16	21	15	14	13	11	11	10	9.3	8.2	6.7	7	7.1	5.8
Trichlorofluoromethane	5*	1.0	1 J	1.0	0.9J	0.8J	0.6J	0.3 J	0.15 J	ND	ND	ND	0.13J	ND	ND	ND
Chromium	50*	1.6 B	2.7	1.7 BJ	ND	ND	ND	0.810	0.88	ND	1.1 J	10 U	ND	1.0 J	11.1 J	6.4
Hexavalent Chromium	50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010 J	10.0 U	ND
M-338																
VOCs	-	ND	ND	ND	ND	ND	ND	ND								
M-33I																
VOCs	-	ND	ND	ND	ND	ND	NA	ND								

Notes:

Units are ug/l (ppb) unless otherwise stated. Only detected compounds are listed.

NA = Not analyzed.

ND = Not detected.

NS = Not Sampled

J = Estimated concentration.

dp = Duplicate sample.

B = The reported value is less than the CRQL/CRDL but greater than the IDL.

Remedial

 a line reported value is less than the CR2 of CR2 of the point great man the IP2.
 b = Indentifies compound analyzed at a secondary dilution factor.
 * Based on NYSDEC Final Combined Regulatory Impact and Environmental Impact Statement (Title 6, Chapter X, Parts 700-706, 1998), identified for comparison purposes only.

** = Filtered Sample.

TABLE 4 SUMMARY OF WATER QUALITY ANALYTICAL RESULTS MONITORING WELLS 4D, 11D, M-24D, M-25D, M-29D, 13D JUNE 1992 - OCTOBER 2012 SEMI-ANNUAL SAMPLING

Wells / Compounds 4D	Remedial Action Objective	6/1-6/2/1992	11/18- 11/19/1992	11/2004	5/24/2005	10/24/2005	5/23/2006	10/16/2006	5/14/2007	10/16/2007	5/14/2008	10/13/2008	5/13/2009	11/11/2009	5/19/2010	10/26/2010	5/18/2011	10/25-10/26/2011	5/22-5/24-2012	10/23-10/24-201
Acetone	50	ND	ND R	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	NS	NS	NS	NS
Carbon Tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	NS	NS	NS	NS
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	NS	NS	NS	NS
richloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	NS	NS	NS	NS
ID																				
cetone	50	ND	ND R	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.8 J	NS	ND	ND	ND	ND	5.0 UJ	ND
arbon Tetrachloride	5	ND	6	4.6	13	14	15	12	12	13	11	10	11	NS	11	7.7	8.9	7.8	8.3	6.7
Chloroform	7	ND	3	ND	4.0	3.0	4.0	3.0	3	2	ND	2	1.4	NS	1.3	0.82 J	0.96 J	0.76J	0.89 J	0.56 J
richloroethene	5	9J	7	ND	0.8 J	0.9J	1 J	2.0	1	1	1	2	1.6	NS	1.5	1.9	1.3	1.4	1.3	1.9
I-24D																				
cetone	50	ND	ND R	ND	ND	ND	ND	ND	ND	ND	ND	ND								
arbon Tetrachloride	5	10	0.7	0.59 J	10	10	11	11	10	9	9	10								
Chloroform	7	ND	ND	ND	0.6 J	0.5J	0.5 J	0.44 J	0.4 J	0.4 J	ND	0.3 J								
richloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND								
1-24DR																				
Acetone	50												ND	ND	ND	ND	2.1	ND	5.0 UJ	4.1 J
Carbon Tetrachloride	5												16	13	5.5	4.9	2.6	2.4	1.3	1.0
Chloroform	7												0.68 J	0.43 J	0.25 J	0.25 J	0.11J	0.12J	ND	ND
Trichloroethene	5												49	39	18	19	9.5	8.8	4.8	4.2
M-25D																				
Acetone	50	ND	ND R	ND	ND	ND	49 D*	25 JD	ND	ND	ND	ND	7.3 J	ND	ND	ND	ND	ND	25 JD	ND
Carbon Tetrachloride	5	48	27R	86.8 D	81 D	91	76 D*	71 D	60	65	56	52	52	40	35	34	32	32	32	29
Chloroform	7	ND	3R	8.7	8.0	9.0	8 D*	7 D	7	6	ND	4	3.8 J	3.0 J	3.0 J	3.2 J	3.2 J	2.8 J	2.4 J	1.7 J
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1J	1.0 J	0.85 J	ND
Trichloroethene	5	3J	8R	16.1	35 D	37	28 D*	22 D	31	34	52	79 D	93	79	76	73	79	66	69	67
M-29D																				
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.4	4.1	4.2	4.6
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.23J	0.23 J	0.28 J	0.31 J
Acetone	50	ND	ND R	ND	ND	ND	16 D*	ND	ND	ND	ND	ND	4.4 J	ND	ND	ND	ND	5.0 J	5.0 UJ	ND
Carbon Tetrachloride	5	79	84	10.8	38 D	37	39 D*	33 D	32	34	33	32	30	27	28	27	27E	24	23	24
Chloroform	7	ND	14	ND	4.0	5.0	5 D*	4 D	3	3	ND	2	2.5	2.7	2.8	2.4	2.1	1.4	1.2	0.96 J
cis-1,2-Dichloroethene Trichloroethene	ND 5	ND 19	ND 24	ND 6.0	ND 14	ND 13	ND 14 D*	ND 12 D	ND 11	ND 11	ND 11	ND 10	ND 11	ND 16	ND 21	ND 22	0.19J 25E	0.14 J 23	0.12 J 24	ND 25 E
Trenoroenene	5	17	24	0.0	14	15	14 D	12.0	11	11	11	10	11	10	21	22	2.512	25	24	25 E
13D																				
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1J	5.0 J	ND	1.4 J
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.99J	ND	0.31 J	0.68 J
Chloroform Chromium	ND 50*	ND 98.4	ND 38.9 J	ND 4.5 P	ND 70.2	ND 60.8 J	ND	ND 17.1	ND 25.3	ND 5.2B	ND 13.2	ND 7.3	ND 7.1	ND 4.0 J	ND 3.4 J	ND 16.1	0.16J ND	ND 3.6 J	ND 6.1 J	0.13 J
Hexavalent Chromium	50*	98.4 NA	NA	4.5 B 10 U	78.3 10 U	10 U	11 10 U	14.2	23.5 10 U	10 U	15.2 10 U	10 U	10 U	4.0 J 10 U	10 U	10.1 10 UJ	ND	0.010 J	ND	6.6 J ND
vtes: itis are µg/l (ppb) unless ot ily detected compounds are e Remedial Investigation re A = Not analyzed. D = Not detected. S = Not sampled. = The reported value is less = Duplicate sample. = Estimated concentration: = Analysis rejected * = Concentration determin Estimated concentration. = Estimated concentration. = Estimated concentration. = Estimated concentration. = Not sampled: well instal = Well Removed accordin, Based on NYSDEC Final (Impact Statement (Title 6, for comparison purposes o	listed. port for addition than the CRQL due to interferer ed from a sample due to variance led in March, 20 g io instruction b Combined Regula Chapter X, Parts	/CRDL but greater nce. e dilution. to quality 109. by Environmental Pr atory Impact and Er	rotection Agency																	

Figures

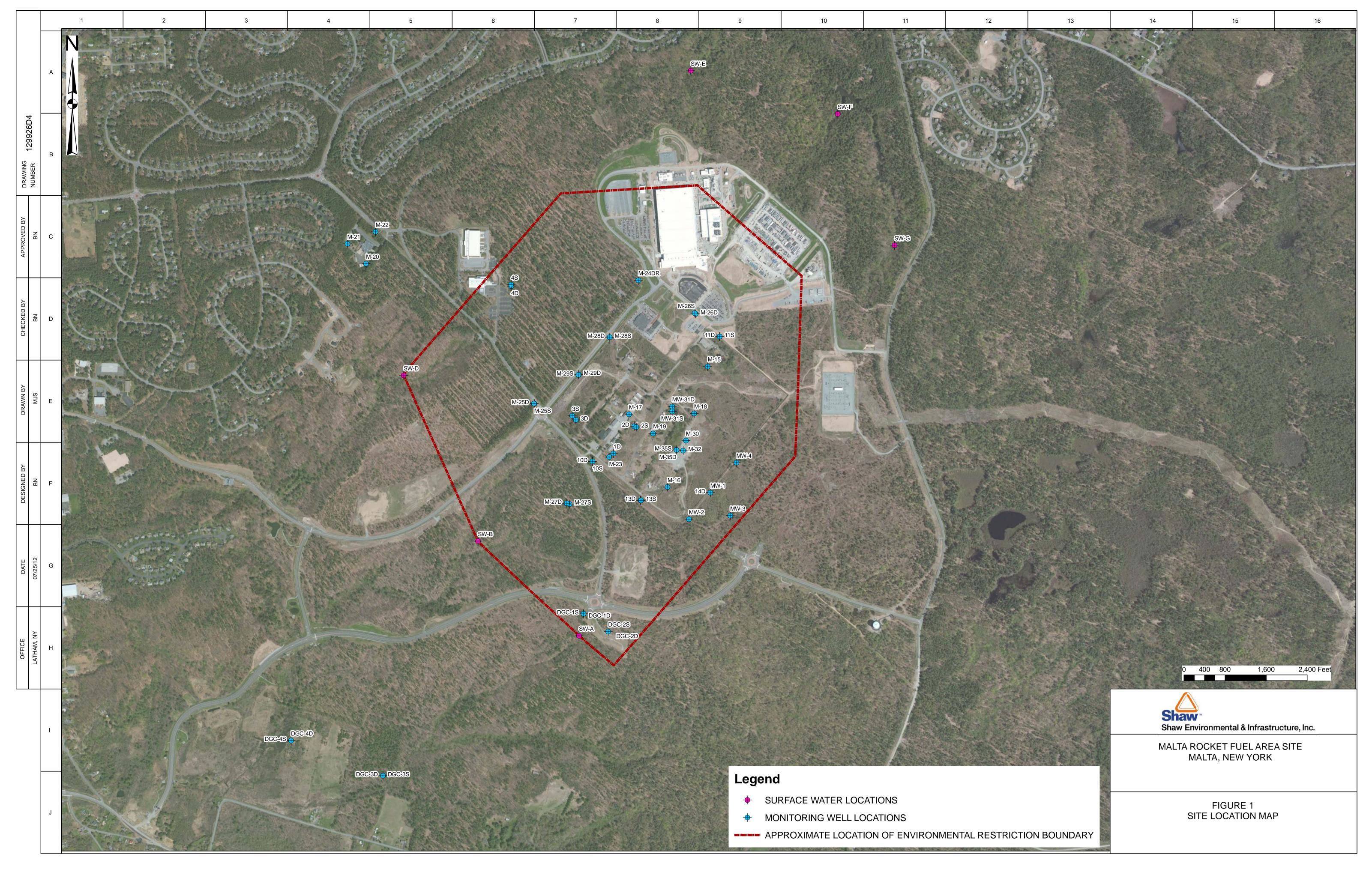


FIGURE 2 WELL M-27D CARBON TETRACHLORIDE CONCENTRATIONS

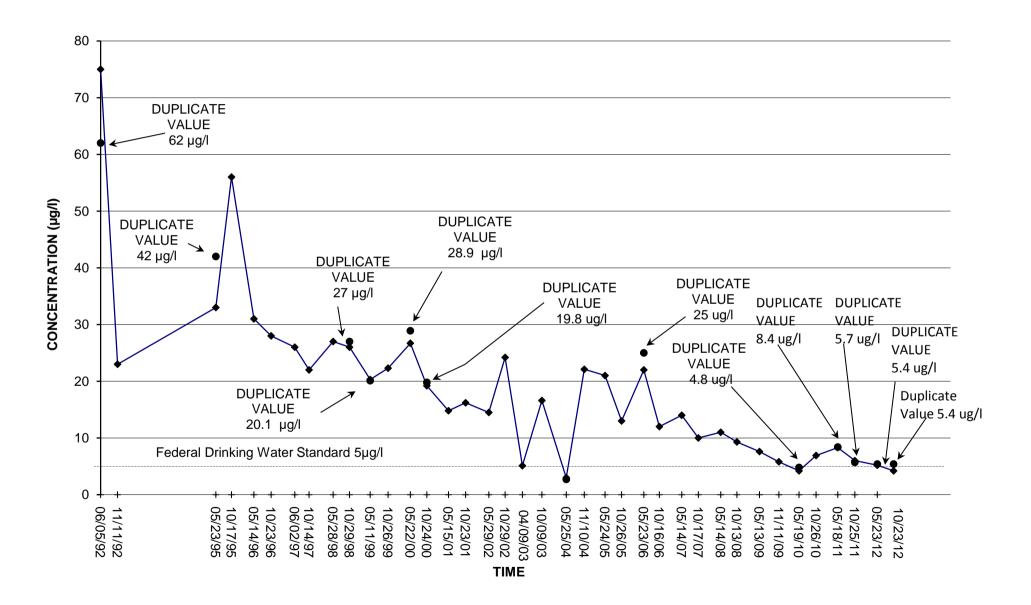
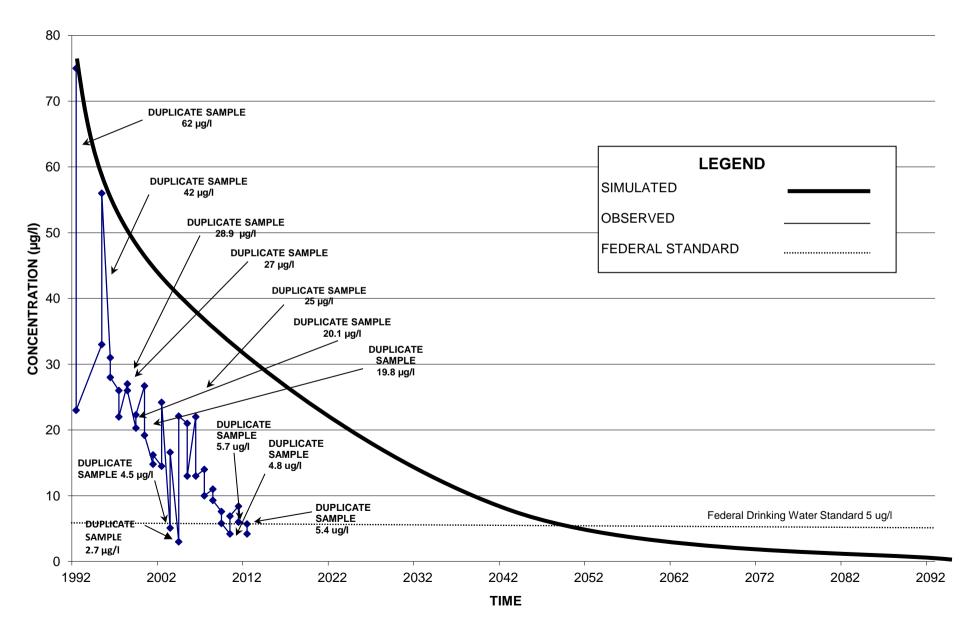
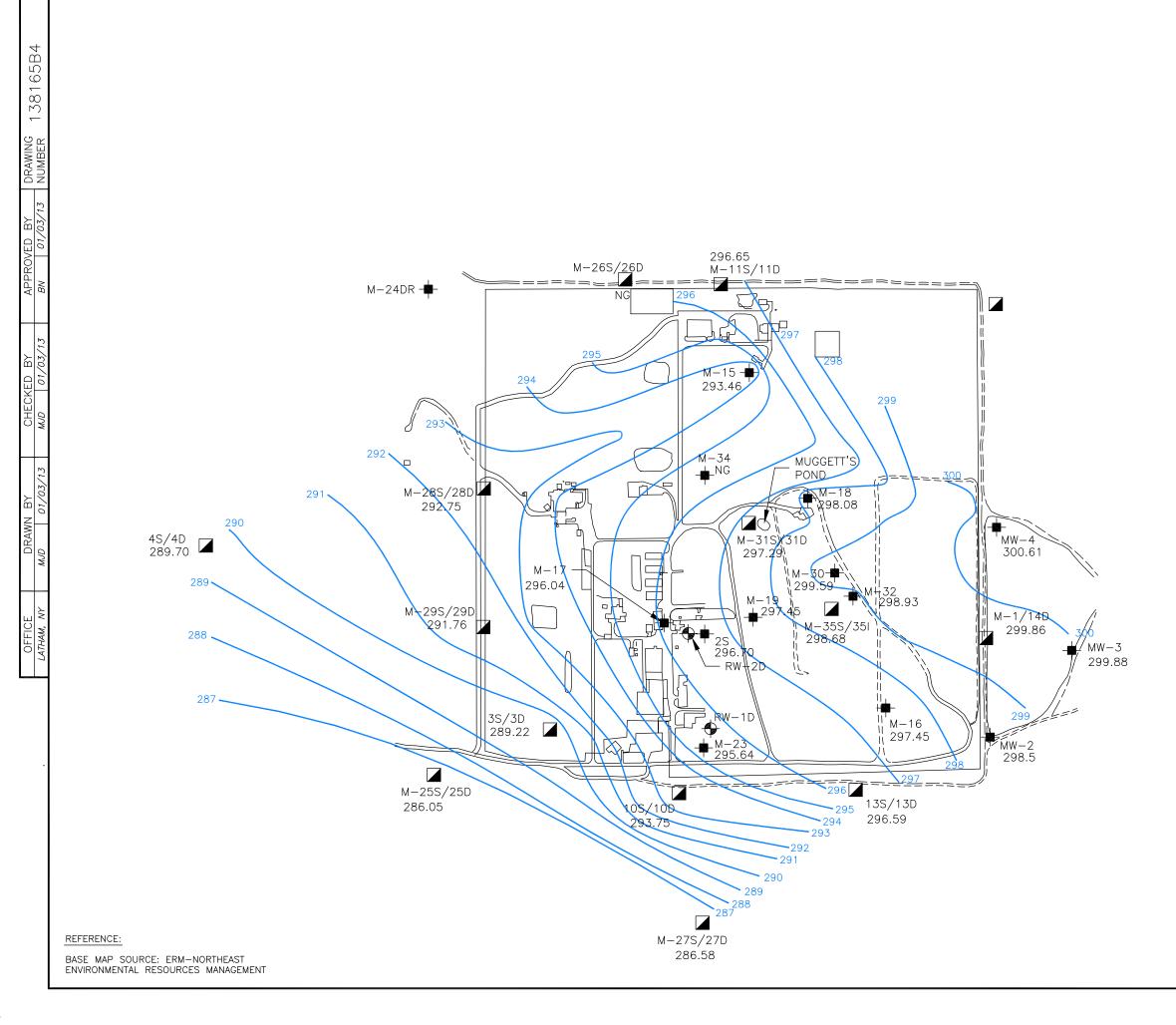
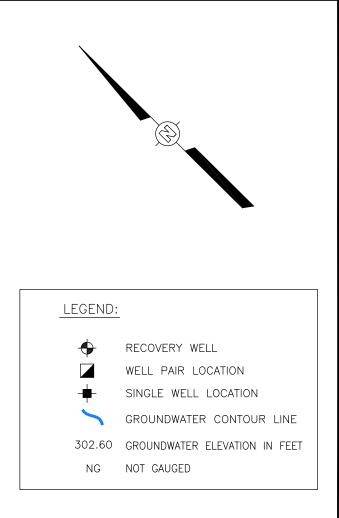


FIGURE 3 SIMULATED VERSUS OBSERVED CARBON TETRACHLORIDE CONCENTRATIONS AT WELL M-27D

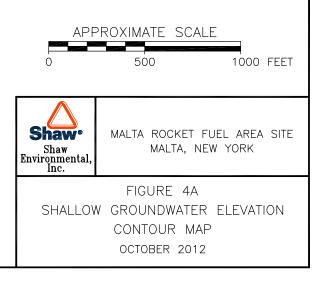


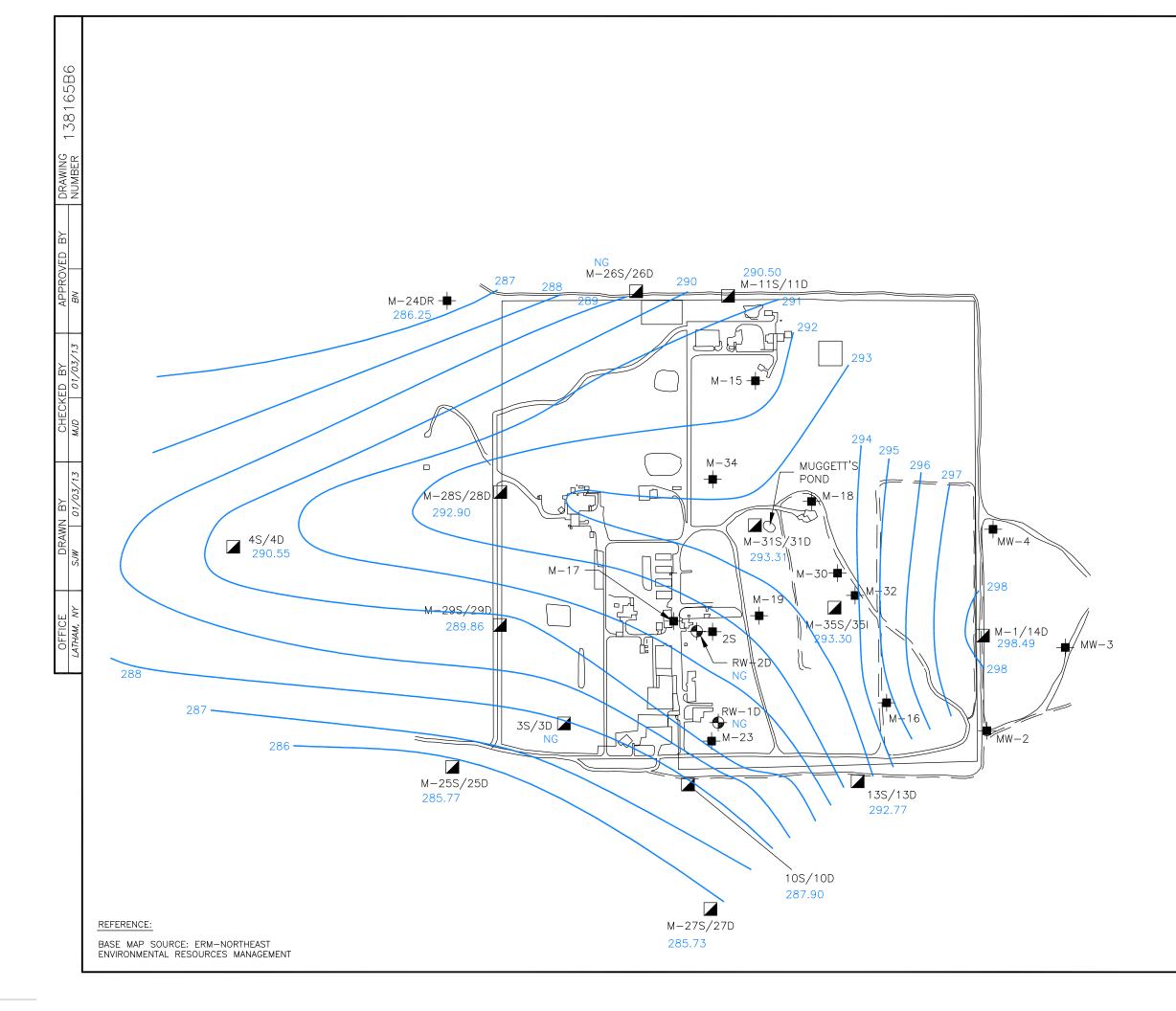




NOTE:

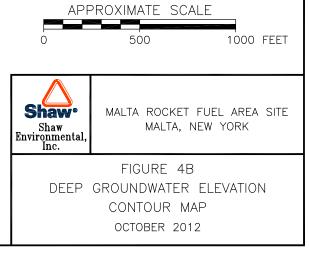
LOCATIONS OF RW-1D AND RW-2D ARE APPROXIMATE.





LEGEND:	
 ↓ → →	RECOVERY WELL WELL PAIR LOCATION SINGLE WELL LOCATION GROUNDWATER CONTOUR LINE
NG	NOT GAUGED

NOTE: LOCATIONS OF RW-1D AND RW-2D ARE APPROXIMATE.



Appendix A Laboratory Data, Groundwater Samples (October 23-24, 2012)



November 20, 2012

Mr. Brian Neumann Shaw Environmental 13 British American Blvd. Latham, NY 12110

Re: GE MRFA Project #145599.01 Service Request # R1207266

Dear Mr. Neumann:

Enclosed is the analytical data report for the above referenced facility. A total of twelve samples were received by our laboratory on October 24, 2012.

Any problems encountered with this project are addressed in a case narrative section which is presented later in this report.

This report consists of two (2) packages: the sample data package and the sample data summary package. The data package and summary package have been mailed to Judy Harry and the summary package only has been e-mailed to your attention. All data presented in this package has been reviewed prior to report submission. If you should have any questions or concerns, please contact me at (585) 288-5380.

Thank you for your continued use of our services.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

Janice M. Jaeger

Project Chemist

enc.

Page 1 of



cc: Ms. Judv Harry Data Validation Services 818 SE Downing Drive High Springs, FL 32643



ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 PHONE +1 585 288 5380 | FAX+1 585 288 8475 Columbia Analytical Services, Inc. Part of the ALS Group A Campbell Brothers Limited Company

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BIGHT SOLUTIONS BIGHT PARTNER

CASE NARRATIVE

Client:Shaw EnvironmentalProject:GE MRFASample Matrix:Water

Service Request: Project Number: Date Received: R1207266 145599.01 10/24/12

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier IV deliverables. When appropriate to the method, method blank and LCS results have been reported with each analytical test.

Sample Receipt

Samples were collected on 10/23/12 and received at CAS on 10/24/12 at a cooler temperature of 4.5 C in good condition except as noted on the cooler receipt and preservation check form. The samples were stored in a refrigerator at 1 - 6 °C upon receipt at the laboratory.

Inorganic Analysis

Samples were analyzed for a site specific list of inorganics. Please see attached data pages for method numbers.

Site specific QC was not requested on these samples.

The Method Blanks associated with these analyses were free of contamination.

No other analytical or QC problems were encountered.

Metals Analysis

Samples were analyzed for a site specific list of Metals by Methods 6010C.

Site specific QC was not requested on these samples.

All LCS recoveries were within limits.

The Method Blanks associated with these analyses were free of contamination.

No other analytical or QC problems were encountered.

Service Request #R1207266 Page 2

Volatile Organics

Samples were analyzed for a site specific list of Volatile Organics by CLP Method OLC 2.1.

All Tuning criteria for BFB were within QC limits.

All the initial calibration criteria were met for all analytes. Al Continuing Calibration Verification (CCV) standards were within 30% Difference (D) except Bromoform on the 10/31/12 CCV. All positive detections for samples associated with this CCV should be considered as estimated.

All Internal Standard Areas and surrogate standard recoveries were within QC limits.

The LCS recoveries were all acceptable.

Site specific QC was performed on M-28S as requested. All MS/MSD recoveries and RPD's were acceptable.

Various compounds for M-29D have been flagged with an "E" as being outside the calibration range of the instrument. The sample was repeated at a dilution and both sets of data have been reported out.

The Method Blanks associated with these samples were free of contamination except the 10/30/12 blank had a low level detection for 1,2,3-Trichlorobenzene and the 10/31/12 blank had low level detections for 1,2,3-Trichlorobenzene and Hexachlorobutadiene. No data was affected.

No other analytical or QC problems were encountered.

<u>RSK-175</u>

Samples were analyzed for Ethane by Method RSK-175M.

All the initial and continuing calibration criteria were met for all analytes.

The LCS recoveries were all acceptable.

Site specific QC was requested on M-28S as requested. All MS/MSD recoveries and RPD's were acceptable.

The Method Blanks associated with these samples were free of contamination.

No other analytical or QC problems were encountered.

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 details conditioned above. Release of the data contained in this data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

CAS ASP/CLP Batching Form/Login Sheet

Client Proj #: 145599.01	Batch Complete: Yes	Date Revised:
Submission: R1207266	Diskette Requested: No	
Client: Shaw Environmental & Infrastructu		Date Due: 11/14/12
Client Rep: JJAEGER	Custody Seal: Present/Absent:	Protocol: EPA
Project: GE MRFA	÷	Shipping No.:
	Chain of Custody: Present/Absent:	SDG #: M-25D

CAS Job #	Client/EPA ID	Matrix	Requested Parameters	Date Sampled	Date Received	pH (Solids)	% Solids	Remarks Sample Condition
R1207266-001	M-25D	Water	RSK 175, CLP-VOA OLC02.1	10/23/12	10/24/12	(001100)		cample condition
R1207266-002	M-29D	Water	RSK 175, CLP-VOA OLC02.1	10/23/12	10/24/12			
R1207266-002.R01		Water	CLP-VOA OLC02.1	10/23/12	10/24/12		—· —-	
R1207266-003	M-24DR	Water	RSK 175, CLP-VOA OLC02.1	10/23/12	10/24/12			
R1207266-004	<u>1</u> 1D	Water	RSK 175, CLP-VOA OLC02.1	10/23/12	10/24/12			
R1207266-005	M-1	Water	RSK 175, CLP-VOA OLC02.1	10/23/12	10/24/12			······
R1207266-006	MW-4	Water	RSK 175, CLP-VOA OLC02.1	10/23/12	10/24/12			· · · _ · _ · _ · _ · _ · _ ·
R1207266-007	105	Water	RSK 175, CLP-VOA OLC02.1	10/23/12	10/24/12			
R1207266-008QC		Water	RSK 175, CLP-VOA OLC02.1	10/23/12	10/24/12			
R1207266-009	13S	Water	RSK 175, CLP-VOA OLC02.1	10/23/12	10/24/12			
R1207266-010	13D	Water	7196A, RSK 175, CLP-VOA	10/23/12	10/24/12			
			OLC02.1, 6010C		10/2 11 12		1	
R1207266-011	DUPB	Water	RSK 175, CLP-VOA OLC02.1	10/23/12	10/24/12			·
R1207266-012	TRIP BLANK	Water	CLP-VOA OLC02.1	10/23/12	10/24/12		ł	
R1207266-013	COOLER BLANK	Water	CLP-VOA OLC02.1	10/23/12	10/24/12			

Folder Comments: need extra 3 compounds, e-mail invoices to Karen and Steve



REPORT QUALIFIERS

- U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
- J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
- * Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
- H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
- # Spike was diluted out.
- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% (25% for CLP) difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
- X See Case Narrative for discussion.



Rochester Lab ID # for State Certifications¹

	the fixed beaute Coll (1)	ucations.
NELAP Accredited	Maine ID #NY0032	New Hampshire ID #
Connecticut ID # PH0556	Nebraska Accredited	294100 A/B
Delaware Accredited	Nevada ID # NY-00032	North Carolina #676
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047		Virginia #460167

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the laboratory case narrative provided. For a specific list of accredited analytes, refer to <u>http://alsglobal.com/environmental/laboratories/rochester-environmental-lab.aspx</u>

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM 3896

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE

E OF

1. 1. 10

Project Name MRFA Project Number 145599.01		ANALYSIS REQUESTED (Include Method Number and Container Preservative)												
Project Manager										ber and t	Sontair Ti	ier Pre	servative)	
Brian Neumann Matt Dugas		PRESE	RVATIVE	1					1					
Company/Address Shaw Environmental Inc		ی م	,	[]	11	7		7 /	-5/	7			Preserva 0, NON	tive Key
		OF CONTAINERS	/	'/				Beer 11 .					1. HCL 2. HNO;	
	<u>\</u>	ATNO	1	\sim		/ /	30)))	/ /	/ /		/	3. H ₂ SC 4. NaOH	Ď4
Lathan Ny 12110]	Ц Ц		¥_ /	PESTICIOE * 8001 002 * 8001 002 * 8001 * 8002 * 8002 * 8002 * 8002 * 8002 * 8002 * 8002 * 8001 * 8002 * 8		1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	18	/ /				5. Zn. A 6. MeOl	cetate
Phone # 518 785 2354 Ernail brign.neumann Oshaw Sampler's Signature		Ë	60115 VOIS	08700 8104 90 VO4 807 VO4		3/2		u.		/ /	' /		/ 7. NaHS	SO4
Sampler's Signature	Grip. Cour	NUMBER	200					<u> </u>	/ /	/ /			8. Other	
FOR OFFICE USE SAMPLING		- / (<u>9 %/ 6 /</u>	<u>%</u> /%%	<u> </u>	123/	<u> </u>	7	<u> </u>		/		REMARKS/	RIPTION
CLIENT SAMPLE ID ONLY LAB ID DATE TIME	MATRIX													
M-25 D 10/23/12 0930	GW	6	\times				X							
M-29 D 1010		6)	\times				X							
M-24 DR 1040		<u>6</u>	X				X							
110 1/20	┥┦┥	6	<u>X</u>		-		<u> </u>							
M-1 1200			X				<u> </u>			_				
MW-4 1230 105 1330	+ $+$ $+$	6	<u>×</u>				<u> </u>			_				
M-285 ms/ms/ 1350		6	<u>X </u>	+ +			X X				- <u> </u>		MS /MS	
13.5			$\frac{x}{x}$	┥╴┤		(2)	$-\hat{\mathbf{x}}$						MS/MS	<u>, 17</u>
13D 1450	┿╉╏		х́Г	┥╌┤		X								
DUPB	V		X	11			T X							
SPECIAL INSTRUCTIONS/COMMENTS	•.		Т	TURNARG	UND REQU	IREMEN	rs	REPO	ORT REQ	VIREMEN	ITS	<u>'</u>	INVOICE INFORMAT	
Merals - Chromium and Cr.6				RUSH	(SURCHARGE	S APPLY)		I. Resu	its Only					
Metals_Chromium and Cr-6 - Vinyl chbride and Ethan TCE				1 day	2 day	3 day	L		uits + QC S	iummaries ISD as requir		PO	,	
- Vinyl chorice and ernice		0,	_	-	5 day	- ۸ -	, .			and Calibrati	·	BILL	TO:	
TCE					Hard "	-	• -	Summ					<u></u> ,	
				QUESTED				IV. Dat	a Validatior	Report with	Raw Dat	ta		
See QAPP									1					_
STATE WHERE SAMPLES WERE COLLECTED								Edat	a <u>K</u>	Yes	12	072	266 7	
RELINQUISHED BY RECEIVED BY RE	ELINQUISHED B	Y			RECEIVED BY	(R	ELINQUIS	HED I Sha	w Envi	ronmer	ntal & Infrastructure, Inc.	
Signature Signature Signature			Signa	ature			Sian	ature		<u> </u>				
Printed Marrow A				ed Name				ed Name		`	A LASUE (ed Name	
Firm Shaw Firm ALS Firm			Firm				Firm	••••		·		Firm		
Date/Time /0 + 23 - 12 1700 Date/Time () -24 - 12 9:00 Date/Time			Date/	/Time			Date	/Time				Date	/Time	

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				ooler Receipt		reservatio	n Chec	k Form		
Projec	Project/Client Shaw Environmental Folder Number R12-7266									
Cooler	Cooler received on 10-24-12 by: 12 COURIER: ALS UPS FEDEX VELOCITY CLIENT									
 Were custody seals on outside of cooler? Were custody papers properly filled out (ink, signed, etc.)? Did all bottles arrive in good condition (unbroken)? Did VOA vials, Alkalinity, or Sulfide have significant* air bubbles? YES NO Were fice or fice packs present? Where did the bottles originate? 4.5⁴ 4.5⁴ 										
	Is the tem	perat	ure v	vithin 0° - 6° C?:	Y)	es Ye	s	Yes	Yes	Yes
If No, Explain Below No No No No No Date/Time Temperatures Taken: 10-24-12 0 09123 Thermometer ID: IR GUN#3 IR GUN#4 Reading From: Temp Blank Sample Bottle If out of Temperature, note packing/ice condition & Client Approval to Run Samples:										
				ge location	$\frac{1}{R-00}$			n <u>10-24-7</u> 2	at 09	130
				brage location,	1.4	by		on	_ at	
PC Sec	ondary Re	/iew		_UNM/OB9	₩/2					
1. 2. 3.	2. Did all bottle labels and tags agree with custody papers? (ES) NO									
	Air Sample any discre			ettes / Tubes Inta	ct Ca	inisters Press		Tedlar®		
pH	Reagent	Γ		Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final	Yes = All
≥12	NaOH	YES	NO			<u> </u>	Added		pH	samples OK
<u></u>	HNO ₃	x		BDB26123E	09/13		[No =
≤2	H ₂ SO ₄									Samples
<4	NaHSO4									were preserved at
Residual Chlorine (-)	For TCN Phenol and 522			If present, contact add ascorbic acid Or sodium sulfite						lab as listed PM OK to
	$Na_2S_2O_3$	-	•					re analysis – pl		Adjust:
	Zn Aceta	-	•			on a separate	-	VOAs or Gen	Cnem	
	HCI	*	*	4111100	09/13	on a opparate				
Bottle lot	Bottle lot numbers: <u>2-206-002</u> , <u>082712-211</u> ,									

Other Comments:

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

ooso7

.

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: F	R1207266
Project:	GE MRFA/145599.01	Date Collected: 1	10/23/12 0930
Sample Matrix:	Water	Date Received: 1	10/24/12
		Date Analyzed: 1	10/30/12 16:00
Sample Name:	M-25D	Units: µ	ıg/L
Lab Code:	R1207266-001	Basis: N	NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103012\Z4054.D\

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	5.0	U	5.0	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.50	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	0.55	
75-34-3	1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	0.50	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.50	
87-61-6	1,2,3-Trichlorobenzene	5.0	U	5.0	0.55	
120-82-1	1,2,4-Trichlorobenzene	5.0	U	5.0	0.60	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	5.0	U	5.0	1.2	
106-93-4	1,2-Dibromoethane	5.0	U	5.0	0.75	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	0.50	
95-50-1	1,2-Dichlorobenzene	5.0	U	5.0	0.50	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	0.50	
541-73-1	1,3-Dichlorobenzene	5.0	U	5.0	0.50	
106-46-7	1,4-Dichlorobenzene	5.0	U	5.0	0.50	
78-93-3	2-Butanone (MEK)	25	U	25	5.1	
591-78-6	2-Hexanone	25 1	U	25	11	
108-10-1	4-Methyl-2-pentanone	25 1	U	25	4.8	
67-64-1	Acetone	25 1	U	25	5.4	
71-43-2	Benzene	5.0 1	U	5.0	0.50	
74-97-5	Bromochloromethane	5.0 1	U	5.0	0.75	
75-27-4	Bromodichloromethane	5.0 0	U	5.0	0.50	
75-25-2	Bromoform	5.0 1	U	5.0	0.75	
74-83-9	Bromomethane	5.0 1	U	5.0	1.2	
75-15-0	Carbon Disulfide	5.0 1	U	5.0	0.71	
56-23-5	Carbon Tetrachloride	29		5.0	0.50	
108-90-7	Chlorobenzene	5.0 U	U	5.0	0.50	
75-00-3	Chloroethane	5.0 T	U	5.0	0.50	
67-66-3	Chloroform	1.7 J	J	5.0	0.50	
74-87-3	Chloromethane	5.0 U	U	5.0	0.60	
156-59-2	cis-1,2-Dichloroethene	5.0 T	U	5.0	0.50	
10061-01-5	cis-1,3-Dichloropropene	5.0 T	U	5.0	0.60	· · · · · · · · · · · · · · · · · · ·
124-48-1	Dibromochloromethane	5.0 U	U	5.0	0.50	
100-41-4	Ethylbenzene	5.0 U	U	5.0	0.50	
87-68-3	Hexachlorobutadiene	5.0 U	U	5.0	0.50	
179601-23-1	m,p-Xylenes	5.0 U	U	5.0	0.60	

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207266
Project:	GE MRFA/145599.01	Date Collected: 10/23/12 0930
Sample Matrix:	Water	Date Received: 10/24/12 Date Analyzed: 10/30/12 16:00
Sample Name:	M-25D	Units: μg/L
Lab Code:	R1207266-001	Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103012\Z4054.D\

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
75-09-2	Dichloromethane (Methylene Chloride)	0.70 J	5.0	0.50	
95-47-6	o-Xylene	5.0 U	5.0	0.50	
100-42-5	Styrene	5.0 U	5.0	0.50	
127-18-4	Tetrachloroethene (PCE)	5.0 U	5.0	0.50	· · · · · · · · · · · · · · · · · · ·
108-88-3	Toluene	5.0 U	5.0	0.50	
156-60-5	trans-1,2-Dichloroethene	5.0 U	5.0	0.50	
10061-02-6	trans-1,3-Dichloropropene	5.0 U	5.0	0.50	, <u>,</u> ,
79-01-6	Trichloroethene (TCE)	67	5.0	0.50	
75-69-4	Trichlorofluoromethane (CFC 11)	5.0 U	5.0	0.50	
75-01-4	Vinyl Chloride	5.0 U	5.0	0.50	· · ·

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	80-120	10/30/12 16:00	



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Analytical Report

Client: Project:	Shaw Environmental & Infrastructure, Inc. GE MRFA/145599.01	Service Request: Date Collected:				
Sample Matrix:	Water	Date Received:	10/24/12			
		Date Analyzed:	10/30/12 1600			
	Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS					
Sample Name:	M-25D	Units:	μg/L			
Lab Code:	R1207266-001	Basis:	NA			

Analytical Method: CLP-VOA OLC02.1

CAS # Analyte Name	RT	Result Q
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No Tentatively Identified Compounds Detected.

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207266
Project:	GE MRFA/145599.01	Date Collected: 10/23/12 1010
Sample Matrix:	Water	Date Received: 10/24/12
-		Date Analyzed: 10/30/12 13:22
Sample Name:	M-29D	Units: µg/L
Lab Code:	R1207266-002	Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103012\Z4049.D\

Analysis Lot: 316079 Instrument Name: R-MS-06

Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	4.6	1.0	0.10	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.10	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.11	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.10	
75-35-4	1,1-Dichloroethene (1,1-DCE)	0.31 J	1.0	0.10	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.12	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.24	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.15	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.10	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.10	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.10	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.10	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	1,1	
591-78-6	2-Hexanone	5.0 U	5.0	2.1	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.95	
67-64-1	Acetone	5.0 U	5.0	1.1	
71-43-2	Benzene	1.0 U	1.0	0.10	
74-97-5	Bromochloromethane	1.0 U	1.0	0.15	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.15	
74-83-9	Bromomethane	1.0 U	1.0	0.23	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	24	1.0	0.10	
108-90-7	Chlorobenzene	1.0 U	1.0	0.10	
75-00-3	Chloroethane	1.0 U	1.0	0.10	
67-66-3	Chloroform	0.96 J	1.0	0.10	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.12	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.10	
100-41-4	Ethylbenzene	1.0 U	1.0	0.10	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	
179601-23-1	m,p-Xylenes	1.0 U	1.0	0.12	
	· · ·				

Client: Project: Sample Matrix:	Shaw Environmental & Infrastructure, Inc. GE MRFA/145599.01 Water	Service Request: Date Collected: Date Received: Date Analyzed:	10/23/12 1010 10/24/12
Sample Name:	M-29D	Units:	μg/L
Lab Code:	R1207266-002	Basis:	

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103012\Z4049.D\

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.10	
95-47-6	o-Xylene	1.0 U	1.0	0.10	
100-42-5	Styrene	1.0 U	1.0	0.10	
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10	
108-88-3	Toluene	1.0 U	1.0	0.10	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.10	
79-01-6	Trichloroethene (TCE)	25 E	1.0	0.10	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.10	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.10	· · · · · · · · · · · · · · · · · · ·

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	80-120	10/30/12 13:22	

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Analytical Report

Client: Project: Sample Matrix:	Shaw Environmental & Infrastructure, Inc. GE MRFA/145599.01 Water	Service Request: Date Collected: Date Received: Date Analyzed:	10/23/12 10/24/12
	Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS		
Sample Name: Lab Code: Analytical Method:	M-29D R1207266-002 CLP-VOA OLC02.1	Units: Basis:	• =

Result Q

RT

No Tentatively Identified Compounds Detected.

Comments:

CAS#

Analyte Name

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207266
Project:	GE MRFA/145599.01	Date Collected: 10/23/12 1010
Sample Matrix:	Water	Date Received: 10/24/12
		Date Analyzed: 10/30/12 18:59
Sample Name:	M-29D	Units: µg/L
Lab Code:	R1207266-002	Basis: NA
Run Type:	Dilution	

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103012\Z4059.D\

79-34-5 1,1,2,2-Tetrachloroethame 2.0 U 2.0 0.20 79-00-5 1,1,2-Trichloroethame 2.0 U 2.0 0.22 75-34-3 1,1-Dichloroethame (1,1-DCA) 2.0 U 2.0 0.20 87-61-6 1,2,3-Trichloroethane (1,1-DCE) 0.34 DJ 2.0 0.20 87-61-6 1,2,3-Trichloroethane 2.0 U 2.0 0.22 120-82-1 1,2,4-Trichlorobenzene 2.0 U 2.0 0.24 96-12-8 1,2-Dichloroethane 2.0 U 2.0 0.30 107-06-2 1,2-Dichloroethane 2.0 U 2.0 0.20 95-50-1 1,2-Dichlorobenzene 2.0 U 2.0 0.20 541-73-1 1,3-Dichlorobenzene 2.0 U 2.0 0.20 541-73-1 1,3-Dichlorobenzene 2.0 U 2.0 0.20 541-73-1 1,3-Dichlorobenzene 2.0 U 2.0 0.20 74-93-3 2-Butanone (MEK) 10 U 10 2.1 174-32	CAS No.	Analyte Name	Result Q	MRL	MDL	Note
79-00-5 1,1,2-Trichloroethane 2.0 U 2.0 0.22 75-34-3 1,1-Dichloroethane (1,1-DCA) 2.0 U 2.0 0.20 75-35-4 1,1-Dichloroethane (1,1-DCE) 0.34 DJ 2.0 0.20 75-35-4 1,2,3-Trichlorobenzene 2.0 U 2.0 0.22 120-82-1 1,2,4-Trichlorobenzene 2.0 U 2.0 0.48 106-93-4 1,2-Dichorono-3-chloropropane (DBCP) 2.0 U 2.0 0.30 107-06-2 1,2-Dichlorobenzene 2.0 U 2.0 0.20 95-50-1 1,2-Dichlorobenzene 2.0 U 2.0 0.20 541-75-1 1,3-Dichlorobenzene 2.0 U 2.0 0.20 78-93-3 2-Butanone (MEK) 10 U 10 2.1 108-10-1 4-Methyl-2-pentanone 10 U 10 4.2 108-10-1 4-Methyl-2-pentanone 10 U 10 1.2 174-3-2 Benzene 2.0 U 2.0 0.30 75-27-4 <td>71-55-6</td> <td>1,1,1-Trichloroethane (TCA)</td> <td>4.2 D</td> <td>2.0</td> <td>0.20</td> <td></td>	71-55-6	1,1,1-Trichloroethane (TCA)	4.2 D	2.0	0.20	
75-34-3 1,1-Dichloroethene (1,1-DCA) 2.0 U 2.0 0.20 75-35-4 1,1-Dichloroethene (1,1-DCE) 0.34 DJ 2.0 0.20 87-61-6 1,2,3-Trichlorobenzene 2.0 U 2.0 0.22 96-12-8 1,2-Dibrome-3-chloropropane (DBCP) 2.0 U 2.0 0.48 106-93-4 1,2-Dibrome-3-chloropropane (DBCP) 2.0 U 2.0 0.20 95-10-1 1,2-Dichlorobenzene 2.0 U 2.0 0.20 95-30-1 1,2-Dichlorobenzene 2.0 U 2.0 0.20 78-87-5 1,2-Dichlorobenzene 2.0 U 2.0 0.20 541-73-1 1,3-Dichlorobenzene 2.0 U 2.0 0.20 546-7 1,4-Dichlorobenzene 2.0 U 2.0 0.20 591-78-6 2-Hexanone 10 U 10 2.1 591-78-6 2-Hexanone 10 U 10 2.2 71-43-2 Benzene 2.0 U 2.0 0.20 75-25-2 <						
75-35-4 1,1-Dichloroethene (1,1-DCE) 0.34 DJ 2.0 0.20 87-61-6 1,2,3-Trichlorobenzene 2.0 U 2.0 0.22 120-82-1 1,2,4-Trichlorobenzene 2.0 U 2.0 0.24 96-12-8 1,2-Dibrome-3-chloropropane (DBCP) 2.0 U 2.0 0.48 106-93-4 1,2-Dichloroethane 2.0 U 2.0 0.20 95-50-1 1,2-Dichloroethane 2.0 U 2.0 0.20 95-50-1 1,2-Dichloroethane 2.0 U 2.0 0.20 78-87-5 1,2-Dichlorobenzene 2.0 U 2.0 0.20 541-73-1 1,3-Dichlorohenzene 2.0 U 2.0 0.20 78-93-3 2-Butanone (MEK) 10 U 10 2.1 591-78-6 2-Hexanone 10 U 10 2.2 71-43-2 Benzene 2.0 U 2.0 0.30 75-27-4 Bromodichloromethane 2.0 U 2.0 0.30 75-25-2 Bromoform <td>79-00-5</td> <td>1,1,2-Trichloroethane</td> <td>2.0 U</td> <td>2.0</td> <td>0.22</td> <td></td>	79-00-5	1,1,2-Trichloroethane	2.0 U	2.0	0.22	
87-61-6 1,2,3-Trichlorobenzene 2.0 U 2.0 0.22 120-82-1 1,2,4-Trichlorobenzene 2.0 U 2.0 0.24 96-12-8 1,2-Dibromo-3-chloropropane (DBCP) 2.0 U 2.0 0.48 106-93-4 1,2-Dibromoethane 2.0 U 2.0 0.20 95-50-1 1,2-Dichlorobenzene 2.0 U 2.0 0.20 78-87-5 1,2-Dichlorobenzene 2.0 U 2.0 0.20 78-93-3 2-Butanone (MEK) 10 U 10 4.2 71-43-2 Benzene 2.0 U 2.0 0.20 75-27-4 Bromodichloro	75-34-3	1,1-Dichloroethane (1,1-DCA)	2.0 U	2.0	0.20	
120-82-1 1,2,4-Trichlorobenzene 2.0 U 2.0 0.24 96-12-8 1,2-Dibromo-3-chloropropane (DBCP) 2.0 U 2.0 0.48 106-93-4 1,2-Dibromoethane 2.0 U 2.0 0.30 107-06-2 1,2-Dichloroethane 2.0 U 2.0 0.20 95-50-1 1,2-Dichlorobenzene 2.0 U 2.0 0.20 78-87-5 1,2-Dichlorobenzene 2.0 U 2.0 0.20 541-73-1 1,3-Dichlorobenzene 2.0 U 2.0 0.20 78-93-3 2-Butanone (MEK) 10 U 10 2.1 591-78-6 2-Hexanone 10 U 10 4.2 108-10-1 4-Methyl-2-pentanone 10 U 10 2.2 71-43-2 Benzene 2.0 U 2.0 0.20 75-27-4 Bromochloromethane 2.0 U 2.0 0.30 75-15-0 Carbon Disulfde 2.0 U 2.0 0.20 75-15-0 Carbon Disulfde 2	75-35-4					
96-12-8 1,2-Dibromo-3-chloropropane (DBCP) 2.0 U 2.0 0.48 106-93-4 1,2-Dibromoethane 2.0 U 2.0 0.30 107-06-2 1,2-Dichlorobenzene 2.0 U 2.0 0.20 95-50-1 1,2-Dichlorobenzene 2.0 U 2.0 0.20 78-87-5 1,2-Dichlorobenzene 2.0 U 2.0 0.20 541-73-1 1,3-Dichlorobenzene 2.0 U 2.0 0.20 541-73-1 1,3-Dichlorobenzene 2.0 U 2.0 0.20 575-6 2-Hexanone 10 U 10 2.1 591-78-6 2-Hexanone 10 U 10 4.2 108-10-1 4-Methyl-2-pentanone 10 U 10 2.2 71-43-2 Benzene 2.0 U 2.0 0.30 75-27-4 Bromochloromethane 2.0 U 2.0 0.30 75-15-0 Carbon Disulfide 2.0 U 2.0 0.20 75-15-0 Carbon Tetrachloride 2.0 </td <td>87-61-6</td> <td>1,2,3-Trichlorobenzene</td> <td>2.0 U</td> <td>2,0</td> <td>0.22</td> <td></td>	87-61-6	1,2,3-Trichlorobenzene	2.0 U	2,0	0.22	
106-93-4 1,2-Dibromoethane 2.0 U 2.0 0.30 107-06-2 1,2-Dichlorobenzene 2.0 U 2.0 0.20 95-50-1 1,2-Dichloropropane 2.0 U 2.0 0.20 78-87-5 1,2-Dichloropenzene 2.0 U 2.0 0.20 541-73-1 1,3-Dichlorobenzene 2.0 U 2.0 0.20 78-87-3 2-Butanone (MEK) 10 U 10 2.1 591-78-6 2-Hexanone 10 U 10 4.2 67-64-1 Acetone 10 U 10 4.2 71-43-2 Benzene 2.0 U 2.0 0.20 75-25-2 Bromochloromethane 2.0 U 2.0 0.30 75-25-2 Bromoform 2.0 U 2.0 0.30 75-25-2 Bromoform 2.0 U 2.0 0.30 75-25-2 Bromoform 2.0 U 2.0 0.20 75-25-2 Bromoform 2.0 U 2.0 0.20	120-82-1	1,2,4-Trichlorobenzene	2.0 U	2.0	0.24	
107-06-21,2-Dichloroethane2.0U2.00.2095-50-11,2-Dichlorobenzene2.0U2.00.2078-87-51,2-Dichloropropane2.0U2.00.20541-73-11,3-Dichlorobenzene2.0U2.00.20106-46-71,4-Dichlorobenzene2.0U2.00.2078-93-32-Butanone (MEK)10U102.1591-78-62-Hexanone10U104.2108-10-14-Methyl-2-pentanone10U101.967-64-1Acetone10U102.271-43-2Benzene2.0U2.00.3075-27-4Bromochloromethane2.0U2.00.3075-25-2Bromochloromethane2.0U2.00.2075-25-2Bromoform2.0U2.00.2074-83-9Bromomethane2.0U2.00.2075-25-2Bromoform2.0U2.00.2075-25-2Bromoform2.0U2.00.2075-25-3Carbon Disulfide2.0U2.00.2075-26-3Chlorobenzene2.0U2.00.2075-00-3Chlorobenzene2.0U2.00.2076-6-3Chloroform1.0DJ2.00.2074-87-3Chloromethane2.0U2.00.2074-87-3Chloromethane2.0	96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.48	
95-50-11,2-Dichlorobenzene2.0U2.00.2078-87-51,2-Dichloropropane2.0U2.00.20541-73-11,3-Dichlorobenzene2.0U2.00.20106-46-71,4-Dichlorobenzene2.0U2.00.2078-93-32-Butanone (MEK)10U102.1591-78-62-Hexanone10U104.2108-10-14-Methyl-2-pentanone10U102.271-43-2Benzene2.0U2.00.2074-97-5Bromochloromethane2.0U2.00.3075-27-4Bromodichloromethane2.0U2.00.3074-83-9Bromodichloromethane2.0U2.00.2075-25-2Bromoform2.0U2.00.2075-25-3Carbon Disulfide2.0U2.00.2075-25-4Bromodenhane2.0U2.00.2075-25-2Bromoform2.0U2.00.2075-25-3Carbon Disulfide2.0U2.00.2075-63Chlorobenzene2.0U2.00.2075-00-3Chlorobenzene2.0U2.00.2074-87-3Chlorobenzene2.0U2.00.2074-87-3Chlorobenzene2.0U2.00.2074-87-3Chlorobenzene2.0U2.00.2074-87-3Chlor	106-93-4	1,2-Dibromoethane	2.0 U	2.0	0.30	
78-87-51,2-Dichloropropane2.0U2.00.20 $541-73-1$ 1,3-Dichlorobenzene2.0U2.00.20 $106-46-7$ 1,4-Dichlorobenzene2.0U2.00.20 $78-93-3$ 2-Butanone (MEK)10U102.1 $591-78-6$ 2-Hexanone10U104.2 $108-10-1$ 4-Methyl-2-pentanone10U101.9 $67-64-1$ Acetone10U102.2 $71-43-2$ Benzene2.0U2.00.30 $75-27-4$ Bromochloromethane2.0U2.00.30 $75-27-4$ Bromodichloromethane2.0U2.00.46 $75-15-0$ Carbon Disulfide2.0U2.00.20 $74-83-9$ Bromomethane2.0U2.00.20 $75-25-2$ Bromoform2.0U2.00.20 $75-25-2$ Bromomethane2.0U2.00.20 $75-35-3$ Carbon Disulfide2.0U2.00.20 $75-0-3$ Chlorobenzene2.0U2.00.20 $75-0-3$ Chloroform1.0DJ2.00.20 $75-65-3$ Chloroform1.0DJ2.00.20 $74-87-3$ Chloroformethane2.0U2.00.20 $74-87-3$ Chloroformethane2.0U2.00.20 $74-87-3$ Chloroformethane2.0U2.00.20<	107-06-2	1,2-Dichloroethane	2.0 U	2.0	0.20	
541-73-1 1,3-Dichlorobenzene 2.0 U 2.0 0.20 106-46-7 1,4-Dichlorobenzene 2.0 U 2.0 0.20 78-93-3 2-Butanone (MEK) 10 U 10 2.1 591-78-6 2-Hexanone 10 U 10 4.2 108-10-1 4-Methyl-2-pentanone 10 U 10 2.2 71-43-2 Benzene 2.0 U 2.0 0.20 75-25-3 Bromochloromethane 2.0 U 2.0 0.20 75-25-4 Bromodichloromethane 2.0 U 2.0 0.30 75-25-2 Bromoform 2.0 U 2.0 0.46 75-15-0 Carbon Disulfide 2.0 U 2.0 0.20 75-15-0 Carbon Tetrachloride 22 D 2.0 0.20 75-25-2 Bromomethane 2.0 U 2.0 0.20 76-23-5 Carbon Tetrachloride 22 D 2.0 0.20 75-0-3 Chlorobenzene 2.0 U	95-50-1	•	2.0 U	2.0	0.20	
106-46-71,4-Dichlorobenzene2.0U2.00.20 $78-93-3$ 2-Butanone (MEK)10U102.1 $591-78-6$ 2-Hexanone10U104.2 $108-10-1$ 4-Methyl-2-pentanone10U101.9 $67-64-1$ Acetone10U102.2 $71-43-2$ Benzene2.0U2.00.20 $75-72-4$ Bromochloromethane2.0U2.00.30 $75-25-2$ Bromochloromethane2.0U2.00.30 $74-83-9$ Bromomethane2.0U2.00.46 $75-15-0$ Carbon Disulfide2.0U2.00.20 $75-25-2$ Carbon Tetrachloride22D2.00.20 $75-35-3$ Carbon Tetrachloride22D2.00.20 $75-0-3$ Chlorobenzene2.0U2.00.20 $75-6-3$ Chloroform1.0DJ2.00.20 $74-87-3$ Chloroform1.0DJ2.00.20 $74-87-3$ Chloroform1.0DJ2.00.20 $74-87-3$ Chloromethane2.0U2.00.20 $1066-10-5$ cis-1,3-Dichlorooptene2.0U2.00.20 $1061-01-5$ cis-1,3-Dichlorooptene2.0U2.00.20 $100-41-4$ Ethylbenzene2.0U2.00.20 $100-41-4$ Ethylbenzene2.0U2.00.20<	78-87-5	1,2-Dichloropropane	2.0 U	2.0	0.20	
106-46-71,4-Dichlorobenzene2.0U2.00.20 $78-93-3$ 2-Butanone (MEK)10U102.1 $591-78-6$ 2-Hexanone10U104.2 $108-10-1$ 4-Methyl-2-pentanone10U101.9 $67-64-1$ Acetone10U102.2 $71-43-2$ Benzene2.0U2.00.20 $75-72-4$ Bromochloromethane2.0U2.00.30 $75-25-2$ Bromochloromethane2.0U2.00.30 $74-83-9$ Bromomethane2.0U2.00.46 $75-15-0$ Carbon Disulfide2.0U2.00.20 $75-25-2$ Carbon Tetrachloride22D2.00.20 $75-35-3$ Carbon Tetrachloride22D2.00.20 $75-0-3$ Chlorobenzene2.0U2.00.20 $75-6-3$ Chloroform1.0DJ2.00.20 $74-87-3$ Chloroform1.0DJ2.00.20 $74-87-3$ Chloroform1.0DJ2.00.20 $74-87-3$ Chloromethane2.0U2.00.20 $1066-10-5$ cis-1,3-Dichlorooptene2.0U2.00.20 $1061-01-5$ cis-1,3-Dichlorooptene2.0U2.00.20 $100-41-4$ Ethylbenzene2.0U2.00.20 $100-41-4$ Ethylbenzene2.0U2.00.20<	541-73-1	1,3-Dichlorobenzene	2.0 U	2.0	0.20	
591-78-6 2-Hexanone 10 U 10 4.2 108-10-1 4-Methyl-2-pentanone 10 U 10 1.9 67-64-1 Acetone 10 U 10 2.2 71-43-2 Benzene 2.0 U 2.0 0.20 74-97-5 Bromochloromethane 2.0 U 2.0 0.30 75-27-4 Bromodichloromethane 2.0 U 2.0 0.30 75-25-2 Bromoform 2.0 U 2.0 0.46 75-15-0 Carbon Disulfide 2.0 U 2.0 0.20 66-23-5 Carbon Tetrachloride 22 D 2.0 0.20 75-00-3 Chlorobenzene 2.0 U 2.0 0.20 67-66-3 Chlorobethane 2.0 U 2.0 0.20 67-66-3 Chloroform 1.0 DJ 2.0 0.20 67-66-3 Chloromethane 2.0 U 2.0 0.20 1061-01-5 cis-1,3-Dichloropropene 2.0 U 2.0 <t< td=""><td>106-46-7</td><td></td><td></td><td></td><td>0.20</td><td></td></t<>	106-46-7				0.20	
108-10-14-Methyl-2-pentanone10U101.9 $67-64-1$ Acetone10U102.2 $71-43-2$ Benzene2.0U2.00.20 $74-97-5$ Bromochloromethane2.0U2.00.30 $75-27-4$ Bromodichloromethane2.0U2.00.30 $75-25-2$ Bromoform2.0U2.00.30 $74-83-9$ Bromomethane2.0U2.00.46 $75-15-0$ Carbon Disulfide2.0U2.00.28 $56-23-5$ Carbon Tetrachloride22D2.00.20 $108-90-7$ Chlorobenzene2.0U2.00.20 $75-60-3$ Chloroform1.0DJ2.00.20 $57-66-3$ Chloroform1.0DJ2.00.20 $74-87-3$ Chloromethane2.0U2.00.20 $74-87-3$ Chloromethane2.0U2.00.20 $56-59-2$ cis-1,2-Dichloroethene2.0U2.00.20 $10061-01-5$ cis-1,3-Dichloropropene2.0U2.00.20 $10061-01-5$ cis-1,3-Dichloropropene2.0U2.00.20 $100-41-4$ Ethylbenzene2.0U2.00.20 $87-68-3$ Hexachlorobutadiene2.0U2.00.20	78-93-3	2-Butanone (MEK)	10 U	10	2.1	
108-10-14-Methyl-2-pentanone10U101.9 $67-64-1$ Acetone10U102.2 $71-43-2$ Benzene2.0U2.00.20 $74-97-5$ Bromochloromethane2.0U2.00.30 $75-27-4$ Bromodichloromethane2.0U2.00.30 $75-25-2$ Bromoform2.0U2.00.30 $74-83-9$ Bromomethane2.0U2.00.46 $75-15-0$ Carbon Disulfide2.0U2.00.28 $56-23-5$ Carbon Tetrachloride22D2.00.20 $108-90-7$ Chlorobenzene2.0U2.00.20 $75-60-3$ Chloroform1.0DJ2.00.20 $57-66-3$ Chloroform1.0DJ2.00.20 $74-87-3$ Chloromethane2.0U2.00.20 $74-87-3$ Chloromethane2.0U2.00.20 $56-59-2$ cis-1,2-Dichloroethene2.0U2.00.20 $10061-01-5$ cis-1,3-Dichloropropene2.0U2.00.20 $10061-01-5$ cis-1,3-Dichloropropene2.0U2.00.20 $100-41-4$ Ethylbenzene2.0U2.00.20 $87-68-3$ Hexachlorobutadiene2.0U2.00.20	591-78-6	2-Hexanone	10 U	10	4.2	· · · · · · · · · · · · · · · · · · ·
67-64-1 Acetone 10 U 10 2.2 71-43-2 Benzene 2.0 U 2.0 0.20 74-97-5 Bromochloromethane 2.0 U 2.0 0.30 75-27-4 Bromodichloromethane 2.0 U 2.0 0.20 75-27-4 Bromodichloromethane 2.0 U 2.0 0.20 75-25-2 Bromoform 2.0 U 2.0 0.30 74-83-9 Bromomethane 2.0 U 2.0 0.46 75-15-0 Carbon Disulfide 2.0 U 2.0 0.20 75-25-2 Bromorethane 2.0 U 2.0 0.20 76-23-5 Carbon Tetrachloride 22 D 2.0 0.20 108-90-7 Chlorobenzene 2.0 U 2.0 0.20 75-66-3 Chloroform 1.0 DJ 2.0 0.20 74-87-3 Chloromethane 2.0 U 2.0 0.20 1061-01-5 cis-1,2-Dichloroethene 2.0 U 2.0 0.20 10061-01-5 cis-1,3-Dichloropropene 2.0 U 2.0 0.20 10061-01-5 cis-1,3-Dichloropropene 2.0 U 2.0 0.20	108-10-1	4-Methyl-2-pentanone				
74-97-5Bromochloromethane2.0U2.00.3075-27-4Bromodichloromethane2.0U2.00.2075-25-2Bromoform2.0U2.00.3074-83-9Bromomethane2.0U2.00.4675-15-0Carbon Disulfide2.0U2.00.2856-23-5Carbon Tetrachloride22D2.00.20108-90-7Chlorobenzene2.0U2.00.2075-66-3Chloroform1.0DJ2.00.2067-66-3Chloroform1.0DJ2.00.201061-01-5cis-1,2-Dichloroethene2.0U2.00.24124-48-1Dibromochloromethane2.0U2.00.20100-41-4Ethylbenzene2.0U2.00.2087-68-3Hexachlorobutadiene2.0U2.00.20	67-64-1	Acetone	10 U	10	2.2	
75-27-4 Bromodichloromethane 2.0 U 2.0 0.20 75-25-2 Bromoform 2.0 U 2.0 0.30 74-83-9 Bromomethane 2.0 U 2.0 0.46 75-15-0 Carbon Disulfide 2.0 U 2.0 0.28 56-23-5 Carbon Tetrachloride 22 D 2.0 0.20 108-90-7 Chlorobenzene 2.0 U 2.0 0.20 67-66-3 Chloroform 1.0 DJ 2.0 0.20 67-66-3 Chloroform 1.0 DJ 2.0 0.20 156-59-2 cis-1,2-Dichloroethane 2.0 U 2.0 0.20 10061-01-5 cis-1,3-Dichloropropene 2.0 U 2.0 0.20 10061-01-5 cis-1,3-Dichloropropene 2.0 U 2.0 0.20 10061-01-5 cis-1,3-Dichloropropene 2.0 U 2.0 0.20 100-41-4 Ethylbenzene 2.0 U 2.0 0.20 100-41-4 Ethylbenzene 2.0	71-43-2	Benzene	2.0 U	2.0	0.20	
75-25-2 Bromoform 2.0 U 2.0 0.30 74-83-9 Bromomethane 2.0 U 2.0 0.46 75-15-0 Carbon Disulfide 2.0 U 2.0 0.28 56-23-5 Carbon Tetrachloride 22 D 2.0 0.20 108-90-7 Chlorobenzene 2.0 U 2.0 0.20 75-00-3 Chloroform 2.0 U 2.0 0.20 67-66-3 Chloroform 1.0 DJ 2.0 0.20 67-66-3 Chloroform 1.0 DJ 2.0 0.20 156-59-2 cis-1,2-Dichloroethene 2.0 U 2.0 0.20 10061-01-5 cis-1,3-Dichloropropene 2.0 U 2.0 0.20 10061-01-5 cis-1,3-Dichloropropene 2.0 U 2.0 0.20 100-41-4 Ethylbenzene 2.0 U 2.0 0.20 87-68-3 Hexachlorobutadiene 2.0 U 2.0 0.20	74-97-5	Bromochloromethane	2.0 U	2.0	0.30	
74-83-9Bromomethane2.0U2.00.4675-15-0Carbon Disulfide2.0U2.00.2856-23-5Carbon Tetrachloride 22 D2.00.20108-90-7Chlorobenzene2.0U2.00.2075-00-3Chloroethane2.0U2.00.2067-66-3Chloromethane2.0U2.00.2067-66-3Chloromethane2.0U2.00.24156-59-2cis-1,2-Dichloroethene2.0U2.00.2010061-01-5cis-1,3-Dichloropropene2.0U2.00.20100-41-4Ethylbenzene2.0U2.00.2087-68-3Hexachlorobutadiene2.0U2.00.20	75-27-4	Bromodichloromethane	2.0 U	2.0	0.20	
75-15-0 Carbon Disulfide 2.0 U 2.0 0.28 56-23-5 Carbon Tetrachloride 22 D 2.0 0.20 108-90-7 Chlorobenzene 2.0 U 2.0 0.20 75-00-3 Chlorothane 2.0 U 2.0 0.20 67-66-3 Chloroform 1.0 DJ 2.0 0.20 74-87-3 Chloromethane 2.0 U 2.0 0.20 10061-01-5 cis-1,2-Dichloroethene 2.0 U 2.0 0.20 10061-01-5 cis-1,3-Dichloropropene 2.0 U 2.0 0.20 10061-01-5 cis-1,3-Dichloropropene 2.0 U 2.0 0.20 100-41-4 Ethylbenzene 2.0 U 2.0 0.20 87-68-3 Hexachlorobutadiene 2.0 U 2.0 0.20	75-25-2	Bromoform	2.0 U	2.0	0.30	
56-23-5 Carbon Tetrachloride 22 D 2.0 0.20 108-90-7 Chlorobenzene 2.0 U 2.0 0.20 75-00-3 Chloroethane 2.0 U 2.0 0.20 67-66-3 Chloroform 1.0 DJ 2.0 0.20 67-66-3 Chloromethane 2.0 U 2.0 0.20 67-66-3 Chloromethane 2.0 U 2.0 0.20 67-66-3 Chloromethane 2.0 U 2.0 0.20 74-87-3 Chloromethane 2.0 U 2.0 0.24 156-59-2 cis-1,2-Dichloroethene 2.0 U 2.0 0.20 10061-01-5 cis-1,3-Dichloropropene 2.0 U 2.0 0.24 124-48-1 Dibromochloromethane 2.0 U 2.0 0.20 100-41-4 Ethylbenzene 2.0 U 2.0 0.20 87-68-3 Hexachlorobutadiene 2.0 U 2.0 0.20	74-83-9	Bromomethane	2.0 U	2.0	0.46	
108-90-7 Chlorobenzene 2.0 U 2.0 0.20 75-00-3 Chloroethane 2.0 U 2.0 0.20 67-66-3 Chloroform 1.0 DJ 2.0 0.20 74-87-3 Chloromethane 2.0 U 2.0 0.20 156-59-2 cis-1,2-Dichloroethene 2.0 U 2.0 0.20 10061-01-5 cis-1,3-Dichloropropene 2.0 U 2.0 0.20 124-48-1 Dibromochloromethane 2.0 U 2.0 0.20 100-41-4 Ethylbenzene 2.0 U 2.0 0.20 87-68-3 Hexachlorobutadiene 2.0 U 2.0 0.20	75-15-0	Carbon Disulfide	2.0 U	2.0	0.28	
75-00-3 Chloroethane 2.0 U 2.0 0.20 67-66-3 Chloroform 1.0 DJ 2.0 0.20 74-87-3 Chloromethane 2.0 U 2.0 0.24 156-59-2 cis-1,2-Dichloroethene 2.0 U 2.0 0.20 10061-01-5 cis-1,3-Dichloropropene 2.0 U 2.0 0.24 124-48-1 Dibromochloromethane 2.0 U 2.0 0.20 100-41-4 Ethylbenzene 2.0 U 2.0 0.20 87-68-3 Hexachlorobutadiene 2.0 U 2.0 0.20	56-23-5	Carbon Tetrachloride	22 D	2.0	0.20	
67-66-3Chloroform1.0DJ2.00.2074-87-3Chloromethane2.0U2.00.24156-59-2cis-1,2-Dichloroethene2.0U2.00.2010061-01-5cis-1,3-Dichloropropene2.0U2.00.24124-48-1Dibromochloromethane2.0U2.00.20100-41-4Ethylbenzene2.0U2.00.2087-68-3Hexachlorobutadiene2.0U2.00.20	108-90-7		2.0 U			
74-87-3 Chloromethane 2.0 U 2.0 0.24 156-59-2 cis-1,2-Dichloroethene 2.0 U 2.0 0.20 10061-01-5 cis-1,3-Dichloropropene 2.0 U 2.0 0.24 124-48-1 Dibromochloromethane 2.0 U 2.0 0.20 100-41-4 Ethylbenzene 2.0 U 2.0 0.20 87-68-3 Hexachlorobutadiene 2.0 U 2.0 0.20	75-00-3	Chloroethane	2.0 U	2.0	0.20	
74-87-3 Chloromethane 2.0 U 2.0 0.24 156-59-2 cis-1,2-Dichloroethene 2.0 U 2.0 0.20 10061-01-5 cis-1,3-Dichloropropene 2.0 U 2.0 0.24 124-48-1 Dibromochloromethane 2.0 U 2.0 0.20 100-41-4 Ethylbenzene 2.0 U 2.0 0.20 87-68-3 Hexachlorobutadiene 2.0 U 2.0 0.20	67-66-3	Chloroform	1.0 DJ	2.0	0.20	
156-59-2 cis-1,2-Dichloroethene 2.0 U 2.0 0.20 10061-01-5 cis-1,3-Dichloropropene 2.0 U 2.0 0.24 124-48-1 Dibromochloromethane 2.0 U 2.0 0.20 100-41-4 Ethylbenzene 2.0 U 2.0 0.20 87-68-3 Hexachlorobutadiene 2.0 U 2.0 0.20	74-87-3					
124-48-1 Dibromochloromethane 2.0 U 2.0 0.20 100-41-4 Ethylbenzene 2.0 U 2.0 0.20 87-68-3 Hexachlorobutadiene 2.0 U 2.0 0.20	156-59-2	cis-1,2-Dichloroethene				
124-48-1 Dibromochloromethane 2.0 U 2.0 0.20 100-41-4 Ethylbenzene 2.0 U 2.0 0.20 87-68-3 Hexachlorobutadiene 2.0 U 2.0 0.20	10061-01-5	cis-1,3-Dichloropropene	2.0 U	2.0	0.24	
100-41-4 Ethylbenzene 2.0 U 2.0 0.20 87-68-3 Hexachlorobutadiene 2.0 U 2.0 0.20	124-48-1					
	100-41-4					
	87-68-3	Hexachlorobutadiene	2.0 U	2.0	0.20	
	179601-23-1	m,p-Xylenes	2.0 U	2.0	0.24	

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request:	R1207266
Project:	GE MRFA/145599.01	Date Collected:	10/23/12 1010
Sample Matrix:	Water	Date Received:	10/24/12
		Date Analyzed:	10/30/12 18:59
Sample Name:	M-29D	Units:	μg/L
Lab Code:	R1207266-002	Basis:	
Run Type:	Dilution		
	Low Level Water Volatile Organic Compounds by GC/MS		

Analytical Method: Data File Name:	cal Method: CLP-VOA OLC02.1 le Name: I:\ACQUDATA\MSVOA6\DATA\103012\Z4059.D\				Analysis Lot: 316079 Instrument Name: R-MS-06 Dilution Factor: 2	
CAS No.	Analyte Name	Result Q	MRL	MDL	Note	
75-09-2	Dichloromethane (Methylene Chloride)	0.52 DJ	2.0	0.20		
95-47-6	o-Xylene	2.0 U	2.0	0.20		
100-42-5	Styrene	2.0 U	2.0	0.20		
127-18-4	Tetrachloroethene (PCE)	2.0 U	2.0	0.20		
108-88-3	Toluene	2.0 U	2.0	0.20		
156-60-5	trans-1,2-Dichloroethene	2.0 U	2.0	0.20		
10061-02-6	trans-1,3-Dichloropropene	2.0 U	2.0	0.20	· · · · · · · · · · · · · · · · · · ·	
79 - 01-6	Trichloroethene (TCE)	23 D	2.0	0.20		
75-69-4	Trichlorofluoromethane (CFC 11)	2.0 U	2.0	0.20		
75-01-4	Vinyl Chloride	2.0 U	2.0	0.20		

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	80-120	10/30/12 18:59)

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Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

Service Request: R1207266 Date Collected: 10/23/12 Date Received: 10/24/12 Date Analyzed: 10/30/12 1859

Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

Sample Name: Lab Code: Run Type:	M-29DDL R1207266-002 Dilution			Units: µg/L Basis: NA
Analytical Meth	hod: CLP-VOA OLC02.1			
CAS#	Analyte Name	RT	Result Q	

No Tentatively Identified Compounds Detected.

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request:	R1207266
Project:	GE MRFA/145599.01	Date Collected:	10/23/12 1040
Sample Matrix:	Water	Date Received:	10/24/12
		Date Analyzed:	10/30/12 13:53
Sample Name:	M-24DR	Units:	μg/L
Lab Code:	R1207266-003	Basis:	NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103012\Z4050.D\

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.10	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.10	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.11	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.10	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.10	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.12	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.24	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.15	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.10	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.10	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.10	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.10	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	1,1	
591-78-6	2-Hexanone	5.0 U	5.0	2.1	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.95	
67-64-1	Acetone	4.1 J	5.0	1.1	
71-43-2	Benzene	1.0 U	1.0	0.10	
74-97-5	Bromochloromethane	1.0 U	1.0	0.15	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.15	
74-83-9	Bromomethane	1.0 U	1.0	0.23	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	1.0	1.0	0.10	
108-90-7	Chlorobenzene	1.0 U	1.0	0.10	
75-00-3	Chloroethane	1.0 U	1.0	0.10	
67-66-3	Chloroform	1.0 U	1.0	0.10	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.12	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.10	
100-41-4	Ethylbenzene	1.0 U	1.0	0.10	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	
179601-23-1	m,p-Xylenes	1.0 U	1.0	0.12	

Client: Project: Sample Matrix:	Shaw Environmental & Infrastructure, Inc. GE MRFA/145599.01 Water	Service Request: R1207266 Date Collected: 10/23/12 1040 Date Received: 10/24/12 Date Analyzed: 10/30/12 13:53
Sample Name:	M-24DR	Units: µg/L
Lab Code:	R1207266-003	Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1 Data File Name: I:\ACQUDATA\MSVOA6\DATA\103012\Z4050.D\			Analysis Lot: 316079 Instrument Name: R-MS-06 Dilution Factor: 1			
CAS No.	Analyte Name	Result Q	MRL	MDL	Note	
75-09-2	Dichloromethane (Methylene Chloride)	1,0 U	1.0	0.10		<u> </u>
95-47-6	o-Xylene	1.0 U	1.0	0.10		
100-42-5	Styrene	1.0 U	1.0	0.10		
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10		
108-88-3	Toluene	1.0 U	1.0	0.10		
156-60-5	trans-1,2-Dichloroethene	1.0 Ū	1.0	0.10		
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.10		
79-01-6	Trichloroethene (TCE)	4.2	1.0	0.10		
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.10		
75-01-4	Vinyl Chloride	1.0 U	1.0	0.10		

Surrogate Name	%Rec	Control Limits	Date Analyzed Q
4-Bromofluorobenzene	96	80-120	10/30/12 13:53

Now part of the ALS Group

Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

Service Request: R1207266 Date Collected: 10/23/12 Date Received: 10/24/12 Date Analyzed: 10/30/12 1353

Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

Sample Name: Lab Code:	M-24DR R1207266-003		U	-	Units: µg/L Basis: NA
Analytical Met	thod: CLP-VOA OLC02.1				
CAS #	Analyte Name	RT	Result Q		

No Tentatively Identified Compounds Detected.

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207266
Project:	GE MRFA/145599.01	Date Collected: 10/23/12 1120
Sample Matrix:	Water	Date Received: 10/24/12
		Date Analyzed: 10/30/12 14:27
Sample Name:	11D	Units: µg/L
Lab Code:	R1207266-004	Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103012\Z4051.D\

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.10	<u></u>
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.10	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.11	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.10	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.10	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.12	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.24	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.15	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.10	····
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.10	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.10	
106-46 - 7	1,4-Dichlorobenzene	1.0 U	1.0	0.10	
78-93-3	2-Butanone (MEK)	5.0 U	5,0	1.1	
591-78-6	2-Hexanone	5.0 U	5.0	2.1	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.95	
57-64-1	Acetone	5.0 U	5.0	1.1	
71-43-2	Benzene	1.0 U	1.0	0.10	
74-97-5	Bromochloromethane	1.0 U	1.0	0.15	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.15	
74-83-9	Bromomethane	1.0 U	1.0	0.23	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	6.7	1.0	0.10	
08-90-7	Chlorobenzene	1.0 U	1.0	0.10	
75-00-3	Chloroethane	1.0 U	1.0	0.10	
57-66-3	Chloroform	0.56 J	1.0	0.10	
4-87-3	Chloromethane	1.0 U	1.0	0.12	
56-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.10	
0061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.12	······································
24-48-1	Dibromochloromethane	1.0 U	1.0	0.10	
00-41-4	Ethylbenzene	1.0 U	1.0	0.10	
7-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	
79601-23-1	m,p-Xylenes	1.0 U	1.0	0.12	

Client: Project:	Shaw Environmental & Infrastructure, Inc. GE MRFA/145599.01	Service Request: Date Collected:	
Sample Matrix:	Water	Date Received:	10/24/12
		Date Analyzed:	
Sample Name: Lab Code:	11D R1207266-004	Units: Basis:	. –

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103012\Z4051.D\

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.10	
95-47-6	o-Xylene	1.0 U	1.0	0.10	
100-42-5	Styrene	1.0 U	1.0	0.10	
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10	
108-88-3	Toluene	1.0 U	1.0	0.10	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.10	
79-01-6	Trichloroethene (TCE)	1.9	1.0	0.10	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.10	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.10	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	
4-Bromofluorobenzene	98	80-120	10/30/12 14:27		

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Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.
Project:	GE MRFA/145599.01
Sample Matrix:	Water

Service Request: R1207266 Date Collected: 10/23/12 Date Received: 10/24/12 Date Analyzed: 10/30/12 1427

Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

Sample Name: Lab Code:	11D R1207266-004		-	•	•	Units: Basis:	
Analytical Method:	CLP-VOA OLC02.1						
CAS# Anals	uto Nomo	DT					

CAS # Analyte Name RT Result Q

No Tentatively Identified Compounds Detected.

Comments:

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Client: Project: Sample Matrix:	Shaw Environmental & Infrastructure, Inc. GE MRFA/145599.01 Water	Service Request: Date Collected: Date Received:	10/23/12 1200 10/24/12
Sample Name: Lab Code:	M-1 R1207266-005	Date Analyzed: Units: Basis:	μg/L

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103012\Z4052.D\

CAS No.	Analyte Name	Result () MR	L MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U			
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U			
79-00-5	1,1,2-Trichloroethane	1.0 L	J <u>1.0</u>	0.11	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	J 1.0		
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U			
87-61-6	1,2,3-Trichlorobenzene	1.0 U	J 1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	J 1.0		
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U			
106-93-4	1,2-Dibromoethane	1.0 U	J 1.0	0.15	
107-06-2	1,2-Dichloroethane	1.0 U	J 1.0		
95-50-1	1,2-Dichlorobenzene	1.0 l			
78-87-5	1,2-Dichloropropane	1.0 U	J 1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	J 1.0	0.10	
106-46-7	1,4-Dichlorobenzene	1.0 U	J 1.0	0.10	
78-93-3	2-Butanone (MEK)	5.0 U	J 5.0	1.1	
591-78-6	2-Hexanone	5.0 T	J 5.0	2.1	
108-10-1	4-Methyl-2-pentanone	5.0 U	J 5.0	0.95	
67-64-1	Acetone	5.0 U	J 5.0	1.1	
71-43-2	Benzene	1.0 U	J 1.0	0.10	
74-97-5	Bromochloromethane	1.0 U	J 1.0	0.15	
75-27-4	Bromodichloromethane	1.0 U	J 1.0	0.10	
75-25-2	Bromoform	1.0 (J 1.0	0.15	
74-83-9	Bromomethane	1. 0 (J 1.0	0.23	
75-15-0	Carbon Disulfide	1.0 T	J 1.0	0.14	
56-23-5	Carbon Tetrachloride	1.0 T	J 1.0	0.10	
108-90-7	Chlorobenzene	1.0 U	J 1.0	0.10	
75-00-3	Chloroethane	1.0 U	J 1.0	0.10	
67-66-3	Chloroform	1.0 0	J 1.0	0.10	
74-87-3	Chloromethane	1.0 U	J 1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 0	J 1.0	0.10	
10061-01-5	cis-1,3-Dichloropropene	1.0 0	J 1.0	0.12	
124-48-1	Dibromochloromethane	1.0 0	J 1.0		
100-41-4	Ethylbenzene	1.0 U	J 1.0	0.10	
87-68-3	Hexachlorobutadiene	1.0 0	J 1.0	0.10	
179601-23-1	m,p-Xylenes	1.0 0			
1,7001 25 1					

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207266
Project:	GE MRFA/145599.01	Date Collected: 10/23/12 1200
Sample Matrix:	Water	Date Received: 10/24/12
		Date Analyzed: 10/30/12 15:00
Sample Name:	M-1	Units: µg/L
Lab Code:	R1207266-005	Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: Data File Name:	CLP-VOA OLC02.1 I:\ACQUDATA\MSVOA6\DATA\103012\Z4052.D\					Analysis Lot: 316079 Instrument Name: R-MS-06 Dilution Factor: 1		
CAS No.	Analyte Name	Result	Q	MRL	MDL	Note		
75-09-2	Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.10			
95-47-6	o-Xylene	1.0	U	1.0	0.10			
100-42-5	Styrene	1.0	U	1.0	0.10			
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	0.10			
108-88-3	Toluene	1.0	U	1.0	0.10			
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.10			
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.10			
79-01-6	Trichloroethene (TCE)	1.0	U	1.0	0.10			
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.10			
75-01-4	Vinyl Chloride	1.0	U	1.0	0.10			

Surrogate Name	%Rec	Control Limits	Date Analyzed Q	
4-Bromofluorobenzene	98	80-120	10/30/12 15:00	

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Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

Service Request: R1207266 Date Collected: 10/23/12 Date Received: 10/24/12 Date Analyzed: 10/30/12 1500

Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

Sample Name: Lab Code:	M-1 R1207266-005		organic compounds by CC/MS	Units: µg/L Basis: NA
Analytical Method:	CLP-VOA OLC02.1			
CAS # Anal	yte Name	RT	Result Q	

No Tentatively Identified Compounds Detected.



Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207266
Project:	GE MRFA/145599.01	Date Collected: 10/23/12 1230
Sample Matrix:	Water	Date Received: 10/24/12
		Date Analyzed: 10/30/12 15:28
Sample Name:	MW-4	Units: µg/L
Lab Code:	R1207266-006	Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02,1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103012\Z4053.D\

Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103012\Z4053.D\				Instrument Name: R-MS-06 Dilution Factor: 1			
CAS No.	Analyte Name	Result Q	MRL	MDL	Note			
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.10				
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.10				
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.11				
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.10				
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.10				
87-61-6	1,2,3-Trichlorobenzene	. 1.0 U	1.0	0.11				
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.12				
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.24				
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.15				
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.10				
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.10				
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10				
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.10				
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.10				
78-93-3	2-Butanone (MEK)	5.0 U	5.0	1.1				
591-78-6	2-Hexanone	5.0 U	5.0	2.1				
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.95				
67-64-1	Acetone	1.3 J	5.0	1.1				
71-43-2	Benzene	1.0 U	1.0	0.10				
74-97-5	Bromochloromethane	1.0 U	1.0	0.15				
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10				
75-25-2	Bromoform	1.0 U	1.0	0.15				
74-83-9	Bromomethane	1.0 U	1.0	0.23				
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14				
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.10				
108-90-7	Chlorobenzene	1.0 U	1.0	0.10				
75-00-3	Chloroethane	1.0 U	1.0	0.10				
67-66-3	Chloroform	1.0 U	1.0	0.10				
74-87 - 3	Chloromethane	1.0 U	1.0	0.12				
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.10				
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.12				
124-48-1	Dibromochloromethane	1.0 U	1.0	0.10				
100-41-4	Ethylbenzene	1.0 U	1.0	0.10				
37-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10				
170601-23-1	m n Vylenes	10 0	1.0	0.10				

m,p-Xylenes

179601-23-1

1.0 U

1.0

0.12

Analysis Lot: 316079

Client: Project: Sample Matrix:	Shaw Environmental & Infrastructure, Inc. GE MRFA/145599.01 Water	Service Request: R1207266 Date Collected: 10/23/12 1230 Date Received: 10/24/12 Date Analyzed: 10/30/12 15:28
Sample Name:	MW-4	Units: µg/L
Lab Code:	R1207266-006	Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: Data File Name:	CLP-VOA OLC02.1 I:\ACQUDATA\MSVOA6\DATA\103012\Z4053.D\				Analysis Lot: 316079 Instrument Name: R-MS-06 Dilution Factor: 1		
CAS No.	Analyte Name	Result Q	MRL	MDL	Note		
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.10			
95-47-6	o-Xylene	1.0 U	1.0	0.10			
100-42-5	Styrene	1.0 U	1.0	0.10			
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10			
108-88-3	Toluene	1.0 U	1.0	0.10			
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.10			
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.10	· · · · · · · · · · · · · · · · · · ·		
79-01-6	Trichloroethene (TCE)	1.0 U	1.0	0.10			

Trichlorofluoromethane (CFC 11)

Vinyl Chloride

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	80-120	10/30/12 15:28	

1.0 U

1.0 U

1.0

1.0

0.10

0.10

75-69-4

75-01-4



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Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

Service Request: R1207266 Date Collected: 10/23/12 Date Received: 10/24/12 Date Analyzed: 10/30/12 1528

Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

Sample Name: Lab Code:	MW-4 R1207266-006		8	•	0	s: μg/L s: NA
Analytical Method	d: CLP-VOA OLC02.1					
CAS # An	alyte Name	RT	Result Q			

No Tentatively Identified Compounds Detected.

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207266
Project:	GE MRFA/145599.01	Date Collected: 10/23/12 1330
Sample Matrix:	Water	Date Received: 10/24/12
		Date Analyzed: 10/30/12 16:36
Sample Name:	10S	Units: µg/L
Lab Code:	R1207266-007	Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103012\Z4055.D\

Analytical Method Data File Name:	CLP-VOA OLC02.1 I:\ACQUDATA\MSVOA6\DATA\103	I	Analysis Lot: 316079 Instrument Name: R-MS-06 Dilution Factor: 1		
CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.10	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.10	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.11	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.10	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.10	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.12	······
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.24	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.15	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.10	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.10	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.10	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.10	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	1.1	
591-78-6	2-Hexanone	5.0 U	5.0	2.1	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.95	
67-64-1	Acetone	1.9 J	5.0	1.1	
71-43-2	Benzene	1.0 U	1.0	0.10	
74-97-5	Bromochloromethane	1.0 U	1.0	0.15	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.15	
74-83-9	Bromomethane	1.0 U	1.0	0.23	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	2.2	1.0	0.10	
108-90-7	Chlorobenzene	1.0 U	1.0	0.10	
75-00-3	Chloroethane	1.0 U	1.0	0.10	
67-66-3	Chloroform	0.39 J	1.0	0.10	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.10	

cis-1,3-Dichloropropene

Dibromochloromethane

Hexachlorobutadiene

Ethylbenzene

m,p-Xylenes

10061-01-5

179601-23-1

124-48-1

100-41-4

87-68-3

1.0 U

1.0 U

1.0 U

1.0 U

1.0 U

1.0

1.0

1.0

1.0

1.0

0.12

0.10

0.10

0.10

0.12

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207266	
Project:	GE MRFA/145599.01	Date Collected: 10/23/12 1330	
Sample Matrix:	Water	Date Received: 10/24/12	
		Date Analyzed: 10/30/12 16:36	5
Sample Name:	10S	Units: µg/L	
Lab Code:	R1207266-007	Basis: NA	

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103012\Z4055.D\

Analysis Lot: 316079 Instrument Name: R-MS-06

Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.10	
95-47-6	o-Xylene	1.0 U	1.0	0.10	
100-42-5	Styrene	1.0 U	1.0	0.10	
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10	
108-88-3	Toluene	1.0 U	1.0	0.10	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.10	
79-01-6	Trichloroethene (TCE)	1.0 U	1.0	0.10	
75-69 - 4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.10	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.10	

Surrogate Name	%Rec	Control Limits	Date Analyzed Q	5
4-Bromofluorobenzene	97	80-120	10/30/12 16:36	
•				

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Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

Service Request: R1207266 Date Collected: 10/23/12 Date Received: 10/24/12 Date Analyzed: 10/30/12 1636

Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

Sample Name: Lab Code:	10S R1207266-007			Units: µg/L Basis: NA
Analytical Met	thod: CLP-VOA OLC02.1			
CAS #	Analyte Name	RT	Result Q	

No Tentatively Identified Compounds Detected.

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request:	R1207266
Project:	GE MRFA/145599.01	Date Collected:	10/23/12 1350
Sample Matrix:	Water	Date Received:	10/24/12
		Date Analyzed:	10/30/12 17:12
Sample Name:	M-28S	Units:	μg/L
Lab Code:	R1207266-008	Basis:	NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103012\Z4056.D\

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.10	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.10	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.11	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.10	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.10	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.12	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.24	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.15	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.10	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.10	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.10	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.10	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	1.1	
591-78-6	2-Hexanone	5.0 U	5.0	2,1	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.95	
67-64-1	Acetone	1.6 J	5.0	1.1	
71-43-2	Benzene	1.0 U	1.0	0.10	
74-97-5	Bromochloromethane	1.0 U	1.0	0.15	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.15	
74-83-9	Bromomethane	1.0 U	1.0	0.23	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	4.1	1.0	0.10	
108-90-7	Chlorobenzene	1.0 U	1.0	0.10	
75-00-3	Chloroethane	1.0 U	1.0	0.10	
67-66-3	Chloroform	0.20 J	1.0	0.10	
74-87-3	Chloromethane	0.85 J	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.12	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.10	
100-41-4	Ethylbenzene	1.0 U	1.0	0.10	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	
179601-23-1	m,p-Xylenes	1.0 U	1.0	0.12	
177001 23-1	wh when a strained		1.0	V, 14	

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207266
Project:	GE MRFA/145599.01	Date Collected: 10/23/12 1350
Sample Matrix:	Water	Date Received: 10/24/12
		Date Analyzed: 10/30/12 17:12
Sample Name:	M-28S	Units: µg/L
Lab Code:	R1207266-008	Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method Data File Name:	: CLP-VOA OLC02.1 I:\ACQUDATA\MSVOA6\DATA\103(P-VOA OLC02.1 CQUDATA\MSVOA6\DATA\103012\Z4056.D\				Analysis Lot: 316079 Instrument Name: R-MS-06 Dilution Factor: 1		
CAS No.	Analyte Name	Result	Q	MRL	MDL	Note		
75-09-2	Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.10		·····	
95-47-6	o-Xylene	1.0	U	1.0	0.10			
100-42-5	Styrene	1.0	U	1.0	0.10			
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	0.10			
108-88-3	Toluene	1.0	U	1.0	0.10			
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.10			
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.10	-		
79-01-6	Trichloroethene (TCE)	4.3		1.0	0.10			
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.10			
75-01-4	Vinyl Chloride	1.0	U	1.0	0.10			

Surrogate Name	%Rec	Control Limits	Date Analyzed Q	
4-Bromofluorobenzene	95	80-120	10/30/12 17:12	

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Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.
Project:	GE MRFA/145599.01
Sample Matrix:	Water

Service Request: R1207266 Date Collected: 10/23/12 Date Received: 10/24/12 Date Analyzed: 10/30/12 1712

Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

Sample Name Lab Code:	:: M-28S R1207266-008			Units: µg/L Basis: NA
Analytical Me	ethod: CLP-VOA OLC02.1			
CAS#	Analyte Name	RT	Result Q	
000076-13-1	Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	2.09	3.2 JN	

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207266
Project:	GE MRFA/145599.01	Date Collected: 10/23/12 1420
Sample Matrix:	Water	Date Received: 10/24/12
		Date Analyzed: 10/30/12 17:48
Sample Name:	138	Units: µg/L
Lab Code:	R1207266-009	Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103012\Z4057.D\

Analysis Lot: 316079 Instrument Name: R-MS-06

Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.10	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.10	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.11	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.10	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.10	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.12	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.24	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.15	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.10	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.10	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.10	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.10	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	1.1	
591-78-6	2-Hexanone	5.0 U	5.0	2.1	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.95	
67-64-1	Acetone	5.0 U	5.0	1.1	
71-43-2	Benzene	1.0 U	1.0	0.10	
74-97-5	Bromochloromethane	1.0 U	1.0	0.15	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.15	
74-83-9	Bromomethane	1.0 U	1.0	0.23	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	4.1	1.0	0.10	
108-90-7	Chlorobenzene	1.0 U	1.0	0.10	
75-00-3	Chloroethane	1.0 U	1.0	0.10	
67-66-3	Chloroform	1.0 U	1.0	0.10	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.12	
124-4 8- 1	Dibromochloromethane	1.0 U	1.0	0.10	
00-41-4	Ethylbenzene	1.0 U	1.0	0.10	
37-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	
79601-23-1	m,p-Xylenes	1.0 U	1.0	0.12	

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207266
Project:	GE MRFA/145599.01	Date Collected: 10/23/12 1420
Sample Matrix:	Water	Date Received: 10/24/12
		Date Analyzed: 10/30/12 17:48
Sample Name: Lab Code:	13S R1207266-009	Units: µg/L Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: Data File Name:	CLP-VOA OLC02.1 I:\ACQUDATA\MSVOA6\DATA\103012\Z4057.D\			Analysis Lot: 316079 Instrument Name: R-MS-06 Dilution Factor: 1			
CAS No.	Analyte Name	Result Q	2	MRL	MDL	Note	
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	J	1.0	0.10		
95-47-6	o-Xylene	1.0 U	J	1.0	0.10		
100-42-5	Styrene	1. 0 U	J	1.0	0.10		
127-18-4	Tetrachloroethene (PCE)	1.0 U	J	1.0	0.10		
108-88-3	Toluene	1.0 U	I	1.0	0.10		
156-60-5	trans-1,2-Dichloroethene	1.0 U	J	1.0	0.10		
10061-02-6	trans-1,3-Dichloropropene	1.0 U	ſ	1.0	0.10	<u> </u>	
79-01-6	Trichloroethene (TCE)	2.2		1.0	0.10		
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 U	ſ	1.0	0.10		
75-01-4	Vinyl Chloride	1.0 U		1.0	0.10		

Surrogate Name	%Rec	Control Limits	Date Analyzed Q	
4-Bromofluorobenzene	101	80-120	10/30/12 17:48	<u>_</u>

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Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

Service Request: R1207266 Date Collected: 10/23/12 Date Received: 10/24/12 Date Analyzed: 10/30/12 1748

Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1	Analytical Meth		Result Q	
	Sample Name: Lab Code:	13S R1207266-009		Units: µg/L Basis: NA

No Tentatively Identified Compounds Detected.

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207266
Project:	GE MRFA/145599.01	Date Collected: 10/23/12 1450
Sample Matrix:	Water	Date Received: 10/24/12
-		Date Analyzed: 10/30/12 18:24
Sample Name:	13D	Units: µg/L
Lab Code:	R1207266-010	Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103012\Z4058.D\

Analysis Lot: 316079 Instrument Name: R-MS-06

Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.10	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.10	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.11	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.10	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.10	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.12	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.24	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.15	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.10	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.10	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.10	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.10	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	1.1	
591-78-6	2-Hexanone	5.0 U	5.0	2.1	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.95	
67-64-1	Acetone	1.4 J	5.0	1.1	
71-43-2	Benzene	1.0 U	1.0	0.10	
74-97-5	Bromochloromethane	1.0 U	1.0	0.15	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.15	
74-83-9	Bromomethane	1.0 U	1.0	0.23	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	0.68 J	1.0	0.10	
108-90-7	Chlorobenzene	1.0 U	1.0	0.10	
75-00-3	Chloroethane	1.0 U	1.0	0.10	
67-66-3	Chloroform	0.13 J	1.0	0.10	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.12	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.10	
100-41-4	Ethylbenzene	1.0 U	1.0	0.10	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	
179601-23-1	m,p-Xylenes	1.0 U	1.0	0.12	

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207266
Project:	GE MRFA/145599.01	Date Collected: 10/23/12 1450
Sample Matrix:	Water	Date Received: 10/24/12
		Date Analyzed: 10/30/12 18:24
Sample Name:	13D	Units: µg/L
Lab Code:	R1207266-010	Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103012\Z4058.D\

Analysis Lot:	316079
Instrument Name:	R-MS-06
Dilution Factor:	Ι

CAS No.	Analyte Name	Result (Q	MRL	MDL	Note
75-09-2	Dichloromethane (Methylene Chloride)	1.0 0	U	1.0	0.10	······································
95-47-6	o-Xylene	1.0 1	U	1.0	0.10	
100-42-5	Styrene	1.0 1	U	1.0	0.10	
127-18-4	Tetrachloroethene (PCE)	1.0 0	U	1.0	0.10	
108-88-3	Toluene	1.0 0	U	1.0	0.10	
156-60-5	trans-1,2-Dichloroethene	1.0 T	U	1.0	0.10	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	U	1.0	0.10	······································
79-01-6	Trichloroethene (TCE)	1.0 U	U	1.0	0.10	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 U	U	1.0	0.10	
75-01-4	Vinyl Chloride	1.0 U	U	1.0	0.10	

Surrogate Name	%Rec	Control Limits	Date Analyzed Q
4-Bromofluorobenzene	97	80-120	10/30/12 18:24

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Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

Service Request: R1207266 Date Collected: 10/23/12 Date Received: 10/24/12 Date Analyzed: 10/30/12 1824

Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

CAS# Ai	nalyte Name	RT	Result Q	
Analytical Metho	d: CLP-VOA OLC02.1			
Sample Name: Lab Code:	13D R1207266-010			Units: µg/L Basis: NA

No Tentatively Identified Compounds Detected.

Client: Project: Sample Matrix:	Shaw Environmental & Infrastructure, Inc. GE MRFA/145599.01 Water	Service Request: R1207266 Date Collected: 10/23/12 Date Received: 10/24/12 Date Analyzed: 10/30/12 19:35
Sample Name:	DUPB	Units: μg/L
Lab Code:	R1207266-011	Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103012\Z4060.D\

Analysis Lot: 316079 Instrument Name: R-MS-06

Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note		
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.10			
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.10			
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.11			
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.10			
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.10			
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11			
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.12			
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.24			
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.15			
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.10			
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.10			
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10			
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.10			
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.10			
78-93-3	2-Butanone (MEK)	5.0 U	5.0	1.1			
591-78-6	2-Hexanone	5.0 U	5.0	2.1			
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.95			
67-64-1	Acetone	5.0 U	5.0	1.1			
71-43-2	Benzene	1.0 U	1.0	0.10			
74-97-5	Bromochloromethane	1.0 U	1.0	0.15			
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10			
75-25-2	Bromoform	1.0 U	1.0	0.15			
74-83-9	Bromomethane	1.0 U	1.0	0.23			
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14			
56-23-5	Carbon Tetrachloride	1.6	1.0	0.10			
108-90-7	Chlorobenzene	1.0 U	1.0	0.10			
75-00-3	Chloroethane	1.0 U	1.0	0.10			
67-66-3	Chloroform	1.0 U	1.0	0.10			
74-87-3	Chloromethane	1.0 U	1.0	0.12			
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.10			
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.12			
124-48-1	Dibromochloromethane	1.0 U	1.0	0.10			
100-41-4	Ethylbenzene	1.0 U	1.0	0.10			
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10			
179601-23-1	m,p-Xylenes	1.0 U	1.0	0.12			
	·• •						

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207266	
Project:	GE MRFA/145599.01	Date Collected: 10/23/12	
Sample Matrix:	Water	Date Received: 10/24/12	
-		Date Analyzed: 10/30/12 19:	35
Sample Name:	DUPB	Units: µg/L	
Lab Code:	R1207266-011	Basis: NA	

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103012\Z4060.D\

Analysis Lot: 316079 Instrument Name: R-MS-06 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.10	
95-47-6	o-Xylene	1.0 U	1.0	0.10	
100-42-5	Styrene	1.0 U	1.0	0.10	
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10	
108-88-3	Toluene	1.0 U	1.0	0.10	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.10	
79-01-6	Trichloroethene (TCE)	1.3	1.0	0.10	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.10	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.10	······································

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	
4-Bromofluorobenzene	97	80-120	10/30/12 19:35		

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Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

Service Request: R1207266 Date Collected: 10/23/12 Date Received: 10/24/12 Date Analyzed: 10/30/12 1935

Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

Sample Name: Lab Code:	DUPB R1207266-011			Units: Basis:	
Analytical Meth	od: CLP-VOA OLC02.1				
CAS#	Analyte Name	RT	Result Q		

No Tentatively Identified Compounds Detected.

Comments:

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207266
Project:	GE MRFA/145599.01	Date Collected: 10/23/12 0000
Sample Matrix:	Water	Date Received: 10/24/12
		Date Analyzed: 10/30/12 20:11
Sample Name:	TRIP BLANK	Units: μg/L
Lab Code:	R1207266-012	Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103012\Z4061.D\

Analysis Lot: 316079 Instrument Name: R-MS-06 Dilution Factor: 1

					Dilution Factor: 1
CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1,0 U	1.0	0.10	·
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.10	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.11	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.10	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.10	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.12	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.24	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.15	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.10	
95-50-I	1,2-Dichlorobenzene	1.0 U	1.0	0.10	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.10	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.10	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	1.1	
591-78-6	2-Hexanone	5.0 U	5.0	2.1	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.95	
67-64-1	Acetone	2.1 J	5.0	1.1	
71-43-2	Benzene	1.0 U	1.0	0.10	
74-97-5	Bromochloromethane	1.0 U	1.0	0.15	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.15	·····
74-83-9	Bromomethane	1.0 U	1.0	0.23	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.10	
108-90-7	Chlorobenzene	1.0 U	1.0	0.10	
75-00-3	Chloroethane	1.0 U	1.0	0.10	
67-66-3	Chloroform	1.0 U	1.0	0.10	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.12	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.10	
100-41-4	Ethylbenzene	1.0 U	1.0	0.10	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	
179601-23-1	m,p-Xylenes	1.0 U	1.0	0.12	

Client: Project: Sample Matrix:	Shaw Environmental & Infrastructure, Inc. GE MRFA/145599.01 Water	Service Request: R1207266 Date Collected: 10/23/12 0000 Date Received: 10/24/12 Date Analyzed: 10/30/12 20:11
Sample Name:	TRIP BLANK	Units: µg/L
Lab Code:	R1207266-012	Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: Data File Name:	CLP-VOA OLC02.1 I:\ACQUDATA\MSVOA6\DATA\103012\Z4061.D\				Analysis Lot: 316079 Instrument Name: R-MS-06 Dilution Factor: 1		
CAS No.	Analyte Name	Result Q	MRL	MDL	Note		
75-09-2	Dichloromethane (Methylene Chloride)	0.10 J	1.0	0.10			
95-47-6	o-Xylene	1.0 U	1.0	0.10			
100-42-5	Styrene	1.0 U	1.0	0.10			
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10			
108-88-3	Toluene	0.10 J	1.0	0.10			
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.10			
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.10			
79-01-6	Trichloroethene (TCE)	1.0 U	1.0	0.10			
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.10			
75-01-4	Vinyl Chloride	1.0 U	1.0	0.10	-		

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	80-120	10/30/12 20:11	

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Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

Service Request: R1207266 Date Collected: 10/23/12 Date Received: 10/24/12 Date Analyzed: 10/30/12 2011

Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

-	alyte Name	RT	Result Q			
Lab Code:	R1207266-012					Basis: NA
Sample Name:	TRIP BLANK		5	•	•	Units: μg/L

No Tentatively Identified Compounds Detected.

Comments:

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request:	
Project:	GE MRFA/145599.01	Date Collected:	
Sample Matrix:	Water	Date Received: Date Analyzed:	
Sample Name:	COOLER BLANK	Units:	
Lab Code:	R1207266-013	Basis:	

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4071.D\

Analysis Lot: 316261 Instrument Name: R-MS-06

Dilution Factor: 1

	CAS No.	Analyte Name	Result Q	MRL	MDL	Note
79-00-5 I,I,2-Trichloroethane 1.0 U 1.0 0.11 75-35-4 I,I-Dichloroethane (I,I-DCA) 1.0 U 1.0 0.10 75-35-4 I,J-Dichloroethane (I,I-DCE) 1.0 U 1.0 0.11 120-82-1 1,2,4-Trichlorobenzene 1.0 U 1.0 0.11 120-82-1 1,2,4-Trichlorobenzene 1.0 U 1.0 0.12 96-12-8 1,2-Dichoro-3-chioropopane (DBCP) 1.0 U 1.0 0.15 107-06-2 1,2-Dichloroethane 1.0 U 1.0 0.10 95-50-1 1,2-Dichlorobenzene 1.0 U 1.0 0.10 78-87-5 1,2-Dichlorobenzene 1.0 U 1.0 0.10 78-93-3 2-Butanone (MEK) 5.0 U 5.0 1.1 91-78-6 2-Hexanone 5.0 U 5.0 2.1 108-10-1 4-Methyl-2-pentanone 5.0 U 5.0 0.11 71-43-2 Benzene 1.0 U 1.0 0.10 75-27-4 <	71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.10	· · · · · · · · · · · · · · · · · · ·
75-34-3 1,1-Dichloroethane (1,1-DCA) 1.0 U 1.0 0.10 75-35-4 1,1-Dichloroethane (1,1-DCE) 1.0 U 1.0 0.10 87-61-6 1,2,3-Trichlorobenzene 1.0 U 1.0 0.11 120-82-1 1,2,4-Trichlorobenzene 1.0 U 1.0 0.12 96-12-8 1,2-Dibromo-3-chloropropane (DBCP) 1.0 U 1.0 0.12 95-50-1 1,2-Dichloroethane 1.0 U 1.0 0.10 95-50-1 1,2-Dichloroethazene 1.0 U 1.0 0.10 95-57 1,2-Dichloropopane 1.0 U 1.0 0.10 78-87-5 1,2-Dichlorobenzene 1.0 U 1.0 0.10 541-73-1 1,3-Dichlorobenzene 1.0 U 1.0 0.10 547-73-1 1,3-Dichlorobenzene 5.0 U 5.0 1.1 591-78-6 2-Hexanone 5.0 U 5.0 0.51 108-10-1 4-Methyl-2-pentanone 5.0 U 5.0 1.1 71-43-2	79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.10	
75-35-4 1,1-Dichloroethene (1,1-DCE) 1.0 U 1.0 0.10 87-61-6 1,2,3-Trichlorobenzene 1.0 U 1.0 0.11 120-82-1 1,2,4-Trichlorobenzene 1.0 U 1.0 0.12 96-12-8 1,2-Dibrome-3-chloropropane (DBCP) 1.0 U 1.0 0.24 106-93-4 1,2-Dibrome-thane 1.0 U 1.0 0.10 95-50-1 1,2-Dichloroethane 1.0 U 1.0 0.10 95-50-1 1,2-Dichlorobenzene 1.0 U 1.0 0.10 78-87-5 1,2-Dichlorobenzene 1.0 U 1.0 0.10 541-73-1 1,3-Dichlorobenzene 1.0 U 1.0 0.10 78-93-3 2-Butanone (MEK) 5.0 U 5.0 1.1 591-78-6 2-Hexanone 5.0 U 5.0 1.1 7143-2 Benzene 1.0 U 1.0 0.10 74-97-5 Bromodichloromethane 1.0 U 1.0 0.15 75-22-2 Bromodoreth	79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.11	
87-61-6 1,2,3-Trichlorobenzene 1.0 U 1.0 0.11 120-82-1 1,2,4-Trichlorobenzene 1.0 U 1.0 0.24 96-12-8 1,2-Dibromo-3-chioropane (DBCP) 1.0 U 1.0 0.24 106-93-4 1,2-Dibromoethane 1.0 U 1.0 0.15 107-06-2 1,2-Dichloroethane 1.0 U 1.0 0.10 95-50-1 1,2-Dichloropenzene 1.0 U 1.0 0.10 78-87-5 1,2-Dichlorobenzene 1.0 U 1.0 0.10 106-46-7 1,4-Dichlorobenzene 1.0 U 1.0 0.10 106-46-7 1,4-Dichlorobenzene 1.0 U 1.0 0.10 108-10-1 4-Methyl-2-pentanone 5.0 U 5.0 2.1 108-10-1 4-Methyl-2-pentanone 5.0 U 5.0 1.1 71-43-2 Benzene 1.0 U 1.0 0.10 75-27-4 Bromodichloromethane 1.0 U 1.0 0.10 75-25-2 Brom	75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.10	· · · · · · · · · · · · · · · · · · ·
120-82-1 1,2,4-Trichlorobenzene 1.0 U 1.0 0.12 96-12-8 1,2-Dibromo-3-chloropropane (DBCP) 1.0 U 1.0 0.24 106-93-4 1,2-Dibromoethane 1.0 U 1.0 0.15 107-06-2 1,2-Dichloroethane 1.0 U 1.0 0.10 95-50-1 1,2-Dichlorobenzene 1.0 U 1.0 0.10 78-87-5 1,2-Dichlorobenzene 1.0 U 1.0 0.10 541-73-1 1,3-Dichlorobenzene 1.0 U 1.0 0.10 106-46-7 1,4-Dichlorobenzene 1.0 U 1.0 0.10 541-73-1 1,3-Dichlorobenzene 1.0 U 1.0 0.10 78-93-3 2-Butanone (MEK) 5.0 U 5.0 1.1 591-78-6 2-Hexanone 5.0 U 5.0 0.11 79-75 Bromochloromethane 1.0 U 1.0 0.10 74-97-5 Bromochloromethane 1.0 U 1.0 0.10 75-27-4 Bromochlor	75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.10	
96-12-8 1,2-Dibromo-3-chloropropane (DBCP) 1.0 U 1.0 0.24 106-93-4 1,2-Diktoromethane 1.0 U 1.0 0.15 107-06-2 1,2-Dichlorobenzene 1.0 U 1.0 0.10 95-50-1 1,2-Dichlorobenzene 1.0 U 1.0 0.10 78-87-5 1,2-Dichlorobenzene 1.0 U 1.0 0.10 541-73-1 1,3-Dichlorobenzene 1.0 U 1.0 0.10 544-73-1 1,4-Dichlorobenzene 1.0 U 1.0 0.10 549-3 2-Buttanone (MEK) 5.0 U 5.0 1.1 591-78-6 2-Hexanone 5.0 U 5.0 0.95 67-64-1 Acetone 5.0 U 5.0 1.1 71-43-2 Benzene 1.0 U 1.0 0.10 74-97-5 Bromochloromethane 1.0 U 1.0 0.15 75-27-4 Bromodichloromethane 1.0 U 1.0 0.15 75-52-5 Bromodehane 1.0	87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
96-12-8 1,2-Dibromo-3-chloropropane (DBCP) 1.0 U 1.0 0.24 106-93-4 1,2-Diktoromethane 1.0 U 1.0 0.15 107-06-2 1,2-Dichlorobenzene 1.0 U 1.0 0.10 95-50-1 1,2-Dichlorobenzene 1.0 U 1.0 0.10 78-87-5 1,2-Dichlorobenzene 1.0 U 1.0 0.10 541-73-1 1,3-Dichlorobenzene 1.0 U 1.0 0.10 544-73 1,4-Dichlorobenzene 1.0 U 1.0 0.10 78-93-3 2-Buttanone (MEK) 5.0 U 5.0 1.1 591-78-6 2-Hexanone 5.0 U 5.0 0.95 67-64-1 Acetone 5.0 U 5.0 1.1 71-43-2 Benzene 1.0 U 1.0 0.10 74-97-5 Bromochloromethane 1.0 U 1.0 0.15 75-27-4 Bromodichloromethane 1.0 U 1.0 0.15 75-52-5 Bromodehnoremethane 1	120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.12	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	96-12-8		1.0 U	1.0	0.24	
95-50-11,2-Dichlorobenzene1.0U1.00.1078-87-51,2-Dichloropropane1.0U1.00.10541-73-11,3-Dichlorobenzene1.0U1.00.10106-46-71,4-Dichlorobenzene1.0U1.00.1078-93-32-Butanone (MEK)5.0U5.01.1591-78-62-Hexanone5.0U5.00.9567-64-1Acetone5.0U5.00.1074-97-5Bromochloromethane1.0U1.00.1075-27-4Bromochloromethane1.0U1.00.1574-83-9Bromomethane1.0U1.00.2375-15-0Carbon Disulfide1.0U1.00.1075-0-3Chlorobenzene1.0U1.00.1075-0-3Chlorobenzene1.0U1.00.1075-0-3Chlorobenzene1.0U1.00.1075-0-3Chlorobenzene1.0U1.00.1075-0-3Chlorobenzene1.0U1.00.1075-0-3Chlorobenzene1.0U1.00.1075-0-3Chlorobenzene1.0U1.00.1075-0-3Chlorobenzene1.0U1.00.10106-10-5cis-1,3-Dichloropropene1.0U1.00.10106-10-5cis-1,3-Dichloropropene1.0U1.00.10100-41-4<	106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.15	
78-87-51,2-Dichloropropane1.0U1.00.10 $541-73-1$ 1,3-Dichlorobenzene1.0U1.00.10 $106-46-7$ 1,4-Dichlorobenzene1.0U1.00.10 $78-93-3$ 2-Butanone (MEK)5.0U5.01.1 $591-78-6$ 2-Hexanone5.0U5.02.1 $108-10-1$ 4-Methyl-2-pentanone5.0U5.00.995 $67-64-1$ Acetone5.0U5.01.1 $71-43-2$ Benzene1.0U1.00.10 $74-97-5$ Bromochloromethane1.0U1.00.15 $75-27-4$ Bromodichloromethane1.0U1.00.15 $75-25-2$ Bromomethane1.0U1.00.14 $56-23-5$ Carbon Disulfide1.0U1.00.14 $56-23-5$ Carbon Tetrachloride1.0U1.00.10 $75-00-3$ Chlorobenzene1.0U1.00.10 $74-87-3$ Chloromethane1.0U1.00.10 $74-87-3$ Chlorobenzene1.0U1.00.10 $74-87-3$ Chlorobenzene1.0U1.00.10 $74-87-3$ Chlorobenzene1.0U1.00.10 $74-87-3$ Chlorobenzene1.0U1.00.10 $74-87-3$ Chlorobenzene1.0U1.00.10 $1061-01-5$ cis-1,3-Dichloropropene1.0U <td< td=""><td>107-06-2</td><td>1,2-Dichloroethane</td><td>1.0 U</td><td>1.0</td><td>0.10</td><td></td></td<>	107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.10	
541-73-11,3-Dichlorobenzene1.0U1.00.10106-46-71,4-Dichlorobenzene1.0U1.00.1078-93-32-Butanone (MEK)5.0U5.01.1591-78-62-Hexanone5.0U5.02.1108-10-14-Methyl-2-pentanone5.0U5.00.9567-64-1Acetone5.0U5.01.171-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1575-27-4Bromodichloromethane1.0U1.00.1574-83-9Bromomethane1.0U1.00.2375-15-0Carbon Disulfide1.0U1.00.1075-25-2Bromomethane1.0U1.00.1456-23-5Carbon Tetrachloride1.0U1.00.1075-15-0Carbon Disulfide1.0U1.00.1075-03Chlorobenzene1.0U1.00.1074-87-3Chloromethane1.0U1.00.1074-87-3Chloromethane1.0U1.00.101061-01-5cis-1,3-Dichloropropene1.0U1.00.12156-59-2cis-1,3-Dichloropropene1.0U1.00.1010061-01-5cis-1,3-Dichloropropene1.0U1.00.1010041-4Ethylbenzene1.0U1.00.10 <td>95-50-1</td> <td>1,2-Dichlorobenzene</td> <td>1.0 U</td> <td>1.0</td> <td>0.10</td> <td></td>	95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.10	
106-46-71,4-Dichlorobenzene1.0U1.00.10 $78-93-3$ 2-Butanone (MEK)5.0U5.01.1 $591-78-6$ 2-Hexanone5.0U5.02.1 $108-10-1$ 4-Methyl-2-pentanone5.0U5.00.95 $67-64-1$ Acetone5.0U5.01.1 $71-43-2$ Benzene1.0U1.00.10 $74-97-5$ Bromochloromethane1.0U1.00.15 $75-27-4$ Bromodichloromethane1.0U1.00.15 $74-83-9$ Bromomethane1.0U1.00.23 $75-15-0$ Carbon Disulfide1.0U1.00.10 $108-90-7$ Chlorobenzene1.0U1.00.10 $75-66-3$ Chloroform1.0U1.00.10 $74-87-3$ Chloroform1.0U1.00.10 $74-87-3$ Chloroform1.0U1.00.10 $75-92-$ cis-1,2-Dichloroethene1.0U1.00.10 $106-10-5$ cis-1,3-Dichloroppene1.0U1.00.12 $124-48-1$ Dibromochloromethane1.0U1.00.12 $124-48-1$ Dibromochloromethane1.0U1.00.10 $10041-4$ Ethylbenzene1.0U1.00.10 $10-41-4$ Ethylbenzene1.0U1.00.10	78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
78-93-32-Butanone (MEK)5.0U5.01.1591-78-62-Hexanone5.0U5.02.1108-10-14-Methyl-2-pentanone5.0U5.00.9567-64-1Acetone5.0U5.01.171-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1575-27-4Bromodichloromethane1.0U1.00.1575-25-2Bromoform1.0U1.00.1574-83-9Bromomethane1.0U1.00.2375-15-0Carbon Disulfide1.0U1.00.10108-90-7Chlorobenzene1.0U1.00.1075-60-3Chloroform1.0U1.00.1067-66-3Chloroform1.0U1.00.101061-01-5cis-1,3-Dichloroppene1.0U1.00.12124-48-1Dibromochloromethane1.0U1.00.1210041-4Ethylbenzene1.0U1.00.10	541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.10	
591-78-62-Hexanone5.0U5.02.1 $108-10-1$ 4-Methyl-2-pentanone5.0U5.00.95 $67-64-1$ Acetone5.0U5.01.1 $71-43-2$ Benzene1.0U1.00.10 $74-97-5$ Bromochloromethane1.0U1.00.15 $75-27-4$ Bromodichloromethane1.0U1.00.15 $75-27-4$ Bromomethane1.0U1.00.15 $74-83-9$ Bromomethane1.0U1.00.23 $75-15-0$ Carbon Disulfide1.0U1.00.14 $56-23-5$ Carbon Tetrachloride1.0U1.00.10 $108-90-7$ Chlorobenzene1.0U1.00.10 $75-00-3$ Chloromethane1.0U1.00.10 $67-66-3$ Chloroform1.0U1.00.10 $74-87-3$ Chloromethane1.0U1.00.10 $156-59-2$ cis-1,3-Dichloropropene1.0U1.00.12 $124-48-1$ Dibromochloromethane1.0U1.00.10 $100-41-4$ Ethylbenzene1.0U1.00.10 $87-68-3$ Hexachlorobutadiene1.0U1.00.10	106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.10	
108-10-14-Methyl-2-pentanone 5.0 U 5.0 0.95 $67-64-1$ Acetone 5.0 U 5.0 1.1 $71-43-2$ Benzene 1.0 U 1.0 0.10 $74-97-5$ Bromochloromethane 1.0 U 1.0 0.15 $75-27-4$ Bromodichloromethane 1.0 U 1.0 0.16 $75-27-4$ Bromodichloromethane 1.0 U 1.0 0.16 $75-27-4$ Bromodichloromethane 1.0 U 1.0 0.10 $75-27-4$ Bromodichloromethane 1.0 U 1.0 0.12 $75-27-4$ Bromodichloromethane 1.0 U 1.0 0.14 $75-27-4$ Bromodichloromethane 1.0 U 1.0 0.14 $56-23-5$ Carbon Tetrachloride 1.0 U 1.0 0.10 $108-90-7$ Chlorobenzene 1.0 U 1.0 0.10 $75-00-3$ Chloroform 1.0 U 1.0 0.10 $75-60-3$ Chloroform 1.0 U 1.0 0.10 $126-73-2$ cis- $1,2$ -Dichloropthene 1.0 U 1.0 0.10 $10061-01-5$ cis- $1,3$ -Dichloropropene 1.0 U 1.0 0.10 <td>78-93-3</td> <td>2-Butanone (MEK)</td> <td>5.0 U</td> <td>5.0</td> <td>1.1</td> <td></td>	78-93-3	2-Butanone (MEK)	5.0 U	5.0	1.1	
67-64-1Acetone 5.0 U 5.0 1.1 $71-43-2$ Benzene 1.0 U 1.0 0.10 $74-97-5$ Bromochloromethane 1.0 U 1.0 0.15 $75-27-4$ Bromodichloromethane 1.0 U 1.0 0.15 $75-27-4$ Bromoform 1.0 U 1.0 0.10 $75-25-2$ Bromoform 1.0 U 1.0 0.15 $74-83-9$ Bromomethane 1.0 U 1.0 0.23 $75-15-0$ Carbon Disulfide 1.0 U 1.0 0.14 $56-23-5$ Carbon Tetrachloride 1.0 U 1.0 0.10 $108-90-7$ Chlorobenzene 1.0 U 1.0 0.10 $75-00-3$ Chloroform 1.0 U 1.0 0.10 $74-87-3$ Chloroform 1.0 U 1.0 0.10 $74-87-3$ Chloromethane 1.0 U 1.0 0.10 $1061-01-5$ cis- $1,3$ -Dichloropropene 1.0 U 1.0 0.10 $10061-01-5$ cis- $1,3$ -Dichloromethane 1.0 U 1.0 0.10 $100-41-4$ Ethylbenzene 1.0 U 1.0 0.10 $87-68-3$ Hexachlorobutadiene 1.0 U 1.0 0.10	591-78-6	2-Hexanone	5.0 U	5.0	2.1	
71-43-2Benzene 1.0 U 1.0 0.10 $74-97-5$ Bromochloromethane 1.0 U 1.0 0.15 $75-27-4$ Bromodichloromethane 1.0 U 1.0 0.10 $75-25-2$ Bromoform 1.0 U 1.0 0.15 $74-83-9$ Bromomethane 1.0 U 1.0 0.15 $74-83-9$ Bromomethane 1.0 U 1.0 0.23 $75-15-0$ Carbon Disulfide 1.0 U 1.0 0.14 $56-23-5$ Carbon Tetrachloride 1.0 U 1.0 0.10 $108-90-7$ Chlorobenzene 1.0 U 1.0 0.10 $75-00-3$ Chloroform 1.0 U 1.0 0.10 $74-87-3$ Chloromethane 1.0 U 1.0 0.10 $74-87-3$ Chloromethane 1.0 U 1.0 0.10 $74-87-3$ Chloromethane 1.0 U 1.0 0.10 $10061-01-5$ cis- $1,3$ -Dichloropenpene 1.0 U 1.0 0.12 $124-48-1$ Dibromochloromethane 1.0 U 1.0 0.10 $100-41-4$ Ethylbenzene 1.0 U 1.0 0.10 $87-68-3$ Hexachlorobutadiene 1.0 U 1.0 0.10	108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.95	
74-97-5Bromochloromethane1.0U1.00.1575-27-4Bromodichloromethane1.0U1.00.1075-25-2Bromoform1.0U1.00.1574-83-9Bromomethane1.0U1.00.2375-15-0Carbon Disulfide1.0U1.00.1456-23-5Carbon Tetrachloride1.0U1.00.10108-90-7Chlorobenzene1.0U1.00.1075-03Chloroform1.0U1.00.1067-66-3Chloroform1.0U1.00.1074-87-3Chloromethane1.0U1.00.101061-01-5cis-1,3-Dichloropropene1.0U1.00.12124-48-1Dibromochloromethane1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	67-64-1	Acetone	5.0 U	5.0	1.1	
75-27-4Bromodichloromethane1.0U1.00.1075-25-2Bromoform1.0U1.00.1574-83-9Bromomethane1.0U1.00.2375-15-0Carbon Disulfide1.0U1.00.1456-23-5Carbon Tetrachloride1.0U1.00.10108-90-7Chlorobenzene1.0U1.00.1075-00-3Chloroform1.0U1.00.1067-66-3Chloroform1.0U1.00.1074-87-3Chloroform1.0U1.00.12156-59-2cis-1,2-Dichloroethene1.0U1.00.1210061-01-5cis-1,3-Dichloropropene1.0U1.00.101004-1-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	71-43-2	Benzene	1.0 U	1.0	0.10	
75-25-2Bromoform1.0U1.00.1574-83-9Bromomethane1.0U1.00.2375-15-0Carbon Disulfide1.0U1.00.1456-23-5Carbon Tetrachloride1.0U1.00.10108-90-7Chlorobenzene1.0U1.00.1075-00-3Chloroethane1.0U1.00.1067-66-3Chloroform1.0U1.00.1067-66-3Chloromethane1.0U1.00.12156-59-2cis-1,2-Dichloroethene1.0U1.00.121061-01-5cis-1,3-Dichloropropene1.0U1.00.12124-48-1Dibromochloromethane1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	74-97-5	Bromochloromethane	1.0 U	1.0	0.15	
74-83-9Bromomethane 1.0 U 1.0 0.23 $75-15-0$ Carbon Disulfide 1.0 U 1.0 0.14 $56-23-5$ Carbon Tetrachloride 1.0 U 1.0 0.10 $108-90-7$ Chlorobenzene 1.0 U 1.0 0.10 $75-00-3$ Chloroethane 1.0 U 1.0 0.10 $67-66-3$ Chloroform 1.0 U 1.0 0.10 $74-87-3$ Chloromethane 1.0 U 1.0 0.12 $156-59-2$ cis- $1,2$ -Dichloroethene 1.0 U 1.0 0.12 $10061-01-5$ cis- $1,3$ -Dichloropropene 1.0 U 1.0 0.12 $124-48-1$ Dibromochloromethane 1.0 U 1.0 0.10 $100-41-4$ Ethylbenzene 1.0 U 1.0 0.10 $87-68-3$ Hexachlorobutadiene 1.0 U 1.0 0.10	75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-15-0Carbon Disulfide1.0U1.0 0.14 56-23-5Carbon Tetrachloride1.0U1.0 0.10 108-90-7Chlorobenzene1.0U1.0 0.10 75-00-3Chloroethane1.0U1.0 0.10 67-66-3Chloroform1.0U1.0 0.10 74-87-3Chloromethane1.0U1.0 0.12 156-59-2cis-1,2-Dichloroethene1.0U1.0 0.10 10061-01-5cis-1,3-Dichloropropene1.0U1.0 0.12 124-48-1Dibromochloromethane1.0U1.0 0.10 100-41-4Ethylbenzene1.0U1.0 0.10 87-68-3Hexachlorobutadiene1.0U1.0 0.10	75-25-2	Bromoform	1.0 U	1.0	0.15	
56-23-5 Carbon Tetrachloride 1.0 U 1.0 0.10 108-90-7 Chlorobenzene 1.0 U 1.0 0.10 75-00-3 Chloroethane 1.0 U 1.0 0.10 67-66-3 Chloroform 1.0 U 1.0 0.10 67-66-3 Chlorofhane 1.0 U 1.0 0.10 74-87-3 Chloromethane 1.0 U 1.0 0.12 156-59-2 cis-1,2-Dichloroethene 1.0 U 1.0 0.10 10061-01-5 cis-1,3-Dichloropropene 1.0 U 1.0 0.12 124-48-1 Dibromochloromethane 1.0 U 1.0 0.10 100-41-4 Ethylbenzene 1.0 U 1.0 0.10 87-68-3 Hexachlorobutadiene 1.0 U 1.0 0.10	74-83-9	Bromomethane	1.0 U	1.0	0.23	
108-90-7Chlorobenzene1.0U1.00.1075-00-3Chloroethane1.0U1.00.1067-66-3Chloroform1.0U1.00.1074-87-3Chloromethane1.0U1.00.12156-59-2cis-1,2-Dichloroethene1.0U1.00.1010061-01-5cis-1,3-Dichloropropene1.0U1.00.12124-48-1Dibromochloromethane1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
75-00-3Chloroethane1.0U1.00.1067-66-3Chloroform1.0U1.00.1074-87-3Chloromethane1.0U1.00.12156-59-2cis-1,2-Dichloroethene1.0U1.00.1010061-01-5cis-1,3-Dichloropropene1.0U1.00.12124-48-1Dibromochloromethane1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.10	
67-66-3Chloroform1.0U1.00.1074-87-3Chloromethane1.0U1.00.12156-59-2cis-1,2-Dichloroethene1.0U1.00.1010061-01-5cis-1,3-Dichloropropene1.0U1.00.12124-48-1Dibromochloromethane1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	108-90-7	Chlorobenzene	1.0 U	1.0	0.10	
74-87-3Chloromethane1.0U1.00.12156-59-2cis-1,2-Dichloroethene1.0U1.00.1010061-01-5cis-1,3-Dichloropropene1.0U1.00.12124-48-1Dibromochloromethane1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	75-00-3	Chloroethane	1.0 U	1.0	0.10	
156-59-2 cis-1,2-Dichloroethene 1.0 U 1.0 0.10 10061-01-5 cis-1,3-Dichloropropene 1.0 U 1.0 0.12 124-48-1 Dibromochloromethane 1.0 U 1.0 0.10 100-41-4 Ethylbenzene 1.0 U 1.0 0.10 87-68-3 Hexachlorobutadiene 1.0 U 1.0 0.10	67-66-3	Chloroform	1,0 U	1.0	0.10	
10061-01-5 cis-1,3-Dichloropropene 1.0 U 1.0 0.12 124-48-1 Dibromochloromethane 1.0 U 1.0 0.10 100-41-4 Ethylbenzene 1.0 U 1.0 0.10 87-68-3 Hexachlorobutadiene 1.0 U 1.0 0.10	74-87-3	Chloromethane	1.0 U	1.0	0.12	
124-48-1 Dibromochloromethane 1.0 U 1.0 0.10 100-41-4 Ethylbenzene 1.0 U 1.0 0.10 87-68-3 Hexachlorobutadiene 1.0 U 1.0 0.10	156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.10	
124-48-1 Dibromochloromethane 1.0 U 1.0 0.10 100-41-4 Ethylbenzene 1.0 U 1.0 0.10 87-68-3 Hexachlorobutadiene 1.0 U 1.0 0.10	10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.12	
87-68-3 Hexachlorobutadiene 1.0 U 1.0 0.10		· · · ·	1.0 U	1.0	0.10	
	100-41-4	Ethylbenzene	1.0 U	1.0	0.10	
	87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	
	179601-23-1					

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request:	R1207266
Project:	GE MRFA/145599.01	Date Collected:	10/23/12 0000
Sample Matrix:	Water	Date Received:	10/24/12
		Date Analyzed:	10/31/12 13:13
Sample Name:	COOLER BLANK	Units:	μg/L
Lab Code:	R1207266-013	Basis:	NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4071.D\

Analysis Lot: 316261 Instrument Name: R-MS-06 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.10	
95-47-6	o-Xylene	1.0 U	1.0	0.10	
100-42-5	Styrene	1.0 U	1.0	0.10	
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10	
108-88-3	Toluene	1.0 U	1.0	0.10	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.10	
79-01-6	Trichloroethene (TCE)	1.0 U	1.0	0.10	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.10	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.10	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	80-120	10/31/12 13:13	

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Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

Service Request: R1207266 Date Collected: 10/23/12 Date Received: 10/24/12 Date Analyzed: 10/31/12 1313

Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

Sample Nai Lab Code:				Units: µg/L Basis: NA
Analytical l	Method: CLP-VOA OLC02.1			
CAS#	Analyte Name	RT	Result Q	
	NT- The sector of a T.d.	antified Compound	- D-+	

No Tentatively Identified Compounds Detected.

Comments:

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207266
Project:	GE MRFA/145599.01	Date Collected: NA
Sample Matrix:	Water	Date Received: NA
		Date Analyzed: 10/30/12 12:42
Sample Name:	Method Blank	Units: µg/L
Lab Code:	RQ1213115-04	Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103012\Z4048.D\

Analysis Lot: 316079 Instrument Name: R-MS-06

Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.10	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.10	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.11	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.10	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.10	
87-61-6	1,2,3-Trichlorobenzene	0.16 J	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.12	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.24	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.15	
107-06-2	I,2-Dichloroethane	1.0 U	1.0	0.10	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.10	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.10	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.10	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	1.1	
591-78-6	2-Hexanone	5.0 U	5.0	2.1	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.95	
67-64-1	Acetone	5.0 U	5.0	1.1	
71-43-2	Benzene	1.0 U	1.0	0.10	
74-97-5	Bromochloromethane	1.0 U	1.0	0.15	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.15	
74-83-9	Bromomethane	1.0 U	1.0	0.23	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.10	
108-90-7	Chlorobenzene	1.0 U	1.0	0.10	
75-00-3	Chloroethane	1.0 U	1.0	0.10	
67-66-3	Chloroform	1.0 U	1.0	0.10	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.12	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.10	
100-41-4	Ethylbenzene	1.0 U	1.0	0.10	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	
179601-23-1	m,p-Xylenes	1.0 U	1.0	0.12	

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Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207266
Project:	GE MRFA/145599.01	Date Collected: NA
Sample Matrix:	Water	Date Received: NA
		Date Analyzed: 10/30/12 12:42
Sample Name: Lab Code:	Method Blank RQ1213115-04	Units: µg/L Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103012\Z4048.D\

Analysis Lot:	316079
Instrument Name:	R-MS-06
Dilution Factor:	1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.10	
95-47-6	o-Xylene	1.0 U	1.0	0.10	
100-42-5	Styrene	1.0 U	1.0	0.10	
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10	
108-88-3	Toluene	1.0 U	1.0	0.10	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.10	
79-01-6	Trichloroethene (TCE)	1.0 U	1.0	0.10	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.10	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.10	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	80-120	10/30/12 12:42	

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Now part of the ALS Group

Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

Service Request: R1207266 Date Collected: NA Date Received: NA Date Analyzed: 10/30/12 1242

Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

Sample Name: Lab Code:	Method Blank RQ1213115-04			Units: µg/L Basis: NA
Analytical Metho	od: CLP-VOA OLC02.1			
CAS # A	nalyte Name	RT	Result Q	

No Tentatively Identified Compounds Detected.

Comments:

Client: Project: Sample Matrix:	Shaw Environmental & Infrastructure, Inc. GE MRFA/145599.01 Water	Service Request: R1207266 Date Collected: NA Date Received: NA Date Analyzed: 10/31/12 12:40
Sample Name:	Method Blank	Units: µg/L
Lab Code:	RQ1213170-04	Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4070.D\					Analysis Lot: 316261 Instrument Name: R-MS-06 Dilution Factor: 1		
CAS No.	Analyte Name	Result	Q	MRL	MDL	Note		
71-55-6	1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.10			
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.10			
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.11			
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.10			
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0		1.0	0.10			
87-61-6	1,2,3-Trichlorobenzene	0.23	J	1.0	0.11			
120-82-1	1,2,4-Trichlorobenzene	1.0	IJ	1.0	0.12			
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0		1.0	0.24			
106-93-4	1,2-Dibromoethane	1.0		1.0	0.15			
107-06-2	1,2-Dichloroethane	1.0	TI	1.0	0.10			
95-50-1	1,2-Dichlorobenzene	1.0		1.0	0.10			
78-87-5	1,2-Dichloropropane	1.0		1.0	0.10			
541-73-1	1,3-Dichlorobenzene	1.0						
06-46-7	1,4-Dichlorobenzene	1.0		1.0 1.0	0.10 0.10			
78-93-3	2-Butanone (MEK)	5.0		5.0	1.1			
91-78-6	2-Hexanone							
.08-10-1	4-Methyl-2-pentanone	5.0 5.0		5.0	2.1			
67-64-1	Acetone	5.0		5.0 5.0	0.95 1.1			
1-43-2				······································				
4-97-5	Benzene Bromochloromethane	1.0		1.0	0.10			
5-27-4	Bromodichloromethane	1.0		1.0	0.15			
••••		1.0		1.0	0.10			
5-25-2	Bromoform	1.0		1.0	0.15			
4-83-9	Bromomethane	1.0		1.0	0.23			
5-15-0	Carbon Disulfide	1.0	U	1.0	0.14			
6-23-5	Carbon Tetrachloride	1.0		1.0	0.10			
08-90-7	Chlorobenzene	1.0		1.0	0.10			
5-00-3	Chloroethane	1.0	U	1.0	0.10			
7-66-3	Chloroform	1.0	U	1.0	0.10			
	Chloromethane	1.0		1.0	0.12			
56-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.10			
0061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.12	· · · · · · · · · · · · · · · · · · ·		
24-48-1	Dibromochloromethane	1.0		1.0	0.10			
00-41-4	Ethylbenzene	1.0		1.0	0.10			
7-68-3	Hexachlorobutadiene	0.13	 T	1.0	0.10			
			,					

Analytical Method: CLP-VOA OLC02.1

Analysis Lot: 316261

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207266
Project:	GE MRFA/145599.01	Date Collected: NA
Sample Matrix:	Water	Date Received: NA
		Date Analyzed: 10/31/12 12:40
Sample Name:	Method Blank	Units: μg/L
Lab Code:	RQ1213170-04	Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4070.D\

Analysis Lot: 316261 Instrument Name: R-MS-06 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
75-09-2	Dichloromethane (Methylene Chloride)	1.0	U	1.0	0,10	
95-47-6	o-Xylene	1.0	U	1.0	0.10	
100-42-5	Styrene	1.0	U	1.0	0.10	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	0.10	
108-88-3	Toluene	1.0	U	1.0	0.10	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.10	
10061-02-6	trans-1,3-Dichloropropene	1.0 1	U	1.0	0.10	
79-01-6	Trichloroethene (TCE)	1.0 1	U	1.0	0.10	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 1	U	1.0	0.10	
75-01-4	Vinyl Chloride	1.0 1	U	1.0	0.10	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	
4-Bromofluorobenzene	101	80-120	10/31/12 12:40	····.	



Now part of the ALS Group

Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

Service Request: R1207266 Date Collected: NA Date Received: NA Date Analyzed: 10/31/12 1240

Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

Sample Name: Lab Code:	Method Blank RQ1213170-04			Units: µg/L Basis: NA
Analytical Met	hod: CLP-VOA OLC02.1			
CAS #	Analyte Name	RT	Result Q	

No Tentatively Identified Compounds Detected.

Comments:

Now part of the ALS Group

QA/QC Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

Service Request: R1207266 Date Collected: 10/23/12 Date Received: 10/24/12 Date Analyzed: 10/30/12

Matrix Spike Summary Low Level Water Volatile Organic Compounds by GC/MS

Sample Name:	M-28S
Lab Code:	R1207266-008

Units: µg/L Basis: NA

Analytical Method: CLP-VOA OLC02.1

	Gamula		M-28SMS Iatrix Spike Q1213115-0 Spike		Duplic	M-28SDMS cate Matrix Q1213115-0 Spike	•	% Rec		RPD
Analyte Name	Sample Result	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
1,1,2-Trichloroethane	ND	5.40	5.00	108	5.07	5.00	101	60 - 140	6	30
1,2-Dibromoethane	ND	4.84	5.00	97	5,23	5.00	105	60 - 140	8	30
1,2-Dichloroethane	ND	5.07	5.00	101	4.86	5.00	97	60 - 140	4	30
1,2-Dichloropropane	ND	4.83	5.00	97	4.91	5.00	98	60 - 140	2	30
1,4-Dichlorobenzene	ND	4.80	5.00	96	4.72	5.00	94	60 - 140	2	30
Benzene	ND	4.94	5.00	99	4.93	5.00	99	60 - 140	<1	30
Bromoform	ND	4.85	5.00	97	5.22	5.00	104	60 - 140	7	30
Carbon Tetrachloride	4.1	9.21	5.00	101	9,53	5.00	108	60 - 140	3	30
cis-1,3-Dichloropropene	ND	4.84	5.00	97	4.75	5.00	95	60 - 140	2	30
Tetrachloroethene (PCE)	ND	5.03	5.00	101	5.00	5.00	100	60 - 140	<1	30
Trichloroethene (TCE)	4.3	8.67	5.00	87	9.00	5.00	94	60 - 140	4	30
Vinyl Chloride	ND	5.30	5.00	106	5.07	5.00	101	60 - 140	4	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.



Now part of the ALS Group

QA/QC Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

Service Request: R1207266 Date Analyzed: 10/30/12

Lab Control Sample Summary Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Units:	μg/L
Basis:	NA

Analysis Lot: 316079

Lab Control Sample RQ1213115-03							
Analyte Name	Result	Spike Amount	% Rec	% Rec Limits			
1,1,2-Trichloroethane	5.08	5.00	102	60 - 140			
1,2-Dibromoethane	4.59	5.00	92	60 - 140			
1,2-Dichloroethane	4.81	5.00	96	60 - 140			
1,2-Dichloropropane	4.81	5.00	96	60 - 140			
1,4-Dichlorobenzene	4.65	5.00	93	60 - 140			
Benzene	4.74	5.00	95	60 - 140			
Bromoform	4.78	5.00	96	60 - 140			
Carbon Tetrachloride	4.78	5.00	96	60 - 140			
cis-1,3-Dichloropropene	4.80	5.00	96	60 - 140			
Tetrachloroethene (PCE)	4.77	5.00	95	60 - 140			
Trichloroethene (TCE)	4.72	5.00	94	60 - 140			
Vinyl Chloride	4.80	5.00	96	60 - 140			

Results flagged with an asterisk (*) indicate values outside control criteria.



Now part of the ALS Group

QA/QC Report

Client: Project: Sample Matrix:

Shaw Environmental & Infrastructure, Inc. GE MRFA/145599.01 x: Water Service Request: R1207266 Date Analyzed: 10/31/12

Lab Control Sample Summary Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Units: µg/L Basis: NA

Analysis Lot: 316261

Lab Control Sample RQ1213170-03							
Analyte Name	Result	Spike Amount	% Rec	% Rec Limits			
1,1,2-Trichloroethane	4.87	5.00	97	60 - 140			
1,2-Dibromoethane	4.97	5.00	99	60 - 140			
1,2-Dichloroethane	5.24	5.00	105	60 - 140			
1,2-Dichloropropane	5.14	5.00	103	60 - 140			
1,4-Dichlorobenzene	5.09	5.00	102	60 - 140			
Benzene	4.81	5.00	96	60 - 140			
Bromoform	4.87	5.00	97	60 - 140			
Carbon Tetrachloride	5.04	5.00	101	60 - 140			
cis-1,3-Dichloropropene	4.68	5.00	94	60 - 140			
Tetrachloroethene (PCE)	4.94	5.00	99	60 - 140			
Trichloroethene (TCE)	4.82	5.00	96	60 - 140			
Vinyl Chloride	4.83	5.00	97	60 - 140			

Results flagged with an asterisk (*) indicate values outside control criteria.



Client: Project: Sample Matrix:	Shaw Environmental & Ir GE MRFA/145599.01 Water	nfrastructure, Inc.			Service Request: Date Collected: Date Received: Date Analyzed:	10/23/12 0930 10/24/12
Sample Name: Lab Code:	M-25D R1207266-001				Units: Basis:	
		Dissolved Gases	by G(C/FID		
Analytical Method: Data File Name:	RSK 175 1007.run				Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02
CAS No.	Analyte Name	Result	Q	MRL	Note	
74-84-0	Ethane	1.0	U	1.0	· · · · · · · · · · · · · · · · · · ·	

Client: Project: Sample Matrix:	Shaw Environmental & Infra GE MRFA/145599.01 Water	structure, Inc.			Service Request: Date Collected: Date Received: Date Analyzed:	10/23/12 1010 10/24/12
Sample Name: Lab Code:	M-29D R1207266-002				Units: Basis:	· -
		Dissolved Gases I	by G	C/FID		
Analytical Method: Data File Name:	RSK 175 1008.run				Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02
CAS No.	Analyte Name	Result	Q	MRL	Note	
74-84-0	Ethane	1.0	U	1.0		

Client: Project: Sample Matrix:	Shaw Environmental & Infras GE MRFA/145599.01 Water	structure, Inc.			Service Request: Date Collected: Date Received: Date Analyzed:	10/23/12 1040 10/24/12
Sample Name: Lab Code:	M-24DR R1207266-003				Units: Basis:	
		Dissolved Gases h	y GC/FII	D		
Analytical Method: Data File Name:	RSK 175 1009.run				Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02
CAS No.	Analyte Name	Result	Q	MRL	Note	
74-84-0	Ethane	1.0	U	1.0		

Client: Project: Sample Matrix:	Shaw Environmental & Infra GE MRFA/145599.01 Water	structure, Inc.			Service Request: Date Collected: Date Received: Date Analyzed:	10/23/12 1120 10/24/12
Sample Name: Lab Code:	11D R1207266-004				Units: Basis:	
		Dissolved Gases b	oy GC/FI	D		
Analytical Method: Data File Name:	RSK 175 1013.run				Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02
CAS No.	Analyte Name	Result	Q	MRL	Note	
74-84-0	Ethane	1.0	U	1.0		



Client: Project: Sample Matrix:	Shaw Environmental & Infra GE MRFA/145599.01 Water	astructure, Inc.			Service Request: Date Collected: Date Received: Date Analyzed:	10/23/12 1200 10/24/12
Sample Name: Lab Code:	M-1 R1207266-005				Units: Basis:	
		Dissolved Gases by	y GC/FII)		
Analytical Method: Data File Name:	RSK 175 1014.run				Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02
CAS No.	Analyte Name	Result	Q	MRL	Note	
74-84-0	Ethane	1.0	U	1.0		



Client: Project: Sample Matrix:	Shaw Environmental & Infr GE MRFA/145599.01 Water	astructure, Inc.			Service Request: Date Collected: Date Received: Date Analyzed:	10/23/12 1230 10/24/12
Sample Name: Lab Code:	MW-4 R1207266-006				Units: Basis:	
		Dissolved Gases I	oy GC.	/FID		
Analytical Method: Data File Name:	RSK 175 1015.run				Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02
CAS No.	Analyte Name	Result	Q	MRL	Note	
74-84-0	Ethane	1.0	U	1.0		

Client: Project: Sample Matrix:	Shaw Environmental & Infr GE MRFA/145599.01 Water	astructure, Inc.			Service Request: Date Collected: Date Received: Date Analyzed:	10/23/12 1330 10/24/12
Sample Name: Lab Code:	10S R1207266-007				Units: Basis:	
		Dissolved Gases by	y GC/FII)		
Analytical Method: Data File Name:	RSK 175 1016.run				Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02
CAS No.	Analyte Name	Result	Q	MRL	Note	
74-84-0	Ethane	1.0	U	1.0		

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Client: Project: Sample Matrix:	Shaw Environmental & Ir GE MRFA/145599.01 Water	ifrastructure, Inc.			Service Request: Date Collected: Date Received: Date Analyzed:	10/23/12 1350 10/24/12
Sample Name: Lab Code:	M-28S R1207266-008				Units: Basis:	
		Dissolved Gases	by GC	C/FID		
Analytical Method: Data File Name:	RSK 175 1017.run				Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02
CAS No.	Analyte Name	Result	Q	MRL	Note	
74-84-0	Ethane	1.0	U	1.0		

Client: Project: Sample Matrix:	Shaw Environmental & Infra GE MRFA/145599.01 Water	Service Request: Date Collected: Date Received: Date Analyzed:	10/23/12 1420 10/24/12			
Sample Name: Lab Code:	13S R1207266-009				Units: Basis:	· +
		Dissolved Gases	oy GC/F	D		
Analytical Method: Data File Name:	RSK 175 1018.run				Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02
CAS No.	Analyte Name	Result	Q	MRL	Note	
74-84-0	Ethane	1.0	U	1.0		

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Client: Project: Sample Matrix:	Shaw Environmental & Infra GE MRFA/145599.01 Water	structure, Inc.		Service Request: Date Collected: Date Received: Date Analyzed:	10/23/12 1450 10/24/12
Sample Name: Lab Code:	13D R1207266-010			Units: Basis:	• •
		Dissolved Gases by (GC/FID		
Analytical Method: Data File Name:	RSK 175 1019.run			Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02
CAS No.	Analyte Name	Result Q	MRL	Note	
74-84-0	Ethane	1.0 U	1.0		

Client: Project: Sample Matrix:	Shaw Environmental & Infras GE MRFA/145599.01 Water	Service Request: Date Collected: Date Received: Date Analyzed:	10/23/12 10/24/12			
Sample Name: Lab Code:	DUPB R1207266-011				Units: Basis:	
		Dissolved Gases b	oy GC/FII)		
Analytical Method: Data File Name:	RSK 175 1020.run				Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02
CAS No.	Analyte Name	Result	Q	MRL	Note	
74-84-0	Ethane	1.0	U	1.0		



Client: Project: Sample Matrix:	Shaw Environmental & Infr GE MRFA/145599.01 Water	astructure, Inc.		Service Request: Date Collected: Date Received: Date Analyzed:	NA NA	
Sample Name: Lab Code:	Method Blank RQ1213092-01				Units: Basis:	
		Dissolved Gases	by GC	C/FID		
Analytical Method: Data File Name:	RSK 175 1001.run				Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02
CAS No.	Analyte Name	Result	Q	MRL	Note	
74-84-0	Ethane	1.0	U	1.0		·····

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Client: Project: Sample Matrix:	Shaw Environmental & 3 GE MRFA/145599.01 Water	Infrastructure, Inc.			Service Request: Date Collected: Date Received: Date Analyzed:	NA NA
Sample Name: Lab Code:	Method Blank RQ1213143-01				Units: Basis:	
		Dissolved Gases b	y GC/	FID		
Analytical Method: Data File Name:	RSK 175 1001.run				Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02
CAS No.	Analyte Name	Result	Q	MRL	Note	
74-84-0	Ethane	1.0	U	1.0		

Now part of the ALS Group QA/QC Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

Service Request: R1207266 Date Collected: 10/23/12 Date Received: 10/24/12 Date Analyzed: 11/ 1/12

Matrix Spike Summary Dissolved Gases by GC/FID

Sample Name:M-28SLab Code:R1207266-008

Units: μg/L Basis: NA

Analytical Method: RSK 175

			M-28SMS Matrix Spike Q1213143-0		M-28SDMS Duplicate Matrix Spike RQ1213143-04					
Analyte Name	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Ethane	ND	56.7	52.1	109	54.8	52.1	105	72 - 139	3	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.



COLUMBIA ANALYTICAL SERVICES,	INC.
Now part of the ALS Group	

. QA/QC Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

Service Request: R1207266 Date Analyzed: 10/31/12

Lab Control Sample Summary Dissolved Gases by GC/FID

Analytical Method: RSK 175

Units: µg/L Basis: NA

Analysis Lot: 316282

		Control Sa Q1213092-0	-		
Analyte Name	Result	Spike Amount	% Rec	% Rec Limits	
Ethane	25.9	26.1	99	82 - 127	· · · · · · · · · · · · · · · · · · ·

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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		COLU		LYTICAL	SERVICES, INC.	
			Ç	A/QC Report	rt	
Client: Project: Sample Matrix:	Shaw Environm GE MRFA/1455 Water			· · ·		Service Request: R1207266 Date Analyzed: 11/ 1/12
				rol Sample I Gases by		
Analytical Method:	RSK 175					Units: µg/L Basis: NA
						Analysis Lot: 316419
			Control Sa RQ1213143-0	•		
Analyte Name		Result	Spike Amount	% Rec	% Rec Limits	
Ethane	, , <u>, , , , , , , , , , , , , , , , , </u>	27.5	26.1	106	82 - 127	

Results flagged with an asterisk (*) indicate values outside control criteria.

Columbia Analytical Services

	C		ETALS NIC ANALYSIS DATA PACKA	AGE	
Contract:	R1207266			SDG No.:	M-25D
Lab Code:		Case No.:	· · · · · · · · · · · · · · · · · · ·	SAS No.:	·
SOW No.:	SW846 CLP-M				
	Sample ID.		Lab Sample No.		
	<u>13D</u>		R1207266-010		
		,			

Comments:	See Attatched	Case	Narrative
	See Anatoneu	Case	TALLAUVE

Were ICP interelement corrections applied?

If yes-were raw data generated before application of background corrections?

Were ICP background corrections applied?

ignature:	Januen Der For:	Name :	Michael Perry
ate:	11/20/201	Title:	Laboratory Director
	COVER	PAGE - IN	

Yes/No

Yes/No

Yes/No

YES

YES

NO

Columbia Analytical Services

METALS -1-INORGANIC ANALYSIS DATA SHEET

		INORGANIC ANALYSIS DATA SHEET	SAMPLE NO.	
			13D	
Contract:	R1207266			ļ
Lab Code:	Case No.:	SAS No.:	SDG NO.: M-25D	
Matrix (soi	1/water): WATER	Lab Sample ID:	R1207266-010	
Level (low/	med): LOW	Date Received:	10/24/2012	

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	С	Q	м
7440-47-3	Chromium	6.6	J		P

Color Before:	COLORLESS	Clarity Before:	CLEAR	Texture:	
Color After:	COLORLESS	Clarity After:	CLEAR	Artifacts:	
Comments:					
_					

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Columbia Analytical Services

METALS

-3-

BLANKS

Contract: <u>R1207266</u> Lab Code:

Le: _____ Case No.: _____ SAS No.: SDG NO.: M-25D

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank		Continuing Calibration Blank (ug/L)					Preparation Blank			
	(ug/L) C	с	1	с	2	с	3	c		c	м
Chromium	0.88	34 U	0.88	4 U	0.8	84 U	0.88	34 U	0.884	<u> </u>	 P

Columbia Analytical Services

METALS

-3-

BLANKS

 Contract:
 R1207266

 Lab Code:
 Case No.:

SDG NO.: M-25D

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank		Continuing Calibration Blank (ug/L)						Preparation Blank		
	(ug/L) C	с	1	С	2	с	3	c		с	м
Chromium			0.88	4 U	0.8	84 U	0.88	34 U			P

Columbia Analytical Services

METALS

-3-

BLANKS

Contract: <u>R1207266</u>

Lab Code: Case No.: SAS No.: SDG NO.: M-25D

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank		Continuing Calibration Blank (ug/L)						Preparation Blank		
	(ug/L)	c	1	с	2	с	3	c		с	м
Chronium	1	11	0.88	4 U		[]			1	<u>'</u>	

METALS

-7-

LABORATORY CONTROL SAMPLE

Contract: R1207266			
Lab Code:	Case No.:	SAS No.:	SDG NO.: M-25D
Solid LCS Source:			
Aqueous LCS Source:	CPI		

	Aqueous	(ug/L				(mg/K		
Analyte	True	Found	ъR	True	Found	с	Limits	%R
Chromium	200	193	96				1	

COLUMBIA ANALYTICAL SERVICES, INC. Now part of the ALS Group

Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:WaterSample Name:13DLab Code:R1207266-010

Service Request: R1207266 Date Collected: 10/23/12 1450 Date Received: 10/24/12

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Date Date Factor Extracted Analyzed Note
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1 NA 10/24/12 12:44



COLUMBIA ANALYTICAL SERVICES, INC. Now part of the ALS Group

Analytical Report

 Client:
 Shaw Environmental & Infrastructure, Inc.

 Project:
 GE MRFA/145599.01

 Sample Matrix:
 Water

Service Request: R1207266 Date Collected: NA Date Received: NA

Sample Name:Method BlankLab Code:R1207266-MB

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Date Date Factor Extracted Analyzed Note
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1 NA 10/24/12 12:42

Now part of the ALS Group QA/QC Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

Service Request: R1207266 Date Analyzed: 10/24/12

Lab Control Sample Summary General Chemistry Parameters

Units: mg/L Basis: NA

			Control San 207266-LC	-	
Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	7196A	0.0963	0.100	96	82 - 121

Results flagged with an asterisk (*) indicate values outside control criteria.

'ercent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

SuperSet Reference: 12-0000228737 rev 00

00083



November 20, 2012

Mr. Brian Neumann Shaw Environmental 13 British American Blvd. Latham, NY 12110

Re: GE MRFA Project #145599.01 Service Request # R1207283

Dear Mr. Neumann:

Enclosed is the analytical data report for the above referenced facility. A total of eleven samples were received by our laboratory on October 25, 2012.

Any problems encountered with this project are addressed in a case narrative section which is presented later in this report.

This report consists of two (2) packages: the sample data package and the sample data summary package. The data package and summary package have been mailed to Judy Harry and the summary package only has been e-mailed to your attention. All data presented in this package has been reviewed prior to report submission. If you should have any questions or concerns, please contact me at (585) 288-5380.

Thank you for your continued use of our services.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

Janice M. Jaeger Project Chemist

enc.

Page 1 of <u>79</u>

cc: Ms. Judy Harry Data Validation Services 818 SE Downing Drive High Springs, FL 32643



ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 PHONE +1 585 288 5380 | FAX+1 585 288 8475 Columbia Analytical Services, Inc. Part of the ALS Group A Campbell Brothers Limited Company

Environmental 🧶

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00001

CASE NARRATIVE

Client:Shaw EnvironmentalProject:GE MRFASample Matrix:Water

Service Request: Project Number: Date Received: R1207283 145599.01 10/25/12

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier IV deliverables. When appropriate to the method, method blank and LCS results have been reported with each analytical test.

Sample Receipt

Samples were collected on 10/24/12 and received at CAS on 10/25/12 at a cooler temperature of 3.2 C in good condition except as noted on the cooler receipt and preservation check form. The samples were stored in a refrigerator at 1 - 6 °C upon receipt at the laboratory.

Inorganic Analysis

Samples were analyzed for a site specific list of inorganics. Please see attached data pages for method numbers.

Site specific QC was performed on M-27D as requested. All MS recoveries and RPD's were acceptable.

The Method Blanks associated with these analyses were free of contamination.

No other analytical or QC problems were encountered.

Metals Analysis

Samples were analyzed for a site specific list of Metals by Methods 6010C.

Site specific QC was performed on M-27D as requested. All MS recoveries and RPD's were acceptable.

All LCS recoveries were within limits.

The Method Blanks associated with these analyses were free of contamination.

No other analytical or QC problems were encountered.

Service Request #R1207283 Page 2

Volatile Organics

Samples were analyzed for a site specific list of Volatile Organics by CLP Method OLC 2.1.

All Tuning criteria for BFB were within QC limits.

All the initial calibration criteria were met for all analytes. Al Continuing Calibration Verification (CCV) standards were within 30% Difference (D) except Bromoform on the 10/31/12 CCV. All positive detections for samples associated with this CCV should be considered as estimated.

All Internal Standard Areas and surrogate standard recoveries were within QC limits.

The LCS recoveries were all acceptable.

Site specific QC was performed on M-27D as requested. All MS/MSD recoveries and RPD's were acceptable.

The Method Blanks associated with these samples were free of contamination except the 10/31/12 blank had low level detections for 1,2,3-Trichlorobenzene and Hexachlorobutadiene. No data was affected.

No other analytical or QC problems were encountered.

<u>RSK-175</u>

Samples were analyzed for Ethane by Method RSK-175M.

All the initial and continuing calibration criteria were met for all analytes.

The LCS recoveries were all acceptable.

Site specific QC was requested on M-27D as requested. All MS/MSD recoveries and RPD's were acceptable.

The Method Blanks associated with these samples were free of contamination.

No other analytical or QC problems were encountered.

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 details conditioned above. Release of the data contained in this data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

CAS ASP/CLP Batching Form/Login Sheet

Client Rep:	R1207283 Shaw Environmental & Infrastructu JJAEGER	Batch Complete: Yes Diskette Requested: No Date: 11/6/12 Custody Seal: Present/Absent: Chain of Custody: Present/Absent:	Date Revised: Date Due: 11/15/12 Protocol: EPA Shipping No.:
		Chain of Custody: Present/Absent:	SDG #: DGC-4S

CAS Job #	Client/EPA ID	Matrix	Requested Parameters	Date Sampled	Date	pH	%	Remarks
R1207283-001	DGC-4S	Water	RSK 175, CLP-VOA OLC02.1	10/24/12	Received	(Solids)	Solids	Sample Condition
R1207283-002	SW-A	Water	RSK 175, CLP-VOA OLC02.1		10/25/12			
R1207283-003	DGC-3S	Water	RSK 175, CLP-VOA OLC02.1	10/24/12	10/25/12			
R1207283-004	SW-G	Water	RSK 175, CLP-VOA OLC02.1	10/24/12	10/25/12			
R1207283-005	SW-F	Water	RSK 175, CLP-VOA OLC02.1	10/24/12	10/25/12			
R1207283-006	SW-E	Water	RSK 175, CLP-VOA OLC02.1	10/24/12	10/25/12			
R1207283-007	SW-D	Water	RSK 175, CLP-VOA OLC02.1	10/24/12	10/25/12			
R1207283-008QC		Water Water	7196A, RSK 175, CLP-VOA	10/24/12	10/25/12			
		valor	OLC02.1, 6010C	10/24/12	10/25/12			
R1207283-009	SW-B	Water		10/01/10				
		water	7196A, RSK 175, CLP-VOA	10/24/12	10/25/12			
R1207283-010	DUP A	Water	OLC02.1, 6010C	40/0 (140				
	201 /1	vvalet	7196A, RSK 175, CLP-VOA	10/24/12	10/25/12			
R1207283-011	TRIP BLANK	Water	OLC02.1, 6010C					
R1207283-012	COOLER BLANK		RSK 175, CLP-VOA OLC02.1	10/24/12	10/25/12			
111201200-012		Water	CLP-VOA OLC02.1	10/24/12	10/25/12			

Folder Comments: need extra 3 compounds, e-mail invoices to Karen and Steve



REPORT QUALIFIERS

- U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
- J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
- * Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
- H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
- # Spike was diluted out.
- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% (25% for CLP) difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
- X See Case Narrative for discussion.



Rochester Lab ID # for State Certifications¹

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NELAP Accredited	Maine ID #NY0032	New Hampshire ID #
Connecticut ID # PH0556	Nebraska Accredited	294100 A/B
Delaware Accredited	Nevada ID # NY-00032	North Carolina #676
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047		Virginia #460167

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the laboratory case narrative provided. For a specific list of accredited analytes, refer to <u>http://alsglobal.com/environmental/laboratories/rochester-environmental-lab.aspx</u>

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM 3890

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE

____OF___

Project Number <u>GEMRFA</u> <u>Project Number</u> <u>145599.01</u> ANALYSIS REQUESTED (Include Method Number and Container Preservative)	ANALYSIS REQUESTED (Include Method Number and Container Preservative)						
Project Manager Brigen Neumann Report CC Commany/Address							
Company/Address							
Shaw Environneutal Inc 13 British Auerican Blud	Preservative Key D. NONE						
13 British Aussian and	1. HCL 2. HNO3						
L' I AMERICAN DIVC	3. H ₂ SO ₄ 4. NaOH						
Lathan NY 12110	5. Zn. Acetate 6. MeOH						
Lathan NY 12110 Phone # 518 785 2354 Sampler's Printed Name Matterny Ma	7. NaHSO4						
Sampler's Signature Natt Dupart	β. Other						
Sampler's Signature Matt Dupart Z S S S S S S S S S S S S S S S S S S S	EMARKS/						
CLIENT CAMPLE ID SAMPLING	TE DESCRIPTION						
DGC-35 1030 6 X X							
$-\frac{5\omega \cdot 6}{100}$ 1100 6 x x							
$S\omega$ -F 1130 6 X X							
SW-E 1145 GX X							
SW-D 1230 $6X$ X							
M-27 D SW-B UP A M-27 D M-27 D M-27 D M-27 D MS/V MS/V NS	ASD Cr/Cr						
SW-B 1345 8 X X X X Chroniu	<u>u + Cr 6</u>						
DUPA XXX X Chronie	un + Cr6						
Trid Blank	<u> </u>						
SPECIAL INSTRUCTIONS/COMMENTS							
Metals Chrowium and Cr+6 REPORT REQUIREMENTS REPORT REQUIREMENTS INVOICE IN	FORMATION						
II. Results + QC Summaries							
TCE Reckdown for vinyl Chloridedaydaydayday							
and ethane Standard THT							
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Proje	ect/Client_	<u>A</u>	and			Folder Numb	er <u>R1</u>	2-7283	<u> </u>	
Cool	er received	on_/	10/25	/2_ by:	_cou	RIER: AL	s des	FEDEX	VELO	OCITY CLIENT
1. 2. 3. 4. 5. 6. 7.	Were cu Did all h Did VQ Were Icu Where d	stody ottle A via e or I id the	v pap s arri Js, A ce pa e bott	ls on outside of co ers properly filled ve in good condit Ikalinity, or Sulfic acks present? cles originate? oler(s) upon recei	out (inl ion (unt le have	oroken)?		YES VES VES YES ALS/R	NO NO NO NO CI	N/A LIENT
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	If No, E	xplai:	n Be	low	1	No N	ō	No	No	No
	Date/Tim	ie Tei	mper	atures Taken:			65/12_	0921		
If out	of Tempe	ratur	e, no	R GUN#3 / IR (ote packing/ice co	GUN#4 ondition	Reading I n &Client A	From: 3 pproval	to Run San	/ Sam	ple Bottle
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2.	Did all bo	ttle la	bels	ls complete ( <i>i.e.</i> a and tags agree wi	naiysis, th custo	preservation dy papers?	, etc.)?	(YES)	NO NO	
3.	Were corr	ect co	ontai	ners used for the t	ests ind	icated?		YES	NO	_
4.				ettes / Tubes Intac	t C	anisters Press	surized	Tedlar®		flated N/A
Explain	any discre	panc	ies:							
pH	Reagent		1	Lot Received	Exp	Sample ID	Vol.	Lot Added	Final	Yes = All
≥12	NaOH	YES			<u> </u>		Added		pH	samples OK
≤2	HNO ₃	X		BDBZG123E	Galiz	<u> </u>	<u> </u>			No =
≤2	H ₂ SO ₄	1	<b></b>	00000000						Samples
<4	NaHSO₄									were
Residual	For TCN			If present, contact	PM to					preserved at lab as listed
Chlorine (-)	Phenol and 522			add ascorbic acid	500)					THE REALESS
<u> </u>	$Na_2S_2O_3$	-		Or sodium sulfite (	322)	*Not to be ter	sted befor	e analysis – pH	ļ	PM OK to
	Zn Aceta	-	-			tested and rec	orded by	VOAs or Gen	Chem	Adjust:
	HCI	*	*	4111100	09/13	on a separate	workshee	t		
Bottle lot Other Con		2-,		2-002,0827		1				

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

### 20007

Shaw Environmental & Infrastructure, Inc.	Service Request: R1207283
GE MRFA/145599.01	Date Collected: 10/24/12 0930
Water	Date Received: 10/25/12
	Date Analyzed: 10/31/12 13:46
DGC-4S	Units: µg/L
R1207283-001	Basis: NA
	GE MRFA/145599.01 Water DGC-4S

# Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4072.D\

74-87-3       Chloromethane       1.0 U       1.0 0.12         156-59-2       cis-1,2-Dichloroethene       1.0 U       1.0 0.10         10061-01-5       cis-1,3-Dichloropropene       1.0 U       1.0 0.12         124-48-1       Dibromochloromethane       1.0 U       1.0 0.10         100-41-4       Ethylbenzene       1.0 U       1.0 0.10	CAS No.	Analyte Name	Result Q	MRL	MDL	Note
79-00-5       1,1/2-Trichloroethane       1.0       U       1.0       0.11         75-34-3       1,1-Dichloroethane (1,1-DCA)       1.0       U       1.0       0.10         75-35-4       1,1-Dichloroethane (1,1-DCE)       1.0       U       1.0       0.11         120-82-1       1,2,4-Trichlorobenzene       1.0       U       1.0       0.12         96-12-8       1,2-Dichoroethane       1.0       U       1.0       0.12         106-93-4       1,2-Dichoroethane       1.0       U       1.0       0.16         107-06-2       1,2-Dichloroethane       1.0       U       1.0       0.10         95-50-1       1,2-Dichlorobenzene       1.0       U       1.0       0.10         78-87-5       1,2-Dichlorobenzene       1.0       U       1.0       0.10         78-93-3       2-Butanone (MEK)       5.0       U       5.0       1.1         79-78-6       2-Hexanone       5.0       U       5.0       0.1         78-93-3       2-Butanone (MEK)       5.0       U       5.0       0.1         74-47-5       Bromochloromethane       1.0       U       1.0       0.10         74-97-5       Bromochlorome	71 <b>-55-6</b>	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.10	
75:34-3       1.1-Dichloroethane (1,1-DCA)       1.0       U       1.0       0.10         75:35-4       1.1-Dichloroethane (1,1-DCB)       1.0       U       1.0       0.11         87:61-6       1,2,3-Trichlorobenzene       1.0       U       1.0       0.11         120:82-1       1,2,4-Trichlorobenzene       1.0       U       1.0       0.12         96:12-8       1,2-Dibromo-3-chloropropane (DBCP)       1.0       U       1.0       0.12         106:93-4       1,2-Dichloroethane       1.0       U       1.0       0.10         95:50-1       1,2-Dichlorobenzene       1.0       U       1.0       0.10         95:50-1       1,2-Dichlorobenzene       1.0       U       1.0       0.10         78:75       1,2-Dichlorobenzene       1.0       U       1.0       0.10         78:47:3       1.3-Dichlorobenzene       1.0       U       1.0       0.10         541:73:1       1.3-Dichlorobenzene       1.0       U       1.0       0.10         78:43:3       2-Butanone (MEK)       5.0       U       5.0       1.1         91:78-6       2-Hexanone       5.0       U       5.0       1.1         71:43:2	79-34-5	1,1,2,2-Tetrachloroethane				
75-35-4       1,1-Dichloroethene (1,1-DCE)       1.0       U       1.0       0.10         87-61-6       1,2,3-Trichlorobenzene       1.0       U       1.0       0.11         120-82-1       1,2,4-Trichlorobenzene       1.0       U       1.0       0.12         96-12-8       1,2-Dibrome-3-chloropropane (DBCP)       1.0       U       1.0       0.24         106-93-4       1,2-Dibrome-thane       1.0       U       1.0       0.10         95-50-1       1,2-Dichlorobenzene       1.0       U       1.0       0.10         95-50-1       1,2-Dichlorobenzene       1.0       U       1.0       0.10         78-87-5       1,2-Dichlorobenzene       1.0       U       1.0       0.10         644-7       1,4-Dichlorobenzene       1.0       U       1.0       0.10         78-33       2-Butanone (MEK)       5.0       U       5.0       1.1         591-78-6       2-Hexanone       5.0       U       5.0       1.1         7143-2       Benzene       1.0       U       1.0       0.10         74-75       Bromodichloromethane       1.0       U       1.0       0.15         75-25       Carbon Disulfide </td <td>79-00-5</td> <td>1,1,2-Trichloroethane</td> <td>1.0 U</td> <td>1.0</td> <td>0.11</td> <td></td>	79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.11	
87-61-6       1,2,3-Trichlorobenzene       1.0       U       1.0       0.11         120-82-1       1,2,4-Trichlorobenzene       1.0       U       1.0       0.24         96-12-8       1,2-Dibromo-3-chloropopane (DBCP)       1.0       U       1.0       0.24         106-93-4       1,2-Dibromo-f-chloropopane (DBCP)       1.0       U       1.0       0.15         107-06-2       1,2-Dichloroeftane       1.0       U       1.0       0.10         95-50-1       1,2-Dichloropopane       1.0       U       1.0       0.10         78-87-5       1,2-Dichloropenzene       1.0       U       1.0       0.10         106-46-7       1,4-Dichlorobenzene       1.0       U       1.0       0.10         78-93-3       2-Butanone (MEK)       5.0       U       5.0       2.1         108-10-1       4-Wethyl-2-pentanone       5.0       U       5.0       2.1         108-10-1       4-Wethyl-2-pentanone       1.0       U       1.0       0.10         75-27-4       Bromodichloromethane       1.0       U       1.0       0.15         75-27-4       Bromodichloromethane       1.0       U       1.0       0.14         5	75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.10	
120-82-11,2,4-Trichlorobenzene1.0U1.00.1296-12-81,2-Dibromo-3-chloropropane (DBCP)1.0U1.00.24106-93-41,2-Dibromoethane1.0U1.00.15107-06-21,2-Dichloroethane1.0U1.00.1095-50-11,2-Dichlorobenzene1.0U1.00.1078-87-51,2-Dichlorobenzene1.0U1.00.10541-73-11,3-Dichlorobenzene1.0U1.00.10106-46-71,4-Dichlorobenzene1.0U1.00.1078-93-32-Butanone (MEK)5.0U5.02.1591-78-62-Hexanone5.0U5.00.9567-64-1Acctone1.2J5.01.171-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1075-25-2Bromochloromethane1.0U1.00.1575-35Carbon Disulfde1.0U1.00.1075-63Chlorobenzene1.0U1.00.1075-25-2Bromochloromethane1.0U1.00.1075-35Carbon Disulfde1.0U1.00.1075-63Chloroform1.0U1.00.1075-64Chloroform1.0U1.00.1076-63Chloroform1.0U1.00.1076	75-35-4	1,1-Dichloroethene (1,1-DCE)		1.0		
96-12-81,2-Dibromo-3-chloropropane (DBCP)1.0U1.00.24106-93-41,2-Dibromoethane1.0U1.00.15107-06-21,2-Dichlorobenzene1.0U1.00.1095-50-11,2-Dichlorobenzene1.0U1.00.1078-87-51,2-Dichlorobenzene1.0U1.00.10541-73-11,3-Dichlorobenzene1.0U1.00.10541-73-21,4-Dichlorobenzene1.0U1.00.1059-78-62-Hexanone5.0U5.02.1108-10-14-Methyl-2-pentanone5.0U5.00.9567-64-1Acetone1.2J5.01.171-43-2Benzene1.0U1.00.1075-25-2Bromochloromethane1.0U1.00.1575-27-4Bromodichloromethane1.0U1.00.1575-25-2Bromochloromethane1.0U1.00.1456-23-5Carbon Tetrachloride1.0U1.00.1075-09-7Chlorobenzene1.0U1.00.1075-09-7Chlorobenzene1.0U1.00.1075-69-2cis-1,3-Dichloropene1.0U1.00.1075-25-2Bromochloromethane1.0U1.00.1076-63Chloropenzene1.0U1.00.1075-69-2cis-1,3-Dichloropenee1.0U<	87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
106-93-41,2-Dibromoethane1.0U1.00.15107-06-21,2-Dichlorobenzene1.0U1.00.1095-50-11,2-Dichloropropane1.0U1.00.1078-87-51,2-Dichlorobenzene1.0U1.00.10541-73-11,3-Dichlorobenzene1.0U1.00.1078-87-52-Bichlorobenzene1.0U1.00.1066-671,4-Dichlorobenzene1.0U1.00.1078-932-Butanone (MEK)5.0U5.02.1108-10-14-Methyl-2-pentanone5.0U5.02.1108-10-14-Methyl-2-pentanone5.0U5.01.171-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1575-27-4Bromodchloromethane1.0U1.00.1674-83-9Bromomethane1.0U1.00.1456-23-5Carbon Disulfide1.0U1.00.1075-00-3Chlorobenzene1.0U1.00.1075-03-3Chlorobenzene1.0U1.00.1074-87-3Chlorobenzene1.0U1.00.1075-02-2cis-1,3-Dichloropropene1.0U1.00.1074-87-3Chlorobenzene1.0U1.00.1075-03-3Chlorobenzene1.0U1.00.10 <td>120-82-1</td> <td>1,2,4-Trichlorobenzene</td> <td>1.0 U</td> <td>1.0</td> <td>0.12</td> <td></td>	120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.12	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.24	
95-50-11,2-Dichlorobenzene1.0U1.00.1078-87-51,2-Dichloropropane1.0U1.00.10541-73-11,3-Dichlorobenzene1.0U1.00.10106-46-71,4-Dichlorobenzene1.0U1.00.1078-93-32-Butanone (MEK)5.0U5.01.1591-78-62-Hexanone5.0U5.00.9567-64-1Acetone1.2J5.01.171-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1575-27-4Bromodichloromethane1.0U1.00.1574-83-9Bromomethane1.0U1.00.1456-23-5Carbon Disulfide1.0U1.00.1075-03-3Chlorobenzene1.0U1.00.1075-04Choroform1.0U1.00.1075-05-3Carbon Disulfide1.0U1.00.1067-66-3Chlorobenzene1.0U1.00.1067-66-3Chloroform1.0U1.00.1074-73-3Chlorobenzene1.0U1.00.1075-00-3Chlorobenzene1.0U1.00.1075-03-3Chlorobenzene1.0U1.00.1075-04-3Chlorobenzene1.0U1.00.1075-05-3Chlorobenzene	106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.15	
78-87-51,2-Dichloropropane1.0U1.00.10 $541-73-1$ 1,3-Dichlorobenzene1.0U1.00.10 $106-46-7$ 1,4-Dichlorobenzene1.0U1.00.10 $78-93-3$ 2-Butanone (MEK)5.0U5.01.1 $591-78-6$ 2-Hexanone5.0U5.02.1 $108-10-1$ 4-Methyl-2-pentanone5.0U5.00.95 $67-64-1$ Acetone1.2J5.01.1 $71-43-2$ Benzene1.0U1.00.10 $74-97-5$ Bromochloromethane1.0U1.00.10 $75-27-4$ Bromodichloromethane1.0U1.00.15 $75-27-4$ Bromomethane1.0U1.00.14 $56-23-5$ Carbon Disulfide1.0U1.00.14 $56-23-5$ Carbon Tetrachloride1.0U1.00.10 $75-0-3$ Chlorobenzene1.0U1.00.10 $74-87-3$ Chloroform1.0U1.00.10 $74-87-3$ Chloroform1.0U1.00.10 $74-87-3$ Chloroforpopopene1.0U1.00.10 $74-84-1$ Dibronochloromethane1.0U1.00.10 $75-15-0$ Carbon Tetrachloride1.0U1.00.10 $75-15-0$ Carbon Tetrachloride1.0U1.00.10 $75-00-3$ Chloroform1.0U<	107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.10	
541-73-1 $1,3$ -Dichlorobenzene $1.0$ $U$ $1.0$ $0.10$ $106-46-7$ $1,4$ -Dichlorobenzene $1.0$ $U$ $1.0$ $0.10$ $78-93-3$ $2$ -Butanone (MEK) $5.0$ $U$ $5.0$ $1.1$ $591-78-6$ $2$ -Hexanone $5.0$ $U$ $5.0$ $2.1$ $108-10-1$ $4$ -Methyl-2-pentanone $5.0$ $U$ $5.0$ $0.95$ $67-64-1$ Acetone $1.2$ $J$ $5.0$ $1.1$ $71-43-2$ Benzene $1.0$ $U$ $1.0$ $0.10$ $74-97-5$ Bromochloromethane $1.0$ $U$ $1.0$ $0.15$ $75-27-4$ Bromodichloromethane $1.0$ $U$ $1.0$ $0.15$ $74-83-9$ Bromomethane $1.0$ $U$ $1.0$ $0.15$ $74-83-9$ Bromomethane $1.0$ $U$ $1.0$ $0.14$ $56-23-5$ Carbon Disulfide $1.0$ $U$ $1.0$ $0.10$ $75-00-3$ Chlorobenzene $1.0$ $U$ $1.0$ $0.10$ $75-03-3$ Chloromethane $1.0$ $U$ $1.0$ $0.10$ $74-87-3$ Chloromethane $1.0$ $U$ $1.0$ $0.10$ $74-87-3$ Chloromethane $1.0$ $U$ $1.0$ $0.12$ $156-59-2$ cis- $1,3$ -Dichloropropene $1.0$ $U$ $1.0$ $0.10$ $10061-01-5$ cis- $1,3$ -Dichloropropene $1.0$ $U$ $1.0$ $0.10$ $1004-14$ Ethylbenzene $1.0$ $U$ $1.0$ $0.10$ <tr< td=""><td>95-50-1</td><td>1,2-Dichlorobenzene</td><td>1.0 U</td><td>1.0</td><td></td><td></td></tr<>	95-50-1	1,2-Dichlorobenzene	1.0 U	1.0		
106-46-71,4-Dichlorobenzene1.0U1.00.10 $78-93-3$ 2-Butanone (MEK)5.0U5.01.1 $591-78-6$ 2-Hexanone5.0U5.02.1 $108-10-1$ 4-Methyl-2-pentanone5.0U5.00.95 $67-64-1$ Acetone <b>1.2</b> J5.01.1 $71-43-2$ Benzene1.0U1.00.10 $74-97-5$ Bromochloromethane1.0U1.00.15 $75-27-4$ Bromodichloromethane1.0U1.00.15 $75-25-2$ Bromoform1.0U1.00.14 $75-25-2$ Bromodichloromethane1.0U1.00.14 $75-25-2$ Bromodichloromethane1.0U1.00.14 $75-25-2$ Bromodichloromethane1.0U1.00.14 $75-25-2$ Bromomethane1.0U1.00.14 $75-25-2$ Bromodichloromethane1.0U1.00.10 $75-25-2$ Carbon Disulfide1.0U1.00.10 $108-90-7$ Chlorobenzene1.0U1.00.10 $75-06-3$ Chloroform1.0U1.00.10 $74-87-3$ Chloromethane1.0U1.00.12 $156-59-2$ cis-1,2-Dichloroethene1.0U1.00.12 $1061-01-5$ cis-1,3-Dichloroppene1.0U1.00.10 $10041-4$ Ethylbenzene1.0 <td< td=""><td>78-87-5</td><td>1,2-Dichloropropane</td><td>1.0 U</td><td>1.0</td><td>0.10</td><td></td></td<>	78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
106-46-71,4-Dichlorobenzene1.0U1.00.10 $78-93-3$ 2-Butanone (MEK)5.0U5.01.1 $591-78-6$ 2-Hexanone5.0U5.02.1 $108-10-1$ 4-Methyl-2-pentanone5.0U5.00.95 $67-64-1$ Acetone <b>1.2</b> J5.01.1 $71-43-2$ Benzene1.0U1.00.10 $74-97-5$ Bromochloromethane1.0U1.00.15 $75-27-4$ Bromodichloromethane1.0U1.00.15 $75-25-2$ Bromoform1.0U1.00.14 $75-25-2$ Bromodichloromethane1.0U1.00.14 $75-25-2$ Bromodichloromethane1.0U1.00.14 $75-25-2$ Bromodichloromethane1.0U1.00.14 $75-25-2$ Bromomethane1.0U1.00.14 $75-25-2$ Bromodichloromethane1.0U1.00.10 $75-25-2$ Carbon Disulfide1.0U1.00.10 $108-90-7$ Chlorobenzene1.0U1.00.10 $75-06-3$ Chloroform1.0U1.00.10 $74-87-3$ Chloromethane1.0U1.00.12 $156-59-2$ cis-1,2-Dichloroethene1.0U1.00.12 $1061-01-5$ cis-1,3-Dichloroppene1.0U1.00.10 $10041-4$ Ethylbenzene1.0 <td< td=""><td>541-73-1</td><td>1,3-Dichlorobenzene</td><td>1.0 U</td><td>1.0</td><td>0.10</td><td></td></td<>	541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.10	
591-78-62-Hexanone $5.0$ U $5.0$ $2.1$ $108-10-1$ 4-Methyl-2-pentanone $5.0$ U $5.0$ $0.95$ $67-64-1$ Acetone $1.2$ J $5.0$ $1.1$ $71-43-2$ Benzene $1.0$ U $1.0$ $0.10$ $74-97-5$ Bromochloromethane $1.0$ U $1.0$ $0.15$ $75-27-4$ Bromodichloromethane $1.0$ U $1.0$ $0.15$ $75-27-4$ Bromomethane $1.0$ U $1.0$ $0.15$ $75-27-4$ Bromomethane $1.0$ U $1.0$ $0.15$ $74-83-9$ Bromomethane $1.0$ U $1.0$ $0.14$ $75-25-2$ Carbon Disulfide $1.0$ U $1.0$ $0.14$ $56-23-5$ Carbon Tetrachloride $1.0$ U $1.0$ $0.10$ $75-00-3$ Chlorobenzene $1.0$ U $1.0$ $0.10$ $75-00-3$ Chloroform $1.0$ $U$ $1.0$ $0.10$ $74-87-3$ Chloromethane $1.0$ $U$ $1.0$ $0.10$ $126+92-2$ cis-1,3-Dichloropropene $1.0$ $U$ $1.0$ $0.10$ $10061-01-5$ cis-1,3-Dichloropropene $1.0$ $U$ $1.0$ $0.10$ $100-41-4$ Ethylbenzene $1.0$			1.0 U	1.0	0.10	
108-10-14-Methyl-2-pentanone $5.0$ U $5.0$ $0.95$ $67-64-1$ Acetone $1.2$ J $5.0$ $1.1$ $71-43-2$ Benzene $1.0$ U $1.0$ $0.10$ $74-97-5$ Bromochloromethane $1.0$ U $1.0$ $0.15$ $75-27-4$ Bromodichloromethane $1.0$ $U$ $1.0$ $0.15$ $75-27-4$ Bromodichloromethane $1.0$ $U$ $1.0$ $0.15$ $75-27-4$ Bromodichloromethane $1.0$ $U$ $1.0$ $0.15$ $75-27-4$ Bromodichloromethane $1.0$ $U$ $1.0$ $0.16$ $75-27-4$ Bromodichloromethane $1.0$ $U$ $1.0$ $0.14$ $56-23-5$ Carbon Tetrachloride $1.0$ $U$ $1.0$ $0.10$ $108-90-7$ Chlorobenzene $1.0$ $U$ $1.0$ $0.10$ $75-00-3$ Chloroform $1.0$ $U$ $1.0$ $0.10$ $75-63-3$ Chloroform $1.0$ $U$ $1.0$ $0.10$ $1061-01-5$ cis- $1,3-Dichloropropene$ $1.0$ $U$ $1.0$ $0.10$ $100-11-5$ cis- $1,3-Dichloropropene$ $1.0$ $U$ $1.0$ </td <td>78-93-3</td> <td>2-Butanone (MEK)</td> <td>5.0 U</td> <td>5.0</td> <td>1.1</td> <td></td>	78-93-3	2-Butanone (MEK)	5.0 U	5.0	1.1	
67-64-1Acetone1.2 J5.01.1 $71-43-2$ Benzene1.0 U1.00.10 $74-97-5$ Bromochloromethane1.0 U1.00.15 $75-27-4$ Bromodichloromethane1.0 U1.00.10 $75-25-2$ Bromoform1.0 U1.00.15 $74-83-9$ Bromomethane1.0 U1.00.23 $75-15-0$ Carbon Disulfide1.0 U1.00.14 $56-23-5$ Carbon Tetrachloride1.0 U1.00.10 $108-90-7$ Chlorobenzene1.0 U1.00.10 $75-60-3$ Chloroform1.0 U1.00.10 $67-66-3$ Chloroform1.0 U1.00.12 $156-59-2$ cis-1,2-Dichloroethene1.0 U1.00.12 $10061-01-5$ cis-1,3-Dichloropropene1.0 U1.00.10 $100-41-4$ Ethylbenzene1.0 U1.00.10 $87-68-3$ Hexachlorobutadiene1.0 U1.00.10	591-78-6	2-Hexanone	5.0 U	5.0	2.1	
71-43-2Benzene1.0U1.00.10 $74-97-5$ Bromochloromethane1.0U1.00.15 $75-27-4$ Bromodichloromethane1.0U1.00.10 $75-25-2$ Bromoform1.0U1.00.15 $74-83-9$ Bromomethane1.0U1.00.23 $75-15-0$ Carbon Disulfide1.0U1.00.14 $56-23-5$ Carbon Tetrachloride1.0U1.00.10 $108-90-7$ Chlorobenzene1.0U1.00.10 $75-06-3$ Chloroform1.0U1.00.10 $67-66-3$ Chloroform1.0U1.00.10 $74-87-3$ Chloromethane1.0U1.00.10 $1061-01-5$ cis-1,3-Dichloropropene1.0U1.00.12 $124-48-1$ Dibromochloromethane1.0U1.00.10 $100-41-4$ Ethylbenzene1.0U1.00.10 $87-68-3$ Hexachlorobutadiene1.0U1.00.10	108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.95	
74-97-5Bromochloromethane1.0U1.0 $0.15$ 75-27-4Bromodichloromethane1.0U1.0 $0.10$ 75-25-2Bromoform1.0U1.0 $0.15$ 74-83-9Bromomethane1.0U1.0 $0.23$ 75-15-0Carbon Disulfide1.0U1.0 $0.14$ 56-23-5Carbon Tetrachloride1.0U1.0 $0.10$ 108-90-7Chlorobenzene1.0U1.0 $0.10$ 75-03Chloroform1.0U1.0 $0.10$ 67-66-3Chloroform1.0U1.0 $0.10$ 74-87-3Chloromethane1.0U1.0 $0.10$ 1061-01-5cis-1,3-Dichloropropene1.0U1.0 $0.12$ 124-48-1Dibromochloromethane1.0U1.0 $0.10$ 100-41-4Ethylbenzene1.0U1.0 $0.10$ 87-68-3Hexachlorobutadiene1.0U1.0 $0.10$	67-64-1	Acetone	<b>1.2</b> J	5.0	1.1	
75-27-4Bromodichloromethane $1.0$ $1.0$ $0.10$ 75-25-2Bromoform $1.0$ $U$ $1.0$ $0.15$ 74-83-9Bromomethane $1.0$ $U$ $1.0$ $0.23$ 75-15-0Carbon Disulfide $1.0$ $U$ $1.0$ $0.14$ 56-23-5Carbon Tetrachloride $1.0$ $U$ $1.0$ $0.10$ 108-90-7Chlorobenzene $1.0$ $U$ $1.0$ $0.10$ 75-00-3Chlorofethane $1.0$ $U$ $1.0$ $0.10$ 67-66-3Chloroform $1.0$ $U$ $1.0$ $0.10$ 74-87-3Chlorofethane $1.0$ $U$ $1.0$ $0.10$ 156-59-2cis-1,2-Dichloroethene $1.0$ $U$ $1.0$ $0.12$ 10061-01-5cis-1,3-Dichloropropene $1.0$ $U$ $1.0$ $0.10$ 10061-01-5cis-1,3-Dichloromethane $1.0$ $U$ $1.0$ $0.10$ 10041-4Ethylbenzene $1.0$ $U$ $1.0$ $0.10$ 87-68-3Hexachlorobutadiene $1.0$ $U$ $1.0$ $0.10$	71-43-2	Benzene	1.0 U	1.0	0.10	
75-25-2Bromoform $1.0$ $U$ $1.0$ $0.15$ 74-83-9Bromomethane $1.0$ $U$ $1.0$ $0.23$ 75-15-0Carbon Disulfide $1.0$ $U$ $1.0$ $0.14$ 56-23-5Carbon Tetrachloride $1.0$ $U$ $1.0$ $0.10$ 108-90-7Chlorobenzene $1.0$ $U$ $1.0$ $0.10$ 75-00-3Chloroethane $1.0$ $U$ $1.0$ $0.10$ 67-66-3Chloroform $1.0$ $U$ $1.0$ $0.10$ 67-66-3Chloromethane $1.0$ $U$ $1.0$ $0.10$ 74-87-3Chloromethane $1.0$ $U$ $1.0$ $0.12$ 156-59-2cis-1,2-Dichloroethene $1.0$ $U$ $1.0$ $0.12$ 10061-01-5cis-1,3-Dichloropropene $1.0$ $U$ $1.0$ $0.10$ 100-41-4Ethylbenzene $1.0$ $U$ $1.0$ $0.10$ 87-68-3Hexachlorobutadiene $1.0$ $U$ $1.0$ $0.10$	74-97-5	Bromochloromethane	1.0 U	1.0	0.15	
74-83-9Bromomethane1.0U1.00.23 $75-15-0$ Carbon Disulfide1.0U1.00.14 $56-23-5$ Carbon Tetrachloride1.0U1.00.10 $108-90-7$ Chlorobenzene1.0U1.00.10 $75-00-3$ Chloroethane1.0U1.00.10 $67-66-3$ Chloroform1.0U1.00.10 $74-87-3$ Chloromethane1.0U1.00.12 $156-59-2$ cis-1,2-Dichloroethene1.0U1.00.12 $10061-01-5$ cis-1,3-Dichloropropene1.0U1.00.10 $100-41-4$ Ethylbenzene1.0U1.00.10 $87-68-3$ Hexachlorobutadiene1.0U1.00.10	75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	75-25-2	Bromoform	1.0 U	1.0	0.15	
56-23-5       Carbon Tetrachloride       1.0       U       1.0       0.10         108-90-7       Chlorobenzene       1.0       U       1.0       0.10         75-00-3       Chloroethane       1.0       U       1.0       0.10         67-66-3       Chloroform       1.0       U       1.0       0.10         74-87-3       Chloromethane       1.0       U       1.0       0.12         156-59-2       cis-1,2-Dichloroethene       1.0       U       1.0       0.10         10061-01-5       cis-1,3-Dichloropropene       1.0       U       1.0       0.12         124-48-1       Dibromochloromethane       1.0       U       1.0       0.10         100-41-4       Ethylbenzene       1.0       U       1.0       0.10         87-68-3       Hexachlorobutadiene       1.0       U       1.0       0.10	74-83-9	Bromomethane				
108-90-7       Chlorobenzene       1.0 U       1.0 0.10         75-00-3       Chloroethane       1.0 U       1.0 0.10         67-66-3       Chloroform       1.0 U       1.0 0.10         74-87-3       Chloromethane       1.0 U       1.0 0.12         156-59-2       cis-1,2-Dichloroethene       1.0 U       1.0 0.12         10061-01-5       cis-1,3-Dichloropropene       1.0 U       1.0 0.12         124-48-1       Dibromochloromethane       1.0 U       1.0 0.10         100-41-4       Ethylbenzene       1.0 U       1.0 0.10         87-68-3       Hexachlorobutadiene       1.0 U       1.0 0.10	75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
75-00-3       Chloroethane       1.0 U       1.0 0.10         67-66-3       Chloroform       1.0 U       1.0 0.10         74-87-3       Chloromethane       1.0 U       1.0 0.12         156-59-2       cis-1,2-Dichloroethene       1.0 U       1.0 0.12         10061-01-5       cis-1,3-Dichloropropene       1.0 U       1.0 0.12         124-48-1       Dibromochloromethane       1.0 U       1.0 0.10         100-41-4       Ethylbenzene       1.0 U       1.0 0.10         87-68-3       Hexachlorobutadiene       1.0 U       1.0 0.10	56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.10	
	108 <b>-</b> 90-7	Chlorobenzene				
74-87-3       Chloromethane       1.0 U       1.0 0.12         156-59-2       cis-1,2-Dichloroethene       1.0 U       1.0 0.10         10061-01-5       cis-1,3-Dichloropropene       1.0 U       1.0 0.12         124-48-1       Dibromochloromethane       1.0 U       1.0 0.10         100-41-4       Ethylbenzene       1.0 U       1.0 0.10         87-68-3       Hexachlorobutadiene       1.0 U       1.0 0.10	75-00-3	Chloroethane	1.0 U	1.0	0.10	
156-59-2       cis-1,2-Dichloroethene       1.0       U       1.0       0.10         10061-01-5       cis-1,3-Dichloropropene       1.0       U       1.0       0.12         124-48-1       Dibromochloromethane       1.0       U       1.0       0.10         100-41-4       Ethylbenzene       1.0       U       1.0       0.10         87-68-3       Hexachlorobutadiene       1.0       U       1.0       0.10	67-66-3	Chloroform	1.0 U	1.0	0.10	
10061-01-5       cis-1,3-Dichloropropene       1.0       U       1.0       0.12         124-48-1       Dibromochloromethane       1.0       U       1.0       0.10         100-41-4       Ethylbenzene       1.0       U       1.0       0.10         87-68-3       Hexachlorobutadiene       1.0       U       1.0       0.10	74-87-3	Chloromethane				
124-48-1       Dibromochloromethane       1.0       U       1.0       0.10         100-41-4       Ethylbenzene       1.0       U       1.0       0.10         87-68-3       Hexachlorobutadiene       1.0       U       1.0       0.10	156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.10	
100-41-4         Ethylbenzene         1.0         U         1.0         0.10           87-68-3         Hexachlorobutadiene         1.0         U         1.0         0.10	10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.12	
87-68-3 Hexachlorobutadiene 1.0 U 1.0 0.10	124-48-1					
	100-41-4	Ethylbenzene	1.0 U	1.0	0.10	
179601-23-1 m,p-Xylenes 1.0 U 1.0 0.12	87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	
	179601-23-1	m,p-Xylenes	1.0 U	1.0	0.12	

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207283
Project:	GE MRFA/145599.01	Date Collected: 10/24/12 0930
Sample Matrix:	Water	Date Received: 10/25/12
Sample Name: Lab Code:	DGC-4S R1207283-001	Date Received: 10/25/12 Date Analyzed: 10/31/12 13:46 Units: µg/L Basis: NA

# Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: Data File Name:	CLP-VOA OLC02.1 I:\ACQUDATA\MSVOA6\DATA\103112\Z4072.D\			Analysis Lot: 316261 Instrument Name: R-MS-06 Dilution Factor: 1	
CAS No.	Analyte Name	Result Q	MRL	MDL	Note
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.10	·····
95-47-6	o-Xylene	1.0 U	1.0	0.10	
100-42-5	Styrene	1.0 U	1.0	0.10	
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10	
108-88-3	Toluene	1.0 U	1.0	0.10	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.10	
79-01-6	Trichloroethene (TCE)	1.0 U	1.0	0.10	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.10	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.10	

Surrogate Name	%Rec	Control Limits	Date Analyzed Q
4-Bromofluorobenzene	95	80-120	10/31/12 13:46



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Analytical Report

Client: Project: Sample Matrix:	Shaw Environmental & Infrastructure, Inc. GE MRFA/145599.01 Water	Service Request: Date Collected: Date Received: Date Analyzed:	10/24/12 10/25/12
	Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS	·	
Sample Name: Lab Code:	DGC-4S R1207283-001	Units: Basis:	

CAS # Analy	vte Name	RT	Result Q	
Analytical Method:	CLP-VOA OLC02.1			
Lab Code:	R1207283-001			Basis: NA

No Tentatively Identified Compounds Detected.

Comments:

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207283	;
Project:	GE MRFA/145599.01	Date Collected: 10/24/12	1000
Sample Matrix:	Water	Date Received: 10/25/12	
		Date Analyzed: 10/31/12	4:21
Sample Name:	SW-A	Units: µg/L	
Lab Code:	R1207283-002	Basis: NA	

# Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4073.D\

Analysis Lot: 316261 Instrument Name: R-MS-06

Dilution Factor: 1

75-15-0       Carbon Disulfide       1.0       U       1.0       0.14         56-23-5       Carbon Tetrachloride       1.0       U       1.0       0.10         108-90-7       Chlorobenzene       1.0       U       1.0       0.10         75-00-3       Chlorobenzene       1.0       U       1.0       0.10         67-66-3       Chloroform       1.0       U       1.0       0.10         67-66-3       Chloromethane       1.0       U       1.0       0.10         74-87-3       Chloromethane       1.0       U       1.0       0.12         156-59-2       cis-1,2-Dichloroethene       1.0       U       1.0       0.12         10061-01-5       cis-1,3-Dichloropropene       1.0       U       1.0       0.10         10041-4       Ethylbenzene       1.0       U       1.0       0.10         100-41-4       Ethylbenzene       1.0       U       1.0       0.10         87-68-3       Hexachlorobutadiene       1.0       U       1.0       0.10	CAS No.	Analyte Name	Result Q	MRL	MDL	Note
79-00-5       1,1/2-Trichloroethane       1.0       1.0       0.11         75-34-3       1,1-Dichloroethane (1,1-DCA)       1.0       U       1.0       0.10         75-35-4       1,1-Dichloroethane (1,1-DCE)       1.0       U       1.0       0.11         120-82-1       1,2,4-Trichlorobenzene       1.0       U       1.0       0.11         120-82-1       1,2,4-Trichlorobenzene       1.0       U       1.0       0.12         96-12-8       1,2-Dichoroethane       1.0       U       1.0       0.15         106-93-4       1,2-Dichloroethane       1.0       U       1.0       0.10         95-50-1       1,2-Dichloroethane       1.0       U       1.0       0.10         95-75-1       1,2-Dichlorobenzene       1.0       U       1.0       0.10         541-73-1       1,3-Dichlorobenzene       1.0       U       1.0       0.10         78-93-3       2-Butanone (MEK)       5.0       U       5.0       1.1         71-43-2       Benzene       1.0       U       1.0       0.10         75-52-2       Bromochloromethane       1.0       U       1.0       0.10         75-50       Carbon Disulfide	71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.10	
75-34-3       1,1-Dichloroethane (1,1-DCA)       1.0       U       1.0       0.10         75-35-4       1,1-Dichloroethane (1,1-DCE)       1.0       U       1.0       0.11         87-61-6       1,2,3-Trichlorobenzene       1.0       U       1.0       0.11         96-12-8       1,2-Dibromo-3-chloropropane (DBCP)       1.0       U       1.0       0.24         96-12-8       1,2-Dibromo-3-chloropropane (DBCP)       1.0       U       1.0       0.12         95-30-1       1,2-Dichlorobenzene       1.0       U       1.0       0.10         95-50-1       1,2-Dichlorobenzene       1.0       U       1.0       0.10         78-87-5       1,2-Dichlorobenzene       1.0       U       1.0       0.10         78-93-3       2-Butanone (MEK)       5.0       U       5.0       1.1         91-78-6       2-Hexanone       5.0       U       5.0       1.1         7	79-34-5	1,1,2,2-Tetrachloroethane	1. <b>0</b> U	1.0	0.10	
75-35-4       1,1-Dichloroethene (1,1-DCE)       1.0       U       1.0       0.10         87-61-6       1,2,3-Trichlorobenzene       1.0       U       1.0       0.11         120-82-1       1,2,4-Trichlorobenzene       1.0       U       1.0       0.12         96-12-8       1,2-Dibromo-3-chloropropane (DBCP)       1.0       U       1.0       0.24         106-93-4       1,2-Dibromo-thane       1.0       U       1.0       0.10         95-50-1       1,2-Dichlorobenzene       1.0       U       1.0       0.10         78-87-5       1,2-Dichlorobenzene       1.0       U       1.0       0.10         78-93-3       2-Butanone (MEK)       5.0       U       5.0       1.1         71-43-2	79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.11	
87-61-6       1,2,3-Trichlorobenzene       1.0       U       1.0       0.11         120-82-1       1,2,4-Trichlorobenzene       1.0       U       1.0       0.12         96-12-8       1,2-Dibromo-3-chioropropane (DBCP)       1.0       U       1.0       0.44         106-93-4       1,2-Dibromo-strethane       1.0       U       1.0       0.15         107-06-2       1,2-Dichlorobenzene       1.0       U       1.0       0.10         95-50-1       1,2-Dichlorobenzene       1.0       U       1.0       0.10         78-87-5       1,2-Dichlorobenzene       1.0       U       1.0       0.10         78-87-5       1,2-Dichlorobenzene       1.0       U       1.0       0.10         78-73       2.Butanone (MEK)       5.0       U       5.0       1.1         78-74-6       2-Hexanone       5.0       U       5.0       2.1         108-10-1       4-Wethyl-2-pentanone       5.0       U       5.0       1.1         71-43-2       Benzene       1.0       U       1.0       0.15         75-27-4       Bromodichloromethane       1.0       U       1.0       0.16         75-27-5       Carbon Disulfide	75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.10	
120-82-1       1,2,4-Trichlorobenzene       1.0       U       1.0       0.12         96-12-8       1,2-Dibromo-3-chloropropane (DBCP)       1.0       U       1.0       0.24         106-93-4       1,2-Dibromoethane       1.0       U       1.0       0.15         107-06-2       1,2-Dichloroethane       1.0       U       1.0       0.10         95-50-1       1,2-Dichlorobenzene       1.0       U       1.0       0.10         78-87-5       1,2-Dichlorobenzene       1.0       U       1.0       0.10         541-73-1       1,3-Dichlorobenzene       1.0       U       1.0       0.10         541-73-1       1,4-Dichlorobenzene       1.0       U       1.0       0.10         7143-2	75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.10	
96-12-8       1,2-Dibromo-3-chloropropane (DBCP)       1.0       U       1.0       0.24         106-93-4       1,2-Dibromoethane       1.0       U       1.0       0.15         107-06-2       1,2-Dichlorobenzene       1.0       U       1.0       0.10         95-50-1       1,2-Dichlorobenzene       1.0       U       1.0       0.10         78-87-5       1,2-Dichlorobenzene       1.0       U       1.0       0.10         541-73-1       1,3-Dichlorobenzene       1.0       U       1.0       0.10         541-73-1       1,3-Dichlorobenzene       1.0       U       1.0       0.10         541-73-1       1,3-Dichlorobenzene       1.0       U       1.0       0.10         541-73-1       1,4-Dichlorobenzene       1.0       U       1.0       0.10         541-73-1       1,4-Dichlorobenzene       5.0       U       5.0       2.1         591-78-6       2-Hexanone       5.0       U       5.0       0.11         71-43-2       Benzene       1.0       U       1.0       0.10         74-97-5       Bromochloromethane       1.0       U       1.0       0.15         75-25-2       Bromochloromethan	87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
106-93-41,2-Dibromoethane1.0U1.00.15 $107-06-2$ 1,2-Dichlorobenzene1.0U1.00.10 $95-50-1$ 1,2-Dichlorobenzene1.0U1.00.10 $78-87-5$ 1,2-Dichlorobenzene1.0U1.00.10 $541-73-1$ 1,3-Dichlorobenzene1.0U1.00.10 $78-87-5$ 1,4-Dichlorobenzene1.0U1.00.10 $78-97-3$ 2-Butanone (MEK)5.0U5.01.1 $78-78-6$ 2-Hexanone5.0U5.00.95 $67-64-1$ Acetone5.0U5.00.10 $74-97-5$ Bromochloromethane1.0U1.00.10 $74-97-5$ Bromochloromethane1.0U1.00.15 $75-27-4$ Bromodchloromethane1.0U1.00.16 $74-83-9$ Bromodchloromethane1.0U1.00.16 $75-25-2$ Bromodchloromethane1.0U1.00.16 $75-25-2$ Bromomothane1.0U1.00.10 $75-25-2$ Carbon Disulfide1.0U1.00.10 $75-00-3$ Chlorobenzene1.0U1.00.10 $75-00-3$ Chlorobenzene1.0U1.00.10 $75-03-3$ Chlorobenzene1.0U1.00.10 $75-65-3$ Chlorobenzene1.0U1.00.10 $76-65-3$ Chlorobenzene1.0<	120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.12	
107-06-21,2-Dichloroethane1.0U1.00.1095-50-11,2-Dichlorobenzene1.0U1.00.1078-87-51,2-Dichlorobenzene1.0U1.00.10541-73-11,3-Dichlorobenzene1.0U1.00.10106-46-71,4-Dichlorobenzene1.0U1.00.1078-93-32-Butanone (MEK)5.0U5.01.1591-78-62-Hexanone5.0U5.00.9567-64-1Acetone5.0U5.00.1071-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1075-27-4Bromodichloromethane1.0U1.00.1075-25-2Bromomethane1.0U1.00.1574-83-9Bromomethane1.0U1.00.1075-0.3Carbon Disulfide1.0U1.00.1067-66-3Chlorobenzene1.0U1.00.1067-66-3Chlorobenzene1.0U1.00.1074-87-3Chlorobenzene1.0U1.00.1074-87-3Chlorobenzene1.0U1.00.1075-03Chlorobenzene1.0U1.00.1074-87-3Chloromethane1.0U1.00.1216-59-2cis-1,3-Dichloropropene1.0U1.00.101061-01-5<	96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.24	
95-50-11,2-Dichlorobenzene1.0U1.00.1078-87-51,2-Dichloropropane1.0U1.00.10541-73-11,3-Dichlorobenzene1.0U1.00.10106-46-71,4-Dichlorobenzene1.0U1.00.1078-93-32-Butanone (MEK)5.0U5.01.1591-78-62-Hexanone5.0U5.00.9567-64-1Acetone5.0U5.01.171-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1575-27-4Bromochloromethane1.0U1.00.1575-25-2Bromomethane1.0U1.00.1675-25-3Carbon Disulfide1.0U1.00.1075-15-0Carbon Disulfide1.0U1.00.1075-0-3Chlorobenzene1.0U1.00.1076-63Chlorobenzene1.0U1.00.1067-66-3Chlorobenzene1.0U1.00.1074-87-3Chlorobenzene1.0U1.00.1074-87-3Chlorobenzene1.0U1.00.1075-0-3Chlorobenzene1.0U1.00.1074-87-3Chlorobenzene1.0U1.00.1074-87-3Chlorobenzene1.0U1.00.10106-10-1-5cis-1,3-Dich	106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.15	
78-87-5       1,2-Dichloropropane       1.0       U       1.0       0.10 $541-73-1$ 1,3-Dichlorobenzene       1.0       U       1.0       0.10 $106-46-7$ 1,4-Dichlorobenzene       1.0       U       1.0       0.10 $78-93-3$ 2-Butanone (MEK)       5.0       U       5.0       1.1 $591-78-6$ 2-Hexanone       5.0       U       5.0       2.1 $108-10-1$ 4-Methyl-2-pentanone       5.0       U       5.0       0.95 $67-64-1$ Acctone       5.0       U       5.0       1.1 $71-43-2$ Benzene       1.0       U       1.0       0.10 $74-97-5$ Bromochloromethane       1.0       U       1.0       0.10 $75-27-4$ Bromodichloromethane       1.0       U       1.0       0.16 $72-52-2$ Bromomethane       1.0       U       1.0       0.14 $56-23-5$ Carbon Disulfide       1.0       U       1.0       0.10 $75-0-3$ Chlorobenzene       1.0       U       1.0       0.10 $75-0-3$ Chlorobenzene       1.0	107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.10	
541-73-1       1,3-Dichlorobenzene       1.0       U       1.0       0.10         106-46-7       1,4-Dichlorobenzene       1.0       U       1.0       0.10         78-93-3       2-Butanone (MEK)       5.0       U       5.0       1.1         591-78-6       2-Hexanone       5.0       U       5.0       2.1         108-10-1       4-Methyl-2-pentanone       5.0       U       5.0       0.95         67-64-1       Acetone       5.0       U       5.0       1.1         71-43-2       Benzene       1.0       U       1.0       0.10         74-97-5       Bromochloromethane       1.0       U       1.0       0.10         74-97-5       Bromodichloromethane       1.0       U       1.0       0.15         75-27-4       Bromodichloromethane       1.0       U       1.0       0.16         74-87-5       Bromomethane       1.0       U       1.0       0.13         74-87-5       Bromomethane       1.0       U       1.0       0.14         56-23-5       Carbon Disulfide       1.0       U       1.0       0.10         108-90-7       Chlorobenzene       1.0       U	95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.10	
106-46-71,4-Dichlorobenzene1.0U1.00.10 $78-93-3$ 2-Butanone (MEK)5.0U5.01.1 $591-78-6$ 2-Hexanone5.0U5.02.1 $108-10-1$ 4-Methyl-2-pentanone5.0U5.00.95 $67-64-1$ Acetone5.0U5.01.1 $71-43-2$ Benzene1.0U1.00.10 $74-97-5$ Bromochloromethane1.0U1.00.15 $75-27-4$ Bromochloromethane1.0U1.00.15 $75-25-2$ Bromoform1.0U1.00.23 $75-15-0$ Carbon Disulfide1.0U1.00.10 $75-25-2$ Carbon Tetrachloride1.0U1.00.10 $75-25-2$ Bromomethane1.0U1.00.12 $75-15-0$ Carbon Disulfide1.0U1.00.10 $75-0-3$ Chlorobenzene1.0U1.00.10 $75-0-3$ Chloroform1.0U1.00.10 $74-87-3$ Chloromethane1.0U1.00.12 $156-59-2$ cis-1,3-Dichloroptopene1.0U1.00.12 $156-59-2$ cis-1,3-Dichloroptopene1.0U1.00.10 $10061-01-5$ cis-1,3-Dichloroptopene1.0U1.00.10 $100-41-4$ Ethylbenzene1.0U1.00.10 $87-68-3$ Hexachlorobutadiene1.0U<	78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
78-93-32-Butanone (MEK)5.0U5.01.1591-78-62-Hexanone5.0U5.02.1108-10-14-Methyl-2-pentanone5.0U5.00.9567-64-1Acetone5.0U5.01.171-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1575-27-4Bromodichloromethane1.0U1.00.1575-25-2Bromoform1.0U1.00.2375-15-0Carbon Disulfide1.0U1.00.1456-23-5Carbon Tetrachloride1.0U1.00.1075-50-3Chlorobenzene1.0U1.00.1076-66-3Chloroform1.0U1.00.1074-87-3Chloroform1.0U1.00.1074-87-3Chloromethane1.0U1.00.101061-01-5cis-1,3-Dichloropropene1.0U1.00.1010061-01-5cis-1,3-Dichloropropene1.0U1.00.1010041-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.10	
591-78-62-Hexanone5.0U5.02.1 $108-10-1$ 4-Methyl-2-pentanone5.0U5.00.95 $67-64-1$ Acetone5.0U5.01.1 $71-43-2$ Benzene1.0U1.00.10 $74-97-5$ Bromochloromethane1.0U1.00.15 $75-27-4$ Bromodichloromethane1.0U1.00.15 $75-27-4$ Bromomethane1.0U1.00.15 $75-27-4$ Bromomethane1.0U1.00.16 $75-25-2$ Bromomethane1.0U1.00.23 $75-15-0$ Carbon Disulfide1.0U1.00.14 $56-23-5$ Carbon Tetrachloride1.0U1.00.10 $108-90-7$ Chlorobenzene1.0U1.00.10 $75-00-3$ Chlorobenzene1.0U1.00.10 $74-87-3$ Chloromethane1.0U1.00.10 $106-10-5$ cis-1,3-Dichloropropene1.0U1.00.12 $126-59-2$ cis-1,3-Dichloropropene1.0U1.00.12 $124-48-1$ Dibromochloromethane1.0U1.00.10 $10061-01-5$ cis-1,3-Dichloropropene1.0U1.00.10 $100-41-4$ Ethylbenzene1.0U1.00.10 $87-68-3$ Hexachlorobutadiene1.0U1.00.10	106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.10	
108-10-14-Methyl-2-pentanone5.0U5.00.95 $67-64-1$ Acetone5.0U5.01.1 $71-43-2$ Benzene1.0U1.00.10 $74-97-5$ Bromochloromethane1.0U1.00.15 $75-27-4$ Bromodichloromethane1.0U1.00.10 $75-25-2$ Bromoform1.0U1.00.15 $74-83-9$ Bromomethane1.0U1.00.23 $75-15-0$ Carbon Disulfide1.0U1.00.14 $56-23-5$ Carbon Tetrachloride1.0U1.00.10 $108-90-7$ Chlorobenzene1.0U1.00.10 $75-0-3$ Chloroethane1.0U1.00.10 $74-87-3$ Chloromethane1.0U1.00.10 $74-87-3$ Chloromethane1.0U1.00.10 $1061-01-5$ cis-1,3-Dichloropropene1.0U1.00.12 $124-48-1$ Dibromochloromethane1.0U1.00.10 $100-41-4$ Ethylbenzene1.0U1.00.10 $87-68-3$ Hexachlorobutadiene1.0U1.00.10	78-93-3	2-Butanone (MEK)	5.0 U	5.0	1.1	
108-10-14-Methyl-2-pentanone $5.0$ U $5.0$ $0.95$ $67-64-1$ Acetone $5.0$ U $5.0$ $1.1$ $71-43-2$ Benzene $1.0$ U $1.0$ $0.10$ $74-97-5$ Bromochloromethane $1.0$ U $1.0$ $0.15$ $75-27-4$ Bromodichloromethane $1.0$ U $1.0$ $0.10$ $75-27-4$ Bromodichloromethane $1.0$ U $1.0$ $0.10$ $75-27-4$ Bromodichloromethane $1.0$ U $1.0$ $0.12$ $75-27-4$ Bromodichloromethane $1.0$ U $1.0$ $0.14$ $56-23-5$ Carbon Tetrachloride $1.0$ U $1.0$ $0.10$ $108-90-7$ Chlorobenzene $1.0$ U $1.0$ $0.10$ $75-00-3$ Chlorobenzene $1.0$ U $1.0$ $0.10$ $75-03-3$ Chloroform $1.0$ $U$ $1.0$ $0.10$ $74-87-3$ Chloroformethane $1.0$ $U$ $1.0$ $0.10$ $1061-01-5$ cis- $1,3$ -Dichloropropene $1.0$ $U$ $1.0$ $0.10$ $10061-01-5$ cis- $1,3$ -Dichloropropene $1.0$ $U$ $1.0$ $0.10$ <td>591-78-6</td> <td>2-Hexanone</td> <td>5.0 U</td> <td>5.0</td> <td>2.1</td> <td></td>	591-78-6	2-Hexanone	5.0 U	5.0	2.1	
67-64-1Acetone $5.0$ U $5.0$ $1.1$ $71-43-2$ Benzene $1.0$ U $1.0$ $0.10$ $74-97-5$ Bromochloromethane $1.0$ U $1.0$ $0.15$ $75-27-4$ Bromodichloromethane $1.0$ U $1.0$ $0.10$ $75-25-2$ Bromoform $1.0$ U $1.0$ $0.15$ $74-83-9$ Bromomethane $1.0$ U $1.0$ $0.23$ $75-15-0$ Carbon Disulfide $1.0$ U $1.0$ $0.14$ $56-23-5$ Carbon Tetrachloride $1.0$ U $1.0$ $0.10$ $108-90-7$ Chlorobenzene $1.0$ U $1.0$ $0.10$ $75-00-3$ Chloroform $1.0$ U $1.0$ $0.10$ $67-66-3$ Chloroform $1.0$ U $1.0$ $0.12$ $156-59-2$ cis- $1,2$ -Dichloroethane $1.0$ U $1.0$ $0.12$ $1061-01-5$ cis- $1,3$ -Dichloropropene $1.0$ $U$ $1.0$ $0.10$ $10061-01-5$ cis- $1,3$ -Dichloromethane $1.0$ $U$ $1.0$ $0.10$ $124-48-1$ Dibromochloromethane $1.0$ $U$ $1.0$ $0.10$ $100-41-4$ Ethylbenzene $1.0$ $U$ $1.0$ $0.10$ $87-68-3$ Hexachlorobutadiene $1.0$ $U$ $1.0$ $0.10$	108-10-1	4-Methyl-2-pentanone	5.0 U			
74-97-5Bromochloromethane1.0U1.00.1575-27-4Bromodichloromethane1.0U1.00.1075-27-4Bromodichloromethane1.0U1.00.1574-83-9Bromomethane1.0U1.00.2375-15-0Carbon Disulfide1.0U1.00.1456-23-5Carbon Tetrachloride1.0U1.00.10108-90-7Chlorobenzene1.0U1.00.1075-03Chloroform1.0U1.00.1067-66-3Chloroform1.0U1.00.1074-87-3Chloromethane1.0U1.00.12156-59-2cis-1,2-Dichloropropene1.0U1.00.1210061-01-5cis-1,3-Dichloropropene1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	67-64-1	Acetone	5.0 U	5.0		
75-27-4       Bromodichloromethane       1.0       U       1.0       0.10         75-25-2       Bromoform       1.0       U       1.0       0.15         74-83-9       Bromomethane       1.0       U       1.0       0.23         75-15-0       Carbon Disulfide       1.0       U       1.0       0.14         56-23-5       Carbon Tetrachloride       1.0       U       1.0       0.10         108-90-7       Chlorobenzene       1.0       U       1.0       0.10         75-00-3       Chlorobenzene       1.0       U       1.0       0.10         67-66-3       Chloroform       1.0       U       1.0       0.10         74-87-3       Chloroform       1.0       U       1.0       0.10         1061-01-5       cis-1,2-Dichloroethene       1.0       U       1.0       0.12         1061-01-5       cis-1,3-Dichloropropene       1.0       U       1.0       0.10         10061-01-5       cis-1,3-Dichloropropene       1.0       U       1.0       0.10         100-41-4       Ethylbenzene       1.0       U       1.0       0.10         100-41-4       Ethylbenzene       1.0       U </td <td>71-43-2</td> <td>Benzene</td> <td>1.0 U</td> <td>1.0</td> <td>0.10</td> <td></td>	71-43-2	Benzene	1.0 U	1.0	0.10	
75-25-2       Bromoform       1.0 U       1.0 U       0.15         74-83-9       Bromomethane       1.0 U       1.0 0.23         75-15-0       Carbon Disulfide       1.0 U       1.0 0.14         56-23-5       Carbon Tetrachloride       1.0 U       1.0 0.10         108-90-7       Chlorobenzene       1.0 U       1.0 0.10         75-00-3       Chloroform       1.0 U       1.0 0.10         67-66-3       Chloroform       1.0 U       1.0 0.10         74-87-3       Chloromethane       1.0 U       1.0 0.12         156-59-2       cis-1,2-Dichloroethene       1.0 U       1.0 0.12         10061-01-5       cis-1,3-Dichloropropene       1.0 U       1.0 0.12         124-48-1       Dibromochloromethane       1.0 U       1.0 0.10         100-41-4       Ethylbenzene       1.0 U       1.0 0.10         87-68-3       Hexachlorobutadiene       1.0 U       1.0 0.10	74-97-5	Bromochloromethane	1.0 U	1.0	0.15	
74-83-9Bromomethane $1.0$ $U$ $1.0$ $0.23$ $75-15-0$ Carbon Disulfide $1.0$ $U$ $1.0$ $0.14$ $56-23-5$ Carbon Tetrachloride $1.0$ $U$ $1.0$ $0.10$ $108-90-7$ Chlorobenzene $1.0$ $U$ $1.0$ $0.10$ $75-00-3$ Chloroethane $1.0$ $U$ $1.0$ $0.10$ $67-66-3$ Chloroform $1.0$ $U$ $1.0$ $0.10$ $74-87-3$ Chloromethane $1.0$ $U$ $1.0$ $0.12$ $156-59-2$ cis- $1,2$ -Dichloroethene $1.0$ $U$ $1.0$ $0.12$ $10061-01-5$ cis- $1,3$ -Dichloropropene $1.0$ $U$ $1.0$ $0.12$ $124-48-1$ Dibromochloromethane $1.0$ $U$ $1.0$ $0.10$ $100-41-4$ Ethylbenzene $1.0$ $U$ $1.0$ $0.10$ $87-68-3$ Hexachlorobutadiene $1.0$ $U$ $1.0$ $0.10$	75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
74-83-9Bromomethane1.0U1.00.2375-15-0Carbon Disulfide1.0U1.00.1456-23-5Carbon Tetrachloride1.0U1.00.10108-90-7Chlorobenzene1.0U1.00.1075-00-3Chloroethane1.0U1.00.1067-66-3Chloroform1.0U1.00.1074-87-3Chloromethane1.0U1.00.12156-59-2cis-1,2-Dichloroethene1.0U1.00.1210061-01-5cis-1,3-Dichloropropene1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	75-25-2	Bromoform	1.0 U	1.0	0.15	
56-23-5       Carbon Tetrachloride       1.0       U       1.0       0.10         108-90-7       Chlorobenzene       1.0       U       1.0       0.10         75-00-3       Chloroethane       1.0       U       1.0       0.10         67-66-3       Chloroform       1.0       U       1.0       0.10         67-66-3       Chloromethane       1.0       U       1.0       0.10         74-87-3       Chloromethane       1.0       U       1.0       0.12         156-59-2       cis-1,2-Dichloroethene       1.0       U       1.0       0.10         10061-01-5       cis-1,3-Dichloropropene       1.0       U       1.0       0.12         124-48-1       Dibromochloromethane       1.0       U       1.0       0.10         100-41-4       Ethylbenzene       1.0       U       1.0       0.10         87-68-3       Hexachlorobutadiene       1.0       U       1.0       0.10	74-83-9	Bromomethane	1.0 U	1.0		
108-90-7Chlorobenzene1.0U1.00.1075-00-3Chloroethane1.0U1.00.1067-66-3Chloroform1.0U1.00.1074-87-3Chloromethane1.0U1.00.12156-59-2cis-1,2-Dichloroethene1.0U1.00.1010061-01-5cis-1,3-Dichloropropene1.0U1.00.12124-48-1Dibromochloromethane1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
108-90-7Chlorobenzene1.0U1.00.1075-00-3Chloroethane1.0U1.00.1067-66-3Chloroform1.0U1.00.1074-87-3Chloromethane1.0U1.00.12156-59-2cis-1,2-Dichloroethene1.0U1.00.1010061-01-5cis-1,3-Dichloropropene1.0U1.00.12124-48-1Dibromochloromethane1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.10	
67-66-3       Chloroform       1.0 U       1.0 0.10         74-87-3       Chloromethane       1.0 U       1.0 0.12         156-59-2       cis-1,2-Dichloroethene       1.0 U       1.0 0.10         10061-01-5       cis-1,3-Dichloropropene       1.0 U       1.0 0.12         124-48-1       Dibromochloromethane       1.0 U       1.0 0.10         100-41-4       Ethylbenzene       1.0 U       1.0 0.10         87-68-3       Hexachlorobutadiene       1.0 U       1.0 0.10	108-90-7	Chlorobenzene	1.0 U	1.0	0.10	
74-87-3       Chloromethane       1.0       1.0       0.12         156-59-2       cis-1,2-Dichloroethene       1.0       U       1.0       0.10         10061-01-5       cis-1,3-Dichloropropene       1.0       U       1.0       0.12         124-48-1       Dibromochloromethane       1.0       U       1.0       0.10         100-41-4       Ethylbenzene       1.0       U       1.0       0.10         87-68-3       Hexachlorobutadiene       1.0       U       1.0       0.10	75-00-3	Chloroethane	1.0 U	1.0	0.10	
74-87-3       Chloromethane       1.0       U       1.0       0.12         156-59-2       cis-1,2-Dichloroethene       1.0       U       1.0       0.10         10061-01-5       cis-1,3-Dichloropropene       1.0       U       1.0       0.12         124-48-1       Dibromochloromethane       1.0       U       1.0       0.10         100-41-4       Ethylbenzene       1.0       U       1.0       0.10         87-68-3       Hexachlorobutadiene       1.0       U       1.0       0.10	67-66-3	Chloroform	1.0 U	1.0	0.10	
156-59-2       cis-1,2-Dichloroethene       1.0 U       1.0 0.10         10061-01-5       cis-1,3-Dichloropropene       1.0 U       1.0 0.12         124-48-1       Dibromochloromethane       1.0 U       1.0 0.10         100-41-4       Ethylbenzene       1.0 U       1.0 0.10         87-68-3       Hexachlorobutadiene       1.0 U       1.0 0.10	74-87-3	Chloromethane	1.0 U			
124-48-1         Dibromochloromethane         1.0         U         1.0         0.10           100-41-4         Ethylbenzene         1.0         U         1.0         0.10           87-68-3         Hexachlorobutadiene         1.0         U         1.0         0.10	156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.10	
124-48-1         Dibromochloromethane         1.0         U         1.0         0.10           100-41-4         Ethylbenzene         1.0         U         1.0         0.10           87-68-3         Hexachlorobutadiene         1.0         U         1.0         0.10	10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.12	
87-68-3 Hexachlorobutadiene 1.0 U 1.0 0.10	124-48-1	Dibromochloromethane				
	100-41-4	Ethylbenzene	1.0 U	1.0	0.10	
	87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	
	179601-23-1	m,p-Xylenes				

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207283
Project:	GE MRFA/145599.01	Date Collected: 10/24/12 1000
Sample Matrix:	Water	Date Received: 10/25/12
		Date Analyzed: 10/31/12 14:21
Sample Name:	SW-A	Units: µg/L
Lab Code:	R1207283-002	Basis: NA

# Low Level Water Volatile Organic Compounds by GC/MS

CAS No.	Analyte Name	Result Q	MRL	MDL
Analytical Method: Data File Name:	CLP-VOA OLC02.1 I:\ACQUDATA\MSVOA6\DA	ATA\103112\Z4073.D\		J

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
75-09-2	Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.10	
95-47-6	o-Xylene	1.0	U	1.0	0.10	
100-42-5	Styrene	1.0	U	1.0	0.10	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	0.10	
108-88-3	Toluene	1.0	U	1.0	0.10	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.10	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.10	
79-01-6	Trichloroethene (TCE)	1.0	U	1.0	0.10	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.10	
75-01-4	Vinyl Chloride	1.0	U	1.0	0.10	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	80-120	10/31/12 14:21	

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Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

Service Request: R1207283 Date Collected: 10/24/12 Date Received: 10/25/12 Date Analyzed: 10/31/12 1421

#### Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

Sample Name: Lab Code:	SW-A R1207283-002			Units: Basis:	
Analytical Method:	CLP-VOA OLC02.1				
CAS# Anal	yte Name	RT	Result Q		

No Tentatively Identified Compounds Detected.

Comments:

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207283
Project:	GE MRFA/145599.01	Date Collected: 10/24/12 1030
Sample Matrix:	Water	Date Received: 10/25/12
		Date Analyzed: 10/31/12 15:33
Sample Name: Lab Code:	DGC-3S R1207283-003	Units: µg/L Basis: NA

# Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4075.D\

Analysis Lot: 316261 Instrument Name: R-MS-06

Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.10	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.10	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.11	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.10	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.10	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.12	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.24	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.15	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.10	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.10	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.10	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.10	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	1.1	
591-78-6	2-Hexanone	5.0 U	5.0	2.1	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.95	
67-64-1	Acetone	5.0 U	5.0	1.1	
71-43-2	Benzene	1.0 U	1.0	0.10	
74-97-5	Bromochloromethane	1.0 U	1.0	0.15	
75 <b>-</b> 27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.15	
74-83-9	Bromomethane	1.0 U	1.0	0.23	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.10	
108-90-7	Chlorobenzene	1.0 U	1.0	0.10	
75-00-3	Chloroethane	1.0 U	1.0	0.10	
67-66-3	Chloroform	1.0 U	1.0	0.10	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.12	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.12	
100-41-4	Ethylbenzene	1.0 U	1.0	0.10	
37-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	
79601-23-1	m,p-Xylenes	1.0 U	1.0	0.10	

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:33

#### Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4075.D\

Analysis Lot: 316261 Instrument Name: R-MS-06

**Dilution Factor:** 1 CAS No. Analyte Name Result Q MRL MDL Note 75-09-2 Dichloromethane (Methylene Chloride) 1.0 U 1.0 0.10 95-47-6 o-Xylene 1.0 U 1.0 0.10 100-42-5 Styrene 1.0 U 1.0 0.10 127-18-4 Tetrachloroethene (PCE) 1.0 U 1.0 0.10 108-88-3 Toluene 1.0 U 0.10 1.0 156-60-5 trans-1,2-Dichloroethene 0.10 1.0 U 1.0 10061-02-6 trans-1,3-Dichloropropene 1.0 U 0.10 1.0 79-01-6 Trichloroethene (TCE) 1.0 U 1.0 0.10 75-69-4 Trichlorofluoromethane (CFC 11) 1.0 U 0.10 1.0 75-01-4 Vinyl Chloride 1.0 U 1.0 0.10

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	80-120	10/31/12 15:33	

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Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

 Service Request:
 R1207283

 Date Collected:
 10/24/12

 Date Received:
 10/25/12

 Date Analyzed:
 10/31/12 1533

### Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1		
Sample Name: Lab Code:	DGC-38 R1207283-003		Units: µg/L Basis: NA

Comments:

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207283
Project:	GE MRFA/145599.01	Date Collected: 10/24/12 1100
Sample Matrix:	Water	Date Received: 10/25/12
		Date Analyzed: 10/31/12 14:57
Sample Name:	SW-G	Units: µg/L
Lab Code:	R1207283-004	Basis: NA

# Low Level Water Volatile Organic Compounds by GC/MS

<b>Analytical Method:</b>	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4074.D\

Analysis Lot: 316261 Instrument Name: R-MS-06

Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.10	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.10	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.11	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.10	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.10	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.12	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.24	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.15	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.10	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.10	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.10	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.10	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	1.1	
591-78-6	2-Hexanone	5.0 U	5.0	2.1	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.95	
67-64-1	Acetone	5.0 U	5.0	1.1	
71-43-2	Benzene	1.0 U	1.0	0.10	
74-97-5	Bromochloromethane	1.0 U	1.0	0.15	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.15	
74-83-9	Bromomethane	1.0 U	1.0	0.23	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.10	
108-90-7	Chlorobenzene	1.0 U	1.0	0.10	
75-00-3	Chloroethane	1.0 U	1.0	0.10	
67-66-3	Chloroform	1.0 U	1.0	0.10	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.12	· · · · · · · · · · · · · · · · · · ·
124-48-1	Dibromochloromethane	1.0 U	1.0	0.10	
100-41-4	Ethylbenzene	1.0 U	1.0	0.10	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	
179601-23-1	m,p-Xylenes	1.0 U	1.0	0.12	

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Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207283
Project:	GE MRFA/145599.01	Date Collected: 10/24/12 1100
Sample Matrix:	Water	Date Received: 10/25/12
		Date Analyzed: 10/31/12 14:57
Sample Name:	SW-G	Units: µg/L
Lab Code:	R1207283-004	Basis: NA

### Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4074.D\

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.10	
95-47-6	o-Xylene	1.0 U	1.0	0.10	
100-42-5	Styrene	1.0 U	1.0	0.10	
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10	
108-88-3	Toluene	1.0 U	1.0	0.10	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.10	
79-01-6	Trichloroethene (TCE)	1.0 U	1.0	0.10	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.10	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.10	

Surrogate Name	%Rec	Control Limits	Date Analyzed Q
4-Bromofluorobenzene	106	80-120	10/31/12 14:57

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Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

Service Request: R1207283 Date Collected: 10/24/12 Date Received: 10/25/12 Date Analyzed: 10/31/12 1457

#### Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

Sample Name Lab Code:	e: SW-G R12072	83-004			Units: µg/L Basis: NA
Analytical M	ethod: CLP-VC	OA OLC02.1			
CAS#	Analyte Name		RT	Result Q	
	2	In Tontativaly Idant	ified Commenced	Detected	

No Tentatively Identified Compounds Detected.

Comments:

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Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207283
Project:	GE MRFA/145599.01	Date Collected: 10/24/12 1130
Sample Matrix:	Water	Date Received: 10/25/12
		Date Analyzed: 10/31/12 16:09
Sample Name:	SW-F	Units: µg/L
Lab Code:	R1207283-005	Basis: NA

### Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4076,D\

Analysis Lot: 316261 Instrument Name: R-MS-06

Dilution Factor: 1

71-55-6       1,1,1-Trichloroethane (TCA)       1.0       U       1.0       0.10         79-34-5       1,1,2,2-Tetrachloroethane       1.0       U       1.0       0.10         79-00-5       1,1,2-Trichloroethane       1.0       U       1.0       0.11         75-34-3       1,1-Dichloroethane (1,1-DCA)       1.0       U       1.0       0.10         75-35-4       1,1-Dichloroethane (1,1-DCE)       1.0       U       1.0       0.11         120-82-1       1,2,4-Trichloroethane       1.0       U       1.0       0.12         96-12-8       1,2-Dichloroethane       1.0       U       1.0       0.12         106-93-4       1,2-Dichlorobenzene       1.0       U       1.0       0.10         95-50-1       1,2-Dichlorobenzene       1.0       U       1.0       0.10         541-73-1       1,3-Dichlorobenzene       1.0       U       1.0       0.10         541-73-1       1,3-Dichlorobenzene       1.0       U       1.0       0.10         541-73-1       1,3-Dichlorobenzene       1.0       U       1.0       0.10         59-3       2-Butanone (MEK)       5.0       U       5.0       1.1         78-95	CAS No.	Analyte Name	Result Q	MRL	MDL	Note
79-00-5       1,1,2-Trichloroethane       1.0       0       1.0       0.11         75-34-3       1,1-Dichloroethane (1,1-DCA)       1.0       U       1.0       0.10         75-35-4       1,1-Dichloroethane (1,1-DCE)       1.0       U       1.0       0.11         120-82-1       1,2,3-Trichlorobenzene       1.0       U       1.0       0.11         120-82-1       1,2,4-Trichlorobenzene       1.0       U       1.0       0.12         96-12-8       1,2-Dichloroethane       1.0       U       1.0       0.15         106-93-4       1,2-Dichloroethane       1.0       U       1.0       0.10         95-50-1       1,2-Dichlorobenzene       1.0       U       1.0       0.10         541-73-1       1,3-Dichlorobenzene       1.0       U       1.0       0.10         78-75       1,4-Dichlorobenzene       1.0       U       1.0       0.10         78-75       1,2-Dichlorobenzene       1.0       U       1.0       0.10         78-75       1,2-Dichlorobenzene       1.0       U       1.0       0.10         78-75       2-Hexanone       5.0       U       5.0       2.1         108-10-1       4-Met	71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.10	
75-34-3       1,1-Dichloroethane (1,1-DCA)       1.0       U       1.0       0.10         75-35-4       1,1-Dichloroethane (1,1-DCE)       1.0       U       1.0       0.10         87-61-6       1,2,3-Trichloroethanzene       1.0       U       1.0       0.11         20-82-1       1,2,4-Trichloroethanzene       1.0       U       1.0       0.12         96-12-8       1,2-Dithoroethane       1.0       U       1.0       0.24         106-93-4       1,2-Dithoroethane       1.0       U       1.0       0.10         95-50-1       1,2-Dichloroethane       1.0       U       1.0       0.10         95-57-1       1,2-Dichlorobenzene       1.0       U       1.0       0.10         78-87-5       1,2-Dichlorobenzene       1.0       U       1.0       0.10         541-73-1       1,3-Dichlorobenzene       1.0       U       1.0       0.10         547-73-1       1,3-Dichlorobenzene       1.0       U       1.0       0.10         78-93-3       2-Butanone (MEK)       5.0       U       5.0       1.1         71-43-2       Benzene       1.0       U       1.0       0.10         72-52-       Bromoch	79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.10	
75-35-4       1,1-Dickloroethene (1,1-DCE)       1.0       U       1.0       0.11         87-61-6       1,2,3-Trichlorobenzene       1.0       U       1.0       0.11         120-82-1       1,2,4-Trichlorobenzene       1.0       U       1.0       0.12         96-12-8       1,2-Dibromo-3-chloropropane (DBCP)       0       U       1.0       0.24         106-93-4       1,2-Dibromoethane       1.0       U       1.0       0.10         95-50-1       1,2-Dichlorobenzene       1.0       U       1.0       0.10         95-50-1       1,2-Dichlorobenzene       1.0       U       1.0       0.10         78-87-5       1,2-Dichlorobenzene       1.0       U       1.0       0.10         95-50-1       1,4-Dichlorobenzene       1.0       U       1.0       0.10         78-87-5       1,2-Dichlorobenzene       1.0       U       1.0       0.10         78-87-5       1,2-Dichlorobenzene       1.0       U       1.0       0.10         78-93-3       2-Butanone (MEK)       5.0       U       5.0       1.1         71-43-2       Berzene       1.0       U       1.0       0.10         75-74-4       Ace	79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.11	
87-61-6       1,2,3-Trichlorobenzene       1.0       U       1.0       0.11         120-82-1       1,2,4-Trichlorobenzene       1.0       U       1.0       0.24         96-12-8       1,2-Dibromo-3-chloropropane (DBCP)       1.0       U       1.0       0.24         106-93-4       1,2-Dibromo-3-chloropropane (DBCP)       1.0       U       1.0       0.24         106-92       1,2-Dichloroethane       1.0       U       1.0       0.10         95-50-1       1,2-Dichloropropane       1.0       U       1.0       0.10         78-87-5       1,2-Dichlorobenzene       1.0       U       1.0       0.10         166-46-7       1,4-Dichlorobenzene       1.0       U       1.0       0.10         78-93       2-Butanone (MEK)       5.0       U       5.0       1.1         591-78-6       2-Hexanone       5.0       U       5.0       1.1         71-43-2       Benzene       1.0       U       1.0       0.10         74-97-5       Bromodichloromethane       1.0       U       1.0       0.15         75-27-4       Bromodichloromethane       1.0       U       1.0       0.14         5623-5       Carbo	75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.10	· · · · · · · · · · · · · · · · · · ·
120-82-1       1,2,4-Trichlorobenzene       1.0       U       1.0       0.12         96-12-8       1,2-Dibromo-3-chloropropane (DBCP)       1.0       U       1.0       0.24         106-93-4       1,2-Dichloroethane       1.0       U       1.0       0.15         107-06-2       1,2-Dichloroethane       1.0       U       1.0       0.10         95-50-1       1,2-Dichlorobenzene       1.0       U       1.0       0.10         78-87-5       1,2-Dichlorobenzene       1.0       U       1.0       0.10         541-73-1       1,3-Dichlorobenzene       1.0       U       1.0       0.10         544-67       1,4-Dichlorobenzene       1.0       U       1.0       0.10         541-73-1       1,3-Dichlorobenzene       1.0       U       1.0       0.10         541-73-1       1,3-Dichlorobenzene       1.0       U       1.0       0.10         541-73-1       1,4-Dichlorobenzene       1.0       U       1.0       0.10         541-73-1       1,4-Dichlorobenzene       1.0       U       1.0       0.10         541-73-1       1,4-Dichlorobenzene       1.0       U       1.0       0.10         7497-5	75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.10	
96-12-8       1,2-Dibromo-3-chloropropane (DBCP)       1,0       U       1,0       0,24         106-93-4       1,2-Dibromoethane       1,0       U       1,0       0,15         107-06-2       1,2-Dichloroethane       1,0       U       1,0       0,10         95-50-1       1,2-Dichlorobenzene       1,0       U       1,0       0,10         78-87-5       1,2-Dichlorobenzene       1,0       U       1,0       0,10         541-73-1       1,3-Dichlorobenzene       1,0       U       1,0       0,10         544-67       1,4-Dichlorobenzene       1,0       U       1,0       0,10         59-78-6       2-Hexanone       5,0       U       5,0       2,1         591-78-6       2-Hexanone       5,0       U       5,0       0,95         67-64-1       Acetone       5,0       U       5,0       1,1         71-43-2       Benzene       1,0       U       1,0       0,10         74-97-5       Bromochloromethane       1,0       U       1,0       0,10         75-27-4       Bromochloromethane       1,0       U       1,0       0,15         75-15-0       Carbon Disulfide       1,0	87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
106-93-41,2-Dibromoethane1.0U1.00.15107-06-21,2-Dichlorobenzene1.0U1.00,1095-50-11,2-Dichloropropane1.0U1.00,1078-87-51,2-Dichlorobenzene1.0U1.00,10541-73-11,3-Dichlorobenzene1.0U1.00,1078-93-32-Butanone (MEK)5.0U5.01.1591-78-62-Hexanone5.0U5.02.1108-10-14-Methyl-2-pentanone5.0U5.01.171-43-2Benzene1.0U1.00,1074-97-5Bromochloromethane1.0U1.00,1075-25-2Bromochloromethane1.0U1.00,1575-27-4Bromochloromethane1.0U1.00,1674-83-9Bromomethane1.0U1.00,1675-25-2Bromochloromethane1.0U1.00,1075-25-3Carbon Disulfide1.0U1.00,1075-00Carbon Disulfide1.0U1.00,1075-03Chlorobenzene1.0U1.00,1075-04Carbon Tetrachloride1.0U1.00,1075-05-2cis-1,3-Dichloropropene1.0U1.00,1075-05-2cis-1,3-Dichloropropene1.0U1.00,101061-01-5cis-1,3-Dichloroptopene1.0U	120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.12	······································
107-06-21,2-Dichloroethane1.0U1.00.1095-50-11,2-Dichlorobenzene1.0U1.00.1078-87-51,2-Dichloropopane1.0U1.00.10541-73-11,3-Dichlorobenzene1.0U1.00.10106-46-71,4-Dichlorobenzene1.0U1.00.1078-93-32-Butanone (MEK)5.0U5.01.1591-78-62-Hexanone5.0U5.00.9567-64-1Acetone5.0U5.00.1074-97-5Benzene1.0U1.00.1075-27-4Bromodiloromethane1.0U1.00.1075-25-2Bromodichloromethane1.0U1.00.1075-25-2Bromomethane1.0U1.00.1075-25-2Bromomethane1.0U1.00.1075-25-2Bromomethane1.0U1.00.1075-25-2Bromodrifte1.0U1.00.1075-25-2Bromodethane1.0U1.00.1075-25-3Carbon Disulfide1.0U1.00.1075-00-3Chlorobenzene1.0U1.00.1075-03-3Chloroethane1.0U1.00.1076-64-3Chloromethane1.0U1.00.1076-65-3Chloromethane1.0U1.00.101061-01-5cis-1,3-Di	96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.24	
95-50-11,2-Dichlorobenzene1.0U1.00.1078-87-51,2-Dichloropropane1.0U1.00.10541-73-11,3-Dichlorobenzene1.0U1.00.10106-46-71,4-Dichlorobenzene1.0U1.00.1078-93-32-Butanone (MEK)5.0U5.01.1591-78-62-Hexanone5.0U5.00.9567-64-1Acetone5.0U5.00.1071-43-2Benzene1.0U1.00.1075-27-4Bromochloromethane1.0U1.00.1075-27-4Bromodichloromethane1.0U1.00.1075-25-2Bromoform1.0U1.00.1075-25-2Bromomethane1.0U1.00.1075-25-3Carbon Disulfide1.0U1.00.1075-25-4Bromomethane1.0U1.00.1075-25-2Bromoform1.0U1.00.1075-25-3Carbon Disulfide1.0U1.00.1075-15-0Carbon Disulfide1.0U1.00.1075-03-3Chlorobenzene1.0U1.00.1075-04-4Chlorobenzene1.0U1.00.1076-63Chlorobenzene1.0U1.00.1076-64-3Chlorobenzene1.0U1.00.101061-01-5cis-1,3-Dichlo	106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.15	
78-87-51,2-Dichloropropane1.0U1.00.10 $541-73-1$ 1,3-Dichlorobenzene1.0U1.00.10 $106-46-7$ 1,4-Dichlorobenzene1.0U1.00.10 $78-93-3$ 2-Butanone (MEK)5.0U5.01.1 $591-78-6$ 2-Hexanone5.0U5.00.95 $67-64-1$ Acetone5.0U5.00.95 $67-64-1$ Acetone5.0U5.01.1 $71-43-2$ Benzene1.0U1.00.10 $74-97-5$ Bromochloromethane1.0U1.00.15 $75-27-4$ Bromodichloromethane1.0U1.00.15 $75-25-2$ Bromoform1.0U1.00.16 $75-25-2$ Bromomethane1.0U1.00.16 $75-15-0$ Carbon Disulfide1.0U1.00.14 $56-23-5$ Carbon Disulfide1.0U1.00.10 $75-0-3$ Chlorobenzene1.0U1.00.10 $74-87-3$ Chloromethane1.0U1.00.10 $74-87-3$ Chloromethane1.0U1.00.12 $156-59-2$ cis-1,3-Dichloroppopene1.0U1.00.12 $154-48-1$ Dibromochloromethane1.0U1.00.10 $10061-01-5$ cis-1,3-Dichloroppopene1.0U1.00.10 $10041-4$ Ethylbenzene1.0U1.0	107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.10	
541-73-1 $1,3$ -Dichlorobenzene $1.0$ $U$ $1.0$ $0.10$ $106-46-7$ $1,4$ -Dichlorobenzene $1.0$ $U$ $1.0$ $0.10$ $78-93-3$ $2$ -Butanone (MEK) $5.0$ $U$ $5.0$ $1.1$ $591-78-6$ $2$ -Hexanone $5.0$ $U$ $5.0$ $2.1$ $108-10-1$ $4$ -Methyl-2-pentanone $5.0$ $U$ $5.0$ $0.95$ $67-64-1$ Acetone $5.0$ $U$ $5.0$ $0.95$ $67-64-1$ Acetone $5.0$ $U$ $5.0$ $0.10$ $74-97-5$ Bromochloromethane $1.0$ $U$ $1.0$ $0.10$ $75-27-4$ Bromodichloromethane $1.0$ $U$ $1.0$ $0.10$ $75-25-2$ Bromoform $1.0$ $U$ $1.0$ $0.15$ $74-83-9$ Bromomethane $1.0$ $U$ $1.0$ $0.12$ $75-15-0$ Carbon Disulfide $1.0$ $U$ $1.0$ $0.10$ $75-0-7$ Chlorobenzene $1.0$ $U$ $1.0$ $0.10$ $75-00-3$ Chloromethane $1.0$ $U$ $1.0$ $0.10$ $74-87-3$ Chloromethane $1.0$ $U$ $1.0$ $0.10$ $74-87-3$ Chloromethane $1.0$ $U$ $1.0$ $0.10$ $10661-01-5$ cis- $1,3$ -Dichloropopene $1.0$ $U$ $1.0$ $0.10$ $10041-4$ Ethylbenzene $1.0$ $U$ $1.0$ $0.10$ $10041-4$ Ethylbenzene $1.0$ $U$ $1.0$ $0.10$	95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.10	
106-46-7 $1,4$ -Dichlorobenzene $1.0$ $U$ $1.0$ $0.10$ $78-93-3$ $2$ -Butanone (MEK) $5.0$ $U$ $5.0$ $1.1$ $591-78-6$ $2$ -Hexanone $5.0$ $U$ $5.0$ $2.1$ $108-10-1$ $4$ -Methyl-2-pentanone $5.0$ $U$ $5.0$ $0.95$ $67-64-1$ Acetone $5.0$ $U$ $5.0$ $1.1$ $71-43-2$ Benzene $1.0$ $U$ $1.0$ $0.10$ $74-97-5$ Bromochloromethane $1.0$ $U$ $1.0$ $0.15$ $75-27-4$ Bromodichloromethane $1.0$ $U$ $1.0$ $0.15$ $75-27-4$ Bromodichloromethane $1.0$ $U$ $1.0$ $0.15$ $75-27-4$ Bromomethane $1.0$ $U$ $1.0$ $0.15$ $74-83-9$ Bromomethane $1.0$ $U$ $1.0$ $0.12$ $75-15-0$ Carbon Disulfide $1.0$ $U$ $1.0$ $0.14$ $56-23-5$ Carbon Tetrachloride $1.0$ $U$ $1.0$ $0.10$ $108-90-7$ Chlorobenzene $1.0$ $U$ $1.0$ $0.10$ $74-87-3$ Chloroform $1.0$ $U$ $1.0$ $0.10$ $74-87-3$ Chloromethane $1.0$ $U$ $1.0$ $0.12$ $156-59-2$ cis- $1,2$ -Dichloroptopene $1.0$ $U$ $1.0$ $0.10$ $10061-01-5$ cis- $1,3$ -Dichloroptopene $1.0$ $U$ $1.0$ $0.10$ $100641-4$ Ethylbenzene $1.0$ $U$ $1.0$ $0.10$ <td>78-87-5</td> <td>1,2-Dichloropropane</td> <td>1.0 U</td> <td>1.0</td> <td>0.10</td> <td></td>	78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
78-93-32-Butanone (MEK)5.0U5.01.1591-78-62-Hexanone5.0U5.02.1108-10-14-Methyl-2-pentanone5.0U5.00.9567-64-1Acetone5.0U5.01.171-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1575-27-4Bromodichloromethane1.0U1.00.1574-83-9Bromomethane1.0U1.00.2375-15-0Carbon Disulfide1.0U1.00.1456-23-5Carbon Tetrachloride1.0U1.00.1075-03Chloroethane1.0U1.00.1075-03Chloroform1.0U1.00.1067-66-3Chloroform1.0U1.00.1074-87-3Chloroethane1.0U1.00.101061-01-5cis-1,3-Dichloropropene1.0U1.00.12124-48-1Dibromochloromethane1.0U1.00.12124-48-1Dibromochloromethane1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.10	541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.10	
591-78-62-Hexanone5.0U5.02.1 $108-10-1$ 4-Methyl-2-pentanone5.0U5.00.95 $67-64-1$ Acetone5.0U5.01.1 $71-43-2$ Benzene1.0U1.00.10 $74-97-5$ Bromochloromethane1.0U1.00.15 $75-27-4$ Bromodichloromethane1.0U1.00.15 $75-25-2$ Bromoform1.0U1.00.15 $74-83-9$ Bromomethane1.0U1.00.23 $75-15-0$ Carbon Disulfide1.0U1.00.14 $56-23-5$ Carbon Tetrachloride1.0U1.00.10 $75-00-3$ Chlorobenzene1.0U1.00.10 $75-03-3$ Chlorobentane1.0U1.00.10 $74-87-3$ Chloroform1.0U1.00.10 $1061-01-5$ cis-1,3-Dichloropropene1.0U1.00.12 $124-48-1$ Dibromochloromethane1.0U1.00.10 $100-41-4$ Ethylbenzene1.0U1.00.10	106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.10	
108-10-14-Methyl-2-pentanone5.0U5.00.95 $67-64-1$ Acetone5.0U5.01.1 $71-43-2$ Benzene1.0U1.00.10 $74-97-5$ Bromochloromethane1.0U1.00.15 $75-27-4$ Bromodichloromethane1.0U1.00.10 $75-25-2$ Bromoform1.0U1.00.15 $74-83-9$ Bromomethane1.0U1.00.23 $75-15-0$ Carbon Disulfide1.0U1.00.14 $56-23-5$ Carbon Tetrachloride1.0U1.00.10 $108-90-7$ Chlorobenzene1.0U1.00.10 $75-60-3$ Chloroform1.0U1.00.10 $74-87-3$ Chloromethane1.0U1.00.10 $74-87-3$ Chloromethane1.0U1.00.10 $10061-01-5$ cis-1,3-Dichloropropene1.0U1.00.12 $124-48-1$ Dibromochloromethane1.0U1.00.10 $100-41-4$ Ethylbenzene1.0U1.00.10 $87-68-3$ Hexachlorobutadiene1.0U1.00.10	78-93-3	2-Butanone (MEK)	5.0 U	5.0	1.1	
67-64-1Acetone $5.0$ U $5.0$ $1.1$ $71-43-2$ Benzene $1.0$ U $1.0$ $0.10$ $74-97-5$ Bromochloromethane $1.0$ U $1.0$ $0.15$ $75-27-4$ Bromodichloromethane $1.0$ U $1.0$ $0.15$ $75-27-4$ Bromodichloromethane $1.0$ U $1.0$ $0.10$ $75-25-2$ Bromoform $1.0$ U $1.0$ $0.15$ $74-83-9$ Bromomethane $1.0$ U $1.0$ $0.23$ $75-15-0$ Carbon Disulfide $1.0$ U $1.0$ $0.14$ $56-23-5$ Carbon Tetrachloride $1.0$ U $1.0$ $0.10$ $108-90-7$ Chlorobenzene $1.0$ U $1.0$ $0.10$ $75-00-3$ Chloroform $1.0$ U $1.0$ $0.10$ $67-66-3$ Chloroform $1.0$ U $1.0$ $0.10$ $74-87-3$ Chloromethane $1.0$ U $1.0$ $0.12$ $156-59-2$ cis- $1,3$ -Dichloropropene $1.0$ U $1.0$ $0.12$ $124-48-1$ Dibromochloromethane $1.0$ $U$ $1.0$ $0.10$ $100-41-4$ Ethylbenzene $1.0$ $U$ $1.0$ $0.10$ $87-68-3$ Hexachlorobutadiene $1.0$ $U$ $1.0$ $0.10$	591-78-6	2-Hexanone	5.0 U	5.0	2.1	
71-43-2Benzene $1.0$ $U$ $1.0$ $0.10$ $74-97-5$ Bromochloromethane $1.0$ $U$ $1.0$ $0.15$ $75-27-4$ Bromodichloromethane $1.0$ $U$ $1.0$ $0.10$ $75-25-2$ Bromoform $1.0$ $U$ $1.0$ $0.15$ $74-83-9$ Bromomethane $1.0$ $U$ $1.0$ $0.15$ $74-83-9$ Bromomethane $1.0$ $U$ $1.0$ $0.23$ $75-15-0$ Carbon Disulfide $1.0$ $U$ $1.0$ $0.14$ $56-23-5$ Carbon Tetrachloride $1.0$ $U$ $1.0$ $0.10$ $108-90-7$ Chlorobenzene $1.0$ $U$ $1.0$ $0.10$ $75-00-3$ Chloroform $1.0$ $U$ $1.0$ $0.10$ $74-87-3$ Chloroform $1.0$ $U$ $1.0$ $0.10$ $74-87-3$ Chloromethane $1.0$ $U$ $1.0$ $0.10$ $1061-01-5$ cis- $1,2$ -Dichloropropene $1.0$ $U$ $1.0$ $0.12$ $124-48-1$ Dibromochloromethane $1.0$ $U$ $1.0$ $0.10$ $100-41-4$ Ethylbenzene $1.0$ $U$ $1.0$ $0.10$ $87-68-3$ Hexachlorobutadiene $1.0$ $U$ $1.0$ $0.10$	108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.95	
74-97-5Bromochloromethane1.0U1.0 $0.15$ 75-27-4Bromodichloromethane1.0U1.0 $0.10$ 75-25-2Bromoform1.0U1.0 $0.15$ 74-83-9Bromomethane1.0U1.0 $0.23$ 75-15-0Carbon Disulfide1.0U1.0 $0.14$ 56-23-5Carbon Tetrachloride1.0U1.0 $0.10$ 108-90-7Chlorobenzene1.0U1.0 $0.10$ 75-03Chloroform1.0U1.0 $0.10$ 67-66-3Chloroform1.0U1.0 $0.10$ 74-87-3Chloromethane1.0U1.0 $0.12$ 156-59-2cis-1,2-Dichloropropene1.0U1.0 $0.12$ 124-48-1Dibromochloromethane1.0U1.0 $0.10$ 100-41-4Ethylbenzene1.0U1.0 $0.10$ 87-68-3Hexachlorobutadiene1.0U1.0 $0.10$	67-64-1	Acetone	5.0 U	5.0	1.1	
75-27-4Bromodichloromethane1.0U1.00.1075-25-2Bromoform1.0U1.00.1574-83-9Bromomethane1.0U1.00.2375-15-0Carbon Disulfide1.0U1.00.1456-23-5Carbon Tetrachloride1.0U1.00.10108-90-7Chlorobenzene1.0U1.00.1075-06-3Chloroform1.0U1.00.1067-66-3Chloroform1.0U1.00.1074-87-3Chloromethane1.0U1.00.1010061-01-5cis-1,2-Dichloropene1.0U1.00.1010061-01-5cis-1,3-Dichloropropene1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	71-43-2	Benzene	1.0 U	1.0	0,10	
75-25-2Bromoform $1.0$ U $1.0$ $0.15$ 74-83-9Bromomethane $1.0$ U $1.0$ $0.23$ 75-15-0Carbon Disulfide $1.0$ U $1.0$ $0.14$ 56-23-5Carbon Tetrachloride $1.0$ U $1.0$ $0.10$ 108-90-7Chlorobenzene $1.0$ U $1.0$ $0.10$ 75-00-3Chloroethane $1.0$ U $1.0$ $0.10$ 67-66-3Chloroform $1.0$ U $1.0$ $0.10$ 74-87-3Chloromethane $1.0$ U $1.0$ $0.12$ 156-59-2cis-1,2-Dichloroethene $1.0$ U $1.0$ $0.12$ 10061-01-5cis-1,3-Dichloropropene $1.0$ U $1.0$ $0.12$ 124-48-1Dibromochloromethane $1.0$ U $1.0$ $0.10$ 100-41-4Ethylbenzene $1.0$ U $1.0$ $0.10$ 87-68-3Hexachlorobutadiene $1.0$ U $1.0$ $0.10$	74-97-5	Bromochloromethane	1.0 U	1.0	0.15	
74-83-9Bromomethane $1.0$ $U$ $1.0$ $0.23$ $75-15-0$ Carbon Disulfide $1.0$ $U$ $1.0$ $0.14$ $56-23-5$ Carbon Tetrachloride $1.0$ $U$ $1.0$ $0.10$ $108-90-7$ Chlorobenzene $1.0$ $U$ $1.0$ $0.10$ $75-00-3$ Chloroethane $1.0$ $U$ $1.0$ $0.10$ $67-66-3$ Chloroform $1.0$ $U$ $1.0$ $0.10$ $74-87-3$ Chloromethane $1.0$ $U$ $1.0$ $0.12$ $156-59-2$ cis- $1,3$ -Dichloropropene $1.0$ $U$ $1.0$ $0.12$ $10061-01-5$ cis- $1,3$ -Dichloropropene $1.0$ $U$ $1.0$ $0.12$ $124-48-1$ Dibromochloromethane $1.0$ $U$ $1.0$ $0.10$ $100-41-4$ Ethylbenzene $1.0$ $U$ $1.0$ $0.10$ $87-68-3$ Hexachlorobutadiene $1.0$ $U$ $1.0$ $0.10$	75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-15-0Carbon Disulfide1.0U1.0 $0.14$ 56-23-5Carbon Tetrachloride1.0U1.0 $0.10$ 108-90-7Chlorobenzene1.0U1.0 $0.10$ 75-00-3Chloroethane1.0U1.0 $0.10$ 67-66-3Chloroform1.0U1.0 $0.10$ 74-87-3Chloromethane1.0U1.0 $0.12$ 156-59-2cis-1,2-Dichloroethene1.0U1.0 $0.10$ 10061-01-5cis-1,3-Dichloropropene1.0U1.0 $0.10$ 100-41-4Ethylbenzene1.0U1.0 $0.10$ 87-68-3Hexachlorobutadiene1.0U1.0 $0.10$	75-25-2	Bromoform	1.0 U	1.0	0.15	
56-23-5       Carbon Tetrachloride       1.0       U       1.0       0.10         108-90-7       Chlorobenzene       1.0       U       1.0       0.10         75-00-3       Chloroethane       1.0       U       1.0       0.10         67-66-3       Chloroform       1.0       U       1.0       0.10         67-66-3       Chloromethane       1.0       U       1.0       0.10         74-87-3       Chloromethane       1.0       U       1.0       0.12         156-59-2       cis-1,2-Dichloroethene       1.0       U       1.0       0.10         10061-01-5       cis-1,3-Dichloropropene       1.0       U       1.0       0.12         124-48-1       Dibromochloromethane       1.0       U       1.0       0.10         100-41-4       Ethylbenzene       1.0       U       1.0       0.10         87-68-3       Hexachlorobutadiene       1.0       U       1.0       0.10	74-83-9	Bromomethane	1.0 U	1.0	0.23	
108-90-7Chlorobenzene1.0U1.00.1075-00-3Chloroethane1.0U1.00.1067-66-3Chloroform1.0U1.00.1074-87-3Chloromethane1.0U1.00.12156-59-2cis-1,2-Dichloroethene1.0U1.00.1010061-01-5cis-1,3-Dichloropropene1.0U1.00.12124-48-1Dibromochloromethane1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
75-00-3       Chloroethane       1.0       U       1.0       0.10         67-66-3       Chloroform       1.0       U       1.0       0.10         74-87-3       Chloromethane       1.0       U       1.0       0.10         156-59-2       cis-1,2-Dichloroethene       1.0       U       1.0       0.10         10061-01-5       cis-1,3-Dichloropropene       1.0       U       1.0       0.12         124-48-1       Dibromochloromethane       1.0       U       1.0       0.10         100-41-4       Ethylbenzene       1.0       U       1.0       0.10         87-68-3       Hexachlorobutadiene       1.0       U       1.0       0.10	56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.10	
67-66-3Chloroform1.0U1.00.1074-87-3Chloromethane1.0U1.00.12156-59-2cis-1,2-Dichloroethene1.0U1.00.1010061-01-5cis-1,3-Dichloropropene1.0U1.00.12124-48-1Dibromochloromethane1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	108-90-7	Chlorobenzene	1.0 U	1.0	0.10	
74-87-3Chloromethane1.0U1.00.12156-59-2cis-1,2-Dichloroethene1.0U1.00.1010061-01-5cis-1,3-Dichloropropene1.0U1.00.12124-48-1Dibromochloromethane1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	75-00-3	Chloroethane	1.0 U	1.0	0.10	
156-59-2       cis-1,2-Dichloroethene       1.0       U       1.0       0.10         10061-01-5       cis-1,3-Dichloropropene       1.0       U       1.0       0.12         124-48-1       Dibromochloromethane       1.0       U       1.0       0.10         100-41-4       Ethylbenzene       1.0       U       1.0       0.10         87-68-3       Hexachlorobutadiene       1.0       U       1.0       0.10	67-66-3	Chloroform	1.0 U	1.0	0.10	
10061-01-5cis-1,3-Dichloropropene1.0U1.00.12124-48-1Dibromochloromethane1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	74-87-3		1.0 U	1.0	0.12	
124-48-1         Dibromochloromethane         1.0         U         1.0         0.10           100-41-4         Ethylbenzene         1.0         U         1.0         0.10           87-68-3         Hexachlorobutadiene         1.0         U         1.0         0.10	156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.10	
100-41-4         Ethylbenzene         1.0         U         1.0         0.10           87-68-3         Hexachlorobutadiene         1.0         U         1.0         0.10	10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.12	
87-68-3 Hexachlorobutadiene 1.0 U 1.0 0.10	124-48-1	Dibromochloromethane	1.0 U	1.0	0.10	
	100-41-4	Ethylbenzene	1.0 U	1.0	0.10	
179601-23-1 m,p-Xylenes 1.0 U 1.0 0.12	87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	
	179601-23-1	m,p-Xylenes	1.0 U	1.0	0.12	

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207283
Project:	GE MRFA/145599.01	Date Collected: 10/24/12 1130
Sample Matrix:	Water	Date Received: 10/25/12
		Date Analyzed: 10/31/12 16:09
Sample Name:	SW-F	Units: μg/L
Lab Code:	R1207283-005	Basis: NA

### Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4076.D\

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CAS No.	Analyte Name	Result Q	MRL	MDL	Note
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.10	· · · · · ·
95-47-6	o-Xylene	1.0 U	1.0	0.10	
100-42-5	Styrene	1.0 U	1.0	0.10	
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10	
108-88-3	Toluene	1.0 U	1.0	0.10	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.10	
79-01-6	Trichloroethene (TCE)	1.0 U	1.0	0.10	
75-69 <b>-</b> 4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.10	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.10	<u></u>

Surrogate Name	%Rec	Control Limits	Date Analyzed Q
4-Bromofluorobenzene	106	80-120	10/31/12 16:09

Now part of the ALS Group

Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

Service Request: R1207283 Date Collected: 10/24/12 Date Received: 10/25/12 Date Analyzed: 10/31/12 1609

#### Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

CAS#	Analyte Name	RT	Result Q	
Analytical Meth	od: CLP-VOA OLC02.1			
Sample Name: Lab Code:	SW-F R1207283-005			Units: µg/L Basis: NA

**Comments:** 



Client: Project: Sample Matrix:	Shaw Environmental & Infrastructure, Inc. GE MRFA/145599.01 Water	Service Request: R1207283 Date Collected: 10/24/12 1145 Date Received: 10/25/12 Date Analyzed: 10/31/12 16:44
Sample Name:	SW-E	Units: µg/L
Lab Code:	R1207283-006	Basis: NA

# Low Level Water Volatile Organic Compounds by GC/MS

<b>Analytical Method:</b>	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4077.D\

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.10	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.10	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.11	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.10	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.10	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.12	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.24	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.15	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.10	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.10	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.10	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.10	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	1.1	
591-78-6	2-Hexanone	5.0 U	5.0	2.1	· · · · · · · · · · · · · · · · · · ·
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.95	
67-64-1	Acetone	5.0 U	5.0	1.1	
71-43-2	Benzene	1.0 U	1.0	0.10	
74-97-5	Bromochloromethane	1.0 U	1.0	0.15	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.15	
74-83-9	Bromomethane	1.0 U	1.0	0.23	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.10	· · · · · · · · · · · · · · · · · · ·
108-90-7	Chlorobenzene	1.0 U	1.0	0.10	
75-00-3	Chloroethane	1.0 U	1.0	0.10	
67-66-3	Chloroform	1.0 U	1.0	0.10	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.12	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.10	
100-41-4	Ethylbenzene	1.0 U	1.0	0.10	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	
179601-23-1	m,p-Xylenes	1.0 U	1.0	0.12	

Client: Project: Sample Matrix:	Shaw Environmental & Infrastructure, Inc. GE MRFA/145599.01 Water	Service Request: Date Collected: Date Received: Date Analyzed:	10/24/12 1145 10/25/12
Sample Name:	SW-E	Units:	
Lab Code:	R1207283-006	Basis:	

#### Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4077.D\

Analysis Lot: 316261 Instrument Name: R-MS-06

Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.10	
95-47-6	o-Xylene	1.0 U	1.0	0.10	
100-42-5	Styrene	1.0 U	1.0	0.10	
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10	······
108-88-3	Toluene	1.0 U	1.0	0.10	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.10	
79-01-6	Trichloroethene (TCE)	1.0 U	1.0	0.10	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.10	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.10	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	80-120	10/31/12 16:44	



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Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

Service Request: R1207283 Date Collected: 10/24/12 Date Received: 10/25/12 Date Analyzed: 10/31/12 1644

#### Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

Sample Name: Lab Code:	SW-E R1207283-006			Units: Basis:	
Analytical Method:	CLP-VOA OLC02.1				
CAS # Analy	yte Name	RT	Result Q		

No Tentatively Identified Compounds Detected.

Comments:

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207283
Project:	GE MRFA/145599.01	Date Collected: 10/24/12 1230
Sample Matrix:	Water	Date Received: 10/25/12
		Date Analyzed: 10/31/12 17:19
Sample Name:	SW-D	Units: µg/L
Lab Code:	R1207283-007	Basis: NA

#### Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4078.D\

			Diddon Pactor. 1		
CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.10	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.10	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.11	
75-34-3	I,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.10	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.10	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.12	
96-12 <b>-</b> 8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.24	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.15	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.10	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.10	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.10	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.10	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	1.1	
591-78-6	2-Hexanone	5.0 U	5.0	2.1	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.95	
67-64-1	Acetone	5.0 U	5.0	1.1	
71-43-2	Benzene	1.0 U	1.0	0.10	· · · · · · · · · · · · · · · · · · ·
74-97-5	Bromochloromethane	1.0 U	1.0	0.15	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.15	
74-83-9	Bromomethane	1.0 U	1.0	0.23	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.10	
108-90-7	Chlorobenzene	1.0 U	1.0	0.10	
75-00-3	Chloroethane	1.0 U	1.0	0.10	
67-66-3	Chloroform	1.0 U	1.0	0.10	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.12	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.10	
100-41-4	Ethylbenzene	1.0 U	1.0	0.10	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	
179601-23-1	m,p-Xylenes	1.0 U	1.0	0.12	

Client: Project: Sample Matrix:	Shaw Environmental & Infrastructure, Inc. GE MRFA/145599.01 Water	Service Request: R1207283 Date Collected: 10/24/12 1230 Date Received: 10/25/12 Date Analyzed: 10/31/12 17:19
Sample Name:	SW-D	Units: µg/L
Lab Code:	R1207283-007	Basis: NA

#### Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4078.D\

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.10	
95-47-6	o-Xylene	1.0 U	1.0	0.10	
100-42-5	Styrene	1.0 U	1.0	0.10	
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10	
108-88-3	Toluene	1.0 U	1.0	0.10	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.10	
79-01-6	Trichloroethene (TCE)	1.0 U	1.0	0.10	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.10	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.10	

Surrogate Name	%Rec	Control Limits	Date Analyzed Q
4-Bromofluorobenzene	104	80-120	10/31/12 17:19



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Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.
Project:	GE MRFA/145599.01
Sample Matrix:	Water

Service Request: R1207283 Date Collected: 10/24/12 Date Received: 10/25/12 Date Analyzed: 10/31/12 1719

#### Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

Sample Name: Lab Code:	SW-D R1207283-007			Units: Basis:	
Analytical Method:	CLP-VOA OLC02.1				
CAS # Ana	lyte Name	RT	Result Q		

No Tentatively Identified Compounds Detected.

Comments:

00028

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request:	R1207283
Project:	GE MRFA/145599.01	Date Collected:	10/24/12 1300
Sample Matrix:	Water	Date Received:	10/25/12
		Date Analyzed:	10/31/12 17:48
Sample Name:	M-27D	Units:	μg/L
Lab Code:	R1207283-008	Basis:	NA

# Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4079.D\

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.10	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.10	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.11	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.10	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.10	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1,0 U	1.0	0.12	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.24	
106 <b>-</b> 93-4	1,2-Dibromoethane	1.0 U	1.0	0.15	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.10	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.10	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.10	· · · · · · · · · · · · · · · ·
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.10	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	1.1	
591-78-6	2-Hexanone	5.0 U	5.0	2.1	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.95	
67-64-1	Acetone	5.0 U	5.0	1.1	
71-43-2	Benzene	1.0 U	1.0	0.10	
74-97-5	Bromochloromethane	1.0 U	1.0	0.15	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.15	
74-83-9	Bromomethane	1.0 U	1.0	0.23	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	4.2	1.0	0.10	
108-90-7	Chlorobenzene	1.0 U	1.0	0.10	
75-00-3	Chloroethane	1.0 U	1.0	0.10	
67-66-3	Chloroform	0.33 J	1.0	0.10	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.12	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.10	
100-41-4	Ethylbenzene	1.0 U	1.0	0.10	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	
179601-23-1	m,p-Xylenes	1.0 U	1.0	0.12	



Client: Project: Sample Matrix:	Shaw Environmental & Infrastructure, Inc. GE MRFA/145599.01 Water	Service Request: R1207283 Date Collected: 10/24/12 1300 Date Received: 10/25/12 Date Analyzed: 10/31/12 17:48	
Sample Name:	M-27D	Units: µg/L	
Lab Code:	R1207283-008	Basis: NA	

# Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4079.D\

Analysis Lot: 316261 Instrument Name: R-MS-06

Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.10	·····
95-47-6	o-Xylene	1.0 U	1.0	0.10	
100-42-5	Styrene	1.0 U	1.0	0.10	
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10	
108-88-3	Toluene	1.0 U	1.0	0.10	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.10	
79-01-6	Trichloroethene (TCE)	5.8	1.0	0.10	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.10	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.10	····

Surrogate Name	%Rec	Control Limits	Date Analyzed Q	
4-Bromofluorobenzene	99	80-120	10/31/12 17:48	



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Analytical Report

_	Analytear Report		
Client:	Shaw Environmental & Infrastructure, Inc.	Service Request:	R1207283
Project:	GE MRFA/145599.01	Date Collected:	10/24/12
Sample Matrix:	Water	Date Received:	10/25/12
		Date Analyzed:	10/31/12 1748
	Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS		
Sample Name:	M-27D	Units:	цσ/Т.
Lab Code:	R1207283-008	Basis:	
Analytical Method:	CLP-VOA OLC02.1		

Result Q

RT

No Tentatively Identified Compounds Detected.

**Comments:** 

CAS#

Analyte Name

Client: Project: Sample Matrix:	Shaw Environmental & Infrastructure, Inc. GE MRFA/145599.01 Water	Service Request: Date Collected: Date Received: Date Analyzed:	10/24/12 1345 10/25/12
Sample Name:	SW-B	Units:	
Lab Code:	R1207283-009	Basis:	

# Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4080.D\

Analysis Lot: 316261 Instrument Name: R-MS-06

Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.10	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.10	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.11	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.10	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.10	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.12	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.24	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.15	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.10	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.10	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.10	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.10	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	1.1	
591-78-6	2-Hexanone	5.0 U	5.0	2.1	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.95	
67-64-1	Acetone	5.0 U	5.0	1.1	
71-43-2	Benzene	1.0 U	1.0	0.10	
74-97-5	Bromochloromethane	1.0 U	1.0	0.15	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.15	
74-83-9	Bromomethane	1.0 U	1.0	0.23	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	0.17 J	1.0	0.10	
108-90-7	Chlorobenzene	1.0 U	1.0	0.10	
75-00-3	Chloroethane	1.0 U	1.0	0.10	
67-66-3	Chloroform	1.0 U	1.0	0.10	
74 <b>-</b> 87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.12	····
124 <b>-</b> 48-1	Dibromochloromethane	1.0 U	1.0	0.10	
100-41-4	Ethylbenzene	1.0 U	1.0	0.10	
37-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	
179601-23-1	m,p-Xylenes	1.0 U	1.0	0.12	

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request:	R1207283
Project:	GE MRFA/145599.01	Date Collected:	10/24/12 1345
Sample Matrix:	Water	Date Received:	10/25/12
		Date Analyzed:	10/31/12 18:24
Sample Name:	SW-B	Units:	μg/L
Lab Code:	R1207283-009	Basis:	NA

#### Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4080.D\

Analysis Lot: 316261 Instrument Name: R-MS-06 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
75-09-2	Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.10	
95-47-6	o-Xylene	1.0	U	1.0	0.10	
100-42-5	Styrene	1.0	U	1.0	0.10	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	0.10	
108-88-3	Toluene	1.0	U	1.0	0.10	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.10	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.10	
79-01-6	Trichloroethene (TCE)	0.16	J	1.0	0.10	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.10	
75-01-4	Vinyl Chloride	1.0	U	1.0	0.10	
	-					

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	80-120	10/31/12 18:24	· · · · · · · · · · · · · · · · · · ·



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Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

Service Request: R1207283 Date Collected: 10/24/12 Date Received: 10/25/12 Date Analyzed: 10/31/12 1824

#### Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

Sample Name: Lab Code:	SW-B R1207283-009		guile compound by Cerris	Units: Basis:	
Analytical Method	I: CLP-VOA OLC02.1				
CAS # Ana	alyte Name	RT	Result Q		

No Tentatively Identified Compounds Detected.

Comments:

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Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207283
Project:	GE MRFA/145599.01	Date Collected: 10/24/12
Sample Matrix:	Water	Date Received: 10/25/12
		Date Analyzed: 10/31/12 19:00
Sample Name:	DUP A	Units: µg/L
Lab Code:	R1207283-010	Basis: NA

# Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4081.D\

Analysis Lot: 316261 Instrument Name: R-MS-06

			Dilution Factor: 1		
CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.10	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.10	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.11	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.10	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.10	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.12	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.24	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.15	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.10	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.10	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.10	· · · · · · · · · · · · · · · · · · ·
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.10	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	1.1	
591-78-6	2-Hexanone	5.0 U	5.0	2.1	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.95	
67 <b>-6</b> 4-1	Acetone	5.0 U	5.0	1.1	
71-43-2	Benzene	1.0 U	1.0	0.10	
74-97-5	Bromochloromethane	1.0 U	1.0	0.15	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.15	<u></u>
74-83-9	Bromomethane	1.0 U	1.0	0.23	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	4.9	1.0	0.10	
108-90-7	Chlorobenzene	1.0 U	1.0	0.10	
75-00-3	Chloroethane	1.0 U	1.0	0.10	
67-66-3	Chloroform	0.41 J	1.0	0.10	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.12	
104 49 1		10 77			

Dibromochloromethane

Hexachlorobutadiene

Ethylbenzene

m,p-Xylenes

124-48-1

100-41-4

87-68-3

179601-23-1

1.0 U

1.0 U

1.0 U

1.0 U

1.0

1.0

1.0

1.0

0.10

0.10

0.10

0.12

00035

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207283
Project:	GE MRFA/145599.01	Date Collected: 10/24/12
Sample Matrix:	Water	Date Received: 10/25/12
		Date Analyzed: 10/31/12 19:00
Sample Name:	DUP A	Units: μg/L
Lab Code:	R1207283-010	Basis: NA

## Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4081.D\

Analysis Lot: 316261 Instrument Name: R-MS-06 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.10	
95-47-6	o-Xylene	1.0 U	1.0	0.10	
100-42-5	Styrene	1.0 U	1.0	0.10	
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10	
108-88-3	Toluene	1.0 U	1.0	0.10	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.10	
79-01-6	Trichloroethene (TCE)	5.8	1.0	0.10	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.10	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.10	· · · · · · · · · · · · · · · · · · ·

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	
4-Bromofluorobenzene	102	80-120	10/31/12 19:00		



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Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.
Project:	GE MRFA/145599.01
Sample Matrix:	Water

Service Request: R1207283 Date Collected: 10/24/12 Date Received: 10/25/12 Date Analyzed: 10/31/12 1900

#### Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

Sample Name: Lab Code:	DUP A R1207283-010		-	-	Units: Basis:	• -
Analytical Metho	od: CLP-VOA OLC02.1					
CAS# A	nalyte Name	RT	Result Q			

No Tentatively Identified Compounds Detected.

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Comments:

Client: Project:	Shaw Environmental & Infrastructure, Inc. GE MRFA/145599.01	Service Request: R1207283 Date Collected: 10/24/12
Sample Matrix:	Water	Date Received: 10/25/12
-		Date Analyzed: 10/31/12 19:36
Sample Name:	TRIP BLANK	Units: µg/L
Lab Code:	R1207283-011	Basis: NA

# Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4082.D\

Analysis Lot: 316261 Instrument Name: R-MS-06 Dilution Factor: 1

CAS No.	Analyte Name	Result (	ç	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 0	J	1.0	0.10	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 T	J	1.0	0.10	
79-00-5	1,1,2-Trichloroethane	1.0 U	J	1.0	0.11	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 (	J	1.0	0.10	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 0	J	1.0	0.10	
87-61 <b>-</b> 6	1,2,3-Trichlorobenzene	1.0 U	J	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	J	1.0	0.12	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	J	1.0	0.24	
06-93-4	1,2-Dibromoethane	1.0 U	J	1.0	0.15	
107-06-2	1,2-Dichloroethane	1.0 U	J	1.0	0.10	
95-50-1	1,2-Dichlorobenzene	1.0 U	J	1.0	0.10	
78-87-5	1,2-Dichloropropane	1.0 U	J	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	J	1.0	0.10	
106-46-7	1,4-Dichlorobenzene	1.0 U	J	1.0	0.10	
78-93-3	2-Butanone (MEK)	5.0 U	J	5.0	1.1	
591-78-6	2-Hexanone	5.0 U	J	5.0	2.1	
08-10-1	4-Methyl-2-pentanone	5.0 L	J	5.0	0.95	
57-64-1	Acetone	1.6 J		5.0	1.1	
1-43-2	Benzene	1.0 U	J	1.0	0.10	<u> </u>
4-97-5	Bromochloromethane	1.0 U	J	1.0	0.15	
75-27-4	Bromodichloromethane	1.0 U	J	1.0	0.10	
5-25-2	Bromoform	1.0 U	J	1.0	0.15	
4-83-9	Bromomethane	1.0 U	J	1.0	0.23	
/5-15-0	Carbon Disulfide	1.0 L	J	1.0	0.14	
6-23-5	Carbon Tetrachloride	1.0 L	J	1.0	0.10	
08-90-7	Chlorobenzene	1.0 L	J	1.0	0.10	
5-00-3	Chloroethane	1.0 L	J	1.0	0.10	
7-66-3	Chloroform	1.0 L	J	1.0	0.10	
4-87-3	Chloromethane	1.0 U	J	1.0	0.12	
56-59 <b>-</b> 2	cis-1,2-Dichloroethene	1.0 L	J	1.0	0.10	
0061-01-5	cis-1,3-Dichloropropene	1.0 U	J	1.0	0.12	
24-48-1	Dibromochloromethane	1.0 U	J	1.0	0.10	
00-41-4	Ethylbenzene	1.0 U	I	1.0	0.10	
7-68-3	Hexachlorobutadiene	1.0 U	J	1.0	0.10	
79601-23-1	m,p-Xylenes	1.0 U		1.0	0.12	

Client: Project: Sample Matrix:	Shaw Environmental & Infrastructure, Inc. GE MRFA/145599.01 Water	Service Request: Date Collected: Date Received: Date Analyzed:	10/24/12 10/25/12
Sample Name:	TRIP BLANK	Units:	
Lab Code:	R1207283-011	Basis:	

#### Low Level Water Volatile Organic Compounds by GC/MS

<b>Analytical Method:</b>	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4082.D\

Analysis Lot: 316261 Instrument Name: R-MS-06

CAS No.				<b>Dilution Factor:</b> 1		
	Analyte Name	Result Q	MRL	MDL	Note	
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.10		
95-47-6	o-Xylene	1.0 U	1.0	0.10		
100-42-5	Styrene	1.0 U	1.0	0.10		
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10		
108-88-3	Toluene	1.0 U	1.0	0.10		
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.10		
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.10		
79-01-6	Trichloroethene (TCE)	1.0 U	1.0	0.10		
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.10		
75-01-4	Vinyl Chloride	1.0 U	1.0	0.10		

Surrogate Name	%Rec	Control Limits	Date Analyzed Q	
4-Bromofluorobenzene	103	80-120	10/31/12 19:36	

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Analytical Report

Client: Project: Sample Matrix:	Shaw Environmental & Infrastructure, Inc. GE MRFA/145599.01 Water	Service Request: Date Collected: Date Received: Date Analyzed:	10/24/12 10/25/12	
Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS				
Sample Name: Lab Code:	TRIP BLANK R1207283-011	Units: Basis:		
Analytical Method:	CLP-VOA OLC02.1			

CAS #	Analyte Name	RT	Result Q

No Tentatively Identified Compounds Detected.

Comments:

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207283
Project:	GE MRFA/145599.01	Date Collected: 10/24/12
Sample Matrix:	Water	Date Received: 10/25/12 Date Analyzed: 10/31/12 21:59
Sample Name:	COOLER BLANK	Units: µg/L
Lab Code:	R1207283-012	Basis: NA

# Low Level Water Volatile Organic Compounds by GC/MS

<b>Analytical Method:</b>	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4086.D\

Analysis Lot: 316261 Instrument Name: R-MS-06

Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.10	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.10	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.11	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.10	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.10	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.12	
96-12 <b>-</b> 8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.24	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.15	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.10	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.10	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.10	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.10	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	1.1	
591-78-6	2-Hexanone	5.0 U	5.0	2.1	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.95	
67 <b>-</b> 64-1	Acetone	5.0 U	5.0	1,1	
71-43-2	Benzene	1.0 U	1.0	0.10	
74-97-5	Bromochloromethane	1.0 U	1.0	0.15	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.15	
74-83-9	Bromomethane	1.0 U	1.0	0.23	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.10	
108-90-7	Chlorobenzene	1.0 U	1.0	0.10	
75-00-3	Chloroethane	1.0 U	1.0	0.10	
67-66-3	Chloroform	1.0 U	1.0	0.10	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.12	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.10	
100-41-4	Ethylbenzene	1.0 U	1.0	0.10	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	
179601-23-1	m,p-Xylenes	1.0 U	1.0	0.12	

Shaw Environmental & Infrastructure, Inc.	Service Request:	R1207283
GE MRFA/145599.01	Date Collected:	10/24/12
Water	Date Received:	10/25/12
	Date Analyzed:	10/31/12 21:59
COOLER BLANK	Units:	μg/L
R1207283-012	Basis:	NA
	GE MRFA/145599.01 Water COOLER BLANK	GE MRFA/145599.01Date Collected:WaterDate Received:Date Analyzed:Date Analyzed:COOLER BLANKUnits:

#### Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4086.D\

Analysis Lot: 316261 Instrument Name: R-MS-06

Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.10	
95-47-6	o-Xylene	1.0 U	1.0	0.10	
100-42-5	Styrene	1.0 U	1.0	0.10	
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10	
108-88-3	Toluene	1.0 U	1.0	0.10	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.10	
79-01-6	Trichloroethene (TCE)	1.0 U	1.0	0.10	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.10	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.10	

Surrogate Name	%Rec	Control Limits	Date Analyzed Q
4-Bromofluorobenzene	99	80-120	10/31/12 21:59

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Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

Service Request: R1207283 Date Collected: 10/24/12 Date Received: 10/25/12 Date Analyzed: 10/31/12 2159

#### Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

Sample Name: Lab Code:	COOLER BLANK R1207283-012		organic compounds by GC/1413	Units: μg/L Basis: NA
Analytical Method:	CLP-VOA OLC02.1			
CAS # Analy	yte Name	RT	Result Q	

No Tentatively Identified Compounds Detected.

Comments:

00043

Client: Project: Sample Matrix:	Shaw Environmental & Infrastructure, Inc. GE MRFA/145599.01 Water	Service Request: R1207283 Date Collected: NA Date Received: NA Date Analyzed: 10/31/12 12:40
Sample Name:	Method Blank	Date Analyzed: 10/31/12 12:40

Units: µg/L Basis: NA

Sample Name:Method BlankLab Code:RQ1213170-04

## Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4070.D\

Analysis Lot: 316261 Instrument Name: R-MS-06 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.10	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.10	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.11	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.10	······
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.10	
87-61-6	1,2,3-Trichlorobenzene	0.23 J	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1,0	0.12	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.24	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.15	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.10	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.10	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.10	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.10	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	1,1	
591-78-6	2-Hexanone	5.0 U	5.0	2.1	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.95	
67-64-1	Acetone	5.0 U	5.0	1.1	
71-43-2	Benzene	1.0 U	1.0	0.10	
74-97-5	Bromochloromethane	1.0 U	1.0	0.15	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.15	
74-83-9	Bromomethane	1.0 U	1.0	0.23	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.10	
108-90-7	Chlorobenzene	1.0 U	1.0	0.10	
75-00-3	Chloroethane	1.0 U	1.0	0.10	
67-66-3	Chloroform	1.0 U	1.0	0.10	· · · · · · · · · · · · · · · · · · ·
74-87-3	Chloromethane	1.0 U	1.0	0.10	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.12	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.12	
100-41-4	Ethylbenzene	1.0 U	1.0	0.10	
87-68-3	Hexachlorobutadiene	0.13 J	1.0	0.10	
179601-23-1	m,p-Xylenes	1.0 U	1.0	0.10	
		1.0 0	1.0	W,12	

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207283
Project:	GE MRFA/145599.01	Date Collected: NA
Sample Matrix:	Water	Date Received: NA Date Analyzed: 10/31/12 12:40
Sample Name:	Method Blank	Units: µg/L
Lab Code:	RQ1213170-04	Basis: NA

# Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method	: CLP-VOA OLC02.1	Analysis Lot: 31
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4070.D\	Instrument Name: R-
		Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
75-09-2	Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.10	· · · · · · · · · · · · · · · · · · ·
95-47 <b>-</b> 6	o-Xylene	1.0	U	1.0	0.10	
100-42-5	Styrene	1.0	U	1.0	0.10	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	0.10	<u> </u>
108-88-3	Toluene	1.0	U	1.0	0.10	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.10	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.10	
79-01-6	Trichloroethene (TCE)	1.0	U	1.0	0.10	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.10	
75-01-4	Vinyl Chloride	1.0	U	1.0	0.10	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	80-120	10/31/12 12:40	)

316261 R-MS-06

Now part of the ALS Group

Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

Service Request: R1207283 Date Collected: NA Date Received: NA Date Analyzed: 10/31/12 1240

#### Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

Sample Name: Lab Code:	Method Blank RQ1213170-04			Units: µg/L Basis: NA	
Analytical Metho	d: CLP-VOA OLC02.1				
CAS # A	nalyte Name	RT	Result Q		
No Tentatively Identified Compounds Detected.					

Comments:

Now part of the ALS Group

QA/QC Report

Client: Project: Sample Matrix: Shaw Environmental & Infrastructure, Inc. GE MRFA/145599.01 Water Service Request: R1207283 Date Collected: 10/24/12 Date Received: 10/25/12 Date Analyzed: 10/31/12

#### Matrix Spike Summary Low Level Water Volatile Organic Compounds by GC/MS

Sample Name:	M-27D
Lab Code:	R1207283-008

Units: μg/L Basis: NA

Analytical Method: CLP-VOA OLC02.1

		M-27DMS Matrix Spike RQ1213170-05		M-27DDMS Duplicate Matrix Spike RQ1213170-06						
Analyte Name	Sample Result	Result	Spike Amount	% Rec	Result	Spike Result Amount %		% Rec Limits	RPD	RPD Limit
1,1,2-Trichloroethane	ND	5.23	5.00	105	4.77	5.00	95	60 - 140	9	30
1,2-Dibromoethane	ND	5.13	5.00	103	4.90	5.00	98	60 - 140	5	30
1,2-Dichloroethane	ND	5.50	5.00	110	5.24	5.00	105	60 - 140	5	30
1,2-Dichloropropane	ND	5.10	5,00	102	4.99	5.00	100	60 - 140	2	30
1,4-Dichlorobenzene	ND	5.17	5.00	103	5.00	5.00	100	60 - 140	3	30
Benzene	ND	5.03	5.00	101	4.83	5.00	97	60 - 140	4	30
Bromoform	ND	5.32	5.00	106	5.27	5.00	105	60 - 140	<1	30
Carbon Tetrachloride	4.2	10.0	5.00	115	9.59	5.00	107	60 - 140	4	30
cis-1,3-Dichloropropene	ND	4.94	5,00	99	4.55	5.00	91	60 - 140	8	30
Tetrachloroethene (PCE)	ND	5.32	5.00	106	4.93	5.00	99	60 - 140	8	30
Trichloroethene (TCE)	5.8	11.1	5.00	106	10.7	5.00	99	60 - 140	3	30
Vinyl Chloride	ND	4.87	5.00	97	4.94	5.00	99	60 - 140	1	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Now part of the ALS Group QA/QC Report

Client: Project: Sample Matrix: Shaw Environmental & Infrastructure, Inc. GE MRFA/145599.01 Water

Service Request: R1207283 Date Analyzed: 10/31/12

#### Lab Control Sample Summary Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Units: µg/L Basis: NA

Analysis Lot: 316261

Lab Control Sample RQ1213170-03							
Analyte Name	Result	Spike Amount	% Rec	% Rec Limits			
1,1,2-Trichloroethane	4.87	5.00	97	60 - 140			
1,2-Dibromoethane	4.97	5.00	99	60 - 140			
1,2-Dichloroethane	5.24	5.00	105	60 - 140			
1,2-Dichloropropane	5.14	5.00	103	60 - 140			
1,4-Dichlorobenzene	5.09	5.00	102	60 - 140			
Benzene	4.81	5.00	96	60 - 140			
Bromoform	4.87	5.00	97	60 - 140			
Carbon Tetrachloride	5.04	5.00	101	60 - 140			
cis-1,3-Dichloropropene	4.68	5.00	94	60 - 140			
Tetrachloroethene (PCE)	4.94	5.00	99	60 - 140			
Trichloroethene (TCE)	4.82	5.00	96	60 - 140			
Vinyl Chloride	4.83	5.00	97	60 - 140			

Results flagged with an asterisk (*) indicate values outside control criteria.

'ercent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Project: Sample Matrix:	Shaw Environmental & In GE MRFA/145599.01 Water	frastructure, Inc.			Service Request: Date Collected: Date Received: Date Analyzed:	10/24/12 0930 10/25/12
Sample Name: Lab Code:	DGC-4S R1207283-001				Units: Basis:	
		Dissolved Gases I	by GC/F	ID		
Analytical Method: Data File Name:	RSK 175 1003.run				Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02
CAS No.	Analyte Name	Result	Q	MRL	Note	
74-84-0	Ethane	1.0	U	1.0		



Client: Project: Sample Matrix:	Shaw Environmental & Ir GE MRFA/145599.01 Water	nfrastructure, Inc.			Service Request: Date Collected: Date Received: Date Analyzed:	10/24/12 1000 10/25/12
Sample Name: Lab Code:	SW-A R1207283-002				Units: Basis:	• -
		Dissolved Gases	by GG	C/FID		
Analytical Method: Data File Name:	RSK 175 1004.run				Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02
CAS No.	Analyte Name	Result	Q	MRL	Note	
74-84-0	Ethane	1.0	U	1.0		



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Client: Project: Sample Matrix:	Shaw Environmental & Infra GE MRFA/145599.01 Water	astructure, Inc.			Service Request: Date Collected: Date Received: Date Analyzed:	10/24/12 1030 10/25/12
Sample Name: Lab Code:	DGC-38 R1207283-003				Units: Basis:	
		Dissolved Gases	oy GC/F	ID		
Analytical Method: Data File Name:	RSK 175 1005.run				Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02
CAS No.	Analyte Name	Result	Q	MRL	Note	
74-84-0	Ethane	1.0	U	1.0	······································	

Client: Project: Sample Matrix:	Shaw Environmental & Infra GE MRFA/145599.01 Water	structure, Inc.			Service Request: Date Collected: Date Received: Date Analyzed:	10/24/12 1100 10/25/12
Sample Name: Lab Code:	SW-G R1207283-004				Units: Basis:	
		Dissolved Gases	by GC/	FID		
Analytical Method: Data File Name:	RSK 175 1006.run				Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02
CAS No.	Analyte Name	Result	Q	MRL	Note	
74-84-0	Ethane	1.0	U	1.0		

Client: Project: Sample Matrix:	Shaw Environmental & Infra GE MRFA/145599.01 Water	structure, Inc.			Service Request: Date Collected: Date Received: Date Analyzed:	10/24/12 1130 10/25/12
Sample Name: Lab Code:	SW-F R1207283-005				Units: Basis:	• •
		Dissolved Gases I	oy GC/FI	D		
Analytical Method: Data File Name:	RSK 175 1007.run				Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02
CAS No.	Analyte Name	Result	Q	MRL	Note	
74-84-0	Ethane	1.0	U	1.0		



Client: Project: Sample Matrix:	Shaw Environmental & Inf GE MRFA/145599.01 Water	rastructure, Inc.			Service Request: Date Collected: Date Received: Date Analyzed:	10/24/12 1145 10/25/12
Sample Name: Lab Code:	SW-E R1207283-006				Units: Basis:	
		Dissolved Gases I	oy GC	FID		
Analytical Method: Data File Name:	RSK 175 1008.run				Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02
CAS No.	Analyte Name	Result	Q	MRL	Note	
74-84-0	Ethane	1.0	U	1.0		



Client: Project: Sample Matrix:	Shaw Environmental & Iı GE MRFA/145599.01 Water	nfrastructure, Inc.			Service Request: Date Collected: Date Received: Date Analyzed:	10/24/12 1230 10/25/12
Sample Name: Lab Code:	SW-D R1207283-007				Units: Basis:	
		Dissolved Gases	by G	C/FID		
Analytical Method: Data File Name:	RSK 175 1009.run				Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02
CAS No.	Analyte Name	Result	Q	MRL	Note	
74-84-0	Ethane	1.0	U	1.0		



Client: Project: Sample Matrix:	Shaw Environmental & Infr GE MRFA/145599.01 Water	astructure, Inc.			Service Request: Date Collected: Date Received: Date Analyzed:	10/24/12 1300 10/25/12
Sample Name: Lab Code:	M-27D R1207283-008				Units: Basis:	
		Dissolved Gases	by GC	C/FID		
Analytical Method: Data File Name:	RSK 175 1013.run				Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02
CAS No.	Analyte Name	Result	Q	MRL	Note	
74-84-0	Ethane	1.0	U	1.0		

Client: Project: Sample Matrix:	Shaw Environmental & Infra GE MRFA/145599.01 Water	astructure, Inc.			Service Request: Date Collected: Date Received: Date Analyzed:	10/24/12 1345 10/25/12
Sample Name: Lab Code:	SW-B R1207283-009				Units: Basis:	. +
		Dissolved Gases b	y GC/FII	D		
Analytical Method: Data File Name:	RSK 175 1014.run				Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02
CAS No.	Analyte Name	Result	Q	MRL	Note	
74-84-0	Ethane	1.0	U	1.0		<u> </u>

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Client: Project: Sample Matrix:	Shaw Environmental & Infras GE MRFA/145599.01 Water	structure, Inc.		Service Request: Date Collected: Date Received: Date Analyzed:	10/24/12 10/25/12
Sample Name: Lab Code:	DUP A R1207283-010			Units: Basis:	
		Dissolved Gases by GC	/FID		
Analytical Method: Data File Name:	RSK 175 1015.run			Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02
CAS No.	Analyte Name	Result Q	MRL	Note	
74-84-0	Ethane	1.0 U	1.0		



Client: Project: Sample Matrix:	Shaw Environmental & Inf GE MRFA/145599.01 Water	rastructure, Inc.			Service Request: Date Collected: Date Received: Date Analyzed:	10/24/12 10/25/12
Sample Name: Lab Code:	TRIP BLANK R1207283-011				Units: Basis:	
		Dissolved Gases	by GC/I	FID		
Analytical Method: Data File Name:	RSK 175 1016.run				Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02
CAS No.	Analyte Name	Result	Q	MRL	Note	
74-84-0	Ethane	1.0	U	1.0		



Client: Project: Sample Matrix:	Shaw Environmental & Infras GE MRFA/145599.01 Water	tructure, Inc.			Service Request: Date Collected: Date Received: Date Analyzed:	NA NA
Sample Name: Lab Code:	Method Blank RQ1213143-01				Units: Basis:	
		Dissolved Gases b	y GC/FII	)		
Analytical Method: Data File Name:	RSK 175 1001.run				Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02
CAS No.	Analyte Name	Result	Q	MRL	Note	
74-84-0	Ethane	1.0	U	1.0		

COLUMBIA ANALYTICAL SERVICES,	INC.
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Now part of the ALS Group QA/QC Report

Client:	Shaw Environmental & Infrastructure, Inc.
Project:	GE MRFA/145599.01
Sample Matrix:	Water

 Service Request:
 R1207283

 Date Collected:
 10/24/12

 Date Received:
 10/25/12

 Date Analyzed:
 11/1/12

Units: µg/L

Basis: NA

#### Matrix Spike Summary Dissolved Gases by GC/FID

Sample Name:	M-27D
Lab Code:	R1207283-008

Analytical Method: RSK 175

			M-27DMS <b>Aatrix Spik</b> o Q1213143-0		Duplic	M-27DDMS <b>:ate Matrix</b> Q1213143-0	Spike			
Analyte Name	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Ethane	ND	53.1	52.1	102	53.0	52.1	102	72 - 139	<1	30

tesults flagged with an asterisk (*) indicate values outside control criteria.

lesults flagged with a pound (#) indicate the control criteria is not applicable,	
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ercent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

	COLUMBIA ANALYTICAL SERVICES, IN Now part of the ALS Group	С.
	QA/QC Report	
Client: Project: Sample Matrix:	Shaw Environmental & Infrastructure, Inc. GE MRFA/145599.01 Water	Service Request: R1207283 Date Analyzed: 11/1/12
	Lab Control Sample Summary Dissolved Gases by GC/FID	
Analytical Method:	RSK 175	Units: µg/L Basis: NA
		Analysis Lot: 316419
	Lab Control Sample RQ1213143-02	
Analyte Name	Spike % Rec Result Amount % Rec Limits	

106

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27.5

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Results flagged with an asterisk (*) indicate values outside control criteria.

'ercent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Ethane

# METALS COVER PAGE - INORGANIC ANALYSIS DATA PACKAGE

Contract:	R1207283			SDG No.:	DGC-4S
Lab Code:	·	Case No.:		SAS No.:	
SOW No.:	SW846 CLP-M				
	Sample ID,		Lab Sample No.		
	M-27D	· .	R1207283-008		
-	M-27DD	· · · · · · · · · · · · · · · · · · ·	R1207283-008D		
	M-27DS	•	R1207283-008S		
•	SW-B		R1207283-009		
	DUP A		R1207283-010		

·

Were	ICP interelement corrections applied?	Yes/No	YES
Were	ICP background corrections applied? If yes-were raw data generated before	Yes/No	YES
	application of background corrections?	Yes/No	NO

# Comments: See Attatched Case Narrative

Signature:	Water Pori	Name :	Michael Perry
Date: 120	12	Title:	Laboratory Director

# Columbia Analytical Services

#### METALS -1-INORGANIC ANALYSIS DATA SHEET

· · · · · · · · · · · · · · · · · · ·	SAMPLE N	0.
	DUP A	
SAS No.:	SDG NO.: D	GC-4S
Lab Sample ID:	R1207283-010	
Date Received:	10/25/2012	
	Lab Sample ID:	DUP A SAS No.: SDG NO.: D Lab Sample ID: R1207283-010

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	С	Q	м
7440-47-3	Chromium	2.3	J		P

Color Before:	COLORLESS	Clarity Before:	CLEAR	Texture:	
Color After:	COLORLESS	Clarity After:	CLEAR	Artifacts:	
Comments:					
_					

ervices		
	METALS	
	INORGANIC ANALYSIS DATA SHEET	SAMPLE NO.
		M-27D
Case No.:	SAS No.:	SDG NO.: DGC-4S
WATER	Lab Sample ID:	R1207283-008
	Date Received:	10/25/2012
	WATER	-1- INORGANIC ANALYSIS DATA SHEET Case No.: WATER Lab Sample ID:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	c	Q	м
7440-47-3	Chromium	6.4	J		P

Color Before:	COLORLESS	Clarity Before:	CLEAR	Texture:	
Color After:	COLORLESS	Clarity After:	CLEAR	Artifacts:	
Comments:	· · · · · · · · · · · · · · · · · · ·			<u></u>	
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# Columbia Analytical Services

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#### METALS -1-NORGANIC ANALYSIS DATA SHEET

		INORGANIC ANALYSIS DATA SHEET	SAMPLE NO.	
Contract: R1207283			SW-B	
<u></u>				
Lab Code:	Case No.:	SAS No.:	SDG NO.: DGC-4S	
Matrix (soil/water):	WATER	Lab Sample ID:	R1207283-009	
Level (low/med): LO	W	Date Received:	10/25/2012	

Concentration Units (ug/L or mg/kg dry weight): UG/L

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CAS No.	Analyte	Concentration	c	Q	м
7440-47-3	Chromium	1.1	J		P

Color Before:	COLORLESS	Clarity Before:	CLEAR	Texture:	
Color After:	COLORLESS	Clarity After:	CLEAR	Artifacts:	
Comments:		····			



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# Columbia Analytical Services

### METALS

-3-

#### BLANKS

Contract:	R1207283				
Lab Code:	Case No.:	SAS No.:		SDG NO.:	DGC-4S
Preparation	Blank Matrix (soil/water):	WATER			
Preparation	Blank Concentration Units (ug/L	or mg/kg):	UG/L		

	Initial Calib. Blank				inuing Blank (	Calibrat ug/L)	ion		Preparation Blank		
Analyte	(ug/L)	С	1	с	2	С	3	с		с	M
Chromium	0.2	24 0	0.2	4 0	0.	24 0	0.2	24 U	0.238	υ	P

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# Columbia Analytical Services

### METALS

-3-

#### BLANKS

 Contract:
 R1207283

 Lab Code:
 Case No.:

SDG NO.: DGC-4S

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

	Initial Calib. Blank				inuing Blank (	Calibrat ug/L)	ion		Preparation Blank	_	
Analyte	(ug/L)	с	1	С	2	с	3	с		с	м
Chromium	!		0.2	4 U	0.	24 U	0.4	8 J J			P

#### METALS -5A-

#### SPIKE SAMPLE RECOVERY

Contract: R1207283	M-27DS	
	l	
Lab Code: Case No.: SAS No.:	SDG NO.:	DGC-4S
Matrix (soil/water): WATER Level	(low/med):	LOW
% Solids for Sample: 0.0		

Analyte	Control Limit %R	Spiked Sample Result (SSR)	с	Sample Result (SR)	с	Spike Added (S	SA)	%R	Q	м
Chromium	75 - 125	210.0	00	6.41	1]J	20	0.0	102		₽

Concentration Units (ug/L or mg/kg dry weight): UG/L

mments:

#### METALS -5B-

# POST DIGEST SPIKE SAMPLE RECOVERY

					SAMPLE NO.
				M-27DA	
Contract: <u>R1207283</u>					
Lab Code:	Case No.:	SAS No.:		SDG NO.:	DGC-4S
Matrix (soil/water):	WATER	_	Level	(low/med):	LOW

Concentration Units: ug/L

Â	nalyte	Control Limit %R	Spiked Result	Sample (SSR)	с	Sampl Result	.e (SR)	с	Spike Added (SA)	\$R	Q	м
Chr	comium	1		227.	00		6.4	1]J	200.0	110		P

mments:

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#### METALS -6-DUPLICATES

			SAMPLE NO.	
			M-27DD	
Contract: <u>R1207283</u>				
Lab Code:	Case No.:	SAS No.:	SDG NO.:	DGC-4S
Matrix (soil/water):	WATER	Level (lo	w/med):	LOW
<pre>% Solids for Sample:</pre>	0.0	% Solids for Dup:	licate:	0.0

	Concer	itration Units (u	g/L or 1	mg/kg dry weight	): <u>UG/</u>	Ľ		
Analyte .	Control Limit	Sample (S)	с	Duplicate (D)	с	RPD	Q	м
Chromium	1	6.	41   J		2.56 J	86		Р

### METALS

-7-

### LABORATORY CONTROL SAMPLE

Contract: <u>R1207283</u>			
Lab Code:	Case No.:	SAS No.:	SDG NO.: DGC-4S
Solid LCS Source:			
Aqueous LCS Source:	CPI		

	Aqueous	(ug/L				Solid	(mg/K	
Analyte	True	Found	%R	True	Found	с	Limits	%R
Chromium	200	210	105					

Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:WaterSample Name:M-27DLab Code:R1207283-008

Service Request: R1207283 Date Collected: 10/24/12 1300 Date Received: 10/25/12

Basis: NA

**General Chemistry Parameters** 

Analyte Name	Method	Result Q	Units	MRL	Dilution Date Date Factor Extracted Analyzed Note
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1 NA 10/25/12 11:44

.



Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

Service Request: R1207283 Date Collected: 10/24/12 1345 Date Received: 10/25/12

Sample Name:SW-BLab Code:R1207283-009

Basis: NA

#### **General Chemistry Parameters**

Analyte Name	Method	Result Q	Units	MRL	Dilution Date Date Factor Extracted Analyzed Note
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1 NA 10/25/12 11:44



Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

 Service Request:
 R1207283

 Date Collected:
 10/24/12

 Date Received:
 10/25/12

Sample Name:DUP ALab Code:R1207283-010

Basis: NA

#### **General Chemistry Parameters**

Analyte Name	Method	Result Q	Units	MRL	Dilution Date Date Factor Extracted Analyzed Note
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1 NA 10/25/12 11:44 *



Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

Service Request: R1207283 Date Collected: NA Date Received: NA

Sample Name:Method BlankLab Code:R1207283-MB

Basis: NA

#### **General Chemistry Parameters**

Analyte Name	Method	Result Q	Units	MRL	Dilution Date Date Factor Extracted Analyzed	Note
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1 NA 10/25/12 11:44	



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Now part of the ALS Group

	QA/QC Report	
Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207283
Project:	GE MRFA/145599.01	Date Collected: 10/24/12
Sample Matrix:	Water	Date Received: 10/25/12
		Date Analyzed: 10/25/12

#### Replicate Sample Summary General Chemistry Parameters

Sample Name: Lab Code:	M-27D R1207283-008					Units: mg/l Basis: NA	-
Analyte Name	Method	MRL	Sample Result	Duplica	DDUP te Sample 3-008DUP Average	RPD	RPD Limit
Chromium, Hexavalen	t 7196A	0.010	0.010 U	0.010 U	NC	NC	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

#### COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group QA/QC Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

Service Request: R1207283 Date Collected: 10/24/12 Date Received: 10/25/12 Date Analyzed: 10/25/12

#### Matrix Spike Summary General Chemistry Parameters

Sample Name:M-27DLab Code:R1207283-008

Units: mg/L Basis: NA

Analytical Method:	7196A

		N	M-27DMS Matrix Spike 207283-0081				
Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits		
Chromium, Hexavalent	ND	0.100	0.100	100	85 - 115		

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



### COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group QA/QC Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

Service Request: R1207283 Date Analyzed: 10/25/12

#### Lab Control Sample Summary General Chemistry Parameters

Units: mg/L Basis: NA

			Control San 207283-LC	-		
Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits	
Chromium, Hexavalent	7196A	0.105	0.100	105	82 - 121	

esults flagged with an asterisk (*) indicate values outside control criteria.

rcent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



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# **Type I Data Package**

**Prepared for:** 

Shaw Env & Infrastructure, Inc PO BOX 98519 Baton Rouge LA 70884

> Project: MRFA Groundwater Samples Collected on 10/23/12

# SDG# RFA02

GROUP	SAMPLE NUMBERS
1344454	6834875-6834877

PA	Cert.	#	36-00037
NY	Cert.	#	10670
NJ	Cert.	#	PA011
NC	Cert.	#	521
ТΧ	Cert.	#	T104704194-08A-TX

Through our technical processes and second person review of data, we have established that our data/deliverables are in compliance with the methods and project requirements unless otherwise noted or previously resolved with the client.

Authorized by:

Kong on Kauffonson

Date: 11/20/2012

Dana M. Kauffman Manager

Any questions or concerns you might have regarding this data package should be directed to Environmental Client Services at (717) 656-2300.

# Table of Contents for SDG# RFA02

1.	Sample Reference List1
2.	Analysis Request, Field Chain-of-Custody Record2
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	d. Standards Data27
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ľ.

Lancaster Laboratories

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#### Sample Reference List for SDG Number RFA02 with a Data Package Type of I 01401 - Shaw Env & Infrastructure, Inc Project: MRFA

Lab	Lab	
Sample	Sample	Client Sample Description
<u>Number</u>	<u>Code</u>	
6834875	MRFA1	M-28S Composite Groundwater
6834876	MRFA2	MW-4 Composite Groundwater
6834877	MRFAD	DUP B Composite Groundwater

RFAG2 GCGI

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Project Name/#:MRFA		#:		- [			$\Box$	2	H								Preserva				- T-
Project Manager: Brian Neumann				-	z	Ground Surface		φ											Thiosulf	ate	6
Sampler: Matt Dupay		: :	<u> </u>	-	line			of Containers									<b>N</b> =HNO₃ <b>S</b> =H₂SO,	-	=NaOH =Other		, 2
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Sample Identification	Collected	Collected	Grab	Ŝ	Soll	Water	Other:	Idt	Hydrazines			İ.				1	Rema	rks			empe
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MW-4		1230		Ŷ		×	.	1	v l		+										
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E-mail address: brian. neumann C.s	bawarp.	com	Ī	Relin	quis	shed l	by:		0		Da				eived	by:	$\overline{}$			Date	Time
pata Package Options (please circle if required)	ED	D Required?						_								-					
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Type IV (CLP SOW) Site-specific QC	(MS/MSD/	D CES N		·. 	·.					$\geq$											-
Type VI (Raw Data Only) (if yes, indicate QC TX TRRP-13 sample volume)	sample and si	ubmit triplicate	!	Relin	quis	shed I	by:				Da	te_	Time	Rec	eived	· ,	0			Date	Time
TX TRRP-13   sample volume)			1								1	- 1		IL	1. T	- 7	h,		1.	1-1-1-1	094

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Date o				Custod	y Seal Pre	sent*: YE	S NO
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Source	e Code:	60		Package		Chilled	Not Chilled
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RFA02 0003

Method Summary/Reference for SDG# RFA02 I

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#### 10342 Hydrazines in Water

An aliquot of the sample is derivatized and directly analyzed by HPLC/MS/MS.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 8315A modified, December 1996.

# RFGC2 COC4

# **Analysis Report**

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#### ANALYTICAL RESULTS

Prepared by:

Lancaster

Laboratories

st eurofins

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425 Prepared for:

Shaw Env & Infrastructure, Inc PO BOX 98519 Baton Rouge LA 70884

October 29, 2012

Project: MRFA

Submittal Date: 10/24/2012 Group Number: 1344454 SDG: RFA02 PO Number: 145599 State of Sample Origin: NY

Client Sample Description M-28S Composite Groundwater MW-4 Composite Groundwater DUP B Composite Groundwater Lancaster Labs (LLI) # 6834875 6834876 6834877

Attn: Brian Neumann

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO ELECTRONIC COPY TO Shaw Env & Infrastructure

Data Package Group

Respectfully Submitted,

angela M. M. filler

Angela M. Miller Specialist

(717) 556-7260

Page 1 of 7

RFACZ 0005

🔅 eurofins

#### Lancaster Laboratories

# **Explanation of Symbols and Abbreviations**

The following defines common symbols and abbreviations used in reporting technical data:

RL N.D. TNTC IU	Reporting Limit none detected Too Numerous To Count International Units	BMQL MPN CP Units NTU	Below Minimum Quantitation Level Most Probable Number cobalt-chloroplatinate units nephelometric turbidity units nanogram(s)
umhos/cm C	micromhos/cm degrees Celsius	ng F	degrees Fahrenheit
meq	milliequivalents	Ib.	pound(s)
g	gram(s)	kg	kilogram(s)
μg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µԼ pg/Լ	microliter(s) picogram/liter

- < less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- J estimated value The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).
- ppm parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
- ppb parts per billion
- Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

#### U.S. EPA CLP Data Qualifiers:

#### **Organic Qualifiers**

- A TIC is a possible aldol-condensation product
- B Analyte was also detected in the blank
- **C** Pesticide result confirmed by GC/MS
- Compound quantitated on a diluted sample
   Concentration exceeds the calibration range of the instrument
- N Presumptive evidence of a compound (TICs only)
- P Concentration difference between primary and confirmation columns >25%
- U Compound was not detected
- **X.Y.Z** Defined in case narrative

#### Inorganic Qualifiers

- B Value is <CRDL, but ≥IDL
- E Estimated due to interference
- M Duplicate injection precision not met
- N Spike sample not within control limits
- S Method of standard additions (MSA) used for calculation
- U Compound was not detected
- W Post digestion spike out of control limits
- * Duplicate analysis not within control limits
- + Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

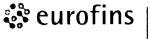
Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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# RFA02 0006



**Analysis Report** 

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#### Sample Description: M-28S Composite Groundwater

MRFA

LLI Sample # WW 6834875 LLI Group # 1344454 Account # 01401

Collected: 10/23/2012 13:50 by MD

Submitted: 10/24/2012 09:45 Reported: 10/29/2012 16:39

#### Shaw Env & Infrastructure, Inc PO BOX 98519 Baton Rouge LA 70884

#### MRFA1 SDG#: RFA02-01

Project Name: MRFA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Misc.	Organics	SW-846 8315A modified	ug/l	ug/l	ug/l	
10342 10342 10342	l,l-Dimethylhydrazi Hydrazine Methylhydrazine	ne 57-14-7 302-01-2 60-34-4	N.D. N.D. N.D.	0.25 0.050 0.25	0.50 0.10 0.50	1 1 1

General Sample Comments

State of New York Certification No. 10670

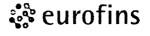
All QC is compliant unless otherwise noted. Please refer to the Quality ' Control Summary for overall QC performance data and associated samples.

		Labor	atory Sa	ample Analy	sis Record		
CAT	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
No. 10342	Hydrazines in Water	SW-846 8315A modified	1	12299003	10/27/2012 19:57	Meng Yu	1

*=This limit was used in the evaluation of the final result

Page 2 of 7

 $\pi$ FAG2 GOG7



# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

#### Sample Description: MW-4 Composite Groundwater

MRFA

LLI Sample # WW 6834876 LLI Group # 1344454 Account # 01401

by MD Collected: 10/23/2012 12:30

Submitted: 10/24/2012 09:45 Reported: 10/29/2012 16:39

Shaw Env & Infrastructure, Inc PO BOX 98519 Baton Rouge LA 70884

#### SDG#: RFA02-02 MRFA2

Project Name: MRFA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Misc.		SW-846 8315A modified	ug/l	ug/l	ug/l	
10342 10342 10342	1,1-Dimethylhydrazin Hydrazine Methylhydrazine		N.D. N.D. N.D.	0.25 0.050 0.25	0.50 0.10 0.50	1 1 1

General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

		Labor	atory Sa	umple Analy	sis Record		
CAT	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
No. 10342	Hydrazines in Water	SW-846 8315A modified	l	12299003	10/27/2012 20:14	Meng Yu	1

*=This limit was used in the evaluation of the final result

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#### Sample Description: DUP B Composite Groundwater

by MD

MRFA

LLI Sample # WW 6834877 LLI Group # 1344454 Account # 01401

Shaw Env & Infrastructure, Inc PO BOX 98519 Baton Rouge LA 70884

#### Collected: 10/23/2012

Project Name: MRFA

Submitted: 10/24/2012 09:45 Reported: 10/29/2012 16:39

#### MRFAD SDG#: RFA02-03FD*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Misc.		SW-846 8315A modified	ug/l	ug/l	ug/l	
10342 10342 10342	l,l-Dimethylhydrazin Hydrazine Methylhydrazine	ne . 57-14-7 302-01-2 60-34-4	N.D. N.D. N.D.	0.25 0.050 0.25	0.50 0.10 0.50	1 1 1

General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

		Laborat					
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
	Hydrazines in Water	SW-846 8315A modified	1	12299003	10/27/2012 20:32	Meng Yu	1

*=This limit was used in the evaluation of the final result

Page 4 of 7

# RF 602 0005

# Hydrazines by LC/MS/MS Data

0010 

# **Case Narrative/Conformance** Summary

RFACE

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# **Case Narrative/Conformance Summary**

### CLIENT: Shaw Env & Infrastructure, Inc SDG: RFA02

### **Specialty Services Group**

Fraction: Hydrazines by LC/MS/MS

Sample #	Client ID	Liquid	Solid	DF	Comments
6834875	M-28S	Х		1	
6834876	MW-4	х		1	
6834877	DUP B	Х		1	Field Duplicate Sample

See QC Reference List for Associated Batch QC Samples

### SAMPLE RECEIPT:

Samples were received in good condition and within temperature requirements.

#### **HOLDING TIME:**

All holding times were met.

#### PREPARATION/EXTRACTION/DIGESTION:

No problems were encountered.

#### CALIBRATION/STANDARDIZATION:

All criteria were met.

# QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

All QC is within specification.

#### SAMPLE ANALYSIS:

No problems were encountered with the analysis of the samples.

Abbreviation Key		
UNSPK = Unspiked (for MS/MSD)	LOQ = Limit of Quantitation	
MS = Matrix Spike	MDL = Method Detection Limit	
MSD = Matrix Spike Duplicate	ND = Not Detected	
BKG = Background (for Duplicate)	J = Estimated Value	
D = Duplicate (DUP)	E= out of calibration range	
LCS = Lab Control Sample	RE = Repreparation/Reanalysis	

Page 1 of 2

# RFAÓ2 CO12



# **Case Narrative/Conformance Summary**

CLIENT: Shaw Env & Infrastructure, Inc SDG: RFA02

Specialty Services Group

Fraction: Hydrazines by LC/MS/MS

LCSD = Lab Control Sample Duplicate

* = Out of Specification

Narrative Reviewed and Approved  $\frac{1}{-7-1}$  by (Date)

have M. Salm

Grace M. Salm Specialist

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# **QC Summary**

### RFA02 0014



**Quality Control Reference List** Specialty Services Group

CLIENT: Shaw Env & Infrastructure, Inc SDG: RFA02

#### Fraction: Hydrazines by LC/MS/MS

Analysis	<b>Batch Number</b>	Sample Number	Analysis Date
Hydrazines in Water	12299003	BLK	10/27/2012 17:40:00
		LCS	10/27/2012 18:14:00
		LCSD	10/27/2012 18:31:00
		6834875 MS	10/27/2012 18:48:00
		6834875 MSD	10/27/2012 19:06:00
		6834875	10/27/2012 19:57:00
		6834876	10/27/2012 20:14:00
		6834877	10/27/2012 20:32:00

11/6/2012 1:49:17 PM

Page 1 of 1

# RFACZ COIS



Quality Control Summary Method Blank Specialty Services Group SDG: RFA02 Matrix: LIQUID

### Fraction: Hydrazines by LC/MS/MS

12299003 / BLK					
Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
Hydrazine	10/27/12	N.D.	ug/l	0.050	0.10
Methylhydrazine	10/27/12	N.D.	ug/l	0.25	0.50
1,1-Dimethylhydrazine	10/27/12	N.D.	ug/l	0.25	0.50

Page 1 of 1

# RFA02 0016



Quality Control Summary Matrix Spike/Matrix Spike Duplicate

SDG: RFA02 Matrix: LIQUID

#### Specialty Services Group Fraction: Hydrazines by LC/MS/MS

UNSPK: 6834875	Batch: 122	Batch: 12299003 (Sample number(s): 6834875-6834877 )									
MS: 6834875 MSD: 6834875 Analyte	Spike Added ug/l	Unspiked Conc ug/l	MS Conc ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	%Rec Limits	%RPD	%RPD Limits		
Hydrazine	12	N.D.	12.62	12.36	105	103	79-128	2	25		
Methylhydrazine	60	N.D.	63.35	65.38	106	109	52-146	3	25		
1,1-Dimethylhydrazine	60	N.D.	54.42	55.31	91	92	60-137	2	25		

Results are being reported on an as received basis.

11/6/2012 1:53:25 PM

Page 1 of 1

## RFA02 0017



Quality Control Summary Laboratory Control Standard (LCS) Laboratory Control Standard Duplicate(LCSD)

SDG: RFA02 Matrix: LIQUID

# Specialty Services Group Fraction: Hydrazines by LC/MS/MS

LCS	Batch: 12299003 (Sample number(s): 6834875-6834877 )									
LCSD Analyte	Spike Added ug/l	LCS Conc ug/l	LCSD Conc ug/l	LCS %Rec	LCSD %Rec	%Rec Limits	%RPD	%RPD Limits		
Hydrazine	12	12.38	12.61	103	105	81-129	2	25		
Methylhydrazine	60	66.25	62.83	110	105	71-135	5	25		
1,1-Dimethylhydrazine	60	54.9	58.4	92	97	81-128	6	25		

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# RFA02 COls

Sample Data



LOQ/MDL Summary Specialty Services Group

#### SDG: RFA02

Fraction: Hydrazines by LC/MS/MS

10342: Hydrazines in Water Analyte Name	Default MDL	Default LOQ	Units
Hydrazine	0.050	0.10	ug/l
Methylhydrazine	0.25	0.50	ug/l
1,1-Dimethylhydrazine	0.25	0.50	ug/l

11/6/2012 1:54:36 PM

Page 1 of 1

# RFAG2 GÓZÓ



# LCMSMS ANALYSIS REPORT

#### **Component Name:** Monomethylhydrazine

			1	Summary of Qu	an Results				
	Sample ID	Data File Name	Area	ISTD Area	Area Ratio	Specified Amount	Calculated Amount	% Diff	Excluded
	SYS(MDL)	B12299003_02	958.04	N/A	958.040	N/A	0.430370		N/A
	CAL1	B12299003_03	2403.15	N/A	2403.154	0.500000	0.577687	15.54	N/A
	CAL2	B12299003_04	6569.33	N/A	6569.330	1.000000	1.002394	0.24	N/A
	CAL3	B12299003_05	19889.69	N/A	19889.686	2.500000	2.360292	-5.59	N/A
	CAL4	B12299003_06	44979.91	N/A	44979.913	5.000000	4.918031	-1.64	N/A
	CAL5	B12299003_07	230010.36	N/A	230010.359	25.000000	23.780337	-4.88	N/A
	CAL6	B12299003_08	445501.80	N/A	445501.803	50.000000	45.747887	-8.50	N/A
	CAL7	B12299003_09	994519.32	N/A	994519.318	100.000000	101.715630	1.72	N/A
	CAL8	B12299003_10	1261163.19	N/A	1261163.194	125.000000	128.897742	3.12	N/A
	Meoh	B12299003_11	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	BLK	B12299003_12	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	CCV1	B12299003_13	17871.96	N/A	17871.964	2.500000	2.154603	-13.82	N/A
	ICV/LCS	B12299003_14	646584.18	N/A	646584.180	` N/A	66.246553	N/A	N/A
11	ICV/LCSD	B12299003_15	613094.16	N/A	613094.161	N/A	62.832526	N/A	N/A
	MS (6834875)	B12299003_16	618162.20	N/A	618162.195	N/A	63.349170	N/A	N/A
r.	MSD (6834875)	B12299003_17	638042.16	N/A	638042.162	N/A	65.375766	N/A	N/A
	CCV2	B12299003_18	38524.54	N/A	38524.544	5.000000	4.259960	-14.80	N/A
\$ 7.2°	Meoh	B12299003_19	N/A	N/A	N/A	N/A	N/A	N/A	N/A
_	6834875 (BKG)	B12299003_20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
C)	6834876	B12299003_21	N/A	N/A	N/A	N/A	N/A	N/A	N/A
C)	6834877	B12299003_22	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N)	CCV3	B12299003_23	211695.09	N/A	211695.090	25.000000	21.913249	-12.35	N/A
<b>_</b> _+									

Myn Hez 1 Chemist - 0/29/12 Meng Yu Principal Chemist

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#### **Component Name:** 1,1-Dimethylhydrazine

				Summary of Qu	an Results				
	Sample ID	Data File Name	Area	ISTD Area	Area Ratio	Specified Amount	Calculated Amount	% Diff	Excluded
	SYS(MDL)	B12299003_02	2209.16	N/A	2209.156	N/A	0.370406	N/A	N/A
	CALI	B12299003_03	4563.99	N/A	4563.992	0.500000	0.585177	17.04	N/A
	CAL2	B12299003_04	7989.82	N/A	7989.821	1.000000	0.897629	-10.24	N/A
	CAL3	B12299003_05	27001.91	N/A	27001.907	2.500000	2.631617	5.26	N/A
	CAL4	B12299003_06	49459.72	N/A	49459.716	5.000000	4.679871	-6.40	N/A
	CAL5	B12299003_07	252021.03	N/A	252021.034	25.000000	23.154381	-7.38	N/A
	CAL6	B12299003_08	539750.83	N/A	539750.830	50.000000	49.396642	-1.21	N/A
-	CAL7	B12299003_09	1138716.26	N/A	1138716.264	100.000000	104.025003	4.03	N/A
	CAL8	B12299003_10	1353669.14	N/A	1353669.141	125.000000	123.629680	-1.10	N/A
	Meoh	B12299003_11	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	BLK	B12299003_12	N/A	N/A	N/A	N/A	N/A	N/A	N/A
71	CCV1	B12299003_13	18569.25	N/A	18569.249	2.500000	1.862520	-25.50	N/A
	ICV/LCS	B12299003_14	600104.37	N/A	600104.371	N/A	54.901158	N/A	N/A
	ICV/LCSD	B12299003_15	638468.56	N/A	638468.558	N/A	58.400146	N/A	N/A
	MS (6834875)	• B12299003_16	594850.32	N/A	594850.317	N/A	54.421965	N/A	N/A
C)	MSD (6834875)	B12299003_17	604556.61	N/A	604556.610	N/A	55.307223	N/A	N/A
N>	CCV2	B12299003_18	53070.85	N/A	53070.854	5.000000	5.009223	0.18	N/A
	Meoh	B12299003_19	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>C</b> )	6834875 (BKG)	B12299003_20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Č)	6834876	B12299003_21	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6834877	B12299003_22	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N N	CCV3	B12299003_23	270808.23	N/A	270808.233	25.000000	24.867859	-0.53	N/A

Meng Yu Principal Chemist OCT 29 2012

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**Component Name:** Hydrazine

Summary of Quan Results									
	Sample ID	Data File Name	Area	ISTD Area	Area Ratio	Specified Amount	Calculated Amount	% Diff	Excluded
	SYS(MDL)	B12299003_02	852.47	N/A	852.469	N/A	0.085652	N/A	N/A
	CAL1	B12299003_03	2255.73	N/A	2255.735	0.100000	0.128883	28.88	N/A
	CAL2	B12299003_04	3942.42	N/A	3942.418	0.200000	0.180846	-9.58	N/A
	CAL3	B12299003_05	13759.44	N/A	13759.443	0.500000	0.483283	-3.34	N/A
	CAL4	B12299003_06	26735.71	N/A	26735.706	1.000000	0.883049	-11.70	N/A
	CAL5	B12299003_07	155056.42	N/A	155056.424	5.000000	4.836282	-3.27	N/A
	CAL6	B12299003_08	307879.90	N/A	307879.896	10.000000	9.544383	-4.56	N/A
	CAL7	B12299003_09	666416.42	N/A	666416.420	20.000000	20.589978	2.95	N/A
	CAL8	B12299003_10	814540.30	N/A	814540.296	25.000000	25.153296	0.61	N/A
	Meoh	B12299003_11	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	BLK B12299003_12		N/A	N/A	N/A	N/A	N/A	N/A	N/A
	CCV1	B12299003_13	12559.53	N/A	12559.534	0.500000	0.446317	-10.74	N/A
	ICV/LCS	B12299003_14	399903.45	N/A	399903.454	N/A	12.379394	N/A	N/A
	ICV/LCSD	B12299003_15	407454.21	N/A	407454.213	N/A	12.612014	N/A	N/A
	MS (6834875)	B12299003_16	407609.70	N/A	407609.699	N/A	12.616804	N/A	N/A
C)	MSD (6834875)	B12299003_17	399130.96	N/A	399130.959	N/A	12.355595	N/A	N/A
N)	CCV2	B12299003_18	31082.20	N/A	31082.203	1.000000	1.016953	1.70	N/A
	Meoh	B12299003_19	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6834875 (BKG)	B12299003_20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
C)	6834876	B12299003_21	N/A	N/A	N/A	N/A	N/A	N/A	N/A
()	6834877	B12299003_22	N/A	N/A	'N/A	N/A	N/A	N/A	N/A
N	CCV3	B12299003_23	156163.68	N/A	156163.685	5.000000	4.870394	-2.59	N/A
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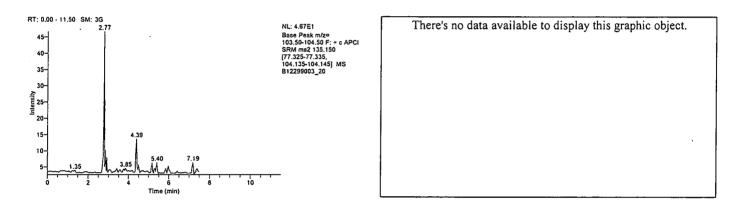
Page 3 of 3 Monday, October 29, 2012, 10:57:55

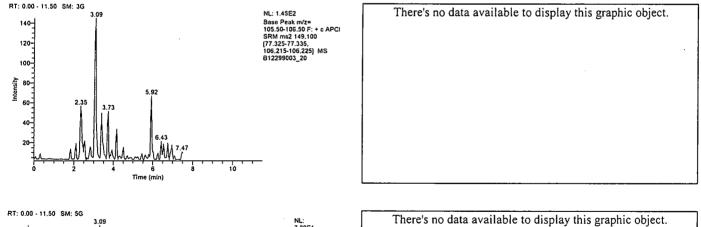


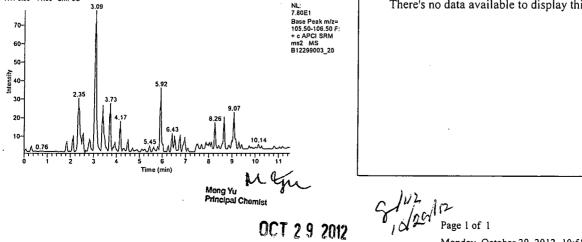
Sample Name:	6834875 (BKG)		
Data File:	B12299003_20	Acquisition Date:	10/27/12 07:57:43 PM
Sample Type:	Unknown	Sample ID:	6834875 (BKG)
Run Time(min):	11.49	Vial:	a:16
Injection Volume(µl):	5.00	Instrument Software Version:	2.3.0.1206 SP1
Dilution Factor:	1.00	Instrument Name:	TSQ
Instrument Model:	TSQ Quantum Access	Instrument Serial Number:	TQU01408
Instrument Method:	C:\XCalibur\Hydrazine	Original Data Path:	C:\XCalibur\Hydrazine
	Analysis\Hydraz_TB		Analysis\2012\Quart4
Operator:	Quantum		

#### Quan Peak Table

Component Name	Calculated Amount	Units	Response Ratio	RT
Hydrazine	N/A	ug/L	N/A	N/A
1,1-Dimethylhydrazine	N/A	ug/L	N/A	N/A
Monomethylhydrazine	N/A	ug/L	N/A	N/A







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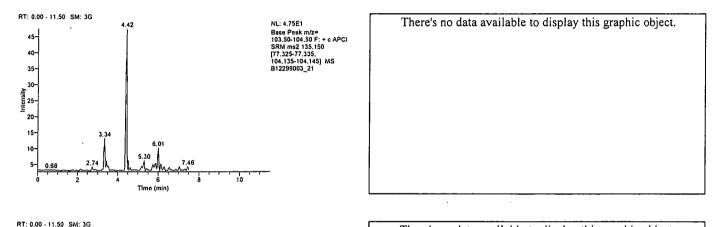
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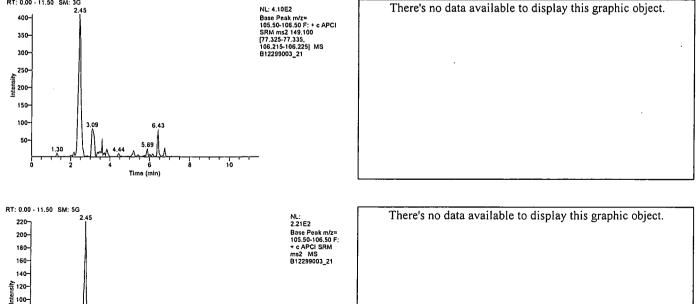
#### LCMSMS ANALYSIS REPORT

Sample Name:	6834876		
Data File:	B12299003_21	Acquisition Date:	10/27/12 08:14:55 PM
Sample Type:	Unknown	Sample ID:	6834876
Run Time(min):	11.49	Vial:	a:17
Injection Volume(µl):	5.00	Instrument Software Version:	2.3.0.1206 SP1
Dilution Factor:	1.00	Instrument Name:	TSQ
Instrument Model:	TSQ Quantum Access	Instrument Serial Number:	TQU01408
Instrument Method:	C:\XCalibur\Hydrazine	Original Data Path:	C:\XCalibur\Hydrazine
	Analysis\Hydraz_TB		Analysis\2012\Quart4
Operator:	Quantum		

Quan Peak Table	
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Component Name	Calculated Amount	Units	Response Ratio	RT
Hydrazine	N/A	ug/L	N/A	N/A
1,1-Dimethylhydrazine	N/A	ug/L	N/A	N/A
Monomethylhydrazine	N/A	ug/L	N/A	N/A





IN 12 7 Page 1 of 1 OCT 2 9 2012 Monday, October 29, 2012, 10:58:49 0 5/251/12 Ð

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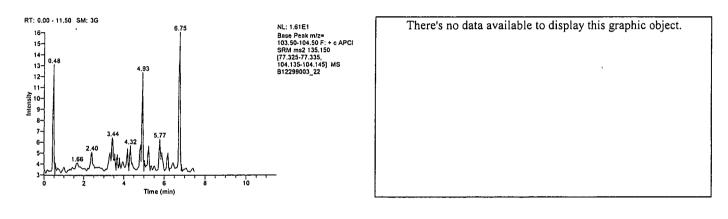
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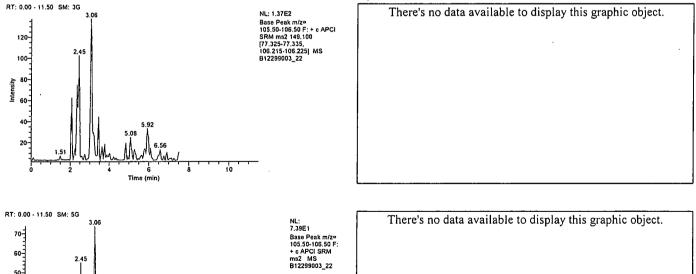
#### LCMSMS ANALYSIS REPORT

Sample Name:	6834877		
Data File:	B12299003_22	Acquisition Date:	10/27/12 08:32:08 PM
Sample Type:	Unknown	Sample ID:	6834877
Run Time(min):	11.49	Vial:	a:18
Injection Volume(µl):	5.00	Instrument Software Version:	2.3.0.1206 SP1
Dilution Factor:	1.00	Instrument Name:	TSQ
Instrument Model:	TSQ Quantum Access	Instrument Serial Number:	TQU01408
Instrument Method:	C:\XCalibur\Hydrazine	Original Data Path:	C:\XCalibur\Hydrazine
	Analysis\Hydraz_TB		Analysis\2012\Quart4
Operator:	Quantum		

#### **Quan Peak Table**

Component Name	Calculated Amount	Units	Response Ratio	RT
Hydrazine	N/A	ug/L	N/A	N/A
1,1-Dimethylhydrazine	N/A	ug/L	N/A	N/A
Monomethylhydrazine	N/A	ug/L	N/A	N/A





10.51 1.51 W.... 9 10 11 5 6 Time (min) Mang Yu Principal Chemist 25/12 Page 1 of 1 OCT 2 9 2012 Monday, October 29, 2012, 10:58:50

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# **Standards Data**

RFA02 0027



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Sequence Table										
_	File Name	Sample ID	Sample Type	Level	Vial	İnj Vol	Dil Factor	Path	Inst Method	Proc Method
	B12299003_02	SYS(MDL)	Unknown	N/A	a:33	5.0	1.000	C:\XCalibur\Hydrazine	C:\XCalibur\Hydrazine	C:\XCalibur\Hydrazine
	D12200002 02	0.11	0.1D					Analysis\2012\Quart4	Analysis\Hydraz_TB	Analysis\Processing Methods\Hydraz
	B12299003_03	CAL1	Std Bracket	1	A:34	5.0	1.000	C:\XCalibur\Hydrazine	C:\XCalibur\Hydrazine	C:\XCalibur\Hydrazine
	B12299003_04	CALD	Cod Day alast	2	4.25	5.0	1 000	Analysis\2012\Quart4	Analysis\Hydraz_TB	Analysis\Processing Methods\Hydraz
	B12299003_04	CAL2	Std Bracket	2	A:35	5.0	1.000	C:\XCalibur\Hydrazine	C:\XCalibur\Hydrazine	C:\XCalibur\Hydrazine
	B12299003_05	CAL3	Std Bracket	3	A:36	5.0	1.000	Analysis\2012\Quart4	Analysis\Hydraz_TB	Analysis\Processing Methods\Hydraz
	D12277005_05	CALJ	Sid Diacker	J	A.30	5.0	1.000	C:\XCalibur\Hydrazine Analysis\2012\Quart4	C:\XCalibur\Hydrazine	C:\XCalibur\Hydrazine
	B12299003_06	CAL4	Std Bracket	4	A:37	5.0	1.000	C:\XCalibur\Hydrazine	Analysis\Hydraz_TB C:\XCalibur\Hydrazine	Analysis\Processing Methods\Hydraz
	212277003_00	Cher	Sta Diacket		11.57	5.0	1.000	Analysis\2012\Quart4	Analysis\Hydraz TB	C:\XCalibur\Hydrazine Analysis\Processing Methods\Hydraz
	B12299003_07	CAL5	Std Bracket	5	A:38	5.0	1.000	C:\XCalibur\Hydrazine	C:\XCalibur\Hydrazine	C:\XCalibur\Hydrazine
		01.20	ore present	5	11.50	5.0	1.000	Analysis/2012/Quart4	Analysis\Hydraz_TB	Analysis\Processing Methods\Hydraz
	B12299003_08	CAL6	Std Bracket	6	A:39	5.0	1.000	C:\XCalibur\Hydrazine	C:\XCalibur\Hydrazine	C:\XCalibur\Hydrazine
	· · · •			Ū.		510	1.000	Analysis/2012/Quart4	Analysis\Hydraz_TB	Analysis\Processing Methods\Hydraz
	B12299003_09	CAL7	Std Bracket	7	A:40	5.0	1.000	C:\XCalibur\Hydrazine	C:\XCalibur\Hydrazine	C:\XCalibur\Hydrazine
								Analysis/2012/Quart4	Analysis\Hydraz_TB	Analysis\Processing Methods\Hydraz
	B12299003_10	CAL8	Std Bracket	8	B:1	5.0	1.000	C:\XCalibur\Hydrazine	C:\XCalibur\Hydrazine	C:\XCalibur\Hydrazine
E								Analysis\2012\Quart4	Analysis\Hydraz TB	Analysis\Processing Methods\Hydraz
þ	B12299003_11	Meoh	Unknown	N/A	a:1	5.0	1.000	C:\XCalibur\Hydrazine	C:\XCalibur\Hydrazine	C:\XCalibur\Hydrazine
		•						Analysis\2012\Quart4	Analysis\Hydraz TB	Analysis\Processing Methods\Hydraz
5	B12299003_12	BLK	Unknown	N/A	a:2	5.0	1.000	C:\XCalibur\Hydrazine	C:\XCalibur\Hydrazine	C:\XCalibur\Hydrazine
F								Analysis\2012\Quart4	Analysis\Hydraz_TB	Analysis\Processing Methods\Hydraz
	B12299003_13	CCV1	QC	1	A:36	5.0	1.000	C:\XCalibur\Hydrazine	C:\XCalibur\Hydrazine	C:\XCalibur\Hydrazine
								Analysis\2012\Quart4	Analysis\Hydraz_TB	Analysis\Processing Methods\Hydraz
	B12299003_14	ICV/LCS	Unknown	N/A	a:12	5.0	1.000	C:\XCalibur\Hydrazine	C:\XCalibur\Hydrazine	C:\XCalibur\Hydrazine
ŗ	D1000000 10							Analysis\2012\Quart4	Analysis\Hydraz_TB	Analysis\Processing Methods\Hydraz
Ŷ	B12299003_15	ICV/LCSD	Unknown	N/A	a:13	5.0	1.000	C:\XCalibur\Hydrazine	C:\XCalibur\Hydrazine	C:\XCalibur\Hydrazine
)	D1000000 16							Analysis\2012\Quart4	Analysis\Hydraz_TB	Analysis\Processing Methods\Hydraz
	B12299003_16	MS (6834875)	Unknown	N/A	a:14	5.0	1.000	C:\XCalibur\Hydrazine	C:\XCalibur\Hydrazine	C:\XCalibur\Hydrazine
	D12200002 17		77.1	21/4			1 000	Analysis\2012\Quart4	Analysis\Hydraz_TB	Analysis\Processing Methods\Hydraz
	B12299003_17	MSD (6834875)	Unknown	N/A	a:15	5.0	1.000	C:\XCalibur\Hydrazine	C:\XCalibur\Hydrazine	C:\XCalibur\Hydrazine
	D12200002 10	001/2	00	2	1.27	<i>с</i> 0	1 000	Analysis\2012\Quart4	Analysis\Hydraz_TB	Analysis\Processing Methods\Hydraz
	B12299003_18	CCV2	QC	2	A:37	5.0	1.000	C:\XCalibur\Hydrazine	C:\XCalibur\Hydrazine	C:\XCalibur\Hydrazine
	B12299003_19	Maab	T. J	<b>N</b> 1/A		5.0	1 000	Analysis\2012\Quart4	Analysis\Hydraz_TB	Analysis\Processing Methods\Hydraz
	B12299005_19	Meoh	Unknown	N/A	a:1	5.0	1.000	C:\XCalibur\Hydrazine	C:\XCalibur\Hydrazine	C:\XCalibur\Hydrazine
	B12299003_20	6834875 (BKG)	I Internetion	N/A	a:16	5.0	1.000	Analysis\2012\Quart4	Analysis\Hydraz_TB	Analysis/Processing Methods/Hydraz
	B12233005_20	0034073 (BKG)	Unknown	IN/A	a:10	5.0	1.000	C:\XCalibur\Hydrazine	C:\XCalibur\Hydrazine	C:\XCalibur\Hydrazine
	B12299003_21	6834876	Unknown	N/A	a:17	5.0	1.000	Analysis\2012\Quart4	Analysis\Hydraz_TB	Analysis\Processing Methods\Hydraz
	512277005_21	010-070	UIKIOWI	IN/A	a.17	5.0	1.000	C:\XCalibur\Hydrazine Analysis\2012\Quart4	C:\XCalibur\Hydrazine	C:\XCalibur\Hydrazine
	B12299003_22	6834877	Unknown	N/A	a:18	5.0	1.000	C:\XCalibur\Hydrazine	Analysis\Hydraz_TB C:\XCalibur\Hydrazine	Analysis\Processing Methods\Hydraz C:\XCalibur\Hydrazine
		000/01/	Onknown	11/1	a. 10	5.0	1.000	Analysis\2012\Quart4	Analysis\Hydraz_TB	Analysis\Processing Methods\Hydraz
	B12299003 23	CCV3	QC	3	A:38	5.0	1.000	C:\XCalibur\Hydrazine	C:\XCalibur\Hydrazine	C:\XCalibur\Hydrazine
	······		×~	5		5.0	1.000	Analysis\2012\Quart4	Analysis\Hydraz_TB	Analysis\Processing Methods\Hydraz
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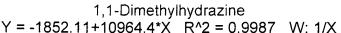
Page 1 of 1 Monday, October 29, 2012, 10:58:03

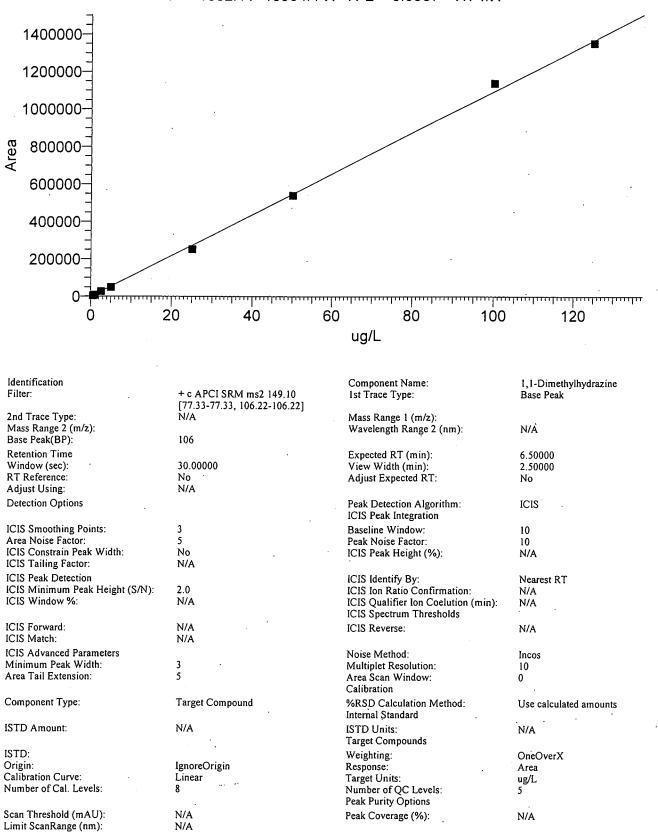
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#### **Component Name:**

#### 1,1-Dimethylhydrazine





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M2628 11/06/12

(1-2 11/7/12

RF PC2

0029



Component Cal Level Table						
Calibration Levels	Amount (µg/L)					
1	0.500					
2	1.000					
3	2.500					
4	5.000					
5	25.000					
6	50.000					
7	100.000					
8	125.000					

#### **Component QC Level Table**

QC Levels	Amount (µg/L)
ICV/LCS	60.000
1	2.500
2	5.000
3	25.000
4	50.000

ICV & CCV Result Table

		esuit rable		
Sample ID	Data File Name	Calculated Amount (µg/L)	Area	% Diff
CAL1	B12299003 03	0.585	4563.99	17.04
CAL2	B12299003_04	0.898	7989.82	-10.24
CAL3	B12299003_05	2.632	27001.91	5.26
CAL4	B12299003_06	4.680	49459.72	-6.40
CAL5	B12299003_07	23.154	252021.03	-7.38
CAL6	B12299003_08	49.397	539750.83	-1.21
CAL7	B12299003_09	104.025	1138716.26	4.03
CAL8	B12299003 10	123.630	1353669.14	-1.10
CCV1	B12299003 13	1.863	18569.25	-25.50
ICV/LCS	B12299003_14	54.901	600104.37	-8.50
ICV/LCSD	B12299003 15	58.400	638468.56	-2.67
CCV2	B12299003 18	5.009	53070.85	0.18
CCV3	B12299003_23	24.868	270808.23	-0.53

M12628 6/112 11/06/12 11/12

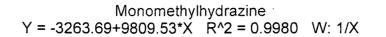
Page 4 of 6 Tuesday, November 06, 2012, 14:42:40

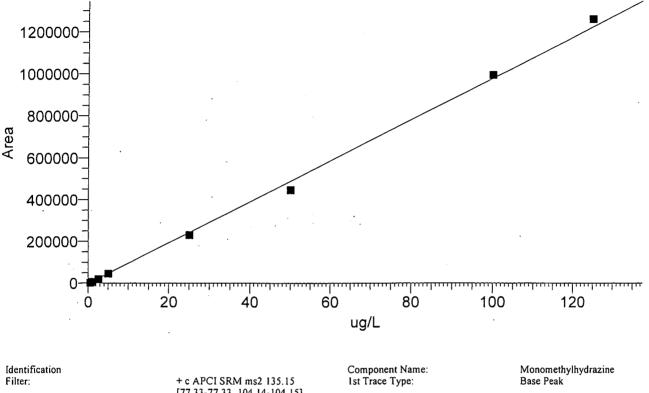
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#### **Component Name:**

#### Monomethylhydrazine





2nd Trace Type:	[77.33-77 N/A
Mass Range 2 (m/z): Base Peak(BP):	104
Retention Time Window (sec): RT Reference: Adjust Using: Detection Options	30.00000 No N/A
ICIS Smoothing Points: Area Noise Factor: ICIS Constrain Peak Width: ICIS Tailing Factor:	3 5 No N/A
ICIS Peak Detection ICIS Minimum Peak Height (S/N): ICIS Window %:	50.0 N/A
ICIS Forward: ICIS Match: ICIS Advanced Parameters Minimum Peak Width:	N/A N/A 3
Area Tail Extension: Component Type:	5 Target Co
ISTD Amount:	N/A
ISTD: Origin:	IgnoreOrig

Origin: Calibration Curve: Number of Cal. Levels:

Scan Threshold (mAU): Limit ScanRange (nm):

N/A

7.33, 104.14-104.15]

mpound

IgnoreOrigin Linear 8

N/A

1-1/2

RF AQ2

Mass Range 1 (m/z): Wavelength Range 2 (nm):

Expected RT (min): View Width (min): Adjust Expected RT: Peak Detection Algorithm: . **ICIS** Peak Integration

Baseline Window: Peak Noise Factor: ICIS Peak Height (%): ICIS Identify By:

ICIS Ion Ratio Confirmation: ICIS Qualifier Ion Coelution (min): ICIS Spectrum Thresholds ICIS Reverse:

Noise Method: Multiplet Resolution: Area Scan Window: Calibration %RSD Calculation Method: Internal Standard ISTD Units: Target Compounds Weighting: Response: Target Units: Number of QC Levels: Peak Purity Options Peak Coverage (%):

oc 31

N/A

4.30000 2.50000 No

ICIS 50 25

N/A

Nearest RT N/A N/A

N/A

Incos 10

Use calculated amounts

N/A

0

OneOverX Area ug/L 5

N/A

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My 2628 11/06/12



Component Cal Level Table			
Calibration Levels	Amount (µg/L)		
1	0.500		
2	1.000		
3	2.500		
4	5.000		
5	25.000		
6	50.000		
7	100.000		
8	125.000		
7	100.00		

#### **Component QC Level Table**

QC Levels	Amount (µg/L)
ICV/LCS	60.000
1	2.500
2	5.000
3	25.000
. 4	50.000

ICV & CCV Result Table

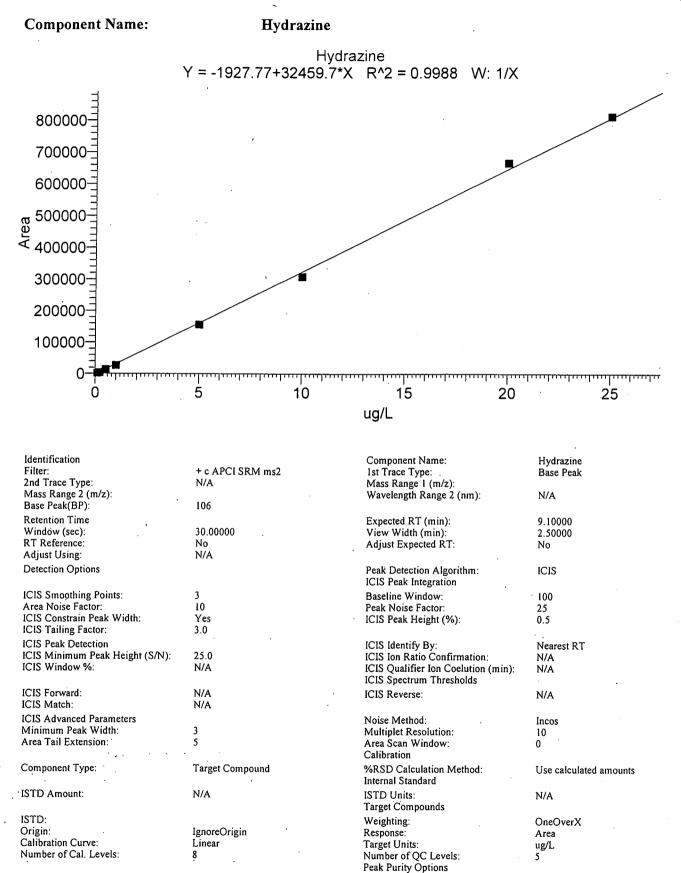
Sample ID	Data File Name	Calculated Amount (µg/L)	Area	% Diff
CAL1	B12299003_03	0.578	2403.15	. 15.54
CAL2	B12299003_04	1.002	6569.33	0.24
CAL3	B12299003_05	2.360	19889.69	-5.59
CAL4	B12299003_06	4.918	44979.91	-1.64
CAL5	B12299003_07	23.780	230010.36	-4.88
CAL6	B12299003_08	45.748	445501.80	-8.50
CAL7	B12299003_09	101.716	994519.32	1.72
CAL8	B12299003_10 ⁻	128.898	1261163.19	3.12
CCV1	B12299003 13	2.155	17871.96	-13.82
ICV/LCS	B12299003 ⁻ 14	66.247	646584.18	10.41
ICV/LCSD	B12299003_15	62.833	613094.16	4.72
CCV2	B12299003 18	4.260	38524.54	-14.80
CCV3	B12299003_23	21.913	211695.09	-12.35

My 268 (/1)2 11/06/12 11/2/12

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#### rf ac 2 0032





Scan Threshold (mAU): Limit ScanRange (nm):

N/A

N/A

#### REA02 0033

Peak Coverage (%):

Page 5 of 6 Tuesday, November 06, 2012, 14:42:40

N/A



Component Cal Level Table		
Calibration Levels	Amount (µg/L)	
1	0.100	
2	0.200	
3	0.500	
4	1.000	
5	5.000	
6	10.000	
7	. 20.000	
8	25.000	
	•	

#### Component QC Level Table

 QC Levels	Amount (µg/L)
ICV/LCS	12.000
1	0.500
· 2	1.000
3	5,000
. 4	10.000

ICV & CCV Result Table

% Dif	Area	Calculated Amount (µg/L)	Data File Name	Sample ID
28.88	2255.73	0.129	B12299003 03	CAL1
-9.58	3942.42	0.181	B12299003_04	CAL2
-3.34	13759.44	0.483	B12299003_05	CAL3
-11.70	26735.71	0.883	B12299003_06	CAL4
-3.27	155056.42	4.836	B12299003_07	CAL5
-4.56	307879.90	9.544	B12299003_08	CAL6
2.95	666416.42	20.590	B12299003_09	CAL7
0.61	814540.30	25.153	B12299003 ¹⁰	CAL8
-10.74	12559.53	0.446	B12299003 13	CCV1
3.16	399903.45	12.379	B12299003 ⁻ 14	ICV/LCS
5.10	407454.21	12.612	B12299003 ¹⁵	ICV/LCSD
1.70	31082.20	1.017	B12299003 ⁻ 18	CCV2
-2.59	156163.68	4.870	B12299003_23	CCV3

M2628 "/06/12

21/22 21/57,

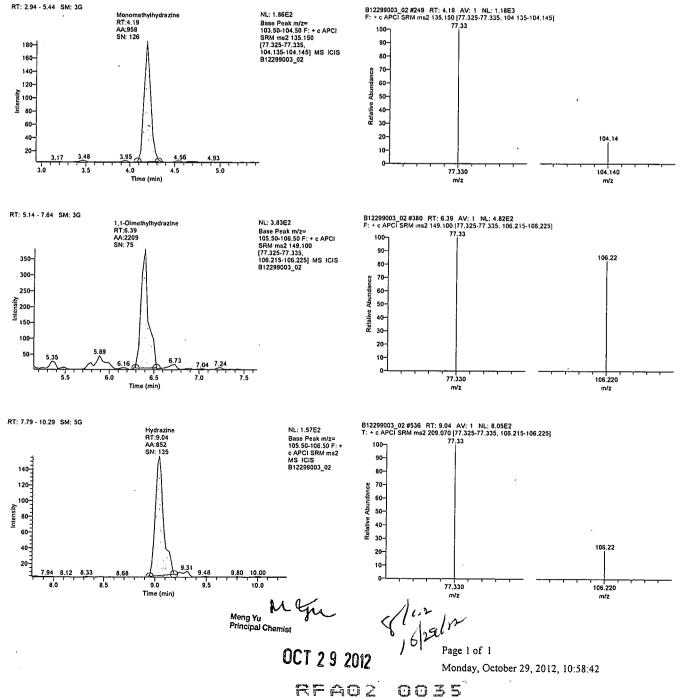
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RFA02 CO34



Sample Name:	SYS(MDĽ)		
Data File:	B12299003_02	Acquisition Date:	10/27/12 02:49:19 PM
Sample Type:	Unknown	Sample ID:	SYS(MDL)
Run Time(min):	11.49	Vial:	a:33
Injection Volume(µl):	5.00	Instrument Software Version:	2.3.0.1206 SP1
Dilution Factor:	1.00	Instrument Name:	TSQ
Instrument Model:	TSQ Quantum Access	Instrument Serial Number:	TQU01408
Instrument Method:	C:\XCalibur\Hydrazine	Original Data Path:	C:\XCalibur\Hydrazine
	Analysis\Hydraz_TB		Analysis\2012\Quart4
Operator:	Quantum		
Injection Volume(µl): Dilution Factor: Instrument Model: Instrument Method:	5.00 1.00 TSQ Quantum Access C:\XCalibur\Hydrazine Analysis\Hydraz_TB	Instrument Software Version: Instrument Name: Instrument Serial Number:	2.3.0.1206 SP1 TSQ TQU01408 C:\XCalibur\Hydrazine

Quan Peak Table				
Component Name	Calculated Amount	Units	Response Ratio	RT
Monomethylhydrazine	0.430	ug/L	958.040	4.19
1,1-Dimethylhydrazine Hydrazine	0.370 0.086	ug/L ug/L	2209.156 852.469	6.39 9.04

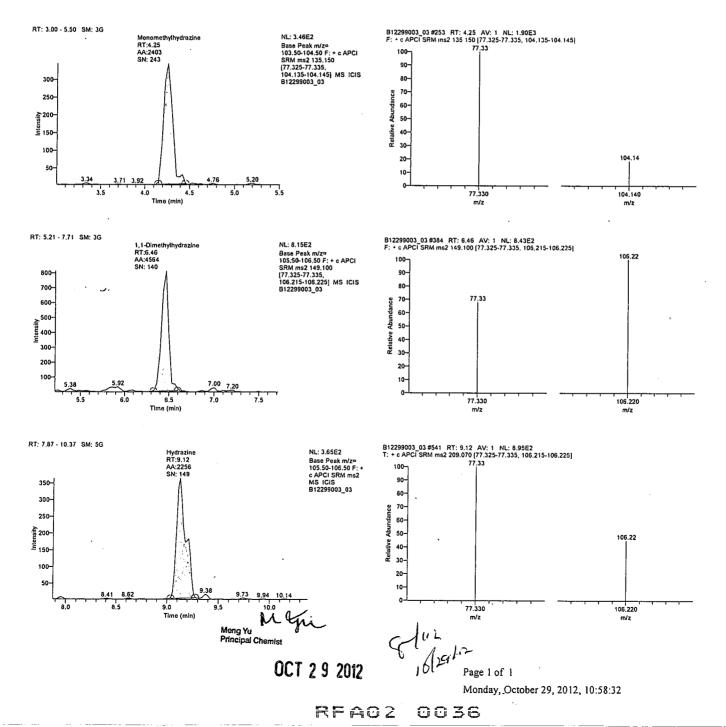




Sample Name:	CALI		
Data File:	B12299003_03	Acquisition Date:	10/27/12 03:06:31 PM
Sample Type:	Std Bracket	Sample ID:	CAL1
Run Time(min):	11.49	Vial:	A:34
Injection Volume(µl):	5.00	Instrument Software Version:	2.3.0.1206 SP1
Dilution Factor:	1.00	Instrument Name:	TSQ
Instrument Model:	TSQ Quantum Access	Instrument Serial Number:	TQU01408
Instrument Method:	C:\XCalibur\Hydrazine	Original Data Path:	C:\XCalibur\Hydrazine
Operator:	Analysis\Hydraz_TB Quantum		Analysis\2012\Quart4

#### <u>Quan Peak Table</u>

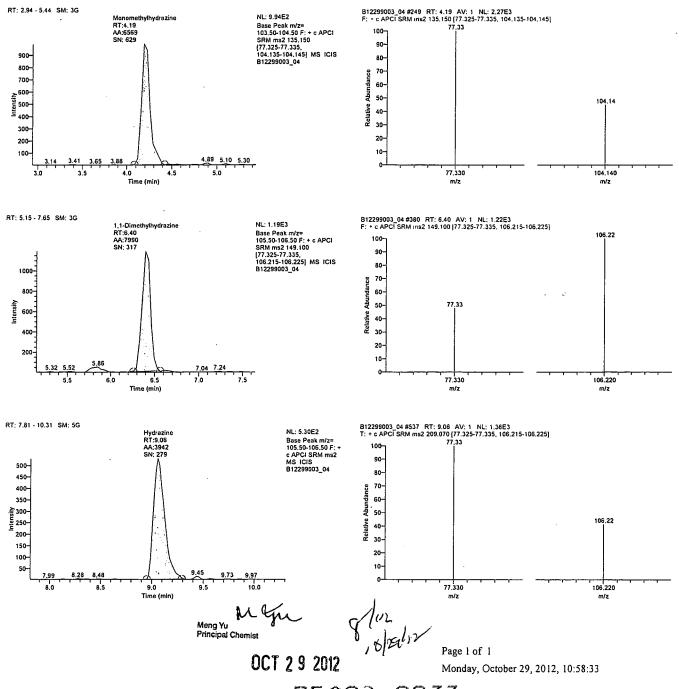
 Component Name	Calculated Amount	Units	Response Ratio	RT
Monomethylhydrazine	0.578	ug/L	2403.154	4.25
1,1-Dimethylhydrazine	0.585	ug/L	4563.992	6.46
Hydrazine	0.129	ug/L	2255.735	9.12





Sample Name:	CAL2		
Data File:	B12299003_04	Acquisition Date:	10/27/12 03:23:48 PM
Sample Type:	Std Bracket	Sample ID:	CAL2
Run Time(min):	11.49	Vial:	A:35
Injection Volume(µl):	5.00	Instrument Software Version:	2.3.0.1206 SP1
Dilution Factor:	1.00	Instrument Name:	TSQ
Instrument Model:	TSQ Quantum Access	Instrument Serial Number:	TQU01408
Instrument Method:	C:\XCalibur\Hydrazine	Original Data Path:	C:\XCalibur\Hydrazine
	Analysis\Hydraz_TB		Analysis\2012\Quart4
Operator:	Quantum		

#### Quan Peak Table Calculated Amount RT Component Name Units **Response** Ratio 4.19 Monomethylhydrazine 1.002 ug/L 6569.330 1,1-Dimethylhydrazine 0.898 7989.821 6.40 ug/L 0.181 ug/L 3942.418 9.06 Hydrazine



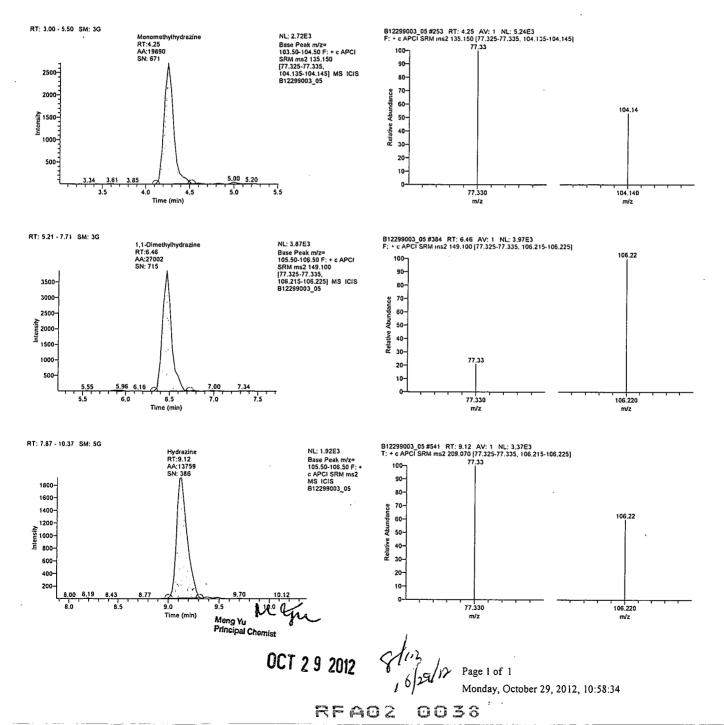
RFA02 0037



Sample Name:	CAL3		
Data File:	B12299003_05	Acquisition Date:	10/27/12 03:41:03 PM
Sample Type:	Std Bracket	Sample ID:	CAL3
Run Time(min):	11.49	Vial:	A:36
Injection Volume(µl):	5.00	Instrument Software Version:	2.3.0.1206 SP1
Dilution Factor:	1.00	Instrument Name:	TSQ
Instrument Model:	TSQ Quantum Access	Instrument Serial Number:	TQU01408
Instrument Method:	C:\XCalibur\Hydrazine Analysis\Hydraz_TB	Original Data Path:	C:\XCalibur\Hydrazine Analysis\2012\Quart4
Operator:	Quantum		

# <u>Quan Peak Table</u>

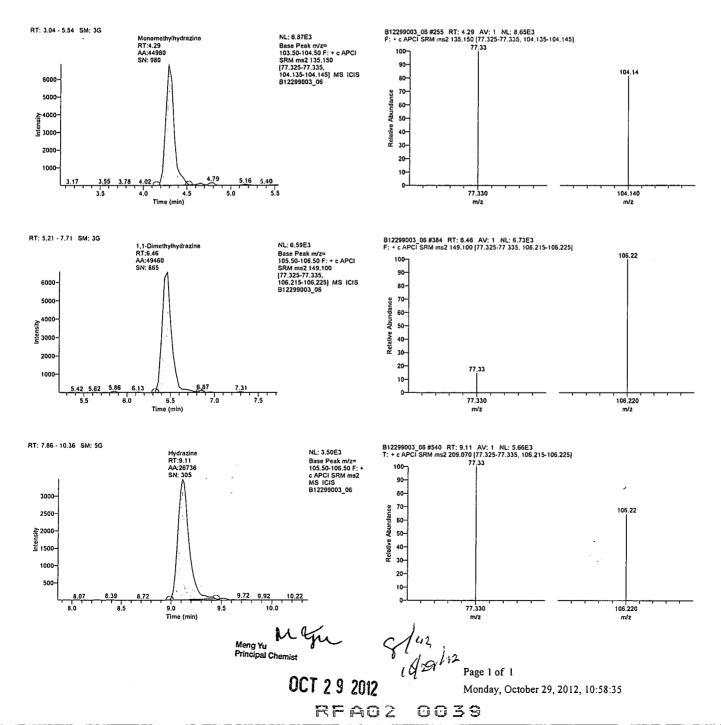
Component Name	Calculated Amount	Units	Response Ratio	RT
Monomethylhydrazine	2.360	ug/L	19889.686	4.25
1,1-Dimethylhydrazine	2.632	ug/L	27001.907	6.46
Hydrazine	0.483	ug/L	13759.443	9.12





Sample Name:	CAL4		
Data File:	B12299003_06	Acquisition Date:	10/27/12 03:58:14 PM
Sample Type:	Std Bracket	Sample ID:	CAL4
Run Time(min):	11.49	Vial:	A:37
Injection Volume(µl):	5.00	Instrument Software Version:	2.3.0.1206 SP1
Dilution Factor:	1.00	Instrument Name:	TSQ
Instrument Model:	TSQ Quantum Access	Instrument Serial Number:	TQU01408
Instrument Method:	C:\XCalibur\Hydrazine Analysis\Hydraz_TB	Original Data Path:	C:\XCalibur\Hydrazine Analysis\2012\Quart4
Operator:	Quantum		

Quan Peak Table				
Component Name	Calculated Amount	Units	Response Ratio	RT
Monomethylhydrazine	4.918	ug/L	44979.913	4.29
1,1-Dimethylhydrazine	4.680	ug/L	49459.716	6.46
Hydrazine	0.883	ug/L	26735.706	9.11



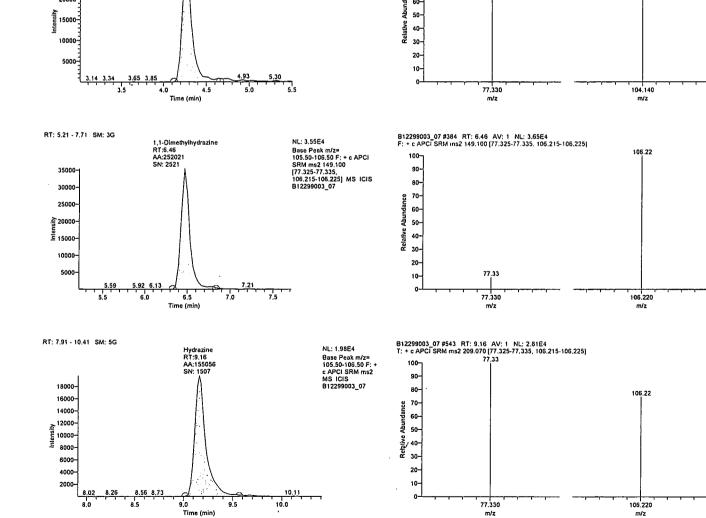


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## LCMSMS ANALYSIS REPORT

Sample Name: Data File: Sample Type: Run Time(min): Injection Volume(µl): Dilution Factor: Instrument Model: Instrument Method: Operator:	Std Br. 11.49 5.00 1.00 TSQ Q C:\XC	uantum Access alibur\Hydrazine is\Hydraz_TB	Acquisition Date: Sample ID: Vial: Instrument Software Version Instrument Name: Instrument Serial Number: Original Data Path:	10/27/12 04:14:27 PM CAL5 A:38 2.3.0.1206 SP1 TSQ TQU01408 C:\XCalibur\Hydrazine Analysis\2012\Quart4	-
			n Peak Table	Demons Detie	DT
	nponent Name	Calculated Amount		Response Ratio	RT
	ethylhydrazine	23.780	ug/L	230010.359	4.26
1,1-Dim	ethylhydrazine	23.154	ug/L	252021.034	6.46
	Hydrazine	4.836	ug/L	155056.424	9.16
RT: 3.01 - 5.51 SM: 3G	Monamethylhydrazine RT:4,26 AA:230010 SN: 1608	NL: 2.92E4 Base Peak m/z= 103,50-104,50 F; SRM ms2 135, 15( 17,325-77,335, 104,135-104,145] B12299003_07	90-	325-77 335, 104,135-104,145	14,14

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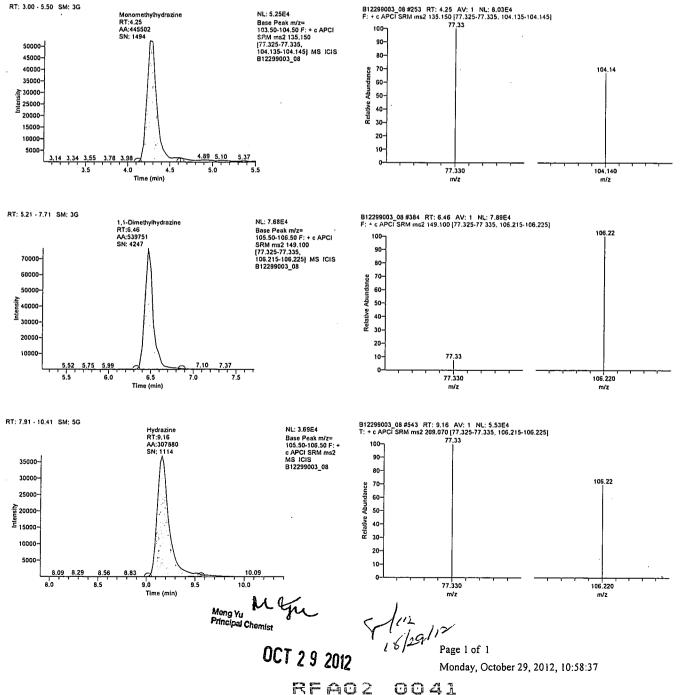


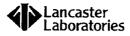
Mong Yu Principal Chemist  $f_{12}^{112}$ DCT 2 9 2012 Monday, October 29, 2012, 10:58:36 RFACE OC 4 C



Sample Name:	CAL6		
Data File:	B12299003_08	Acquisition Date:	10/27/12 04:31:25 PM
Sample Type:	Std Bracket	Sample ID:	CAL6
Run Time(min):	11.49	Vial:	A:39
Injection Volume(µl):	5.00	Instrument Software Version:	2.3.0.1206 SP1
Dilution Factor:	1.00	Instrument Name:	TSQ
Instrument Model:	TSQ Quantum Access	Instrument Serial Number:	TQU01408
Instrument Method:	C:\XCalibur\Hydrazine Analysis\Hydraz_TB	Original Data Path:	C:\XCalibur\Hydrazine Analysis\2012\Quart4
Operator:	Quantum		

Quan Peak Table				
Component Name	Calculated Amount	Units	Response Ratio	RT
Monomethylhydrazine	45.748	ug/L	445501.803	4.25
1,1-Dimethylhydrazine	49.397	ug/L	539750.830	6.46
Hydrazine	9.544	ug/L	307879.896	9.16

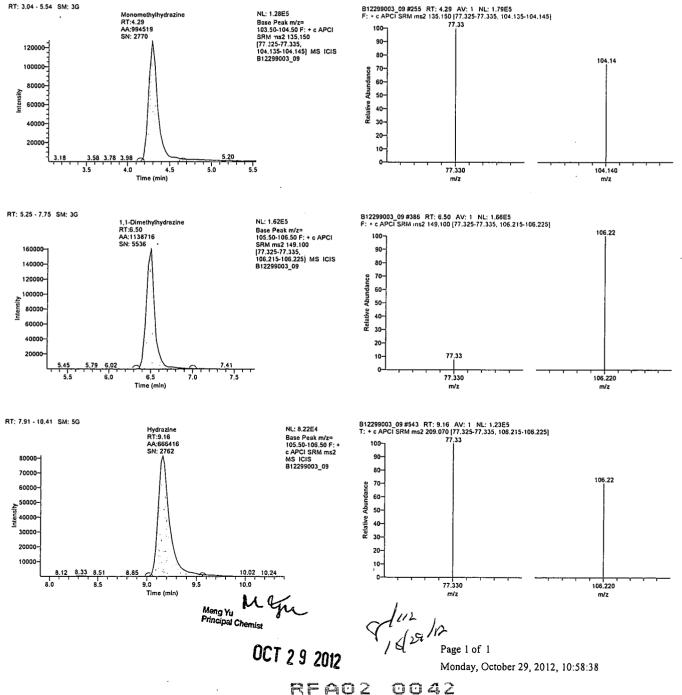




Sample Name:	CAL7		
Data File:	B12299003_09	Acquisition Date:	10/27/12 04:48:38 PM
Sample Type:	Std Bracket	Sample ID:	CAL7
Run Time(min):	11.49	Vial:	A:40
Injection Volume(µl):	5.00	Instrument Software Version:	2.3.0.1206 SP1
Dilution Factor:	1.00	Instrument Name:	TSQ
Instrument Model:	TSQ Quantum Access	Instrument Serial Number:	TQU01408
Instrument Method:	C:\XCalibur\Hydrazine	Original Data Path:	C:\XCalibur\Hydrazine
	Analysis\Hydraz_TB		Analysis\2012\Quart4
Operator:	Quantum		

## **Quan Peak Table**

 Component Name	Calculated Amount	Units	Response Ratio	RT
Monomethylhydrazine	101.716	ug/L	994519.318	4.29
1,1-Dimethylhydrazine	104.025	ug/L	1138716.264	6.50
Hydrazine	20.590	ug/L	666416.420	9.16



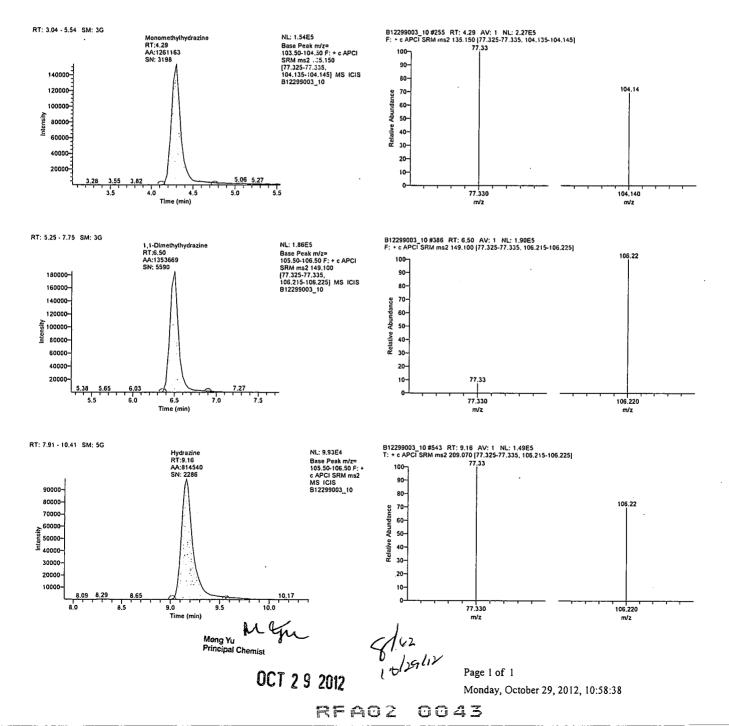
RFA02



Sample Name:	CAL8		
Data File:	B12299003_10	Acquisition Date:	10/27/12 05:05:52 PM
Sample Type:	Std Bracket	Sample ID:	CAL8
Run Time(min):	11.49	Vial:	B:1
Injection Volume(µl):	5.00	Instrument Software Version:	2.3.0.1206 SP1
Dilution Factor:	1.00	Instrument Name:	TSQ
Instrument Model:	TSQ Quantum Access	Instrument Serial Number:	TQU01408
Instrument Method:	C:\XCalibur\Hydrazine	Original Data Path:	C:\XCalibur\Hydrazine
	Analysis\Hydraz_TB		Analysis\2012\Quart4
Operator:	Quantum		

# <u>Quan Peak Table</u>

 Component Name	Calculated Amount	Units	Response Ratio	RT
Monomethylhydrazine	128.898	ug/L	1261163.194	4.29
1,1-Dimethylhydrazine	123.630	ug/L	1353669.141	6.50
Hydrazine	25.153	ug/L	814540.296	9.16





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ś 6 Time (min)

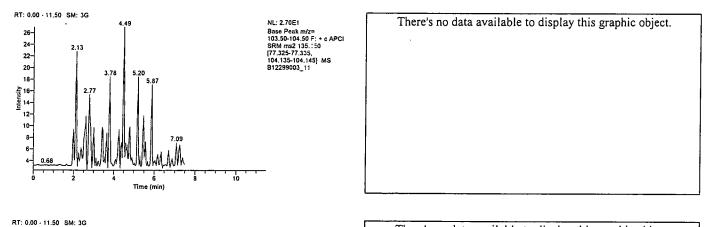
> r y Ļ Meng Yu Principal Chemist

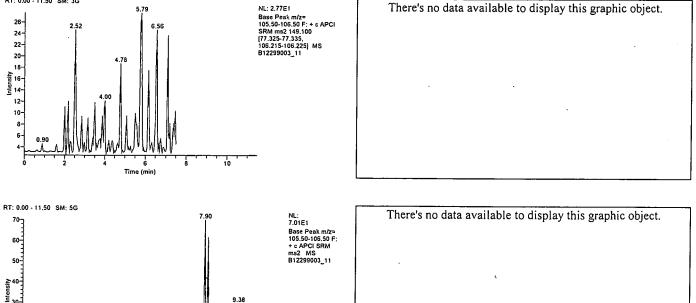
## LCMSMS ANALYSIS REPORT

Sample Name:	Meoh		
Data File:	B12299003_11	Acquisition Date:	10/27/12 05:23:02 PM
Sample Type:	Unknown	Sample ID:	Meoh
Run Time(min):	11.49	Vial:	a:1
Injection Volume(µl):	5.00	Instrument Software Version:	2.3.0.1206 SP1
Dilution Factor:	1.00	Instrument Name:	TSQ
Instrument Model:	TSQ Quantum Access	Instrument Serial Number:	TQU01408
Instrument Method:	C:\XCalibur\Hydrazine Analysis\Hydraz_TB	Original Data Path:	C:\XCalibur\Hydrazine Analysis\2012\Quart4
Operator:	Quantum		

#### Quan Peak Table

Component Name	Calculated Amount	Units	Response Ratio	RT
Hydrazine	N/A	ug/L	N/A	N/A
1,1-Dimethylhydrazine	N/A	ug/L	N/A	N/A
Monomethylhydrazine	N/A	ug/L	N/A	N/A





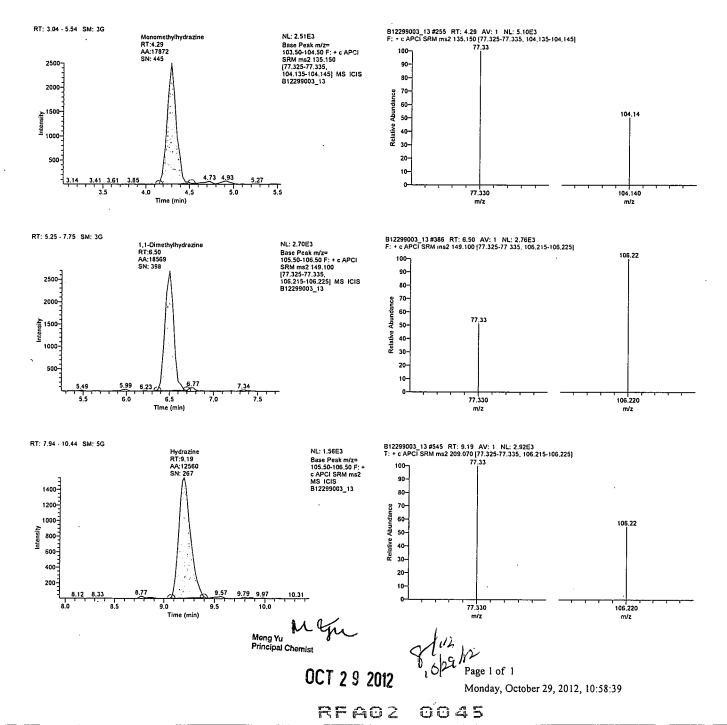
Page 1 of 1 OCT 29 2012 1 0 RFA02 Monday, October 29, 2012, 10:58:43 0044



Sample Name:	CCV1		
Data File:	B12299003_13	Acquisition Date:	10/27/12 05:57:24 PM
Sample Type:	QC	Sample ID:	CCV1
Run Time(min):	11.49	Vial:	A:36
Injection Volume(µl):	5.00	Instrument Software Version:	2.3.0.1206 SP1
Dilution Factor:	1.00	Instrument Name:	TSQ
Instrument Model:	TSQ Quantum Access	Instrument Serial Number:	TQU01408
Instrument Method:	C:\XCalibur\Hydrazine	Original Data Path:	C:\XCalibur\Hydrazine
	Analysis\Hydraz_TB		Analysis\2012\Quart4
Operator:	Quantum		

	Quan Pear	<u>a l'able</u>		
Component Name	Calculated Amount	Units	Response Ratio	RT
Monomethylhydrazine	2.155	ug/L	17871.964	4.29
1,1-Dimethylhydrazine	1.863	ug/L	18569.249	6.50
Hydrazine	0.446	ug/L	12559.534	9.19

Onen Beels Table

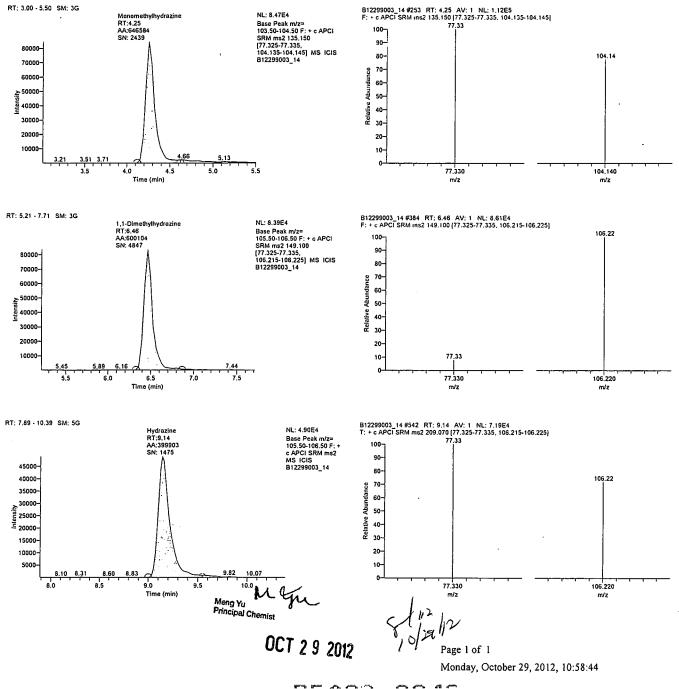




Sample Name:	ICV/LCS		
Data File:	B12299003_14	Acquisition Date:	10/27/12 06:14:38 PM
Sample Type:	Unknown	Sample ID:	ICV/LCS
Run Time(min):	11.49	Vial:	a:12
Injection Volume(µl):	5.00	Instrument Software Version:	2.3.0.1206 SP1
Dilution Factor:	1.00	Instrument Name:	TSQ
Instrument Model:	TSQ Quantum Access	Instrument Serial Number:	TQU01408
Instrument Method:	C:\XCalibur\Hydrazine Analysis\Hydraz_TB	Original Data Path:	C:\XCalibur\Hydrazine Analysis\2012\Quart4
Operator:	Quantum		

#### <u>Quan Peak Table</u>

 Component Name	Calculated Amount	Units	Response Ratio	RT
Monomethylhydrazine	66.247	ug/L	646584.180	4.25
1,1-Dimethylhydrazine	54.901	ug/L	600104.371	6.46
Hydrazine	12.379	ug/L	399903.454	9.14



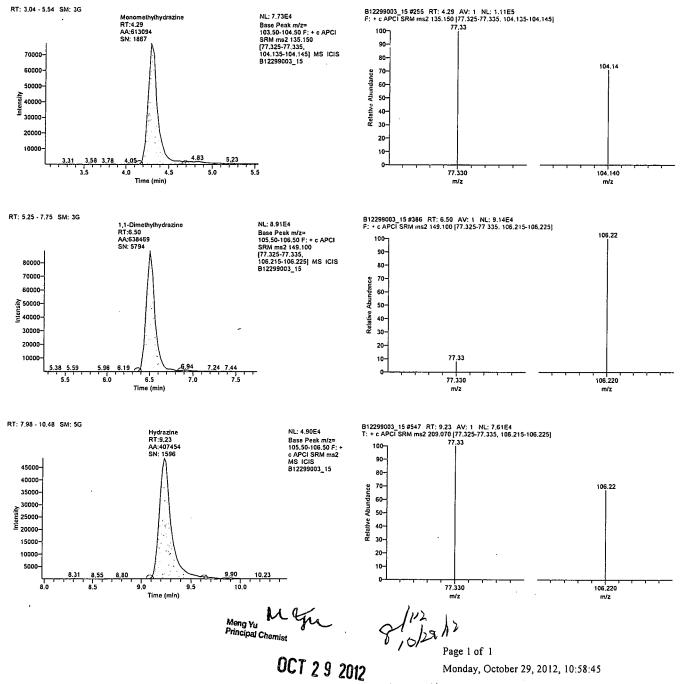
RF602 0046



Sample Name:	ICV/LCSD		
Data File:	B12299003_15	Acquisition Date:	10/27/12 06:31:48 PM
Sample Type:	Unknown	Sample ID:	ICV/LCSD
Run Time(min):	11.49	Vial:	a:13
Injection Volume(µl):	5.00	Instrument Software Version:	2.3.0.1206 SP1
Dilution Factor:	1.00	Instrument Name:	TSQ
Instrument Model:	TSQ Quantum Access	Instrument Serial Number:	TQU01408
Instrument Method:	C:\XCalibur\Hydrazine Analysis\Hydraz_TB	Òriginal Data Path:	C:\XCalibur\Hydrazine Analysis\2012\Quart4
Operator:	Quantum		

#### <u>Quan Peak Table</u>

Component Name	Calculated Amount	Units	Response Ratio		RT
Monomethylhydrazine	62.833	ug/L	613094.161	`	4.29
1,1-Dimethylhydrazine	58.400	ug/L	638468.558		6.50
Hydrazine	12.612	ug/L	407454.213		9.23

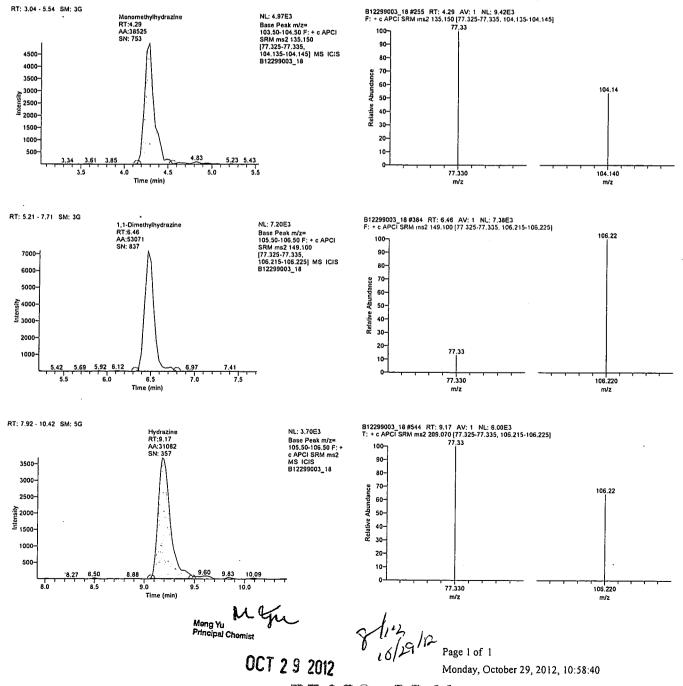


RFAC2 CO47



Sample Name:	CCV2		
Data File:	B12299003_18	Acquisition Date:	10/27/12 07:23:23 PM
Sample Type:	QC	Sample ID:	CCV2
Run Time(min):	11.49	Vial:	A:37
Injection Volume(µl):	5.00	Instrument Software Version:	2.3.0.1206 SP1
Dilution Factor:	1.00	Instrument Name:	TSQ
Instrument Model:	TSQ Quantum Access	Instrument Serial Number:	TQU01408
Instrument Method:	C:\XCalibur\Hydrazine Analysis\Hydraz_TB	Original Data Path:	C:\XCalibur\Hydrazine Analysis\2012\Quart4
Operator:	Quantum	<i>,</i>	

	Quan Peal	Table		
Component Name	Calculated Amount	Units	Response Ratio	RT
Monomethylhydrazine	4.260	ug/L	38524.544	4.29
1,1-Dimethylhydrazine	5.009	ug/L	53070.854	6.46
Hydrazine	1.017	ug/L	31082.203	9.17



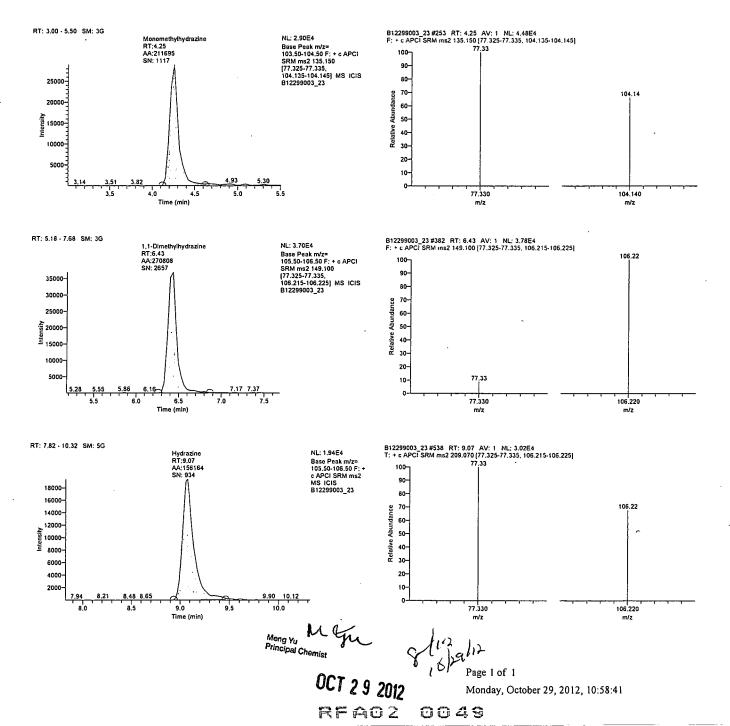
RFA02 0040



Sample Name:	CCV3		
Data File:	B12299003_23	Acquisition Date:	10/27/12 08:49:24 PM
Sample Type:	QC	Sample ID:	CCV3
Run Time(min):	11.49	Vial:	A:38
Injection Volume(µl):	5.00	Instrument Software Version:	2.3.0.1206 SP1
Dilution Factor:	1.00	Instrument Name:	TSQ
Instrument Model:	TSQ Quantum Access	Instrument Serial Number:	TQU01408
Instrument Method:	C:\XCalibur\Hydrazine Analysis\Hydraz_TB	Original Data Path:	C:\XCalibur\Hydrazine Analysis\2012\Quart4
Operator:	Quantum		

Quan reak Table				
Component Name	Calculated Amount	Units	Response Ratio	RT
Monomethylhydrazine	21.913	ug/L	211695.090	4.25
1,1-Dimethylhydrazine	24.868	ug/L	270808.233	6.43
Hydrazine	4.870	ug/L	156163.685	9.07

D. . I. (D. 1)



# Raw QC Data

RFA02 0050



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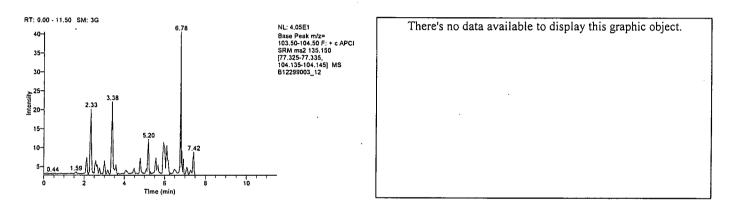
20-10-

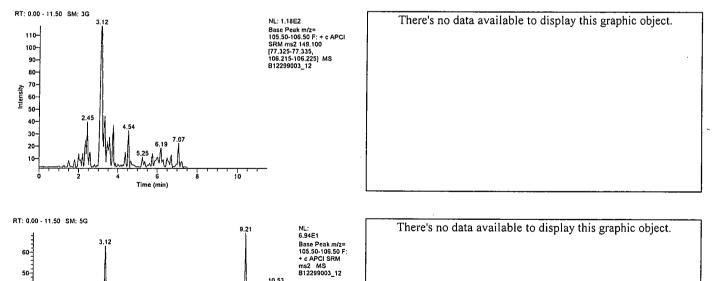
#### LCMSMS ANALYSIS REPORT

Sample Name:	BLK			
Data File:		B12299003_12	Acquisition Date:	10/27/12 05:40:12 PM
Sample Type:		Unknown	Sample ID:	BLK
Run Time(min):		11.49	Vial:	a:2
Injection Volume(µI):		5.00	Instrument Software Version:	2.3.0.1206 SP1
Dilution Factor:		1.00	Instrument Name:	TSQ
Instrument Model:		TSQ Quantum Access	Instrument Serial Number:	TQU01408
Instrument Method:		C:\XCalibur\Hydrazine	Original Data Path:	C:\XCalibur\Hydrazine
		Analysis\Hydraz_TB		Analysis\2012\Quart4
Operator:		Quantum		

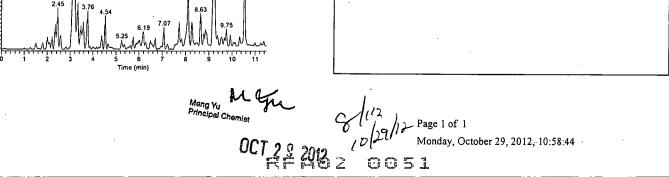
#### Quan Peak Table

Component Name	Calculated Amount	Units	Response Ratio	RT
Hydrazine	N/A	ug/L	N/A	N/A
1,1-Dimethylhydrazine	N/A	ug/L	N/A	N/A
Monomethylhydrazine	N/A	ug/L	N/A	N/A





10.53

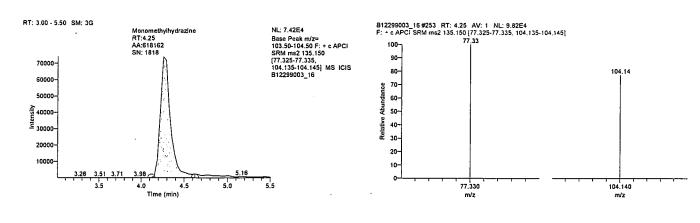


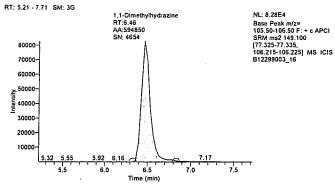


(6834875)		
B12299003_16	Acquisition Date:	10/27/12 06:48:58 PM
Unknown	Sample ID:	MS (6834875)
11.49	Vial:	a:14
5.00	Instrument Software Version:	2.3.0.1206 SP1
1.00	Instrument Name:	TSQ
TSQ Quantum Access	Instrument Serial Number:	TQU01408
C:\XCalibur\Hydrazine	Original Data Path:	C:\XCalibur\Hydrazine
Analysis\Hydraz_TB		Analysis\2012\Quart4
Quantum		
	B12299003_16 Unknown 11.49 5.00 1.00 TSQ Quantum Access C:\XCalibur\Hydrazine Analysis\Hydraz_TB	B12299003_16Acquisition Date:UnknownSample ID:11.49Vial:5.00Instrument Software Version:1.00Instrument Name:TSQ Quantum AccessInstrument Serial Number:C:\XCalibur\HydrazineOriginal Data Path:Analysis\Hydraz_TBInstrument Serial Number:

#### Quan Peak Table

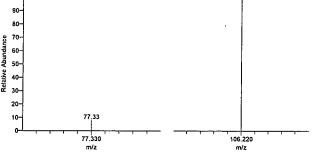
Component Name	Calculated Amount	Units	Response Ratio	RT
Monomethylhydrazine	63.349	ug/L	618162.195	4.25
1,1-Dimethylhydrazine	54.422	ug/L	594850.317	6.46
Hydrazine	12.617	ug/L	407609.699	9.16





RT: 7.91 - 10.41 SM: 5G

812299003_16 #384 RT: 6.46 AV: 1 NL: 8.50E4 F: + c APCI SRM ins2 149.100 (77.325-77 335, 106.215-106.225) 100-



106.22

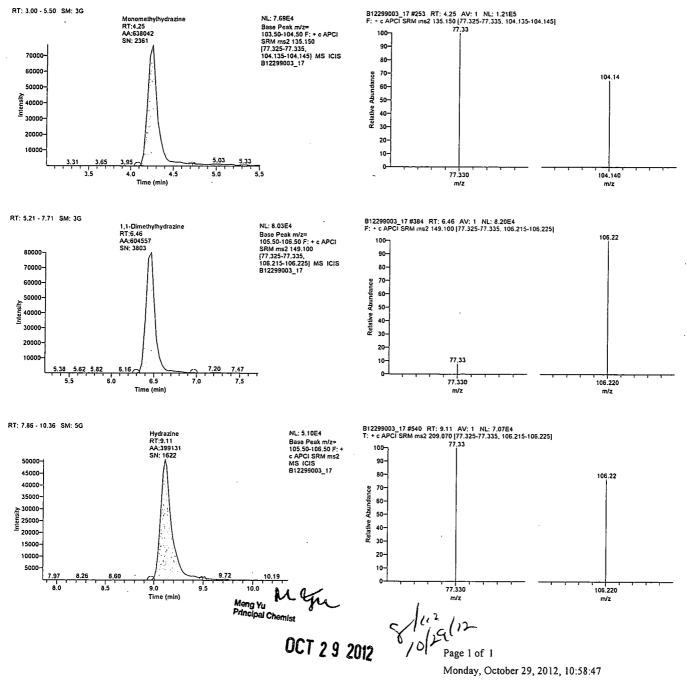
B12299003_16 #543 RT: 9.16 AV: 1 NL: 7.20E4 T: + c APCI SRM ms2 209.070 [77.325-77.335, 106,215-106,225] 100-77,33 NL: 4.94E4 Hydrazine RT:9.16 AA:407610 SN: 1765 Base Peak m/z= 105.50-106.50 F: + c APCI SRM ms2 MS 1CIS B12299003_16 100-90-45000 80-40000 106.22 70-Abundance 35000 60-30000-25000-20000-50-Relative 40-30 15000 20 10000 5000-10-8.28 0 8.5 9.0 Time (min) 9,5 8.0 10,0 77.330 106,220 My m/z m/z Meng Yu Principal Chemist 6/29/12 P Page 1 of 1 OCT 2 2 2012 Monday, October 29, 2012, 10:58:46

> rsr fici 2 CC 52



Sample Name:	MSD (6834875)		
Data File:	B12299003 17	Acquisition Date:	10/27/12 07:06:09 PM
Sample Type:	Unknown	Sample ID:	MSD (6834875)
Run Time(min):	11.49	Vial:	a:15
Injection Volume(µl):	5.00	Instrument Software Version:	2.3.0.1206 SP1
Dilution Factor:	1.00	Instrument Name:	TSQ
Instrument Model:	TSQ Quantum Access	Instrument Serial Number:	TQU01408
Instrument Method:	C:\XCalibur\Hydrazine	Original Data Path:	C:\XCalibur\Hydrazine
	Analysis\Hydraz_TB		Analysis\2012\Quart4
Operator:	Quantum		
Operator:	<i>, ,</i> =		

Quan Peak Table								
Component Name	Calculated Amount	Units	Response Ratio	RT				
Monomethylhydrazine	65.376	ug/L	638042.162	4.25				
1,1-Dimethylhydrazine	55.307	ug/L	604556.610	6.46				
Hydrazine	12.356	ug/L	399130.959	9.11				

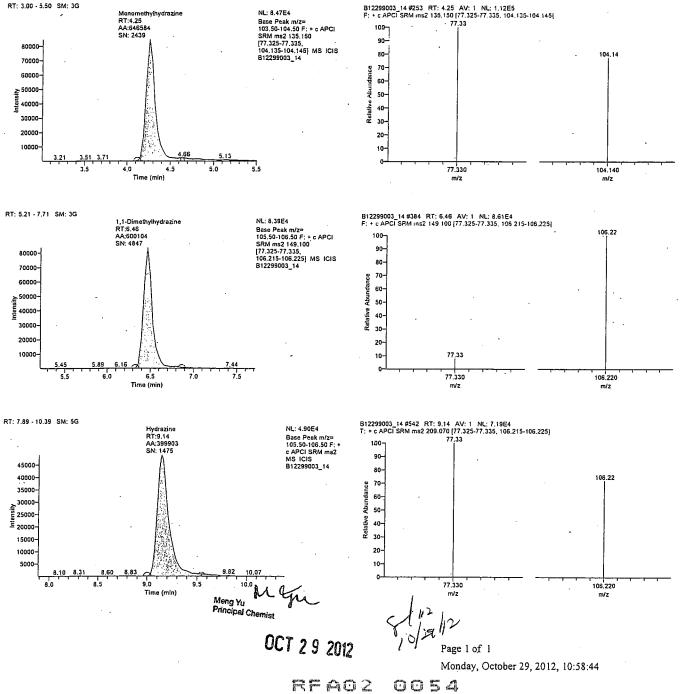


RFA02 0053



Sample Name:	ICV/LCS		
Data File:	B12299003_14	Acquisition Date:	10/27/12 06:14:38 PM
Sample Type:	Unknown	Sample ID:	ICV/LCS
Run Time(min):	11.49	Vial:	a:12
Injection Volume(µl):	5.00	Instrument Software Version:	2.3.0.1206 SP1
Dilution Factor:	1.00	Instrument Name:	TSQ
Instrument Model:	TSQ Quantum Access	Instrument Serial Number:	TQU01408
Instrument Method:	C:\XCalibur\Hydrazine Analysis\Hydraz TB	Original Data Path:	C:\XCalibur\Hydrazine Analysis\2012\Quart4
Operator:	Quantum		mary sis 2012 (Quarty

Quan Peak Table								
Component Name	Calculated Amount	Units	Response Ratio	RT				
Monomethylhydrazine	66.247	ug/L	646584.180	4.25				
1,1-Dimethylhydrazine	54.901	ug/L	600104.371	6.46				
Hydrazine	12.379	ug/L	399903.454	9.14				





Sample Type:UnknowRun Time(min):11.49Injection Volume(µl):5.00Dilution Factor:1.00Instrument Model:TSQ (C:\XCC)Instrument Method:C:\XCC)	Quantum Access alibur\Hydrazine sis\Hydraz_TB	Acquisition Date: Sample ID: Vial: Instrument Software Ve Instrument Name: Instrument Serial Numb Original Data Path:	TSQ	drazine
Component Name	Oua Calculated Amount	n Peak Table Units	Response Ratio	RT
Monomethylhydrazine 1,1-Dimethylhydrazine Hydrazine	62.833 58.400 12.612	ug/L ug/L ug/L	613094.161 638468.558 407454.213	\$ 4.29
RT: 3.04 - 5.54 SM: 3G Monomethylhydrazine RT: 4.29 AA:613094 SN: 1867 70000- 50000- 50000- 20000- 10000- 3.51 3.58 3.78 4.05- Time (min)	NL: 7.73E4 Base Peak m/z= 103.50-104.50 F: SRM ms2 135.15 (77.325-77.335, 104.135-104.145) B12299003_15	F: + c APCI SRM ms2 13 + c APCI 100 0 90_	4.29 AV: 1 NL: 1.11E5 5.150[77.325-77.335. 104.135-104.145] 77.33	104.14 104.140 rr/z
RT: 5.25 - 7.75 SM: 3G 1,1-Dimethylhydrazine RT: 5.0 AA:G3A459 SN: 5794 40000- 30000- 50000- 5,38 5.59 5.96 6,19 5,5 6,0 6,5 Time (min)	NL: 8.91E4 Base Peak m/z= 105.50-106.50 F: SRM m22.149.100 (77.325-77.335) 106.215-106.225] B12299003_15	+ c APCI 100- 0 90-	6.50 AV: 1 NL: 9.14E4 .100 [77.325-77 335, 106.215-106.225] 77.33 77.330 m/z	105.22
RT: 7.98 - 10,48 SM: 5G Hydrazine RT: 9.23 AA:407454 SN: 1596 45000- 35000- 35000- 15000- 15000- 5000- 8.0 8.5 8.0 8.5 9.0	105,50-	eak m/z= 106,50 F: + 100 SRM ms2 90 S 90	9.23 AV: 1 NL: 7.61E4 .070 [77.325-77.335, 106.215-106.225] 77.33	106.22
8.0 8.5 9.0 Time (min)	Meng Yu Principal Chemist	ín. 8/1/2	m/z	106/220 m/2
,	OCT	2 9 2012	Page 1 of 1 Monday, October 29, 2012, 10	0:58:45

OCT 2 9 2012 RFAG 2

0055

# **Preparation Logs**

# Organic Extraction Batchlog Assigned to: 2628 Meng Yu

Reviewed by: Still	Start Date:	10/25/12	Start time:	1035
Tech 1: _ My 262	Tech 2:			

1229900	3
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1) () ()

C) C) U1

Dept: 37	Prep Analysis:	00000				·	Hydra	azines ir	Water			Solvent Used	Lot No.
QC	Sample Code	Amt (M)L	SS/IS Sol	Amt (mL)	MS Sol.	Amt (mL)	1111	рН	рH	вс	Comments	198 Benzald 0,2M PHS but	157498-4B
6834875MSD	MRFA1MSMS	1.0	NA	NA	157493-3F	0.01	1.5			145a		1 Jam pas bur	10 1110-10
6834875MS	MRFA1MS	1.0	1	1	6	0,01				1450			
BLANKA	BLK299003	1.0			NA	NA		-		NIT			
LCSA	OPR299003	1.0			157413-3F			•	[	Nt			
LCSDA	1	1.0	₩.	4	1	0.01		ł	1	NA	· ····		

	Sample #	Sample Code	Amt (n).	SS/IS Sol.		FV (mL) pH	рH	вс	Comments	Analyses	Due Date	Prio
	1 6834875	MRFA1	1.0	NA	NA	1.5		145a		10342	11/05/2012	2 N
	2 6834876	MRFA2	1.0			115		1452		10342	11/05/2012	2 N
쾼	3 6834877	MRFAD	1.0	₹ ₹	4	1.5		1452		10342	11/05/2012	2 N

Rack ID:	Work Station	S-bath ID	С	S-bath ID	С	N-Evap	С	M-vap	С	12299003
Internal Standard	Balance #	Documented	Documented temps are NIST corrected.							

DF = Dilution Factor FV = Final Volume

Appendix B

Data Validation Report

# **Data Validation Services**

120 Cobble Creek Road P.O. Box 208 North Creek, NY 12853

> Phone 518-251-4429 Facsimile 518-251-4428

January 2, 2013

Brian Neumann Shaw Environmental 13 British American Blvd. Latham, NY 12110

RE: Validation of GE MRFA Malta Site Data Packages CAS Sub Nos. R1207266 and R1207283

Dear Mr. Neumann:

Review has been completed for the data package generated by Columbia Analytical Services (CAS) that pertains to groundwater samples collected 10/23/12 at the GE Malta Site. Nineteen samples, two field duplicates, cooler blanks, and trip blanks were processed for site-specific low level volatiles and ethane. Three of those samples and one field duplicate were also analyzed for total and hexavalent chromium. Methodologies utilized include those of the USEPA OLC02.1, EPA CLP ILM, RSK 175, and USEPA SW846 method 7196.

Data validation was performed with guidance from the USEPA CLP National Functional Guidelines for Organic and Inorganic Data Review and the USEPA Region 2 SOPs HW-2 and HW-6, with consideration for the specific methodologies. The following items were reviewed:

- * Data Completeness
- * Custody Documentation
- * Holding Times
- * Surrogate and Internal Standard Recoveries
- * Matrix Spike Recoveries/Duplicate Correlations
- * Field Duplicate Correlations
- * Preparation/Calibration Blanks
- * Control Spike/Laboratory Control Samples
- * Instrumental Tunes
- Calibration/Low Level Standards
- Instrument IDLs
- * ICP Serial Dilutions
- * Method Compliance
- * Sample Result Verification

The items showing deficiencies are discussed in the following sections of this report. All others were found to be acceptable as outlined in the above-mentioned validation procedures, and as applicable for the methodology. Unless noted specifically in the following text, reported results are substantiated by the raw data, and generated in compliance with protocol requirements.

**In summary**, sample processing was conducted primarily with compliance to protocol requirements and with adherence to quality criteria. Sample results are usable either as reported, or with minor qualification, including edit to non-detection. This is discussed in the following analytical sections.

Copies of laboratory identification summaries and the laboratory case narratives are attached to this text, and should be reviewed in conjunction with this report. Laboratory sample results forms are also submitted, reflecting the qualifiers in red ink.

# Low Level Volatile Analyses

Detected results for acetone in the project samples are considered external contamination, as indicated by presence in the associated trip blanks. Those detections have been edited to reflect non-detection. Detected results for methylene chloride in samples reported in R2107266 are similarly edited to non-detection due to presence in the associated trip blank.

Results for analytes initially reported with the "E" flag have been derived from the dilution analyses of those samples.

Matrix spikes of M-27D and M-28S show recoveries and duplicate correlations within the laboratory acceptance ranges and validation guidelines for the twelve analytes evaluated.

Volatile blind field duplicate correlations for M-27D are well within validation guidelines. The blind duplicate evaluation for M-28S shows outlying correlations for carbon tetrachloride and trichloroethene (both  $\geq$ ±CRDL). Results for those two compounds in that parent sample and its duplicate DUPB have been qualified as estimated in value.

1,2-Dibromo-3-chloropropane, acetone and 2-butanone exhibit low relative response factors (RRFs) (inherent with the methodology) in all of the project calibration standards. The usability of those data is evidenced by spike recoveries, instrument sensitivity, and calibration standard responses, but the reporting limits and detected values for those compounds in the samples and trip/cooler blanks should be considered estimated ("UJ" or "J" qualifiers), possibly biased low.

The other calibration standard responses are acceptable, with the following exceptions, results for which are qualified as estimated in the indicated samples:

- 1,2-dibromo-3-chloropropane and bromoform (28%D and 32%D) in the samples reported in SDG R2107283 and the cooler blank reported in SDG R2107266
- carbon disulfide and bromoform (28%D and 32%D) in the samples and trip blank reported in SDG R2107266

Holding times were met, and surrogate and internal standard responses are within required limits.

M-25D was analyzed at initial dilution due to target analyte concentrations. This resulted in elevated reporting limits for analytes not detected in those samples.

# **Ethane Analyses**

Instrument performance was compliant, holding times were met, and blanks show no contamination.

Matrix spikes and duplicates of M-27D and M-28S show recoveries and correlations within laboratory acceptance ranges.

The blind field duplicate evaluation of M-28S shows an acceptable correlation.

# **Total Chromium Analyses**

-The matrix spike/lab duplicate accuracy and precision determinations were performed on M-27D, and show recovery and duplicate correlation within recommended limits.

The field duplicate evaluation for M-27D also produced a good correlation.

The serial dilution evaluations of M-27D and 13D are not applicable due to low sample concentrations.

Instrument performance was acceptable. Reported results are substantiated by the raw data, and generated in compliance with required protocols. Quality control parameter results meet validation requirements.

# Hexavalent Chromium Analyses

Review was conducted for method compliance, holding times, transcription, calculations, standard and blank acceptability, accuracy and precision, etc., as applicable to the procedure. All were found to be acceptable unless noted below.

Matrix spike/laboratory duplicate accuracy and precision determinations were performed on M27D, and show recoveries and duplicate correlation within laboratory acceptance ranges.

The field duplicate correlation for M-27D was within validation guidelines.

Reported results are substantiated by the raw data, and generated in compliance with required protocols. Holding times were met, and blanks show no contamination.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,

Judy Harry

# VALIDATION DATA QUALIFIER DEFINITIONS

- **U** The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
- J The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
- **UJ** The analyte was not detected. The associated reported quantitation limit is an estimate and may be inaccurate or imprecise.
- NJ The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
- **R** The data are unusable. The analyte may or may not be present.
- **EMPC** The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

# CLIENT and LABORATORY SAMPLE IDs and CASE NARRATIVES

# UAS ASPILLP Batching Form/Login Sheet

Client: Shaw Environmental & Infrastructu Client Rep: JJAEGER	Batch Complete: Yes Diskette Requested: No Date: 11/6/12 Custody Seal: Present/Absent: Chain of Custody: Present/Absent:	Date Revised: Date Due: 11/14/12 Protocol: EPA Shipping No.:
Project: GE MRFA	Chain of Custody: Present/Absent:	SDG #: M-25D

CAS Job #	Client/EPA ID	Matrix	Requested Parameters	Date Sampled	Date Received	pH (Solids)	% Solids	Remarks Sample Condition
R1207266-001	M-25D	Water	RSK 175, CLP-VOA OLC02.1	10/23/12	10/24/12		001103	bample condition
R1207266-002	M-29D	Water	RSK 175, CLP-VOA OLC02.1	10/23/12	10/24/12			
R1207266-002.R01		Water	CLP-VOA OLC02.1	10/23/12	10/24/12			
R1207266-003	M-24DR	Water	RSK 175, CLP-VOA OLC02.1	10/23/12	10/24/12			
R1207266-004	11D	Water	RSK 175, CLP-VOA OLC02.1	10/23/12	10/24/12			
R1207266-005	M-1	Water	RSK 175, CLP-VOA OLC02.1	10/23/12	10/24/12			
R1207266-006	MW-4	Water	RSK 175, CLP-VOA OLC02.1	10/23/12	10/24/12			
R1207266-007	105	Water	RSK 175, CLP-VOA OLC02.1	10/23/12	10/24/12			
R1207266-008QC	M-28S	Water	RSK 175, CLP-VOA OLC02.1	10/23/12				
R1207266-009	13S	Water	RSK 175, CLP-VOA OLC02.1	10/23/12	10/24/12			······································
R1207266-010	13D	Water	7196A, RSK 175, CLP-VOA		10/24/12			
			OLC02.1, 6010C	10/23/12	10/24/12			
R1207266-011	DUPB	Water	RSK 175, CLP-VOA OLC02.1	10/00/40	1010 4140			•
R1207266-012	TRIP BLANK	Water	CLP-VOA OLC02.1	10/23/12	10/24/12			
R1207266-013	COOLER BLANK	Water		10/23/12	10/24/12			
		valet	CLP-VOA OLC02.1	10/23/12	10/24/12			

Folder Comments: need extra 3 compounds, e-mail invoices to Karen and Steve

# CAS ASFICEF Datching Form/Login Sheet

Client: Shaw Environmental & Infrastructu Date: 11/6/12	-
---------------------------------------------------------	---

CAS Job #	Client/EPA ID	Matrix	Requested Parameters	Date Sampled	Date Received	pH (Solido)	%	Remarks
R1207283-001	DGC-4S	Water	RSK 175, CLP-VOA OLC02.1	10/24/12		(Solids)	Solids	Sample Condition
R1207283-002	SW-A	Water	RSK 175, CLP-VOA OLC02.1		10/25/12			
R1207283-003	DGC-3S	Water	RSK 175, CLP-VOA OLC02.1	10/24/12	10/25/12			
R1207283-004	SW-G	Water	RSK 175, CLP-VOA OLC02.1	10/24/12	10/25/12	-		
R1207283-005	SW-F	Water	PSK 175, CLP-VOA OLCOZ.1	10/24/12	10/25/12			
R1207283-006	SW-E	Water	RSK 175, CLP-VOA OLC02.1	10/24/12	10/25/12			
R1207283-007	SW-D	Water	RSK 175, CLP-VOA OLC02.1	10/24/12	10/25/12			
R1207283-008QC			RSK 175, CLP-VOA OLC02.1	10/24/12	10/25/12			
	W-270	Water	7196A, RSK 175, CLP-VOA	10/24/12	10/25/12			
R1207283-009	SW-B		OLC02.1, 6010C					
11201203-009	3VV-D	Water	7196A, RSK 175, CLP-VOA	10/24/12	10/25/12			
R1207283-010	DUDA		OLC02.1, 6010C					
R1207283-010	DUP A	Water	7196A, RSK 175, CLP-VOA	10/24/12	10/25/12			
<b>D</b> 4007000 044			OLC02.1, 6010C					
R1207283-011	TRIP BLANK	Water	RSK 175, CLP-VOA OLC02.1	10/24/12	10/25/12			·····
R1207283-012	COOLER BLANK	Water	CLP-VOA OLC02.1	10/24/12	10/25/12			

Folder Comments: need extra 3 compounds, e-mail invoices to Karen and Steve

# CASE NARRATIVE

Client:Shaw EnvironmentalProject:GE MRFASample Matrix:Water

Service Request: Project Number: Date Received:

R1207266 145599.01 10/24/12

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier IV deliverables. When appropriate to the method, method blank and LCS results have been reported with each analytical test.

### Sample Receipt

Samples were collected on 10/23/12 and received at CAS on 10/24/12 at a cooler temperature of 4.5 C in good condition except as noted on the cooler receipt and preservation check form. The samples were stored in a refrigerator at 1 - 6 °C upon receipt at the laboratory.

# Inorganic Analysis

Samples were analyzed for a site specific list of inorganics. Please see attached data pages for method numbers.

Site specific QC was not requested on these samples.

The Method Blanks associated with these analyses were free of contamination.

No other analytical or QC problems were encountered.

### Metals Analysis

Samples were analyzed for a site specific list of Metals by Methods 6010C.

Site specific QC was not requested on these samples.

All LCS recoveries were within limits.

The Method Blanks associated with these analyses were free of contamination.

No other analytical or QC problems were encountered.

## Service Request #R1207266 Page 2

# **Volatile Organics**

Samples were analyzed for a site specific list of Volatile Organics by CLP Method OLC 2.1.

All Tuning criteria for BFB were within QC limits.

All the initial calibration criteria were met for all analytes. Al Continuing Calibration Verification (CCV) standards were within 30% Difference (D) except Bromoform on the 10/31/12 CCV. All positive detections for samples associated with this CCV should be considered as estimated.

All Internal Standard Areas and surrogate standard recoveries were within QC limits.

The LCS recoveries were all acceptable.

Site specific QC was performed on M-28S as requested. All MS/MSD recoveries and RPD's were acceptable.

Various compounds for M-29D have been flagged with an "E" as being outside the calibration range of the instrument. The sample was repeated at a dilution and both sets of data have been reported out.

The Method Blanks associated with these samples were free of contamination except the 10/30/12 blank had a low level detection for 1,2,3-Trichlorobenzene and the 10/31/12 blank had low level detections for 1,2,3-Trichlorobenzene and Hexachlorobutadiene. No data was affected.

No other analytical or QC problems were encountered.

## <u>R\$K-175</u>

Samples were analyzed for Ethane by Method RSK-175M.

All the initial and continuing calibration criteria were met for all analytes.

The LCS recoveries were all acceptable.

Site specific QC was requested on M-28S as requested. All MS/MSD recoveries and RPD's were acceptable.

The Method Blanks associated with these samples were free of contamination,

No other analytical or QC problems were encountered.

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 details conditioned above. Release of the data contained in this data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

# CASE NARRATIVE

Client:Shaw EnvironmentalProject:GE MRFASample Matrix:Water

Service Request: Project Number: Date Received: R1207283 145599.01 10/25/12

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier IV deliverables. When appropriate to the method, method blank and LCS results have been reported with each analytical test.

### Sample Receipt

Samples were collected on 10/24/12 and received at CAS on 10/25/12 at a cooler temperature of 3.2 C in good condition except as noted on the cooler receipt and preservation check form. The samples were stored in a refrigerator at 1 - 6 °C upon receipt at the laboratory.

### Inorganic Analysis

Samples were analyzed for a site specific list of inorganics. Please see attached data pages for method numbers.

Site specific QC was performed on M-27D as requested. All MS recoveries and RPD's were acceptable.

The Method Blanks associated with these analyses were free of contamination.

No other analytical or QC problems were encountered.

## Metals Analysis

Samples were analyzed for a site specific list of Metals by Methods 6010C.

Site specific QC was performed on M-27D as requested. All MS recoveries and RPD's were acceptable.

All LCS recoveries were within limits.

The Method Blanks associated with these analyses were free of contamination.

No other analytical or QC problems were encountered.

## Service Request #R1207283 Page 2

## Volatile Organics

Samples were analyzed for a site specific list of Volatile Organics by CLP Method OLC 2.1.

All Tuning criteria for BFB were within QC limits.

All the initial calibration criteria were met for all analytes. Al Continuing Calibration Verification (CCV) standards were within 30% Difference (D) except Bromoform on the 10/31/12 CCV. All positive detections for samples associated with this CCV should be considered as estimated.

All Internal Standard Areas and surrogate standard recoveries were within QC limits.

The LCS recoveries were all acceptable.

Site specific QC was performed on M-27D as requested. All MS/MSD recoveries and RPD's were acceptable.

The Method Blanks associated with these samples were free of contamination except the 10/31/12 blank had low level detections for 1,2,3-Trichlorobenzene and Hexachlorobutadiene. No data was affected.

No other analytical or QC problems were encountered.

## <u>RSK-175</u>

Samples were analyzed for Ethane by Method RSK-175M.

All the initial and continuing calibration criteria were met for all analytes.

The LCS recoveries were all acceptable.

Site specific QC was requested on M-27D as requested. All MS/MSD recoveries and RPD's were acceptable.

The Method Blanks associated with these samples were free of contamination.

No other analytical or QC problems were encountered.

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 details conditioned above. Release of the data contained in this data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

# **QUALIFIED SAMPLE RESULTS FORMS**

Client: Project: Sample Matrix:	Shaw Environmental & Infrastructure, Inc. GE MRFA/145599.01 Water	Service Request: Date Collected: Date Received: Date Analyzed:	10/23/12 0930 10/24/12
Sample Name:	M-25D	Units:	, .
Lab Code:	R1207266-001	Basis:	

# Low Level Water Volatile Organic Compounds by GC/MS

<b>Analytical Method:</b>	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103012\Z4054.D\

Analysis Lot: 316079 Instrument Name: R-MS-06

RL         MDL           0         0.50           0         0.50           0         0.55           0         0.50           0         0.50	Note
0 0.50 0 0.55 0 0.50	
0 0.55 0 0.50	
0 0.50	
0 0.50	
0 0.55	
0 0.60	
0 0.75	
0 0.50	
0 0.50	
0 0.50	
5 5.1	
5 11	
5 4.8	
5 5.4	
0 0.50	
0 0.50	
0 0.75	
0 1.2	
0.71	
0 0.50	100,000
0.50	
0.50	
0 0.50	
0.60	
0.50	
	$\begin{array}{c} 0 & 0.50 \\ 0 & 0.55 \\ 0 & 0.60 \\ 0 & 1.2 \\ 0 & 0.75 \\ 0 & 0.50 \\ 0 & 0.50 \\ 0 & 0.50 \\ 0 & 0.50 \\ 0 & 0.50 \\ 0 & 0.50 \\ 0 & 0.75 \\ 0 & 0.75 \\ 0 & 0.75 \\ 0 & 0.75 \\ 0 & 0.75 \\ 0 & 0.75 \\ 0 & 0.50 \\ 0 & 0.50 \\ 0 & 0.50 \\ 0 & 0.50 \\ 0 & 0.50 \\ 0 & 0.50 \\ 0 & 0.50 \\ 0 & 0.50 \\ 0 & 0.60 \\ \end{array}$

cis-1,3-Dichloropropene

Dibromochloromethane

Hexachlorobutadiene

Ethylbenzene

m,p-Xylenes

10061-01-5

124-48-1

100-41-4

87-68-3

179601-23-1

5.0 U

5.0 U

5.0 U

5.0 U

5.0 U

5.0

5.0

5.0

5.0

5.0

0.60

0.50

0.50

0.50

0.60

12-0000228737 rev 00 SuperSet Reference:

00008

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207266	
Project:	GE MRFA/145599.01	Date Collected: 10/23/12 0930	
Sample Matrix:	Water	<b>Date Received:</b> 10/24/12	
		Date Analyzed: 10/30/12 16:00	
Sample Name:	M-25D	Units: µg/L	
Lab Code:	R1207266-001	Basis: NA	

# Low Level Water Volatile Organic Compounds by GC/MS

<b>Analytical Method:</b>	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103012\Z4054.D\

Analysis Lot: 316079 Instrument Name: R-MS-06

**Dilution Factor: 5** 

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
75-09-2	Dichloromethane (Methylene Chloride)	10.70 J 5.0U	5.0	0.50	
95-47-6	o-Xylene	5.0 U	5.0	0.50	
100-42-5	Styrene	5.0 U	5.0	0.50	
27-18-4	Tetrachloroethene (PCE)	5.0 U	5.0	0.50	in the second second second second second second second second second second second second second second second
08-88-3	Toluene	5.0 U	5.0	0.50	
56-60-5	trans-1,2-Dichloroethene	5.0 U	5.0	0.50	
0061-02-6	trans-1,3-Dichloropropene	5.0 U	5.0	0.50	
79-01-6	Trichloroethene (TCE)	67	5.0	0.50	
75-69-4	Trichlorofluoromethane (CFC 11)	5.0 U	5.0	0.50	
5-01-4	Vinyl Chloride	5.0 U	5.0	0.50	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	80-120	10/30/12 16:00	

### COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

Service Request: R1207266 Date Collected: 10/23/12 Date Received: 10/24/12 Date Analyzed: 10/30/12 1600

# Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

Sample Name: Lab Code:	M-25D R1207266-001		U	·	v	Units: μg/L Basis: NA
Analytical Method	I: CLP-VOA OLC02.1					
CAS # An	nalyte Name	RT	Result Q			

No Tentatively Identified Compounds Detected.

**Comments:** 

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207266
Project:	GE MRFA/145599.01	Date Collected: 10/23/12 1010
Sample Matrix:	Water	<b>Date Received:</b> 10/24/12
		Date Analyzed: 10/30/12 13:22
Sample Name: Lab Code:	M-29D R1207266-002	Units: µg/L Basis: NA

# Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: Data File Name:	CLP-VOA OLC02.1Analysis Lot: 316079I:\ACQUDATA\MSVOA6\DATA\103012\Z4049.D\Instrument Name: R-MS-06Dilution Factor: 1				
CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	4.6	1.0	0.10	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.10	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.11	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.10	
75-35-4	1,1-Dichloroethene (1,1-DCE)	0.31 J	1.0	0.10	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.12	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U U J	1.0	0.24	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.15	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.10	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.10	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.10	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.10	
78-93-3	2-Butanone (MEK)	5.0 UUJ	5.0	1.1	
591-78-6	2-Hexanone	5.0 U	5.0	2.1	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.95	
67-64-1	Acetone	5.0 U UJ	5.0	1.1	
71-43-2	Benzene	1.0 U	1.0	0.10	
74-97-5	Bromochloromethane	1.0 U	1.0	0.15	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 UUJ	1.0	0.15	
74-83 <b>-</b> 9	Bromomethane	1.0 U	1.0	0.23	
75-15-0	Carbon Disulfide	1.0 UUJ	1.0	0.14	
56-23-5	Carbon Tetrachloride	24	1.0	0.10	
108-90-7	Chlorobenzene	1.0 U	1.0	0.10	
75-00-3	Chloroethane	1.0 U	1.0	0.10	
67-66-3	Chloroform	0.96 J	1.0	0.10	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
56-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.12	
24-48-1	Dibromochloromethane	1.0 U	1.0	0.10	
00-41-4	Ethylbenzene	1.0 U	1.0	0.10	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	
70/01 00 1	37.1				

m,p-Xylenes

179601-23-1

1.0 U

1.0

0.12

Client: Project: Sample Matrix:	Shaw Environmental & Infrastructure, Inc. GE MRFA/145599.01 Water	Service Request: Date Collected: Date Received: Date Analyzed:	10/23/12 1010 10/24/12
Sample Name:	M-29D	Units:	
Lab Code:	R1207266-002	Basis:	

# Low Level Water Volatile Organic Compounds by GC/MS

<b>Analytical Method:</b>	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103012\Z4049.D\

Analysis Lot: 316079 Instrument Name: R-MS-06 Dilution Factor: 1

	Analyte Name	Result Q	MRL	MDL	Note
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.10	
95-47-6	o-Xylene	1.0 U	1.0	0.10	
100-42-5	Styrene	1.0 U	1.0	0.10	
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10	
108-88-3	Toluene	1.0 U	1.0	0.10	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.10	
79-01-6	Trichloroethene (TCE)	25-E-2	3 1.0	0.10	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.10	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.10	

Surrogate Name	%Rec	Control Limits	Date Analyzed Q	
4-Bromofluorobenzene	95	80-120	10/30/12 13:22	_

### COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

 Service Request:
 R1207266

 Date Collected:
 10/23/12

 Date Received:
 10/24/12

 Date Analyzed:
 10/30/12 1322

# Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

Sample Name: Lab Code:	M-29D R1207266-002			Units: µg/L Basis: NA
Analytical Met	nod: CLP-VOA OLC02.1			
CAS #	Analyte Name	RT	Result Q	

No Tentatively Identified Compounds Detected.

**Comments:** 

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207266
Project:	GE MRFA/145599.01	Date Collected: 10/23/12 1040
Sample Matrix:	Water	Date Received: 10/24/12
		Date Analyzed: 10/30/12 13:53
Sample Name:	M-24DR	Units: µg/L
Lab Code:	R1207266-003	Basis: NA

# Low Level Water Volatile Organic Compounds by GC/MS

<b>Analytical Method:</b>	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103012\Z4050.D\

Analysis Lot:	316079
Instrument Name:	R-MS-06

Dilution Factor: 1

71-55-6       1,1,1-Trichloroethane (TCA)       1.0       U       1.0       0.10         79-34-5       1,1,2.2-Tetrachloroethane       1.0       U       1.0       0.10         79-00-5       1,1,2-Trichloroethane       1.0       U       1.0       0.11         75-34-3       1,1-Dichloroethane (1,1-DCA)       1.0       U       1.0       0.10         75-34-3       1,1-Dichloroethane (1,1-DCE)       1.0       U       1.0       0.11         120-82-1       1,2,4-Trichlorobenzene       1.0       U       1.0       0.12         96-12-8       1,2-Dichloroethane       1.0       U       1.0       0.15         107-06-2       1,2-Dichloroethane       1.0       U       1.0       0.10         95-50-1       1,2-Dichloroethane       1.0       U       1.0       0.10         95-75       1,2-Dichlorophenzene       1.0       U       1.0       0.10         94-6-7       1,4-Dichlorobenzene       1.0       U       1.0       0.10         95-75       1,2-Dichlorobenzene       1.0       U       1.0       0.10         91-78-6       2-Hexanone       5.0       U       5.0       1.1         91-78-6	CAS No.	Analyte Name	Result Q	MRL	MDL	Note
79-00-5       1,1/2-Trichloroethane       1.0       U       1.0       0.11         75-35-4       1,1-Dichloroethane (1,1-DCA)       1.0       U       1.0       0.10         75-35-4       1,2-Dichloroethane (1,1-DCE)       1.0       U       1.0       0.11         120-82-1       1,2,4-Trichlorobenzene       1.0       U       1.0       0.12         96-12-8       1,2-Dichloroethane       1.0       U       1.0       0.15         107-06-2       1,2-Dichloroethane       1.0       U       1.0       0.10         95-50-1       1,2-Dichloroethane       1.0       U       1.0       0.10         95-87-5       1,2-Dichlorobenzene       1.0       U       1.0       0.10         95-75-1       1,2-Dichlorobenzene       1.0       U       1.0       0.10         78-87-5       1,2-Dichlorobenzene       1.0       U       1.0       0.10         78-93-3       2-Butanone (MEK)       5.0       U       5.0       0.11         71-43-2       Benzene       1.0       U       1.0       0.10         75-27-4       Bromochloromethane       1.0       U       1.0       0.15         75-27-4       Bromochlo	71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.10	
75-34-3       1,1-Dichloroethane (1,1-DCA)       1.0       U       1.0       0.10         75-35-4       1,1-Dichloroethane (1,1-DCE)       1.0       U       1.0       0.10         87-61-6       1,2,3-Trichlorobenzene       1.0       U       1.0       0.11         120-82-1       1,2,4-Trichlorobenzene       1.0       U       1.0       0.12         96-12-8       1,2-Dibromo-t-chloropropane (DBCP)       1.0       U.U.J       1.0       0.24         106-93-4       1,2-Dibromo-thane       1.0       U       1.0       0.10         95-50-1       1,2-Dichloroothane       1.0       U       1.0       0.10         95-50-1       1,2-Dichlorobenzene       1.0       U       1.0       0.10         78-87-5       1,2-Dichlorobenzene       1.0       U       1.0       0.10         106-46-7       1,4-Dichlorobenzene       1.0       U       0.0       0.10         78-33       2-Butanone (MEK)       5.0       U       5.0       1.1         591-78-6       2-Hexanone       5.0       U       5.0       1.1         71-43-2       Benzene       1.0       U       1.0       0.10         75-27-4 <td< td=""><td>79-34-5</td><td>1,1,2,2-Tetrachloroethane</td><td>1.0 U</td><td>1.0</td><td>0.10</td><td></td></td<>	79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.10	
75-35-4       1,1-Dichloroethene (1,1-DCE)       1.0       U       1.0       0.10         87-61-6       1,2,3-Trichlorobenzene       1.0       U       1.0       0.11         120-82-1       1,2,4-Trichlorobenzene       1.0       U       1.0       0.12         96-12-8       1,2-Dibromo-schloropropane (DBCP)       1.0       U.U       1.0       0.24         106-93-4       1,2-Dibromoethane       1.0       U       1.0       0.10         95-50-1       1,2-Dichloroothane       1.0       U       1.0       0.10         95-50-1       1,2-Dichloroothane       1.0       U       1.0       0.10         78-87-5       1,2-Dichlorobenzene       1.0       U       1.0       0.10         95-50-1       1,4-Dichlorobenzene       1.0       U       1.0       0.10         106-46-7       1,4-Dichlorobenzene       1.0       U       1.0       0.10         108-10-1       4-Methyl-2-pentanone       5.0       U       5.0       1.1         108-10-1       4-Methyl-2-pentanone       5.0       U       5.0       1.1         171-43-2       Berazne       1.0       U       1.0       0.10         75-25-2	79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.11	
87-61-6       1,2,3-Trichlorobenzene       1.0       U       1.0       0,11         120-82-1       1,2,4-Trichlorobenzene       1.0       U       1.0       0,12         96-12-8       1,2-Dibromo-3-chloropropane (DBCP)       1.0       U       U       0.0         106-93-4       1,2-Dibromoethane       1.0       U       1.0       0.15         107-06-2       1,2-Dichlorobenzene       1.0       U       1.0       0.10         95-50-1       1,2-Dichlorobenzene       1.0       U       1.0       0.10         78-87-5       1,2-Dichlorobenzene       1.0       U       1.0       0.10         64-67       1,4-Dichlorobenzene       1.0       U       1.0       0.10         78-93-3       2-Butanone (MEK)       5.0       U       5.0       1.1         108-10-1       4-Methyl-2-pentanone       5.0       U       5.0       1.1         108-10-1       4-Methyl-2-pentanone       5.0       U       5.0       1.1         71-43-2       Benzene       1.0       U       1.0       0.10         75-27-4       Bromodichloromethane       1.0       U       0.0       0.10         75-27-5       Carbon Tetr	75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.10	
120-82-1       1,2,4-Trichlorobenzene       1.0       U       1.0       0.12         96-12-8       1,2-Dibromo-3-chloropropane (DBCP)       1.0       U U       1.0       0.24         106-93-4       1,2-Dibromoethane       1.0       U       1.0       0.15         107-06-2       1,2-Dichlorobenzene       1.0       U       1.0       0.10         95-50-1       1,2-Dichlorobenzene       1.0       U       1.0       0.10         94-73-1       1,3-Dichlorobenzene       1.0       U       1.0       0.10         541-73-1       1,3-Dichlorobenzene       1.0       U       1.0       0.10         541-73-2       Brannone (MEK)       5.0       U       5.0       1.1         71-43-2	75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.10	
96-12-8       1,2-Dibromo-3-chloropropane (DBCP)       1.0       U U J       1.0       0.24         106-93-4       1,2-Dibromoethane       1.0       U       1.0       0.15         107-06-2       1,2-Dichlorobenzene       1.0       U       1.0       0.10         95-50-1       1,2-Dichlorobenzene       1.0       U       1.0       0.10         78-87-5       1,2-Dichlorobenzene       1.0       U       1.0       0.10         541-73-1       1,3-Dichlorobenzene       1.0       U       1.0       0.10         541-73-1       1,4-Dichlorobenzene       5.0       U/S       5.0       1.1         591-78-6       2-Hexanone       5.0       U/S       5.0       1.1         7143-2       Benzene       1.0       U       1.0       0.10         74-97-5       Bromochloromethane       1.0       U       1.0       0.15         75-27-4       Bromochloro	87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
106-93-41,2-Dibromoethane1.0U1.00.15107-06-21,2-Dichlorobenzene1.0U1.00.1095-50-11,2-Dichlorobenzene1.0U1.00.1078-87-51,2-Dichlorobenzene1.0U1.00.10541-73-11,3-Dichlorobenzene1.0U1.00.1078-87-51,4-Dichlorobenzene1.0U1.00.1078-93-32-Butanone (MEK)5.0UU5.02.1591-78-62-Hexanone5.0U5.00.9567-64-1Acetone4T T 50 U5.01.171-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1575-27-4Bromodchloromethane1.0U1.00.1575-25-2Bromodchloromethane1.0U1.00.1456-23-5Carbon Disulfide1.0U0.00.1075-00-3Chlorobenzene1.0U1.00.1075-03-3Chlorobenzene1.0U1.00.1075-63-4Chlorobenzene1.0U1.00.1075-03-5Carbon Tetrachloride1.0U1.00.1075-04-3Chlorobenzene1.0U1.00.1075-05-3Chlorobenzene1.0U1.00.1075-06-3Chlorobenzene1.0U1.00.10 <t< td=""><td>120-82-1</td><td>1,2,4-Trichlorobenzene</td><td>1.0 U</td><td>1.0</td><td>0.12</td><td>······································</td></t<>	120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.12	······································
107-06-2       1,2-Dichloroethane       1.0       U       1.0       0.10         95-50-1       1,2-Dichloroptopane       1.0       U       1.0       0.10         78-87-5       1,2-Dichloroptopane       1.0       U       1.0       0.10         541-73-1       1,3-Dichlorobenzene       1.0       U       1.0       0.10         541-73-1       1,3-Dichlorobenzene       1.0       U       1.0       0.10         78-93-3       2-Butanone (MEK)       5.0       U U J       0.10         78-93-3       2-Hexanone       5.0       U U J       0.0       0.10         78-6       2-Hexanone       5.0       U U J       0.0       0.10         76-41       Acctone       4-H T 50 U J       5.0       1.1         71-43-2       Benzene       1.0       U       1.0       0.10         75-27-4       Bromochloromethane       1.0       U       1.0       0.10         75-25-2       Bromomethane       1.0       U U J       0       0.12         75-15-0       Carbon Disulfide       1.0       U U J       0       0.10         108-90-7       Chlorobenzene       1.0       U       0.0       0	96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 UUJ	1.0	0.24	
95-50-11,2-Dichlorobenzene1.0U1.00.1078-87-51,2-Dichloropropane1.0U1.00.10541-73-11,3-Dichlorobenzene1.0U1.00.10106-46-71,4-Dichlorobenzene1.0U1.00.1078-93-32-Butanone (MEK)5.0U/CJ5.01.1591-78-62-Hexanone5.0U5.00.9567-64-1Acetone $41 + 7 + 57 / 4 \times 5.0$ 1.171-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1575-27-4Bromodichloromethane1.0U1.00.1574-83-9Bromomethane1.0U1.00.1456-23-5Carbon Disulfide1.0U1.00.1067-66-3Chlorobenzene1.0U1.00.1067-66-3Chloroftane1.0U1.00.1075-00-3Chloroftane1.0U1.00.1067-66-3Chloroftane1.0U1.00.1075-09-2cis-1,2-Dichloroethene1.0U1.00.10100-10-5cis-1,3-Dichloropenpene1.0U1.00.10100-11-5cis-1,3-Dichloropenpene1.0U1.00.10100-11-4Ethylbenzene1.0U1.00.10100-11-4Ethylbenzene1.0U1.00.1010	106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.15	
78-87-51,2-Dichloropropane1.0U1.00.10541-73-11,3-Dichlorobenzene1.0U1.00.10106-46-71,4-Dichlorobenzene1.0U1.00.1078-93-32-Butanone (MEK)5.0UU5.01.1591-78-62-Hexanone5.0U5.02.1108-10-14-Methyl-2-pentanone5.0U5.00.9567-64-1Acctone $4+T+5D$ 5.01.171-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1575-27-4Bromodichloromethane1.0U1.00.1575-25-2Bromomethane1.0U1.00.1456-23-5Carbon Disulfide1.0U1.00.1456-23-5Carbon Disulfide1.0U1.00.1075-03Chlorobenzene1.0U1.00.1074-87-3Chlorobenzene1.0U1.00.1074-87-3Chlorobenzene1.0U1.00.1074-87-3Chlorobenzene1.0U1.00.1074-87-3Chlorobenzene1.0U1.00.1010061-01-5cis-1,3-Dichloroptopene1.0U1.00.1010061-01-5cis-1,3-Dichloroptopene1.0U1.00.1010041-4Ethylbenzene1.0U1.00.10 <tr<< td=""><td>107-06-2</td><td>1,2-Dichloroethane</td><td>1.0 U</td><td>1.0</td><td>0.10</td><td></td></tr<<>	107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.10	
541-73-11,3-Dichlorobenzene1.0U1.00.10106-46-71,4-Dichlorobenzene1.0U1.00.1078-93-32-Butanone (MEK)5.0UU5.01.1591-78-62-Hexanone5.0U5.02.1108-10-14-Methyl-2-pentanone5.0U5.00.9567-64-1Acetone4.1 $5 \sqrt{2} \sqrt{5} \sqrt{5}$ 1.171-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1075-27-4Bromodichloromethane1.0U1.00.1575-27-4Bromodichloromethane1.0U1.00.1575-25-2Bromomethane1.0U1.00.1575-15-0Carbon Disulfide1.0U1.00.1456-23-5Carbon Disulfide1.0U1.00.1075-00-3Chlorobenzene1.0U1.00.1074-87-3Chloromethane1.0U1.00.1074-87-3Chloromethane1.0U1.00.1075-00-3Chloromethane1.0U1.00.1074-87-3Chloromethane1.0U1.00.101061-01-5cis-1,3-Dichloropopene1.0U1.00.101064-01-5cis-1,3-Dichloropopene1.0U1.00.10104-1-4Ethylbenzene1.0U1.00.10	95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.10	
106-46-71,4-Dichlorobenzene1.0U1.00.1078-93-32-Butanone (MEK)5.0UU5.01.1591-78-62-Hexanone5.0U5.00.9567-64-14-Methyl-2-pentanone5.0U5.00.9567-64-1Acetone41 + $f \leq 0$ U $\leq 5.0$ 1.171-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1075-27-4Bromodichloromethane1.0U1.00.1574-83-9Bromomethane1.0U1.00.2375-15-0Carbon Disulfide1.0U1.00.1456-23-5Carbon Tetrachloride1.0U1.00.10108-90-7Chlorobenzene1.0U1.00.1074-87-3Chloroform1.0U1.00.1074-87-3Chloroform1.0U1.00.10106-10-5cis-1,3-Dichloroppene1.0U1.00.1010061-01-5cis-1,3-Dichloroppene1.0U1.00.10100-11-4Ethylbenzene1.0U1.00.10100-11-4Ethylbenzene1.0U1.00.10	78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
106-46-71,4-Dichlorobenzene1.0U1.00.1078-93-32-Butanone (MEK)5.0UU5.01.1591-78-62-Hexanone5.0U5.02.1108-10-14-Methyl-2-pentanone5.0U5.00.9567-64-1Acetone41 + $5 \notin U \leq 5.0$ 1.171-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1575-27-4Bromodichloromethane1.0U1.00.1574-83-9Bromomethane1.0U1.00.1456-23-5Carbon Disulfide1.0U1.00.10108-90-7Chlorobenzene1.0U1.00.1075-66-3Chloroform1.0U1.00.1074-87-3Chloroform1.0U1.00.1074-87-3Chloroform1.0U1.00.1075-67-2cis-1,2-Dichloropene1.0U1.00.101061-01-5cis-1,3-Dichloroppene1.0U1.00.12126-84-3Hexahlorobutadiene1.0U1.00.10100-11-4Ethylbenzene1.0U1.00.10	541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.10	
591-78-62-Hexanone5.0U5.02.1108-10-14-Methyl-2-pentanone5.0U5.00.9567-64-1Acetone $41 + 5 \neq 2 \neq 2 \neq 5$ 5.01.171-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1575-27-4Bromodichloromethane1.0U1.00.1574-83-9Bromomethane1.0U1.00.2375-15-0Carbon Disulfide1.0U0.1456-23-5Carbon Tetrachloride1.0U1.00.1075-00-3Chlorobenzene1.0U1.00.1067-66-3Chloroform1.0U1.00.1074-87-3Chloromethane1.0U1.00.1010061-01-5cis-1,3-Dichloropropene1.0U1.00.12124-48-1Dibromochloromethane1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	106-46-7	1,4-Dichlorobenzene		1.0		
108-10-14-Methyl-2-pentanone5.0U5.00.9567-64-1Acetone $41 + 1 + 5 \partial U + 5 + 0$ 1.171-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1575-27-4Bromodichloromethane1.0U1.00.1075-25-2Bromoform1.0U1.00.1574-83-9Bromomethane1.0U1.00.2375-15-0Carbon Disulfide1.0U0.10108-90-7Chlorobenzene1.0U1.00.1075-60-3Chloromethane1.0U1.00.1075-60-3Chloromethane1.0U1.00.1075-60-3Chloromethane1.0U1.00.1075-63-3Chloromethane1.0U1.00.1010061-01-5cis-1,3-Dichloropropene1.0U1.00.12124-48-1Dibromochloromethane1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	78-93-3	2-Butanone (MEK)	5.0 U U J	5.0	1.1	
67-64-1Acetone $41 + 5 (2) (1 + 5) (2) (1 + 5) (2) (1 + 5) (2) (1 + 5) (2) (1 + 5) (2) (1 + 5) (2) (1 + 5) (2) (1 + 5) (2) (1 + 5) (2) (1 + 5) (2) (2) (1 + 5) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2$	591-78-6	2-Hexanone	5.0 U	5.0	2.1	
71-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1575-27-4Bromodichloromethane1.0U1.00.1075-25-2Bromoform1.0U1.00.1574-83-9Bromomethane1.0U1.00.2375-15-0Carbon Disulfide1.0U0.10108-90-7Chlorobenzene1.0U1.00.1075-00-3Chlorobenzene1.0U1.00.1067-66-3Chloroform1.0U1.00.1074-87-3Chloromethane1.0U1.00.1010061-01-5cis-1,3-Dichloropropene1.0U1.00.12124-48-1Dibromochloromethane1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	108-10-1	4-Methyl-2-pentanone			0.95	
74-97-5Bromochloromethane1.0U1.00.1575-27-4Bromodichloromethane1.0U1.00.1075-25-2Bromoform1.0U1.00.1574-83-9Bromomethane1.0U1.00.2375-15-0Carbon Disulfide1.0UU1.00.1456-23-5Carbon Tetrachloride1.0U1.00.10108-90-7Chlorobenzene1.0U1.00.1075-03Chloroform1.0U1.00.1067-66-3Chloroform1.0U1.00.1074-87-3Chloromethane1.0U1.00.1010061-01-5cis-1,3-Dichloropropene1.0U1.00.12124-48-1Dibromochloromethane1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	67-64-1	Acetone	<del>4.1 5</del> .0 U	J 5.0	1.1	
75-27-4Bromodichloromethane1.0U1.00.1075-25-2Bromoform1.0U1.00.1574-83-9Bromomethane1.0U1.00.2375-15-0Carbon Disulfide1.0UU1.056-23-5Carbon Tetrachloride1.0U0.10108-90-7Chlorobenzene1.0U1.00.1075-06-3Chloroethane1.0U1.00.1067-66-3Chloroform1.0U1.00.1074-87-3Chloromethane1.0U1.00.12156-59-2cis-1,2-Dichloroethene1.0U1.00.1210061-01-5cis-1,3-Dichloropropene1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	71-43-2	Benzene	1.0 U	1.0	0.10	
75-25-2Bromoform $1.0 \cup \mu \sqrt{10}$ $1.0 0.15$ 74-83-9Bromomethane $1.0 \cup \mu \sqrt{10}$ $1.0 0.23$ 75-15-0Carbon Disulfide $1.0 \cup \mu \sqrt{10}$ $1.0 0.14$ 56-23-5Carbon Tetrachloride $1.0 \cup \mu \sqrt{10}$ $0.10$ 108-90-7Chlorobenzene $1.0 \cup 1.0 0.10$ 75-00-3Chloroethane $1.0 \cup 1.0 0.10$ 67-66-3Chloroform $1.0 \cup 1.0 0.10$ 74-87-3Chloromethane $1.0 \cup 1.0 0.10$ 1061-01-5cis-1,2-Dichloroethene $1.0 \cup 1.0 0.12$ 1061-01-5cis-1,3-Dichloropropene $1.0 \cup 1.0 0.12$ 124-48-1Dibromochloromethane $1.0 \cup 1.0 0.10$ 100-41-4Ethylbenzene $1.0 \cup 1.0 0.10$ 87-68-3Hexachlorobutadiene $1.0 \cup 1.0 0.10$	74-97-5	Bromochloromethane	1.0 U	1.0	0.15	
74-83-9Bromomethane $1.0$ $U$ $1.0$ $0.23$ $75-15-0$ Carbon Disulfide $1.0$ $U$ $1.0$ $0.14$ $56-23-5$ Carbon Tetrachloride $1.0$ $1.0$ $0.10$ $108-90-7$ Chlorobenzene $1.0$ $U$ $1.0$ $0.10$ $75-00-3$ Chloroethane $1.0$ $U$ $1.0$ $0.10$ $67-66-3$ Chloroform $1.0$ $U$ $1.0$ $0.10$ $74-87-3$ Chloromethane $1.0$ $U$ $1.0$ $0.12$ $156-59-2$ cis-1,2-Dichloroethene $1.0$ $U$ $1.0$ $0.12$ $10061-01-5$ cis-1,3-Dichloropropene $1.0$ $U$ $1.0$ $0.12$ $124-48-1$ Dibromochloromethane $1.0$ $U$ $1.0$ $0.10$ $100-41-4$ Ethylbenzene $1.0$ $U$ $1.0$ $0.10$ $87-68-3$ Hexachlorobutadiene $1.0$ $U$ $1.0$ $0.10$	75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
74-83-9Bromomethane $1.0$ $U$ $1.0$ $0.23$ $75-15-0$ Carbon Disulfide $1.0$ $U$ $1.0$ $0.14$ $56-23-5$ Carbon Tetrachloride $1.0$ $1.0$ $0.10$ $108-90-7$ Chlorobenzene $1.0$ $U$ $1.0$ $0.10$ $75-00-3$ Chloroethane $1.0$ $U$ $1.0$ $0.10$ $67-66-3$ Chloroform $1.0$ $U$ $1.0$ $0.10$ $74-87-3$ Chloromethane $1.0$ $U$ $1.0$ $0.12$ $156-59-2$ cis-1,2-Dichloroethene $1.0$ $U$ $1.0$ $0.12$ $10061-01-5$ cis-1,3-Dichloropropene $1.0$ $U$ $1.0$ $0.12$ $124-48-1$ Dibromochloromethane $1.0$ $U$ $1.0$ $0.10$ $100-41-4$ Ethylbenzene $1.0$ $U$ $1.0$ $0.10$ $87-68-3$ Hexachlorobutadiene $1.0$ $U$ $1.0$ $0.10$	75-25-2	Bromoform	1.0 UUJ	1.0	0.15	
56-23-5Carbon Tetrachloride1.01.00.10108-90-7Chlorobenzene1.0U1.00.1075-00-3Chloroethane1.0U1.00.1067-66-3Chloroform1.0U1.00.1074-87-3Chloromethane1.0U1.00.12156-59-2cis-1,2-Dichloroethene1.0U1.00.1010061-01-5cis-1,3-Dichloropropene1.0U1.00.12124-48-1Dibromochloromethane1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	74-83-9		1.0 U	1.0	0.23	
108-90-7Chlorobenzene $1.0$ $U$ $1.0$ $0.10$ $75-00-3$ Chloroethane $1.0$ $U$ $1.0$ $0.10$ $67-66-3$ Chloroform $1.0$ $U$ $1.0$ $0.10$ $74-87-3$ Chloromethane $1.0$ $U$ $1.0$ $0.12$ $156-59-2$ cis- $1,2$ -Dichloroethene $1.0$ $U$ $1.0$ $0.10$ $10061-01-5$ cis- $1,3$ -Dichloropropene $1.0$ $U$ $1.0$ $0.12$ $124-48-1$ Dibromochloromethane $1.0$ $U$ $1.0$ $0.10$ $100-41-4$ Ethylbenzene $1.0$ $U$ $1.0$ $0.10$ $87-68-3$ Hexachlorobutadiene $1.0$ $U$ $1.0$ $0.10$	75-15-0	Carbon Disulfide	1.0 U U I	1.0	0.14	
75-00-3Chloroethane $1.0$ $U$ $1.0$ $0.10$ $67-66-3$ Chloroform $1.0$ $U$ $1.0$ $0.10$ $74-87-3$ Chloromethane $1.0$ $U$ $1.0$ $0.12$ $156-59-2$ cis-1,2-Dichloroethene $1.0$ $U$ $1.0$ $0.10$ $10061-01-5$ cis-1,3-Dichloropropene $1.0$ $U$ $1.0$ $0.12$ $124-48-1$ Dibromochloromethane $1.0$ $U$ $1.0$ $0.10$ $100-41-4$ Ethylbenzene $1.0$ $U$ $1.0$ $0.10$ $87-68-3$ Hexachlorobutadiene $1.0$ $U$ $1.0$ $0.10$	56-23-5	Carbon Tetrachloride	1.0	1.0	0.10	
67-66-3Chloroform1.0U1.00.1074-87-3Chloromethane1.0U1.00.12156-59-2cis-1,2-Dichloroethene1.0U1.00.1010061-01-5cis-1,3-Dichloropropene1.0U1.00.12124-48-1Dibromochloromethane1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	108-90-7	Chlorobenzene	1.0 U	1.0	0.10	
74-87-3Chloromethane1.0U1.00.12156-59-2cis-1,2-Dichloroethene1.0U1.00.1010061-01-5cis-1,3-Dichloropropene1.0U1.00.12124-48-1Dibromochloromethane1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	75-00-3	Chloroethane	1.0 U	1.0	0.10	
156-59-2cis-1,2-Dichloroethene1.0U1.00.1010061-01-5cis-1,3-Dichloropropene1.0U1.00.12124-48-1Dibromochloromethane1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	67-66-3	Chloroform	1.0 U	1.0	0.10	
10061-01-5       cis-1,3-Dichloropropene       1.0 U       1.0 0.12         124-48-1       Dibromochloromethane       1.0 U       1.0 0.10         100-41-4       Ethylbenzene       1.0 U       1.0 0.10         87-68-3       Hexachlorobutadiene       1.0 U       1.0 0.10	74-87-3	Chloromethane	1.0 U	1.0	0.12	
124-48-1         Dibromochloromethane         1.0         U         1.0         0.10           100-41-4         Ethylbenzene         1.0         U         1.0         0.10           87-68-3         Hexachlorobutadiene         1.0         U         1.0         0.10	156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.10	
100-41-4         Ethylbenzene         1.0 U         1.0 0.10           87-68-3         Hexachlorobutadiene         1.0 U         1.0 0.10	10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.12	
87-68-3 Hexachlorobutadiene 1.0 U 1.0 0.10	124-48-1	Dibromochloromethane	1.0 U	1.0	0.10	
	100-41-4	Ethylbenzene	1.0 U	1.0	0.10	
	87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	
	179601-23-1	m,p-Xylenes	1.0 U	1.0		

Client: Project: Sample Matrix:	Shaw Environmental & Infrastructure, Inc. GE MRFA/145599.01 Water	Service Request: R1207266 Date Collected: 10/23/12 1040 Date Received: 10/24/12
Sample Name:	M-24DR	<b>Date Analyzed:</b> 10/20/12 13:53 Units: µg/L
Lab Code:	R1207266-003	Basis: NA

# Low Level Water Volatile Organic Compounds by GC/MS

<b>Analytical Method:</b>	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103012\Z4050.D\

Analysis Lot: 316079 Instrument Name: R-MS-06

**Dilution Factor:** 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.10	······
95-47-6	o-Xylene	1.0 U	1.0	0.10	
100-42-5	Styrene	1.0 U	1.0	0.10	
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10	
108-88-3	Toluene	1.0 U	1.0	0.10	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.10	
79-01-6	Trichloroethene (TCE)	4.2	1.0	0.10	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.10	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.10	

Surrogate Name	%Rec	Control Limits	Date Analyzed Q	
4-Bromofluorobenzene	96	80-120	10/30/12 13:53	

COLUMBIA	ANALYTICAL	SERVICES, INC.
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Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

 Service Request:
 R1207266

 Date Collected:
 10/23/12

 Date Received:
 10/24/12

 Date Analyzed:
 10/30/12
 1353

# Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

Sample Name: Lab Code:	M-24DR R1207266-003		8		Units: µg/L Basis: NA
Analytical Met	hod: CLP-VOA OLC02.1				
CAS #	Analyte Name	RT	Result Q		

No Tentatively Identified Compounds Detected.

Comments:

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207266
Project:	GE MRFA/145599.01	Date Collected: 10/23/12 1120
Sample Matrix:	Water	Date Received: 10/24/12
		Date Analyzed: 10/30/12 14:27
Sample Name:	11D	Units: µg/L
Lab Code:	R1207266-004	Basis: NA

# Low Level Water Volatile Organic Compounds by GC/MS

<b>Analytical Method:</b>	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103012\Z4051.D\

Analysis Lot:	316079
Instrument Name:	R-MS-06
<b>Dilution Factor:</b>	1

71-55-6       1,1,1-Trichloroethane (TCA)       1.0       U       1.0       0.10         73-34-5       1,1,2,2-Tertachloroethane       1.0       U       1.0       0.10         79-00-5       1,1,2-Trichloroethane       1.0       U       1.0       0.11         75-34-3       1,1-Dichloroethane (1,1-DCA)       1.0       U       1.0       0.10         75-34-3       1,1-Dichloroethane (1,1-DCE)       1.0       U       1.0       0.11         120-82-1       1,2,4-Trichlorobenzene       1.0       U       1.0       0.12         96-12-8       1,2-Dichorono-schloropropane (DBCP)       1.0       U       1.0       0.15         107-06-2       1,2-Dichloroethane       1.0       U       1.0       0.10         95-50-1       1,2-Dichloroethanzene       1.0       U       1.0       0.10         95-75       1,2-Dichlorobenzene       1.0       U       1.0       0.10         95-75       1,2-Dichlorobenzene       1.0       U       1.0       0.10         78-93-3       2-Butanone (MEK)       5.0       U J       5.0       2.1         95-78-6       2-Hexanone       5.0       U J       5.0       1.1	CAS No.	Analyte Name	Result Q	MRL	MDL	Note
79-00-5       1,1,2-Trichloroethane       1.0       U       1.0       0.11         75-34-3       1,1-Dichloroethane (1,1-DCA)       1.0       U       1.0       0.10         75-35-4       1,1-Dichloroethane (1,1-DCE)       1.0       U       1.0       0.10         75-35-4       1,2-Dichloroethane (1,1-DCE)       1.0       U       1.0       0.11         120-82-1       1,2,4-Trichlorobenzene       1.0       U       1.0       0.12         96-12-8       1,2-Dichloroethane       1.0       U       1.0       0.15         106-93-4       1,2-Dichloroethane       1.0       U       1.0       0.10         95-50-1       1,2-Dichlorobenzene       1.0       U       1.0       0.10         95-75       1,2-Dichlorobenzene       1.0       U       1.0       0.10         106-64-7       1,4-Dichlorobenzene       1.0       U       1.0       0.10         78-93-3       2-Butanone (MEK)       5.0       U       J       0       0.10         71-43-2       Benzene       1.0       U       1.0       0.10       1.1         71-43-2       Benzene       1.0       U       1.0       0.15	71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.10	· · · · · · · · · · · · · · · · · · ·
75-34-3       1,1-Dichloroethane (1,1-DCA)       1.0       U       1.0       0.10         75-35-4       1,1-Dichloroethane (1,1-DCE)       1.0       U       1.0       0.11         87-61-6       1,2,3-Trichlorobenzene       1.0       U       1.0       0.11         120-82-1       1,2,4-Trichlorobenzene       1.0       U       1.0       0.12         96-12-8       1,2-Dibromosthane       1.0       U       1.0       0.24         106-93-4       1,2-Dibromoethane       1.0       U       1.0       0.10         95-50-1       1,2-Dichloroethare       1.0       U       1.0       0.10         95-50-1       1,2-Dichlorobenzene       1.0       U       1.0       0.10         95-50-1       1,2-Dichlorobenzene       1.0       U       1.0       0.10         78-95-3       1,2-Dichlorobenzene       1.0       U       1.0       0.10         106-46-7       1,4-Dichlorobenzene       1.0       U       1.0       0.10         78-93-3       2-Butanone (MEK)       5.0       U U J       5.0       1.1         71-43-2       Benzene       1.0       U U J       0.0       0.10         75-27-4       B	79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.10	
75-35-4       1,1-Dichloroethene (1,1-DCE)       1.0       U       1.0       0.10         87-61-6       1,2,3-Trichlorobenzene       1.0       U       1.0       0.11         120-82-1       1,2,4-Trichlorobenzene       1.0       U       1.0       0.12         96-12-8       1,2-Dibromo-3-chloropopane (DBCP)       1.0       U       1.0       0.24         106-93-4       1,2-Dibromo-thane       1.0       U       1.0       0.10         95-50-1       1,2-Dichlorobenzene       1.0       U       1.0       0.10         95-50-1       1,2-Dichlorobenzene       1.0       U       1.0       0.10         78-87-5       1,2-Dichlorobenzene       1.0       U       1.0       0.10         541-73-1       1.3-Dichlorobenzene       1.0       U       1.0       0.10         78-93-3       2-Butanone (MEK)       5.0       U       5.0       1.1         591-78-6       2-Hexanone       5.0       U       5.0       1.1         7143-2       Benzene       1.0       U       1.0       0.10         75-25-2       Bromodichloromethane       1.0       U       1.0       0.15         75-25-2       Bromoderin	79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.11	
87-61-6       1,2,3-Trichlorobenzene       1.0       U       1.0       0.11         120-82-1       1,2,4-Trichlorobenzene       1.0       U       1.0       0.12         96-12-8       1,2-Dibromo-3-chloropropane (DBCP)       1.0       U       1.0       0.24         106-93-4       1,2-Dibromoethane       1.0       U       1.0       0.15         107-06-2       1,2-Dichloroethane       1.0       U       1.0       0.10         95-50-1       1,2-Dichloropropane       1.0       U       1.0       0.10         78-87-5       1,2-Dichloropropane       1.0       U       1.0       0.10         541-73-1       1,3-Dichlorobenzene       1.0       U       1.0       0.10         78-87-5       1,2-Dichlorobenzene       1.0       U       1.0       0.10         78-87-5       1,2-Dichlorobenzene       1.0       U       1.0       0.10         78-93       2-Butanone (MEK)       5.0       U       5.0       2.1         108-10-1       4-Methyl-2-pentanone       5.0       U       5.0       1.1         71-43-2       Benzene       1.0       U       1.0       0.10         75-27-4       Bromodichl	75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.10	
120-82-1       1,2,4-Trichlorobenzene       1.0       U       1.0       0.12         96-12-8       1,2-Dibromo-3-chloropropane (DBCP)       1.0       U U       1.0       0.24         106-93-4       1,2-Dibromethane       1.0       U       1.0       0.15         107-06-2       1,2-Dichloroethane       1.0       U       1.0       0.10         95-50-1       1,2-Dichlorobenzene       1.0       U       1.0       0.10         78-75       1,2-Dichlorobenzene       1.0       U       1.0       0.10         541-73-1       1,3-Dichlorobenzene       1.0       U       1.0       0.10         541-73-1       1,4-Dichlorobenzene       1.0       U       1.0       0.10         7437-5		1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.10	
96-12-81.2-Dibromo-3-chloropropane (DBCP)1.0UU1.00.24106-93-41,2-Dibromoethane1.0U1.00.15107-06-21,2-Dichlorobenzene1.0U1.00.1095-50-11,2-Dichlorobenzene1.0U1.00.1078-87-51,2-Dichlorobenzene1.0U1.00.10541-73-11,3-Dichlorobenzene1.0U1.00.10106-46-71,4-Dichlorobenzene1.0U1.00.1078-93-32-Butanone (MEK)5.0U5.02.1108-10-14-Methyl-2-pentanone5.0U5.00.9567-64-1Acetone5.0U5.01.171-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1575-27-4Bromochloromethane1.0U1.00.1575-35-2Bromothoromethane1.0U1.00.1456-23-5Carbon Tetrachloride6.71.00.1075-03Chlorobenzene1.0U1.00.1075-64-3Chloromethane1.0U1.00.1075-15-0Carbon Tetrachloride6.71.00.1074-97-5Chorobenzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1575-52-2Bromothoromethane1.0U1.0<	87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
106-93-41,2-Dibromoethane1.0U1.00.15107-06-21,2-Dichlorobenzene1.0U1.00.1095-50-11,2-Dichlorobenzene1.0U1.00.1078-87-51,2-Dichlorobenzene1.0U1.00.10541-73-11,3-Dichlorobenzene1.0U1.00.1078-87-51,2-Dichlorobenzene1.0U1.00.10541-73-11,3-Dichlorobenzene1.0U1.00.1078-87-52-Butanone (MEK)5.0U U J5.01.178-87-52-Hexanone5.0U 5.02.1108-10-14-Methyl-2-pentanone5.0U J5.01.171-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1575-27-4Bromodichloromethane1.0U1.00.1574-83-9Bromomethane1.0U1.00.1456-23-5Carbon Disulfide1.0U U J1.00.1075-00-3Chlorobenzene1.0U1.00.1074-87-3Chlorobenzene1.0U1.00.1075-02-2cis-1,3-Dichloroptene1.0U1.00.1075-03-3Chlorobenzene1.0U1.00.1075-04-3Chlorobenzene1.0U1.00.1075-05-3Chlorobenzene1.0U1.00.10<	120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.12	
107-06-21,2-Dichloroethane1.0U1.00.1095-50-11,2-Dichloropenzene1.0U1.00.1078-87-51,2-Dichloropropane1.0U1.00.10541-73-11,3-Dichlorobenzene1.0U1.00.10541-73-11,3-Dichlorobenzene1.0U1.00.1078-93-32-Butanone (MEK)5.0UUT5.01.1591-78-62-Hexanone5.0U5.02.1108-10-14-Methyl-2-pentanone5.0U5.00.9567-64-1Accone5.0U5.01.171-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1075-25-2Bromodichloromethane1.0UUT1.00.1456-23-5Carbon Disulfide6.71.00.1075-03-3Chlorobenzene1.0U1.00.1075-03-3Chloroform0.561.00.1075-64-4Bromodichloromethane1.0U1.00.1075-74Bromodichloromethane1.0U1.00.1075-25-2Bromodichloromethane1.0U1.00.1275-15-0Carbon Disulfide6.71.00.1075-05-3Chloroform0.561.00.1075-65-3Chloroform0.561.00.1075-65-3Chloroformethane1.0<	96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U U J	1.0	0.24	
95-50-11,2-Dichlorobenzene1.0U1.00.1078-87-51,2-Dichloropropane1.0U1.00.10541-73-11,3-Dichlorobenzene1.0U1.00.10106-46-71,4-Dichlorobenzene1.0U1.00.1078-93-32-Butanone (MEK)5.0UUT5.01.1591-78-62-Hexanone5.0U5.00.9567-64-1Acetone5.0UUT5.01.171-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1075-27-4Bromodichloromethane1.0U1.00.1574-83-9Bromomethane1.0U1.00.1675-25-2Bromomethane1.0U1.00.1675-25-3Carbon Disulfide1.0UUT1.00.1675-25-4Bromomethane1.0U1.00.1675-25-2Bromoform1.0U1.00.1675-25-2Carbon Disulfide1.0U1.00.1075-15-0Carbon Disulfide1.0U1.00.1075-03Chlorobenzene1.0U1.00.1075-04Chlorobenzene1.0U1.00.1075-05-2cis-1,3-Dichloropropene1.0U1.00.10106-101-5cis-1,3-Dichloropropene1.0U1.00.10100-	106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.15	
78-87-51,2-Dichloropropane1.0U1.00.10541-73-11,3-Dichlorobenzene1.0U1.00.10106-46-71,4-Dichlorobenzene1.0U1.00.1078-93-32-Butanone (MEK)5.0UUT5.01.1591-78-62-Hexanone5.0U5.02.1108-10-14-Methyl-2-pentanone5.0U5.00.9567-64-1Acetone5.0UUT5.01.171-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1075-27-4Bromodichloromethane1.0U1.00.1575-25-2Bromoform1.0UUT1.00.1456-23-5Carbon Disulfide6.71.00.1456-23-5Carbon Disulfide6.71.00.1075-00-3Chlorobenzene1.0U1.00.1074-87-3Chlorobenzene1.0U1.00.1074-87-3Chlorobenzene1.0U1.00.1074-87-3Chlorobenzene1.0U1.00.1074-87-3Chlorobenzene1.0U1.00.101061-01-5cis-1,3-Dichloropropene1.0U1.00.1010061-01-5cis-1,3-Dichloropropene1.0U1.00.1010041-4Ethylbenzene1.0U1.00.1010041-4E	107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.10	
541-73-11,3-Dichlorobenzene1.0U1.00.10106-46-71,4-Dichlorobenzene1.0U1.00.1078-93-32-Butanone (MEK)5.0U $\mathbf{J}_{\mathbf{J}}$ 5.01.1591-78-62-Hexanone5.0U $\mathbf{J}_{\mathbf{J}}$ $\mathbf{J}_{\mathbf{J}}$ $\mathbf{J}_{\mathbf{J}}$ 108-10-14-Methyl-2-pentanone $\mathbf{J}_{\mathbf{J}}$ $\mathbf{J}_{\mathbf{J}}$ $\mathbf{J}_{\mathbf{J}}$ $\mathbf{J}_{\mathbf{J}}$ 74-97-5Berzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1075-27-4Bromodichloromethane1.0U1.00.1574-83-9Bromomethane1.0U1.00.1574-83-9Bromomethane1.0U1.00.1456-23-5Carbon Disulfide1.0U1.00.1075-00-3Chlorobenzene1.0U1.00.1074-87-3Chloromethane1.0U1.00.1074-87-3Chloromethane1.0U1.00.1074-87-3Chlorobenzene1.0U1.00.1074-87-3Chloromethane1.0U1.00.10106-10-5cis-1,3-Dichloropropene1.0U1.00.10106-11-5cis-1,3-Dichloropropene1.0U1.00.10106-11-5cis-1,3-Dichloropropene1.0U1.00.10106-11-5cis-1,3-Dichloropropene1.0U1.0 <td>95-50-1</td> <td>1,2-Dichlorobenzene</td> <td>1.0 U</td> <td>1.0</td> <td>0.10</td> <td></td>	95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.10	
106-46-71,4-Dichlorobenzene1.0U1.00.1078-93-32-Butanone (MEK)5.0U $\mathbf{J}_{\mathbf{J}}$ 5.01.1591-78-62-Hexanone5.0U $\mathbf{J}_{\mathbf{J}}$ $\mathbf{J}_{\mathbf{J}}$ $\mathbf{J}_{\mathbf{J}}$ 108-10-14-Methyl-2-pentanone $\mathbf{J}_{\mathbf{J}}$ $\mathbf{J}_{\mathbf{J}}$ $\mathbf{J}_{\mathbf{J}}$ $\mathbf{J}_{\mathbf{J}}$ 108-10-14-Methyl-2-pentanone $\mathbf{J}_{\mathbf{J}}$ $\mathbf{J}_{\mathbf{J}}$ $\mathbf{J}_{\mathbf{J}}$ $\mathbf{J}_{\mathbf{J}}$ 171-43-2Benzene $\mathbf{I}_{\mathbf{J}}$ $\mathbf{U}$ $\mathbf{J}_{\mathbf{J}}$ $\mathbf{O}_{\mathbf{J}}$ 74-97-5Bromochloromethane $\mathbf{I}_{\mathbf{J}}$ $\mathbf{U}$ $\mathbf{J}_{\mathbf{J}}$ $\mathbf{O}_{\mathbf{I}}$ 75-27-4Bromodichloromethane $\mathbf{I}_{\mathbf{J}}$ $\mathbf{U}$ $\mathbf{J}_{\mathbf{J}}$ $\mathbf{O}_{\mathbf{I}}$ 74-83-9Bromomethane $\mathbf{I}_{\mathbf{J}}$ $\mathbf{U}$ $\mathbf{J}_{\mathbf{J}}$ $\mathbf{O}_{\mathbf{I}}$ 74-83-9Bromomethane $\mathbf{I}_{\mathbf{J}}$ $\mathbf{U}$ $\mathbf{J}_{\mathbf{J}}$ $\mathbf{O}_{\mathbf{I}}$ 74-83-9Bromomethane $\mathbf{I}_{\mathbf{O}}$ $\mathbf{U}$ $\mathbf{J}_{\mathbf{J}}$ $\mathbf{O}_{\mathbf{I}}$ 75-15-0Carbon Disulfide $\mathbf{I}_{\mathbf{O}}$ $\mathbf{U}$ $\mathbf{J}_{\mathbf{O}}$ $\mathbf{O}_{\mathbf{I}}$ 76-63-3Chloroform $\mathbf{O}_{\mathbf{S}}$ $\mathbf{J}_{\mathbf{I}}$ $\mathbf{O}_{\mathbf{I}}$ 74-87-3Chloroform $\mathbf{O}_{\mathbf{S}}$ $\mathbf{J}_{\mathbf{I}}$ $\mathbf{O}_{\mathbf{I}}$ 75-92-2cis-1,2-Dichloroptene $\mathbf{I}_{\mathbf{O}}$ $\mathbf{U}$ $\mathbf{I}_{\mathbf{O}}$ 10061-01-5cis-1,3-Dichloropopene $\mathbf{I}_{\mathbf{O}}$ $\mathbf{U}$ $\mathbf{I}_{\mathbf{O}}$ $\mathbf{O}_{\mathbf{I}}$ 10061-01-5 <td>78-87-5</td> <td>1,2-Dichloropropane</td> <td>1.0 U</td> <td>1.0</td> <td>0.10</td> <td></td>	78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
106-46-71,4-Dichlorobenzene1.0U1.00.1078-93-32-Butanone (MEK)5.0U5.01.1591-78-62-Hexanone5.0U5.02.1108-10-14-Methyl-2-pentanone5.0U5.00.9567-64-1Acetone5.0UU5.01.171-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1575-27-4Bromodichloromethane1.0U1.00.1574-83-9Bromomethane1.0U1.00.1456-23-5Carbon Disulfide1.0U1.00.10108-90-7Chlorobenzene1.0U1.00.1075-03Chloroform0.56J1.00.1075-92cis-1,2-Dichloropethene1.0U1.00.12156-59-2cis-1,2-Dichloropethene1.0U1.00.12106-10-5cis-1,3-Dichloropethene1.0U1.00.121064-11-4Ethylbenzene1.0U1.00.10100-11-4Ethylbenzene1.0U1.00.10	541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.10	
591-78-62-Hexanone5.0U5.02.1108-10-14-Methyl-2-pentanone5.0U5.00.9567-64-1Acetone5.0U5.01.171-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1575-27-4Bromodichloromethane1.0U1.00.1574-83-9Bromomethane1.0U1.00.2375-15-0Carbon Disulfide1.0U1.00.1456-23-5Carbon Tetrachloride6.71.00.1075-00-3Chlorobenzene1.0U1.00.1067-66-3Chloroform0.56J1.00.1074-87-3Chloromethane1.0U1.00.101061-01-5cis-1,3-Dichloropropene1.0U1.00.12124-48-1Dibromochloromethane1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.10	106-46-7					
108-10-14-Methyl-2-pentanone5.0U5.00.9567-64-1Acetone5.0UJ5.01.171-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1575-27-4Bromodichloromethane1.0U1.00.1075-25-2Bromoform1.0U1.00.1574-83-9Bromomethane1.0U1.00.2375-15-0Carbon Disulfide6.71.00.1456-23-5Carbon Tetrachloride6.71.00.1075-00-3Chlorobenzene1.0U1.00.1067-66-3Chloromethane1.0U1.00.1074-87-3Chloromethane1.0U1.00.1010061-01-5cis-1,3-Dichloropropene1.0U1.00.12124-48-1Dibromochloromethane1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	78-93-3	2-Butanone (MEK)	5.0 UUJ	5.0	1.1	
108-10-14-Methyl-2-pentanone5.0U5.00.9567-64-1Acetone5.0U $5.0$ 1.171-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1575-27-4Bromodichloromethane1.0U1.00.1075-25-2Bromoform1.0U1.00.1574-83-9Bromomethane1.0U1.00.2375-15-0Carbon Disulfide6.71.00.1456-23-5Carbon Tetrachloride6.71.00.1075-00-3Chlorobenzene1.0U1.00.1075-00-3Chloromethane1.0U1.00.1075-00-3Chlorobenzene1.0U1.00.1075-03Chlorobenzene1.0U1.00.1074-87-3Chloromethane1.0U1.00.1010061-01-5cis-1,3-Dichloropropene1.0U1.00.1010061-01-5cis-1,3-Dichloropropene1.0U1.00.10100-11-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	591-78-6	2-Hexanone	5.0 U	5.0	2.1	
71-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1575-27-4Bromodichloromethane1.0U1.00.1075-25-2Bromoform1.0U/U1.00.1574-83-9Bromomethane1.0U1.00.2375-15-0Carbon Disulfide1.0U/U1.00.1456-23-5Carbon Tetrachloride <b>6.7</b> 1.00.10108-90-7Chlorobenzene1.0U1.00.1075-00-3Chloroform <b>0.56</b> J1.00.1067-66-3Chloroform <b>0.56</b> J1.00.1074-87-3Chloromethane1.0U1.00.12156-59-2cis-1,2-Dichloropropene1.0U1.00.1210061-01-5cis-1,3-Dichloropropene1.0U1.00.10100-10-41-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	108-10-1	4-Methyl-2-pentanone	5.0 U			
74-97-5Bromochloromethane1.0U1.00.1575-27-4Bromodichloromethane1.0U1.00.1075-25-2Bromoform1.0U/U1.00.1574-83-9Bromomethane1.0U/U1.00.2375-15-0Carbon Disulfide1.0U/U1.00.1456-23-5Carbon Tetrachloride <b>6.7</b> 1.00.10108-90-7Chlorobenzene1.0U1.00.1075-06-3Chloroform <b>0.56</b> J1.00.1074-87-3Chloromethane1.0U1.00.1074-87-3Chloromethane1.0U1.00.1010061-01-5cis-1,3-Dichloropropene1.0U1.00.12124-48-1Dibromochloromethane1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	67 <b>-</b> 64-1	Acetone	5.0 UVゴ	5.0	1.1	
75-27-4Bromodichloromethane1.0U1.00.1075-25-2Bromoform1.0UUT1.00.1574-83-9Bromomethane1.0U1.00.2375-15-0Carbon Disulfide1.0UUT1.00.1456-23-5Carbon Tetrachloride <b>6.7</b> 1.00.10108-90-7Chlorobenzene1.0U1.00.1075-00-3Chloroform0.56J1.00.1067-66-3Chloroform0.56J1.00.1074-87-3Chloromethane1.0U1.00.12156-59-2cis-1,2-Dichloroethene1.0U1.00.1210061-01-5cis-1,3-Dichloropropene1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	71-43-2	Benzene	1.0 U	1.0	0.10	
75-25-2Bromoform $1.0 \ U \ U \ J$ $1.0 \ 0.15$ 74-83-9Bromomethane $1.0 \ U \ J$ $1.0 \ 0.23$ 75-15-0Carbon Disulfide $1.0 \ U \ J$ $1.0 \ 0.23$ 75-15-0Carbon Tetrachloride $6.7 \ 1.0 \ 0.14$ 56-23-5Carbon Tetrachloride $6.7 \ 1.0 \ 0.10$ 108-90-7Chlorobenzene $1.0 \ U \ 1.0 \ 0.10$ 75-00-3Chloroethane $1.0 \ U \ 1.0 \ 0.10$ 67-66-3Chloroform $0.56 \ J \ 1.0 \ 0.10$ 67-66-3Chloromethane $1.0 \ U \ 1.0 \ 0.12$ 156-59-2cis-1,2-Dichloroethene $1.0 \ U \ 1.0 \ 0.10$ 10061-01-5cis-1,3-Dichloropropene $1.0 \ U \ 1.0 \ 0.10$ 10061-01-4Ethylbenzene $1.0 \ U \ 1.0 \ 0.10$ 87-68-3Hexachlorobutadiene $1.0 \ U \ 1.0 \ 0.10$	74-97-5	Bromochloromethane	1.0 U	1.0	0.15	
74-83-9Bromomethane $1.0$ $U$ $1.0$ $0.23$ 75-15-0Carbon Disulfide $1.0$ $U_{U_1}$ $1.0$ $0.14$ 56-23-5Carbon Tetrachloride $6.7$ $1.0$ $0.10$ 108-90-7Chlorobenzene $1.0$ $U$ $1.0$ $0.10$ 75-00-3Chloroethane $1.0$ $U$ $1.0$ $0.10$ 67-66-3Chloroform $0.56$ $J$ $1.0$ $0.10$ 74-87-3Chloromethane $1.0$ $U$ $1.0$ $0.12$ 156-59-2cis-1,2-Dichloroethene $1.0$ $U$ $1.0$ $0.12$ 10061-01-5cis-1,3-Dichloropropene $1.0$ $U$ $1.0$ $0.10$ 100-41-4Ethylbenzene $1.0$ $U$ $1.0$ $0.10$ 87-68-3Hexachlorobutadiene $1.0$ $U$ $1.0$ $0.10$	75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
74-83-9Bromomethane1.0U1.00.2375-15-0Carbon Disulfide1.0 $U \downarrow \downarrow j$ 1.00.1456-23-5Carbon Tetrachloride <b>6.7</b> 1.00.10108-90-7Chlorobenzene1.0U1.00.1075-00-3Chloroethane1.0U1.00.1067-66-3Chloroform <b>0.56</b> J1.00.1074-87-3Chloromethane1.0U1.00.12156-59-2cis-1,2-Dichloroethene1.0U1.00.1210061-01-5cis-1,3-Dichloropropene1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	75-25-2	Bromoform	1.0 UVゴ	1.0	0.15	
56-23-5       Carbon Tetrachloride       6.7       1.0       0.10         108-90-7       Chlorobenzene       1.0       U       1.0       0.10         75-00-3       Chloroethane       1.0       U       1.0       0.10         67-66-3       Chloroform       0.56       J       1.0       0.10         67-66-3       Chloromethane       1.0       U       1.0       0.12         156-59-2       cis-1,2-Dichloroethene       1.0       U       1.0       0.12         10061-01-5       cis-1,3-Dichloropropene       1.0       U       1.0       0.12         124-48-1       Dibromochloromethane       1.0       U       1.0       0.10         100-41-4       Ethylbenzene       1.0       U       1.0       0.10         87-68-3       Hexachlorobutadiene       1.0       U       1.0       0.10	74-83-9	Bromomethane		1.0	0.23	
108-90-7Chlorobenzene1.0U1.00.1075-00-3Chloroethane1.0U1.00.1067-66-3Chloroform <b>0.56</b> J1.00.1074-87-3Chloromethane1.0U1.00.12156-59-2cis-1,2-Dichloroethene1.0U1.00.1010061-01-5cis-1,3-Dichloropropene1.0U1.00.12124-48-1Dibromochloromethane1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	75-15-0	Carbon Disulfide	1.0 UUJ	1.0	0.14	
75-00-3Chloroethane1.0U1.00.1067-66-3Chloroform <b>0.56</b> J1.00.1074-87-3Chloromethane1.0U1.00.12156-59-2cis-1,2-Dichloroethene1.0U1.00.1010061-01-5cis-1,3-Dichloropropene1.0U1.00.12124-48-1Dibromochloromethane1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	56-23-5	Carbon Tetrachloride	6.7	1.0	0.10	
67-66-3Chloroform <b>0.56</b> J1.00.1074-87-3Chloromethane1.0U1.00.12156-59-2cis-1,2-Dichloroethene1.0U1.00.1010061-01-5cis-1,3-Dichloropropene1.0U1.00.12124-48-1Dibromochloromethane1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	108-90-7	Chlorobenzene	1.0 U	1.0	0.10	
74-87-3Chloromethane1.0U1.00.12156-59-2cis-1,2-Dichloroethene1.0U1.00.1010061-01-5cis-1,3-Dichloropropene1.0U1.00.12124-48-1Dibromochloromethane1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	75-00-3	Chloroethane	1.0 U	1.0	0.10	
156-59-2cis-1,2-Dichloroethene1.0U1.00.1010061-01-5cis-1,3-Dichloropropene1.0U1.00.12124-48-1Dibromochloromethane1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	67-66-3	Chloroform	0.56 J	1.0	0.10	
10061-01-5       cis-1,3-Dichloropropene       1.0       U       1.0       0.12         124-48-1       Dibromochloromethane       1.0       U       1.0       0.10         100-41-4       Ethylbenzene       1.0       U       1.0       0.10         87-68-3       Hexachlorobutadiene       1.0       U       1.0       0.10	74-87-3	Chloromethane	1.0 U	1.0	0.12	
124-48-1         Dibromochloromethane         1.0         U         1.0         0.10           100-41-4         Ethylbenzene         1.0         U         1.0         0.10           87-68-3         Hexachlorobutadiene         1.0         U         1.0         0.10	156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.10	
124-48-1         Dibromochloromethane         1.0         U         1.0         0.10           100-41-4         Ethylbenzene         1.0         U         1.0         0.10           87-68-3         Hexachlorobutadiene         1.0         U         1.0         0.10	10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.12	
87-68-3 Hexachlorobutadiene 1.0 U 1.0 0.10						
	100-41-4	Ethylbenzene	1.0 U	1.0	0.10	
	87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	

SuperSet Reference: 12-0000228737 rev 00

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request:	
Project:	GE MRFA/145599.01	Date Collected:	10/23/12 1120
Sample Matrix:	Water	Date Received:	10/24/12
		Date Analyzed:	10/30/12 14:27
Sample Name:	11D	Units:	μg/L
Lab Code:	R1207266-004	Basis:	NA

# Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: Data File Name:	CLP-VOA OLC02.1 I:\ACQUDATA\MSVOA6\DATA\103012\Z4051.D\				Analysis Lot: 316079 Instrument Name: R-MS-06 Dilution Factor: 1		
CAS No.	Analyte Name	Result	Q	MRL	MDL	Note	
75-09-2	Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.10		
95-47-6	o-Xylene	1.0	U	1.0	0.10		
100-42-5	Styrene	1.0	U	1.0	0.10		
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	0.10		
108-88-3	Toluene	1.0	U	1.0	0.10		
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.10		
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.10		
79-01-6	Trichloroethene (TCE)	1.9		1.0	0.10		
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.10		
75-01-4	Vinyl Chloride	1.0	U	1.0	0.10		

Surrogate Name	%Rec	Control Limits	Date Analyzed Q
4-Bromofluorobenzene	98	80-120	10/30/12 14:27

### COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.
Project:	GE MRFA/145599.01
Sample Matrix:	Water

Service Request: R1207266 Date Collected: 10/23/12 Date Received: 10/24/12 Date Analyzed: 10/30/12 1427

# Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

Sample Name: Lab Code:	11D R1207266-004		0	•	·	: µg/L : NA
Analytical Method:	CLP-VOA OLC02.1					
CAS # Anal	yte Name	RT	Result Q			

No Tentatively Identified Compounds Detected.

**Comments:** 

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request:	10/23/12 1200
Project:	GE MRFA/145599.01	Date Collected:	
Sample Matrix:	Water	Date Received:	
Sumple Mutrix.		Date Analyzed:	
Sample Name:	M-1	Units:	
Lab Code:	R1207266-005	Basis:	

# Low Level Water Volatile Organic Compounds by GC/MS

<b>Analytical Method:</b>	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103012\Z4052.D\

Analysis Lot: 316079 Instrument Name: R-MS-06 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.10	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.10	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.11	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.10	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.10	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.12	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U UI	1.0	0.24	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.15	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.10	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.10	
7 <b>8-8</b> 7-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.10	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.10	
78-93-3	2-Butanone (MEK)	5.0 U U C	5.0	1.1	
591-78-6	2-Hexanone	5.0 U	5.0	2.1	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.95	
67-64-1	Acetone	5.0 UU C	5.0	1.1	
71-43-2	Benzene	1.0 U	1.0	0.10	
74-97-5	Bromochloromethane	1.0 U	1.0	0.15	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 UUS	1.0	0.15	
74-83-9	Bromomethane	1.0 U	1.0	0.23	
75-15-0	Carbon Disulfide	1.0 UUÚ	1.0	0.14	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.10	
108-90-7	Chlorobenzene	1.0 U	1.0	0.10	
75-00-3	Chloroethane	1.0 U	1.0	0.10	
67-66-3	Chloroform	1.0 U	1.0	0.10	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.12	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.10	
100-41-4	Ethylbenzene	1.0 U	1.0	0.10	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	
179601-23-1	m,p-Xylenes	1.0 U	1.0	0.12	

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207266
Project:	GE MRFA/145599.01	Date Collected: 10/23/12 1200
Sample Matrix:	Water	Date Received: 10/24/12
		Date Analyzed: 10/30/12 15:00
Sample Name:	M-1	Units: µg/L
Lab Code:	R1207266-005	Basis: NA

# Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method Data File Name:	CLP-VOA OLC02.1 I:\ACQUDATA\MSVOA6\DATA\103012\Z4052.D\				Analysis Lot: 316079 Instrument Name: R-MS-06 Dilution Factor: 1		
CAS No.	Analyte Name	Result	Q	MRL	MDL	Note	
75-09-2	Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.10		
95-47-6	o-Xylene	1.0	U	1.0	0.10		
100-42-5	Styrene	1.0	U	1.0	0.10		
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	0.10		
108-88-3	Toluene	1.0	U	1.0	0.10		
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.10		
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.10	* * * * * * * * * * * * * * * * * * *	
79-01-6	Trichloroethene (TCE)	1.0	U	1.0	0.10		
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.10		
75-01-4	Vinyl Chloride	1.0	U	1.0	0.10		

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	80-120	10/30/12 15:00	

## COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Report

Shaw Environmental & Infrastructure, Inc. **Client:** GE MRFA/145599.01 **Project: Sample Matrix:** Water

Service Request: R1207266 Date Collected: 10/23/12 **Date Received:** 10/24/12 Date Analyzed: 10/30/12 1500

# **Tentatively Identified Compounds (TIC)** Low Level Water Volatile Organic Compounds by GC/MS

CAS # Analyte Name RT Result Q	
Analytical Method: CLP-VOA OLC02.1	
Sample Name:M-1Lab Code:R1207266-005	Units: µg/L Basis: NA

Analyte Name RT

No Tentatively Identified Compounds Detected.

**Comments:** 

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207266
Project:	GE MRFA/145599.01	Date Collected: 10/23/12 1230
Sample Matrix:	Water	<b>Date Received:</b> 10/24/12
		Date Analyzed: 10/30/12 15:28
Sample Name:	MW-4	Units: µg/L
Lab Code:	R1207266-006	Basis: NA

# Low Level Water Volatile Organic Compounds by GC/MS

Low Level Water Volatile Organic Compounds by GC/MS					
Analytical Method: Data File Name:	CLP-VOA OLC02.1 I:\ACQUDATA\MSVOA6\DATA\1030	I	Analysis Lot: 316079 Instrument Name: R-MS-06 Dilution Factor: 1		
CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.10	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.10	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.11	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.10	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.10	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.12	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U U T	1.0	0.24	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.15	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.10	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.10	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.10	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.10	
78-93-3	2-Butanone (MEK)	5.0 U U J	5.0	1.1	
591-78-6	2-Hexanone	5.0 U	5.0	2.1	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.95	
67-64-1	Acetone	<del>1.3 J</del> 57 U	J 5.0	1.1	
71-43-2	Benzene	1.0 U	1.0	0.10	
74-97-5	Bromochloromethane	1.0 U	1.0	0.15	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U UJ	1.0	0.15	
74-83-9	Bromomethane	1.0 U	1.0	0.23	
75-15-0	Carbon Disulfide	1.0 U U J	1.0	0.14	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.10	
108-90-7	Chlorobenzene	1.0 U	1.0	0.10	
75-00-3	Chloroethane	1.0 U	1.0	0.10	
67-66-3	Chloroform	1.0 U	1.0	0.10	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.12	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.10	
100-41-4	Ethylbenzene	1.0 U	1.0	0.10	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	
179601-23-1	m,p-Xylenes	1.0 U	1.0	0.12	

____

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request:	R1207266
Project:	GE MRFA/145599.01	Date Collected:	10/23/12 1230
Sample Matrix:	Water	Date Received:	10/24/12
		Date Analyzed:	10/30/12 15:28
Sample Name:	MW-4	Units:	μg/L
Lab Code:	R1207266-006	Basis:	NA

## Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: Data File Name:	CLP-VOA OLC02.1 I:\ACQUDATA\MSVOA6\DATA\1030	Iı	Analysis Lot: 316079 Instrument Name: R-MS-06 Dilution Factor: 1		
CAS No.	Analyte Name	Result Q	MRL	MDL	Note
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.10	
95-47-6	o-Xylene	1.0 U	1.0	0.10	
100-42-5	Styrene	1.0 U	1.0	0.10	
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10	
108-88-3	Toluene	1.0 U	1.0	0.10	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.10	
79-01-6	Trichloroethene (TCE)	1.0 U	1.0	0.10	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.10	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.10	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	
4-Bromofluorobenzene	98	80-120	10/30/12 15:28		

### COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

Service Request: R1207266 Date Collected: 10/23/12 Date Received: 10/24/12 Date Analyzed: 10/30/12 1528

## Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

Sample Name: Lab Code:			- 8	Units: µg/L Basis: NA
Analytical Met	hod: CLP-VOA OLC02.1			
CAS #	Analyte Name	RT	Result Q	

No Tentatively Identified Compounds Detected.

**Comments:** 

00023

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207266
Project:	GE MRFA/145599.01	Date Collected: 10/23/12 1330
Sample Matrix:	Water	<b>Date Received:</b> 10/24/12
		Date Analyzed: 10/30/12 16:36
Sample Name:	10S	Units: µg/L
Lab Code:	R1207266-007	Basis: NA

# Low Level Water Volatile Organic Compounds by GC/MS

<b>Analytical Method:</b>	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103012\Z4055.D\

Analysis Lot:	316079
<b>Instrument Name:</b>	R-MS-06
<b>Dilution Factor:</b>	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.10	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.10	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.11	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.10	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.10	
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.12	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0	UUJ	1.0	0.24	
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.15	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.10	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.10	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.10	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.10	
78-93-3	2-Butanone (MEK)	5.0	UU	) 5.0	1.1	
591-78-6	2-Hexanone	5.0	U	5.0	2.1	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.95	
67-64-1	Acetone	1 <del>.9</del>	+5.0	UJ 5.0	1.1	
71-43-2	Benzene	1.0	U	1.0	0.10	
74-97-5	Bromochloromethane	1.0	U	1.0	0.15	
75-27-4	Bromodichloromethane	1.0	U	1.0	0.10	
75-25-2	Bromoform	1.0	υU	٦ 1.0	0.15	
74-83-9	Bromomethane	1.0		1.0	0.23	
75-15-0	Carbon Disulfide	1.0	UUJ	1.0	0.14	
56-23-5	Carbon Tetrachloride	2.2		1.0	0.10	
108-90-7	Chlorobenzene	1.0	U	1.0	0.10	
75-00-3	Chloroethane	1.0	U	1.0	0.10	
67-66-3	Chloroform	0.39	J	1.0	0.10	
74-87-3	Chloromethane	1.0		1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.10	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.12	
124-48-1	Dibromochloromethane	1.0		1.0	0.10	
100-41-4	Ethylbenzene	1.0	U	1.0	0.10	
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.10	
179601-23-1	m,p-Xylenes	1.0	U	1.0	0.12	

SuperSet Reference: 12-0000228737 rev 00

Client: Project:	Shaw Environmental & Infrastructure, Inc. GE MRFA/145599.01	Service Request: R1207266 Date Collected: 10/23/12 1330
Sample Matrix:	Water	<b>Date Received:</b> 10/24/12
		Date Analyzed: 10/30/12 16:36
Sample Name:	10S	Units: µg/L
Lab Code:	R1207266-007	Basis: NA

# Low Level Water Volatile Organic Compounds by GC/MS

<b>Analytical Method:</b>	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103012\Z4055.D\

Analysis Lot: 316079 Instrument Name: R-MS-06 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.10	
95-47-6	o-Xylene	1.0 U	1.0	0.10	
100-42-5	Styrene	1.0 U	1.0	0.10	
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10	
108-88-3	Toluene	1.0 U	1.0	0.10	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.10	
79-01-6	Trichloroethene (TCE)	1.0 U	1.0	0.10	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.10	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.10	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	80-120	10/30/12 16:36	

### COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

 Service Request:
 R1207266

 Date Collected:
 10/23/12

 Date Received:
 10/24/12

 Date Analyzed:
 10/30/12 1636

# Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

·	CLP-VOA OLC02.1	RT	Result Q			
Lab Code:	R1207266-007					Basis: NA
Sample Name:	10S		0	•	·	Units: µg/L

No Tentatively Identified Compounds Detected.

**Comments:** 

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request:	R1207266
Project:	GE MRFA/145599.01	Date Collected:	10/23/12 1350
Sample Matrix:	Water	Date Received:	10/24/12
-		Date Analyzed:	10/30/12 17:12
Sample Name:	M-28S	Units:	μg/L
Lab Code:	R1207266-008	Basis:	NA

# Low Level Water Volatile Organic Compounds by GC/MS

<b>Analytical Method:</b>	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103012\Z4056.D\

Analysis Lot: 316079 Instrument Name: R-MS-06 Dilution Factor: 1

					Dilution Factor.
CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.10	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.10	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.11	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.10	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.10	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.12	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 UUJ	1.0	0.24	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.15	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.10	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.10	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.10	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.10	
78-93-3	2-Butanone (MEK)	5.0 UU	5.0	1.1	
591-78-6	2-Hexanone	5.0 U	5.0	2.1	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.95	
67-64-1	Acetone	1.6-7-5.00	人丁 5.0	1.1	
71-43-2	Benzene	1.0 U	1.0	0.10	
74-97-5	Bromochloromethane	1.0 U	1.0	0.15	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 UUC	F 1.0	0.15	
74-83-9	Bromomethane	1.0 U	1.0	0.23	
75-15-0	Carbon Disulfide	1.0 U U 🕰	5 1.0	0.14	
56-23-5	Carbon Tetrachloride	4.1 J		0.10	
108-90-7	Chlorobenzene	1.0 U	1.0	0.10	
75-00-3	Chloroethane	1.0 U	1.0	0.10	
67-66-3	Chloroform	0.20 J	1.0	0.10	
74-87-3	Chloromethane	0.85 J	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.12	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.10	
100-41-4	Ethylbenzene	1.0 U	1.0	0.10	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	
179601-23-1	m,p-Xylenes	1.0 U	1.0	0.12	

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request:	R1207266
Project:	GE MRFA/145599.01	Date Collected:	10/23/12 1350
Sample Matrix:	Water	Date Received:	10/24/12
		Date Analyzed:	10/30/12 17:12
Sample Name:	M-28S	Units:	μg/L
Lab Code:	R1207266-008	Basis:	NA

# Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: Data File Name:	CLP-VOA OLC02.1 I:\ACQUDATA\MSVOA6\DATA\103012\Z4056.D\				Analysis Lot: 316079 Instrument Name: R-MS-06 Dilution Factor: 1		
CAS No.	Analyte Name	Result Q	MRL	MDL	Note		
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.10			
95-47-6	o-Xylene	1.0 U	1.0	0.10			
100-42-5	Styrene	1.0 U	1.0	0.10			
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10			
108-88-3	Toluene	1.0 U	1.0	0.10			
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.10			
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.10			
79-01-6	Trichloroethene (TCE)	4.3 J	1.0	0.10			
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.10			
75-01-4	Vinyl Chloride	1.0 U	1.0	0.10			

Surrogate Name	%Rec	Control Limits	Date Analyzed Q	
4-Bromofluorobenzene	95	80-120	10/30/12 17:12	

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Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

Service Request: R1207266 Date Collected: 10/23/12 Date Received: 10/24/12 Date Analyzed: 10/30/12 1712

## Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

Sample Name:	M-28S	Units: µg/L
Lab Code:	R1207266-008	Basis: NA
Analytical Method:	CLP-VOA OLC02.1	

CAS #	Analyte Name	RT	Result Q	
000076-13-1	Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	2.09	3.2 JN	

Comments:

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request:	R1207266
Project:	GE MRFA/145599.01	Date Collected:	10/23/12 1420
Sample Matrix:	Water	Date Received:	10/24/12
-		Date Analyzed:	10/30/12 17:48
Sample Name:	13S	Units:	μg/L
Lab Code:	R1207266-009	Basis:	NA

# Low Level Water Volatile Organic Compounds by GC/MS

<b>Analytical Method:</b>	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103012\Z4057.D\

Analysis Lot:	316079
<b>Instrument Name:</b>	R-MS-06
<b>Dilution Factor:</b>	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.10	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.10	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.11	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.10	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0		1.0	0.10	
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0		1.0	0.12	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0	UUJ	1.0	0.24	
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.15	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.10	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.10	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.10	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.10	
78-93-3	2-Butanone (MEK)	5.0	UUJ	5.0	1.1	
591-78-6	2-Hexanone	5.0	U	5.0	2.1	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.95	
67-64-1	Acetone	5.0	บนว	5.0	1.1	
71-43-2	Benzene	1.0	U	1.0	0.10	
74-97-5	Bromochloromethane	1.0	U	1.0	0.15	
75-27-4	Bromodichloromethane	1.0	~	1.0	0.10	
75-25-2	Bromoform	1.0	UUJ	1.0	0.15	
74-83-9	Bromomethane	1.0		1.0	0.23	
75-15-0	Carbon Disulfide	1.0	UUJ	1.0	0.14	
56-23-5	Carbon Tetrachloride	4.1		1.0	0.10	
108-90-7	Chlorobenzene	1.0		1.0	0.10	
75-00-3	Chloroethane	1.0	U	1.0	0.10	
67-66-3	Chloroform	1.0		1.0	0.10	
74-87-3	Chloromethane	1.0		1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.10	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.12	
124-48-1	Dibromochloromethane	1.0	U	1.0	0.10	
100-41-4	Ethylbenzene	1.0	U	1.0	0.10	
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.10	
179601-23-1	m,p-Xylenes	1.0		1.0	0.12	

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207266
Project:	GE MRFA/145599.01	Date Collected: 10/23/12 1420
Sample Matrix:	Water	Date Received: 10/24/12
		Date Analyzed: 10/30/12 17:48
Sample Name: Lab Code:	13S R1207266-009	Units: µg/L Basis: NA

## Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: Data File Name:	CLP-VOA OLC02.1 I:\ACQUDATA\MSVOA6\DATA\1030	TA\103012\Z4057.D\			Analysis Lot: 316079 Instrument Name: R-MS-06 Dilution Factor: 1		
CAS No.	Analyte Name	Result Q	MRL	MDL	Note		
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.10			
95-47-6	o-Xylene	1.0 U	1.0	0.10			
100-42-5	Styrene	1.0 U	1.0	0.10			
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10			
108-88-3	Toluene	1.0 U	1.0	0.10			
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.10			
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.10	· · · · · · · · · · · · · · · · · · ·		
79-01-6	Trichloroethene (TCE)	2.2	1.0	0.10			
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.10			
75-01-4	Vinyl Chloride	1.0 U	1.0	0.10			

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	80-120	10/30/12 17:48	

Now part of the ALS Group

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.
Project:	GE MRFA/145599.01
Sample Matrix:	Water

 Service Request:
 R1207266

 Date Collected:
 10/23/12

 Date Received:
 10/24/12

 Date Analyzed:
 10/30/12 1748

## Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

Sample Name: Lab Code:	13S R1207266-009		organic compounds by Gennis	Units: Basis:	
Analytical Method:	CLP-VOA OLC02.1				
CAS # Anal	yte Name	RT	Result Q		

No Tentatively Identified Compounds Detected.

Comments:

Client: Project: Sample Matrix:	Shaw Environmental & Infrastructure, Inc. GE MRFA/145599.01 Water	Service Request: R1207266 Date Collected: 10/23/12 1450 Date Received: 10/24/12 Date Analyzed: 10/30/12 18:24
Sample Name:	13D	Units: μg/L
Lab Code:	R1207266-010	Basis: NA

# Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: Data File Name:	CLP-VOA OLC02.1 I:\ACQUDATA\MSVOA6\DATA\1036	I	Analysis Lot: 316079 Instrument Name: R-MS-06 Dilution Factor: 1		
CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.10	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.10	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.11	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.10	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.10	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.12	· · · · · · · · · · · · · · · · · · ·
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U U 5	1.0	0.12	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.24	
107-06-2	1,2-Dichloroethane	1.0 U			
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0 1.0	0.10	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10 0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U			······································
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0 1.0	0.10	
78 <b>-</b> 93-3	2-Butanone (MEK)	5.0 U U J	5.0	0.10 1.1	
591-78-6	2-Hexanone	5.0 U	5.0	·····	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0 5.0	2.1 0.95	
67-64-1	Acetone	1.4-J-5,0 Kg		1.1	
71-43-2	Benzene	1.0 U			
74-97-5	Bromochloromethane	1.0 U	1.0 1.0	0.10 0.15	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.13	
75-25-2	Bromoform	1.0 UUJ			
74-83-9	Bromomethane	1.0 U	1.0 1.0	0.15	
75-15-0	Carbon Disulfide	1.0 UUT	1.0	0.23 0.14	
56-23-5	Carbon Tetrachloride	0.68 J			
108-90-7	Chlorobenzene	1.0 U	1.0 1.0	0.10 0.10	
75-00-3	Chloroethane	1.0 U	1.0	0.10	
67-66-3	Chloroform	0.13 J			
74-87-3	Chloromethane	1.0 U	1.0 1.0	0.10 0.12	
56-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.12	
0061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.12	
24-48-1	Dibromochloromethane	1.0 U	1.0	0.12	
00-41-4	Ethylbenzene	1.0 U	1.0	0.10	
37-68-3	Hexachlorobutadiene	1.0 U			
70601 22 1		1.0 U	1.0	0.10	

m,p-Xylenes

179601-23-1

1.0 U

1.0

0.12

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207266
Project:	GE MRFA/145599.01	Date Collected: 10/23/12 1450
Sample Matrix:	Water	<b>Date Received:</b> 10/24/12
		Date Analyzed: 10/30/12 18:24
Sample Name: Lab Code:	13D R1207266-010	Units: µg/L Basis: NA

# Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: Data File Name:	CLP-VOA OLC02.1 I:\ACQUDATA\MSVOA6\DATA\103012\Z4058.D\				Analysis Lot: 316079 Instrument Name: R-MS-06 Dilution Factor: 1		
CAS No.	Analyte Name	Result	Q	MRL	MDL	Note	
75-09-2	Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.10		
95-47-6	o-Xylene	1.0	U	1.0	0.10		
100-42-5	Styrene	1.0	U	1.0	0.10		
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	0.10		
108-88-3	Toluene	1.0	Ū	1.0	0.10		
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.10		
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.10		
79-01-6	Trichloroethene (TCE)	1.0	U	1.0	0.10		
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.10		
75-01-4	Vinyl Chloride	1.0	U	1.0	0.10		

Surrogate Name	%Rec	Control Limits	Date Analyzed Q	
4-Bromofluorobenzene	97	80-120	10/30/12 18:24	

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Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.
Project:	GE MRFA/145599.01
Sample Matrix:	Water

Service Request: R1207266 Date Collected: 10/23/12 Date Received: 10/24/12 Date Analyzed: 10/30/12 1824

# Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

Sample Name: Lab Code:	13D R1207266-010			Units: µg/L Basis: NA	
Analytical Metho	d: CLP-VOA OLC02.1				
CAS # Ai	nalyte Name	RT	Result Q		

No Tentatively Identified Compounds Detected.

Comments:

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207266	
Project:	GE MRFA/145599.01	Date Collected: 10/23/12	
Sample Matrix:	Water	Date Received: 10/24/12	
		Date Analyzed: 10/30/12 19:	35
Sample Name:	DUPB	Units: µg/L	
Lab Code:	R1207266-011	Basis: NA	

# Low Level Water Volatile Organic Compounds by GC/MS

<b>Analytical Method:</b>	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103012\Z4060.D\

Analysis Lot: 316079 Instrument Name: R-MS-06 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.10	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.10	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.11	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.10	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.10	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.12	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U WJ	1.0	0.24	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.15	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.10	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.10	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.10	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.10	
78-93-3	2-Butanone (MEK)	5.0 UUJ	5.0	1.1	
591-78-6	2-Hexanone	5.0 U	5.0	2.1	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.95	
67-64-1	Acetone	5.0 UUT	5.0	1.1	
71-43-2	Benzene	1.0 U	1.0	0.10	
74-97-5	Bromochloromethane	1.0 U	1.0	0.15	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 UUJ	1.0	0.15	
74-83-9	Bromomethane	1.0 U	1.0	0.23	
75-15-0	Carbon Disulfide	1.0 UUJ	1.0	0.14	
56-23-5	Carbon Tetrachloride	1.6 J	1.0	0.10	
108-90-7	Chlorobenzene	1.0 U	1.0	0.10	
75-00-3	Chloroethane	1.0 U	1.0	0.10	
67-66-3	Chloroform	1.0 U	1.0	0.10	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.12	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.10	
100-41-4	Ethylbenzene	1.0 U	1.0	0.10	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	
179601-23-1	m,p-Xylenes	1.0 U	1.0	0.12	

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207266
Project:	GE MRFA/145599.01	Date Collected: 10/23/12
Sample Matrix:	Water	Date Received: 10/24/12
		Date Analyzed: 10/30/12 19:35
Sample Name:	DUPB	Units: µg/L
Lab Code:	R1207266-011	Basis: NA

# Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: Data File Name:	CLP-VOA OLC02.1 I:\ACQUDATA\MSVOA6\DATA\103012\Z4060.D\				Analysis Lot: 316079 Instrument Name: R-MS-06 Dilution Factor: 1		
CAS No.	Analyte Name	Result Q	MRL	MDL	Note		
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.10			
95-47-6	o-Xylene	1.0 U	1.0	0.10			
100-42-5	Styrene	1.0 U	1.0	0.10			
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10			
108-88-3	Toluene	1.0 U	1.0	0.10			
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.10			
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.10			
79-01-6	Trichloroethene (TCE)	1.3 🤇	1.0	0.10			
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.10			
75-01-4	Vinyl Chloride	1.0 U	1.0	0.10			

Surrogate Name	%Rec	Control Limits	Date Analyzed Q	
4-Bromofluorobenzene	97	80-120	10/30/12 19:35	

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Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

 Service Request:
 R1207266

 Date Collected:
 10/23/12

 Date Received:
 10/24/12

 Date Analyzed:
 10/30/12 1935

## Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

Sample Name: Lab Code:	DUPB R1207266-011		<b>g</b>	Units: µg/L Basis: NA
Analytical Method	CLP-VOA OLC02.1			
CAS# An	alyte Name	RT	Result Q	

No Tentatively Identified Compounds Detected.

**Comments:** 

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207266
Project:	GE MRFA/145599.01	Date Collected: 10/23/12 0000
Sample Matrix:	Water	<b>Date Received:</b> 10/24/12
		Date Analyzed: 10/30/12 20:11
Sample Name:	TRIP BLANK	<b>Units:</b> μg/L
Lab Code:	R1207266-012	Basis: NA

# Low Level Water Volatile Organic Compounds by GC/MS

<b>Analytical Method:</b>	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103012\Z4061.D\

<b>S</b>	
Analysis Lot:	316079
Instrument Name:	R-MS-06

Instrument Name: R-MS-0 Dilution Factor: 1

71-55-6       1,1,1-Trichloroethane (TCA)       1.0       U       1.0       0.10         79-34-5       1,1,2,2-Tetrachloroethane       1.0       U       1.0       0.11         75-34-3       1,1-Dichloroethane (1,1-DCA)       1.0       U       1.0       0.11         75-34-3       1,1-Dichloroethane (1,1-DCA)       1.0       U       1.0       0.11         75-34-3       1,1-Dichloroethane (1,1-DCE)       1.0       U       1.0       0.11         120-82-1       1,2,4-Trichlorobenzene       1.0       U       1.0       0.12         96-12-8       1,2-Dichloroethane       1.0       U       1.0       0.15         107-06-2       1,2-Dichloroethane       1.0       U       1.0       0.10         95-50-1       1,2-Dichloroethane       1.0       U       1.0       0.10         95-75       1,2-Dichloroethanzene       1.0       U       1.0       0.10         95-75       1,2-Dichloroethanzene       1.0       U       1.0       0.10         106-46-7       1,4-Dichlorobenzene       1.0       U       1.0       0.10         78-93-3       2-Butanote (MEK)       5.0       U       5.0       2.1 <t< th=""><th>CAS No.</th><th>Analyte Name</th><th>Result Q</th><th>MRL</th><th>MDL</th><th>Note</th></t<>	CAS No.	Analyte Name	Result Q	MRL	MDL	Note
79-00-5       1,1/2-Trichloroethane       1.0       U       1.0       0.11         75-34-3       1,1-Dichloroethane (1,1-DCA)       1.0       U       1.0       0.10         75-35-4       1,1-Dichloroethane (1,1-DCE)       1.0       U       1.0       0.11         120-82-1       1,2,4-Trichlorobenzene       1.0       U       1.0       0.12         96-12-8       1,2-Dichoroethane       1.0       U       1.0       0.15         106-93-4       1,2-Dichoroethane       1.0       U       1.0       0.10         95-50-1       1,2-Dichloroethane       1.0       U       1.0       0.10         95-87-1       1,3-Dichlorobenzene       1.0       U       1.0       0.10         95-87-1       1,3-Dichlorobenzene       1.0       U       1.0       0.10         106-64-7       1,4-Dichlorobenzene       1.0       U       1.0       0.10         106-64-7       1,4-Dichlorobenzene       1.0       U       1.0       0.10         178-93-3       2-Butanone (MEK)       5.0       U       5.0       2.1         108-10-1       4-Methyl-2-pentanone       5.0       U       5.0       1.1         71-43-2	71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.10	
75-34-3       1,1-Dichloroethane (1,1-DCA)       1.0       U       1.0       0.10         75-35-4       1,1-Dichloroethane (1,1-DCE)       1.0       U       1.0       0.11         87-61-6       1,2,3-Trichlorobenzene       1.0       U       1.0       0.11         120-82-1       1,2,4-Trichlorobenzene       1.0       U       1.0       0.12         96-12-8       1,2-Dibromo-3-chloropropane (DBCP)       1.0       U U J       0       0.15         107-06-2       1,2-Dichloroethane       1.0       U       1.0       0.10       0.10         95-50-1       1,2-Dichlorobenzene       1.0       U       1.0       0.10       0.10         78-87-5       1,2-Dichlorobenzene       1.0       U       1.0       0.10       0.10         95-50-1       1,3-Dichlorobenzene       1.0       U       1.0       0.10       0.10         78-87-5       1,2-Dichlorobenzene       1.0       U       1.0       0.10       0.10         541-73-1       1,3-Dichlorobenzene       1.0       U       1.0       0.10       0.10         78-73       2-Butanone (MEK)       5.0       U       5.0       1.1       1.1         71-43-2	79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.10	
75-35-4       1,1-Dickloroethene (1,1-DCE)       1.0       U       1.0       0.10         87-61-6       1,2,3-Tricklorobenzene       1.0       U       1.0       0.11         120-82-1       1,2,4-Tricklorobenzene       1.0       U       1.0       0.12         96-12-8       1.2-Dibromo-3-chloropropane (DBCP)       1.0       U       1.0       0.24         106-93-4       1.2-Dibromo-thane       1.0       U       1.0       0.10         95-50-1       1.2-Dicklorobenzene       1.0       U       1.0       0.10         95-50-1       1.2-Dicklorobenzene       1.0       U       1.0       0.10         78-87-5       1,2-Dicklorobenzene       1.0       U       1.0       0.10         95-50-1       1.2-Dicklorobenzene       1.0       U       1.0       0.10         78-87-5       1,2-Dicklorobenzene       1.0       U       1.0       0.10         78-87-5       1,2-Dicklorobenzene       1.0       U       1.0       0.10         78-33       2-Butanone (MEK)       5.0       U       5.0       1.1         191-78-6       2-Hexanone       5.0       U       5.0       1.1         143-2       Be	79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.11	
87-61-6       1,2,3-Trichlorobenzene       1.0       U       1.0       0.11         120-82-1       1,2,4-Trichlorobenzene       1.0       U       1.0       0.12         96-12-8       1,2-Dibromo-3-chloropropane (DBCP)       1.0       U       1.0       0.24         106-93-4       1,2-Dibromoethane       1.0       U       1.0       0.15         107-06-2       1,2-Dichlorobenzene       1.0       U       1.0       0.10         95-50-1       1,2-Dichlorobenzene       1.0       U       1.0       0.10         78-87-5       1,2-Dichlorobenzene       1.0       U       1.0       0.10         78-93-3       2-Butanone (MEK)       5.0       U       5.0       2.1         108-10-1       4-Methyl-2-pentanone       5.0       U       5.0       1.1         71-43-2       Benzene       1.0       U       1.0       0.10         75-27-4       Bromodic	75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.10	
120-82-11,2,4-Trichlorobenzene1.0U1.00.1296-12-81,2-Dibromo-3-chloropropane (DBCP)1.0U (J J1.00.24106-93-41,2-Dibromoethane1.0U1.00.15107-06-21,2-Dichloroethane1.0U1.00.1095-50-11,2-Dichloropenzene1.0U1.00.1078-87-51,2-Dichlorobenzene1.0U1.00.10541-73-11,3-Dichlorobenzene1.0U1.00.10106-6-71,4-Dichlorobenzene1.0U1.00.10541-73-11,3-Dichlorobenzene1.0U1.00.10106-6-71,4-Dichlorobenzene1.0U1.00.1078-93-32-Butanone (MEK)5.0U5.01.1591-78-62-Hexanone5.0U5.00.9567-64-1Acetone2.1J5.01.171-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1075-27-4Bromochloromethane1.0U1.00.1575-52-2Bromochloromethane1.0U1.00.1075-53-5Carbon Disulfde1.0U1.00.10108-90-7Chloroetnane1.0U1.00.1075-03-7Chloroform1.0U1.00.1075-03-7Chloroetnane1.0U1.0<	75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.10	
96-12-81.2-Dibromo-3-chloropropane (DBCP)1.0UU1.00.24106-93-41.2-Dibromoethane1.0U1.00.15107-06-21.2-Dichlorobenzene1.0U1.00.1095-50-11.2-Dichlorobenzene1.0U1.00.1078-87-51.2-Dichlorobenzene1.0U1.00.10541-73-11.3-Dichlorobenzene1.0U1.00.10541-73-21.4-Dichlorobenzene1.0U1.00.10541-73-11.3-Dichlorobenzene1.0U1.00.10541-73-11.3-Dichlorobenzene1.0U1.00.10541-73-11.3-Dichlorobenzene1.0U1.00.10541-73-11.3-Dichlorobenzene1.0U1.00.10541-73-11.3-Dichlorobenzene1.0U1.00.10541-73-11.4-Dichlorobenzene1.0U5.01.1591-78-62-Hexanone5.0U5.02.1108-10-14-Methyl-2-pentanone5.0U5.00.1674-97-5Bromochloromethane1.0U1.00.1075-27-4Bromochloromethane1.0U1.00.1575-15-0Carbon Disulfide1.0U1.00.1456-23-5Carbon Tetrachloride1.0U1.00.1075-03Chlorobenzene1.0U1.00.1076-63Ch	87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
106-93-41,2-Dibromoethane1.0U1.00.15107-06-21,2-Dichloroethane1.0U1.00.1095-50-11,2-Dichloropropane1.0U1.00.1058-87-51,2-Dichlorobenzene1.0U1.00.10541-73-11,3-Dichlorobenzene1.0U1.00.10106-46-71,4-Dichlorobenzene1.0U1.00.1078-93-32-Butanone (MEK)5.0U5.01.1591-78-62-Hexanone5.0U5.02.1108-10-14-Methyl-2-pentanone5.0U5.01.171-43-2Benzene1.0U1.00.1074-97-5Bromodichloromethane1.0U1.00.1575-27-4Bromodichloromethane1.0U1.00.1575-25-2Bromodichloromethane1.0U1.00.1456-23-5Carbon Disulfide1.0U1.00.1075-00-3Chlorochane1.0U1.00.1067-66-3Chloroform1.0U1.00.1074-87-3Chloromethane1.0U1.00.1075-00-3Chlorochane1.0U1.00.1075-00-3Chlorochane1.0U1.00.1075-69-2cis-1,3-Dichloropropene1.0U1.00.1075-60-3Chlorochane1.0U1.00.10 <tr< td=""><td>120-82-1</td><td>1,2,4-Trichlorobenzene</td><td>1.0 U</td><td>1.0</td><td>0.12</td><td></td></tr<>	120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.12	
107-06-21,2-Dichloroethane1.0U1.00.1095-50-11,2-Dichloroptopane1.0U1.00.1078-87-51,2-Dichloroptopane1.0U1.00.10541-73-11,3-Dichlorobenzene1.0U1.00.10541-73-11,3-Dichlorobenzene1.0U1.00.1078-93-32-Butanone (MEK)5.0U U J5.01.1591-78-62-Hexanone5.0U J5.00.9567-64-1Acetone2.1JJ5.01.171-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1075-25-2Bromodichloromethane1.0U1.00.1075-25-3Carbon Disulfide1.0U1.00.1456-23-5Carbon Disulfide1.0U1.00.1075-03-7Chlorobenzene1.0U1.00.1075-03-7Chlorobenzene1.0U1.00.1075-15-0Carbon Disulfide1.0U1.00.1075-15-0Carbon Disulfide1.0U1.00.1075-15-0Carbon Disulfide1.0U1.00.1075-15-0Carbon Disulfide1.0U1.00.10108-90-7Chloroform1.0U1.00.1075-15-0Carbon Disulfide1.0U1.00.10 </td <td>96-12-8</td> <td>1,2-Dibromo-3-chloropropane (DBCP)</td> <td>1.0 U US</td> <td>1.0</td> <td>0.24</td> <td></td>	96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U US	1.0	0.24	
95-50-11,2-Dichlorobenzene1.0U1.00.1078-87-51,2-Dichloropropane1.0U1.00.10541-73-11,3-Dichlorobenzene1.0U1.00.10106-46-71,4-Dichlorobenzene1.0U1.00.1078-93-32-Butanone (MEK)5.0U5.01.1591-78-62-Hexanone5.0U5.00.9567-64-1Acetone2.1J5.01.171-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1575-27-4Bromodichloromethane1.0U1.00.1575-25-2Bromodrichloromethane1.0U1.00.1675-25-2Bromoderhore1.0U1.00.1675-25-3Carbon Disulfide1.0U1.00.1675-25-4Bromoderhore1.0U1.00.1675-25-5Carbon Disulfide1.0U1.00.1675-25-2Bromoderhore1.0U1.00.1075-0-3Chlorobenzene1.0U1.00.1075-0-3Chlorobenzene1.0U1.00.1067-66-3Chlorobenzene1.0U1.00.1075-0-3chlorobenzene1.0U1.00.1075-0-3chlorobenzene1.0U1.00.101061-01-5cis-1	106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.15	
78-87-51,2-Dichloropropane1.0U1.00.10 $541-73-1$ 1,3-Dichlorobenzene1.0U1.00.10 $106-46-7$ 1,4-Dichlorobenzene1.0U1.00.10 $78-93-3$ 2-Butanone (MEK)5.0UU5.01.1 $591-78-6$ 2-Hexanone5.0U5.02.1 $108-10-1$ 4-Methyl-2-pentanone5.0U5.00.95 $67-64-1$ Acetone2.1JJ5.01.1 $71-43-2$ Benzene1.0U1.00.10 $74-97-5$ Bromochloromethane1.0U1.00.10 $75-25-2$ Bromodichloromethane1.0U1.00.15 $75-25-2$ Bromomethane1.0U1.00.14 $56-23-5$ Carbon Disulfide1.0U1.00.10 $75-0-3$ Chlorobenzene1.0U1.00.10 $75-0-3$ Chlorobenzene1.0U1.00.10 $74-87-3$ Chlorobenzene1.0U1.00.10 $74-87-3$ Chlorobenzene1.0U1.00.10 $74-87-3$ Chlorobenzene1.0U1.00.10 $74-87-3$ Chlorobenzene1.0U1.00.10 $74-87-3$ Chlorobenzene1.0U1.00.10 $74-87-3$ Chlorobenzene1.0U1.00.10 $74-87-3$ Chlorobenzene1.0U1	107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.10	
541-73-11,3-Dichlorbenzene1.0U1.00.10106-46-71,4-Dichlorobenzene1.0U1.00.1078-93-32-Butanone (MEK)5.0U U J5.01.1591-78-62-Hexanone5.0U5.02.1108-10-14-Methyl-2-pentanone5.0U5.00.9567-64-1Acetone2.1JJ5.01.171-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1575-27-4Bromodichloromethane1.0U1.00.1575-25-2Bromonethane1.0U1.00.1574-83-9Bromomethane1.0U1.00.1656-23-5Carbon Disulfide1.0U1.00.1075-10-0Carbon Disulfide1.0U1.00.1075-03Chlorobenzene1.0U1.00.1074-87-3Chloromethane1.0U1.00.1074-87-3Chloromethane1.0U1.00.1074-87-3Chloromethane1.0U1.00.101061-01-5cis-1,3-Dichloropopene1.0U1.00.12124-48-1Dibromochloromethane1.0U1.00.1010041-1-4Ethylbenzene1.0U1.00.1010-41-4Ethylbenzene1.0U1.00.10<	95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.10	
106-46-71,4-Dichlorobenzene1.0U1.00.1078-93-32-Butanone (MEK)5.0UU5.01.1591-78-62-Hexanone5.0U5.02.1108-10-14-Methyl-2-pentanone5.0U5.00.9567-64-1Acetone2.1JJ5.01.171-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1575-27-4Bromodichloromethane1.0U1.00.1574-83-9Bromomethane1.0U1.00.1456-23-5Carbon Disulfide1.0U1.00.10108-90-7Chlorobenzene1.0U1.00.1075-63Chloroform1.0U1.00.1074-87-3Chloroform1.0U1.00.10108-90-7Chloroform1.0U1.00.10108-90-7Chloroform1.0U1.00.10156-59-2cis-1,2-Dichloroethene1.0U1.00.12156-59-2cis-1,2-Dichloropenpene1.0U1.00.1210061-01-5cis-1,3-Dichloropropene1.0U1.00.101004-1-4Ethylbenzene1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.10	78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
78-93-32-Butanone (MEK) $5.0 \cup U \cup J$ $5.0 \cup U \cup J$ $5.0 \cup 1.1$ 591-78-62-Hexanone $5.0 \cup 5.0 \cup 2.1$ 108-10-14-Methyl-2-pentanone $5.0 \cup 5.0 \cup 9.5$ 67-64-1Acetone $2.1 J \cup J$ $5.0 \cup 1.1$ 71-43-2Benzene $1.0 \cup 1.0 \cup 0.10$ 74-97-5Bromochloromethane $1.0 \cup 1.0 \cup 0.15$ 75-27-4Bromodichloromethane $1.0 \cup 1.0 \cup 0.10$ 75-25-2Bromoform $1.0 \cup U \cup 1.0 \cup 0.15$ 75-27-3Bromomethane $1.0 \cup U \cup 1.0 \cup 0.10$ 75-25-2Bromoform $1.0 \cup U \cup 1.0 \cup 0.15$ 75-15-0Carbon Disulfide $1.0 \cup U \cup 1.0 \cup 0.14$ 56-23-5Carbon Tetrachloride $1.0 \cup 1.0 \cup 0.10$ 108-90-7Chlorobenzene $1.0 \cup 1.0 \cup 0.10$ 108-90-7Chloroform $1.0 \cup 1.0 \cup 0.10$ 67-66-3Chloroform $1.0 \cup 1.0 \cup 0.10$ 1061-01-5cis-1,3-Dichloropropene $1.0 \cup 1.0 \cup 0.12$ 10661-01-5cis-1,3-Dichloropropene $1.0 \cup 1.0 \cup 0.10$ 10061-01-5cis-1,3-Dichloropropene $1.0 \cup 1.0 \cup 0.10$ 10041-4Ethylbenzene $1.0 \cup 1.0 \cup 0.10$ 100-41-4Ethylbenzene $1.0 \cup 1.0 \cup 0.10$	541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.10	
591-78-62-Hexanone5.0U5.02.1108-10-14-Methyl-2-pentanone5.0U5.00.9567-64-1Acetone2.1JJ5.01.171-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1575-27-4Bromodichloromethane1.0U1.00.1575-25-2Bromorethane1.0U1.00.1574-83-9Bromomethane1.0U1.00.2375-15-0Carbon Disulfide1.0U1.00.1456-23-5Carbon Tetrachloride1.0U1.00.1075-00-3Chlorobenzene1.0U1.00.1067-66-3Chloroform1.0U1.00.1067-66-3Chloroform1.0U1.00.12156-59-2cis-1,3-Dichloropropene1.0U1.00.1210061-01-5cis-1,3-Dichloropropene1.0U1.00.101004-1-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	106-46-7	1,4-Dichlorobenzene		1.0	0.10	
108-10-14-Methyl-2-pentanone5.0U5.00.9567-64-1Acetone2.1JJ5.01.171-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1575-27-4Bromodichloromethane1.0U1.00.1075-25-2Bromoform1.0U1.00.1574-83-9Bromomethane1.0U1.00.2375-15-0Carbon Disulfide1.0U1.00.1456-23-5Carbon Tetrachloride1.0U1.00.1075-00-3Chlorobenzene1.0U1.00.1075-60-3Chloroform1.0U1.00.1076-66-3Chloromethane1.0U1.00.1075-69-2cis-1,3-Dichloroptopene1.0U1.00.1210061-01-5cis-1,3-Dichloroptopene1.0U1.00.1010061-01-5cis-1,3-Dichloroptopene1.0U1.00.1010041-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	78-93-3	2-Butanone (MEK)	5.0 U U J	5.0	1.1	
$67-64-1$ Acetone $2.1 J \int 5.0$ $1.1$ $71-43-2$ Benzene $1.0 U$ $1.0 0.10$ $74-97-5$ Bromochloromethane $1.0 U$ $1.0 0.15$ $75-27-4$ Bromodichloromethane $1.0 U$ $1.0 0.10$ $75-25-2$ Bromomethane $1.0 U$ $1.0 0.15$ $74-83-9$ Bromomethane $1.0 U$ $1.0 0.14$ $56-23-5$ Carbon Disulfide $1.0 U$ $1.0 0.10$ $108-90-7$ Chlorobenzene $1.0 U$ $1.0 0.10$ $108-90-7$ Chloroform $1.0 U$ $1.0 0.10$ $75-00-3$ Chloroform $1.0 U$ $1.0 0.10$ $67-66-3$ Chloroform $1.0 U$ $1.0 0.10$ $74-87-3$ Chloromethane $1.0 U$ $1.0 0.10$ $10061-01-5$ cis- $1,3$ -Dichloropropene $1.0 U$ $1.0 0.12$ $124-48-1$ Dibromochloromethane $1.0 U$ $1.0 0.10$ $100-41-4$ Ethylbenzene $1.0 U$ $1.0 0.10$ $87-68-3$ Hexachlorobutadiene $1.0 U$ $1.0 0.10$	591-78-6	2-Hexanone	5.0 U	5.0	2.1	
71-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1575-27-4Bromodichloromethane1.0U1.00.1075-25-2Bromoform1.0U1.00.1574-83-9Bromomethane1.0U1.00.2375-15-0Carbon Disulfide1.0U1.00.1456-23-5Carbon Tetrachloride1.0U1.00.10108-90-7Chlorobenzene1.0U1.00.1075-00-3Chloroform1.0U1.00.1067-66-3Chloroform1.0U1.00.12156-59-2cis-1,2-Dichloroethene1.0U1.00.1210061-01-5cis-1,3-Dichloropropene1.0U1.00.10100-11-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.95	
74-97-5Bromochloromethane1.0U1.00.1575-27-4Bromodichloromethane1.0U1.00.1075-25-2Bromoform1.0U1.00.1574-83-9Bromomethane1.0U1.00.2375-15-0Carbon Disulfide1.0U1.00.1456-23-5Carbon Tetrachloride1.0U1.00.10108-90-7Chlorobenzene1.0U1.00.1075-03Chloroethane1.0U1.00.1067-66-3Chloroform1.0U1.00.1074-87-3Chloromethane1.0U1.00.1010061-01-5cis-1,3-Dichloroptopene1.0U1.00.12124-48-1Dibromochloromethane1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	67-64-1	Acetone	2.1 J J	5.0	1.1	
75-27-4Bromodichloromethane1.0U1.00.1075-25-2Bromoform1.0U1.00.1574-83-9Bromomethane1.0U1.00.2375-15-0Carbon Disulfide1.0U1.00.1456-23-5Carbon Tetrachloride1.0U1.00.10108-90-7Chlorobenzene1.0U1.00.1075-06-3Chloroethane1.0U1.00.1067-66-3Chloroform1.0U1.00.1074-87-3Chloromethane1.0U1.00.12156-59-2cis-1,2-Dichloroethene1.0U1.00.1210061-01-5cis-1,3-Dichloropropene1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	71-43-2	Benzene	1.0 U	1.0	0.10	
75-25-2Bromoform $1.0 \ U \ U$ $1.0 \ 0.15$ 74-83-9Bromomethane $1.0 \ U$ $1.0 \ 0.23$ 75-15-0Carbon Disulfide $1.0 \ U \ U$ $1.0 \ 0.14$ 56-23-5Carbon Tetrachloride $1.0 \ U$ $1.0 \ 0.10$ 108-90-7Chlorobenzene $1.0 \ U$ $1.0 \ 0.10$ 75-00-3Chloroform $1.0 \ U$ $1.0 \ 0.10$ 67-66-3Chloroform $1.0 \ U$ $1.0 \ 0.10$ 74-87-3Chloromethane $1.0 \ U$ $1.0 \ 0.12$ 156-59-2cis-1,2-Dichloroptene $1.0 \ U$ $1.0 \ 0.12$ 10061-01-5cis-1,3-Dichloroptene $1.0 \ U$ $1.0 \ 0.12$ 124-48-1Dibromochloromethane $1.0 \ U$ $1.0 \ 0.10$ 100-41-4Ethylbenzene $1.0 \ U$ $1.0 \ 0.10$ 87-68-3Hexachlorobutadiene $1.0 \ U$ $1.0 \ 0.10$				1.0	0.15	
74-83-9Bromomethane $1.0$ $U$ $1.0$ $0.23$ $75-15-0$ Carbon Disulfide $1.0$ $U$ $1.0$ $0.14$ $56-23-5$ Carbon Tetrachloride $1.0$ $U$ $1.0$ $0.10$ $108-90-7$ Chlorobenzene $1.0$ $U$ $1.0$ $0.10$ $75-00-3$ Chlorothane $1.0$ $U$ $1.0$ $0.10$ $67-66-3$ Chloroform $1.0$ $U$ $1.0$ $0.10$ $74-87-3$ Chloromethane $1.0$ $U$ $1.0$ $0.12$ $156-59-2$ cis- $1,2$ -Dichloropene $1.0$ $U$ $1.0$ $0.12$ $10061-01-5$ cis- $1,3$ -Dichloropropene $1.0$ $U$ $1.0$ $0.12$ $124-48-1$ Dibromochloromethane $1.0$ $U$ $1.0$ $0.10$ $100-41-4$ Ethylbenzene $1.0$ $U$ $1.0$ $0.10$ $87-68-3$ Hexachlorobutadiene $1.0$ $U$ $1.0$ $0.10$	75-27-4	Bromodichloromethane	-	1.0	0.10	
75-15-0Carbon Disulfide $1.0$ $U$ $1.0$ $0.14$ $56-23-5$ Carbon Tetrachloride $1.0$ $U$ $1.0$ $0.10$ $108-90-7$ Chlorobenzene $1.0$ $U$ $1.0$ $0.10$ $75-00-3$ Chloroethane $1.0$ $U$ $1.0$ $0.10$ $67-66-3$ Chloroform $1.0$ $U$ $1.0$ $0.10$ $74-87-3$ Chloromethane $1.0$ $U$ $1.0$ $0.12$ $156-59-2$ cis-1,2-Dichloroethene $1.0$ $U$ $1.0$ $0.10$ $10061-01-5$ cis-1,3-Dichloropropene $1.0$ $U$ $1.0$ $0.12$ $124-48-1$ Dibromochloromethane $1.0$ $U$ $1.0$ $0.10$ $100-41-4$ Ethylbenzene $1.0$ $U$ $1.0$ $0.10$ $87-68-3$ Hexachlorobutadiene $1.0$ $U$ $1.0$ $0.10$	75-25-2	Bromoform	1.0 UUJ	1.0	0.15	
56-23-5       Carbon Tetrachloride       1.0       U       1.0       0.10         108-90-7       Chlorobenzene       1.0       U       1.0       0.10         75-00-3       Chloroethane       1.0       U       1.0       0.10         67-66-3       Chloroform       1.0       U       1.0       0.10         74-87-3       Chloromethane       1.0       U       1.0       0.12         156-59-2       cis-1,2-Dichloroethene       1.0       U       1.0       0.10         10061-01-5       cis-1,3-Dichloropropene       1.0       U       1.0       0.12         10061-01-5       cis-1,3-Dichloropropene       1.0       U       1.0       0.10         100-41-4       Ethylbenzene       1.0       U       1.0       0.10         87-68-3       Hexachlorobutadiene       1.0       U       1.0       0.10	74-83-9	Bromomethane		1.0	0.23	
108-90-7Chlorobenzene1.0U1.00.1075-00-3Chloroethane1.0U1.00.1067-66-3Chloroform1.0U1.00.1074-87-3Chloromethane1.0U1.00.12156-59-2cis-1,2-Dichloroethene1.0U1.00.1010061-01-5cis-1,3-Dichloropropene1.0U1.00.12124-48-1Dibromochloromethane1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	75-15-0	Carbon Disulfide	1.0 UUS	1.0	0.14	
75-00-3Chloroethane1.0U1.00.1067-66-3Chloroform1.0U1.00.1074-87-3Chloromethane1.0U1.00.12156-59-2cis-1,2-Dichloroethene1.0U1.00.1010061-01-5cis-1,3-Dichloropropene1.0U1.00.12124-48-1Dibromochloromethane1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	56-23-5	Carbon Tetrachloride		1.0		
67-66-3Chloroform1.0U1.00.1074-87-3Chloromethane1.0U1.00.12156-59-2cis-1,2-Dichloroethene1.0U1.00.1010061-01-5cis-1,3-Dichloropropene1.0U1.00.12124-48-1Dibromochloromethane1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10						
74-87-3Chloromethane1.0U1.00.12156-59-2cis-1,2-Dichloroethene1.0U1.00.1010061-01-5cis-1,3-Dichloropropene1.0U1.00.12124-48-1Dibromochloromethane1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	75-00-3	Chloroethane	1.0 U	1.0	0.10	
156-59-2cis-1,2-Dichloroethene1.0U1.00.1010061-01-5cis-1,3-Dichloropropene1.0U1.00.12124-48-1Dibromochloromethane1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10						
10061-01-5       cis-1,3-Dichloropropene       1.0 U       1.0 0.12         124-48-1       Dibromochloromethane       1.0 U       1.0 0.10         100-41-4       Ethylbenzene       1.0 U       1.0 0.10         87-68-3       Hexachlorobutadiene       1.0 U       1.0 0.10						
124-48-1         Dibromochloromethane         1.0         U         1.0         0.10           100-41-4         Ethylbenzene         1.0         U         1.0         0.10           87-68-3         Hexachlorobutadiene         1.0         U         1.0         0.10	156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.10	
100-41-4         Ethylbenzene         1.0         U         1.0         0.10           87-68-3         Hexachlorobutadiene         1.0         U         1.0         0.10	10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0		
87-68-3 Hexachlorobutadiene 1.0 U 1.0 0.10	124-48-1	Dibromochloromethane	1.0 U	1.0	0.10	
	100-41-4	Ethylbenzene	1.0 U	1.0	0.10	
179601-23-1 m,p-Xylenes 1.0 U 1.0 0.12	87-68-3	Hexachlorobutadiene				
	179601-23-1	m,p-Xylenes	1.0 U	1.0	0.12	

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207266
Project:	GE MRFA/145599.01	Date Collected: 10/23/12 0000
Sample Matrix:	Water	<b>Date Received:</b> 10/24/12
		Date Analyzed: 10/30/12 20:11
Sample Name:	TRIP BLANK	Units: µg/L
Lab Code:	R1207266-012	Basis: NA

# Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103012\Z4061.D\

Analysis Lot: 316079 Instrument Name: R-MS-06 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
75-09-2	Dichloromethane (Methylene Chloride)	0.10 J	1.0	0.10	
95-47-6	o-Xylene	1.0 U	1.0	0.10	
100-42-5	Styrene	1.0 U	1.0	0.10	
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10	
108-88-3	Toluene	0.10 J	1.0	0.10	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.10	
79-01-6	Trichloroethene (TCE)	1.0 U	1.0	0.10	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.10	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.10	·

Surrogate Name	%Rec	Control Limits	Date Analyzed Q
4-Bromofluorobenzene	99	80-120	10/30/12 20:11

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Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request:	R1207266		
Project:	GE MRFA/145599.01	Date Collected:	10/23/12		
Sample Matrix:	Water	Date Received:	10/24/12		
		Date Analyzed:	10/30/12 2011		
	Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS				
Sample Name:	TRIP BLANK	Units:	μg/L		
Lab Code:	R1207266-012	Basis:			

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q
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No Tentatively Identified Compounds Detected.

**Comments:** 

Client: Project: Sample Matrix:	Shaw Environmental & Infrastructure, Inc. GE MRFA/145599.01 Water	Service Request: Date Collected: Date Received: Date Analyzed:	10/23/12 0000 10/24/12
Sample Name:	COOLER BLANK	Units:	
Lab Code:	R1207266-013	Basis:	

## Low Level Water Volatile Organic Compounds by GC/MS

<b>Analytical Method:</b>	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4071.D\

Analysis Lot: 316261 Instrument Name: R-MS-06

Data File Name,		1	Dilution Factor: 1		
CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6 79-34-5	1,1,1-Trichloroethane (TCA) 1,1,2,2-Tetrachloroethane	1.0 U 1.0 U	1.0 1.0	0.10 0.10	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.10	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.10	······································
75-35-4 87-61-6	1,1-Dichloroethene (1,1-DCE) 1,2,3-Trichlorobenzene	1.0 U 1.0 U	1.0	0.10	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.11	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U U U J	1.0	0.12	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.15	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.10	· · · · · · · · · · · · · · · · · · ·
95-50-1 78-87-5	1,2-Dichlorobenzene	1.0 U	1.0	0.10	
541-73-1	1,2-Dichloropropane	1.0 U	1.0	0.10	
106-46-7	1,3-Dichlorobenzene	1.0 U 1.0 U	1.0 1.0	0.10 0.10	
78-93-3	2-Butanone (MEK)	5.0 UUJ		1.1	
591-78-6	2-Hexanone	5.0 U	5.0	2.1	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.95	
67-64-1	Acetone	5.0 U U J	5.0	1.1	
71-43-2	Benzene	1.0 U	1.0	0.10	
74-97-5 75-27-4	Bromochloromethane Bromodichloromethane	1.0 U 1.0 U	1.0	0.15	
75-25-2	······································		1.0	0.10	
75-25-2 74-83-9	Bromoform Bromomethane	1.0 U Uニ 1.0 U	1.0 1.0	0.15 0.23	
75-15-0	Carbon Disulfide	1.0 U ·	1.0	0.23	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.10	
108-90-7	Chlorobenzene	1.0 U	1.0	0.10	
75-00-3	Chloroethane	1.0 U	1.0	0.10	
67-66-3	Chloroform	1.0 U	1.0	0.10	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.12	
124-48-1 100-41-4	Dibromochloromethane Ethylbenzene	1.0 U 1.0 U	1.0 1.0	0.10 0.10	
1 V V ⁻ 1 F ⁻		1.0 U	1.0	0.10	

Hexachlorobutadiene

m,p-Xylenes

87-68-3

179601-23-1

1.0 U

1.0 U

1.0

1.0

0.10

0.12

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R12072	66
Project:	GE MRFA/145599.01	Date Collected: 10/23/12	2 0000
Sample Matrix:	Water	Date Received: 10/24/12	2
		Date Analyzed: 10/31/12	2 13:13
Sample Name:	COOLER BLANK	Units: µg/L	
Lab Code:	R1207266-013	Basis: NA	

# Low Level Water Volatile Organic Compounds by GC/MS

<b>Analytical Method:</b>	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4071.D\

Analysis Lot: 316261 Instrument Name: R-MS-06

**Dilution Factor:** 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.10	
95-47-6	o-Xylene	1.0 U	1.0	0.10	
100-42-5	Styrene	1.0 U	1.0	0.10	
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10	
108-88-3	Toluene	1.0 U	1.0	0.10	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.10	
79-01-6	Trichloroethene (TCE)	1.0 U	1.0	0.10	
75-69 <b>-</b> 4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.10	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.10	

Surrogate Name	%Rec	Control Limits	Date Analyzed Q
4-Bromofluorobenzene	97	80-120	10/31/12 13:13

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Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

Service Request: R1207266 Date Collected: 10/23/12 Date Received: 10/24/12 Date Analyzed: 10/31/12 1313

## Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

Lab Code: Analytical Method:	R1207266-013 CLP-VOA OLC02.1			Basis: NA
CAS # Anal	yte Name	RT	Result Q	

No Tentatively Identified Compounds Detected.

**Comments:** 

Client: Project: Sample Matrix:	Shaw Environmental & Infras GE MRFA/145599.01 Water	tructure, Inc.		Service Request: Date Collected: Date Received: Date Analyzed:	10/23/12 0930 10/24/12
Sample Name: Lab Code:	M-25D R1207266-001			Units: Basis:	
		Dissolved Gases by (	GC/FID		
Analytical Method: Data File Name:	RSK 175 1007.run			Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02
CAS No.	Analyte Name	Result Q	MRL	Note	
74-84-0	Ethane	1.0 U	1.0		

Client: Project: Sample Matrix:	Shaw Environmental & Infra GE MRFA/145599.01 Water	astructure, Inc.			Service Request: Date Collected: Date Received: Date Analyzed:	10/23/12 1010 10/24/12
Sample Name: Lab Code:	M-29D R1207266-002				Units: Basis:	
		Dissolved Gases b	oy Ge	C/FID		
Analytical Method: Data File Name:	RSK 175 1008.run				Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02
CAS No.	Analyte Name	Result	Q	MRL	Note	
74-84-0	Ethane	1.0	U	1.0		

Client: Project: Sample Matrix:	Shaw Environmental & Infra GE MRFA/145599.01 Water	astructure, Inc.			Service Request: Date Collected: Date Received: Date Analyzed:	10/23/12 1040 10/24/12
Sample Name: Lab Code:	M-24DR R1207266-003				Units: Basis:	
		Dissolved Gases I	oy GC/F	ΊD		
Analytical Method: Data File Name:	RSK 175 1009.run				Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02
CAS No.	Analyte Name	Result	Q	MRL	Note	
74-84-0	Ethane	1.0	U	1.0		

Client: Project: Sample Matrix:	Shaw Environmental & Infra GE MRFA/145599.01 Water	structure, Inc.			Service Request: Date Collected: Date Received: Date Analyzed:	10/23/12 1120 10/24/12
Sample Name: Lab Code:	11D R1207266-004				Units: Basis:	
		Dissolved Gases t	oy GC/F	TID		
Analytical Method: Data File Name:	RSK 175 1013.run				Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02
CAS No.	Analyte Name	Result	Q	MRL	Note	
74-84-0	Ethane	1.0	U	1.0		

Client: Project: Sample Matrix:	Shaw Environmental & Infra GE MRFA/145599.01 Water	astructure, Inc.			Service Request: Date Collected: Date Received: Date Analyzed:	10/23/12 1200 10/24/12
Sample Name: Lab Code:	M-1 R1207266-005				Units: Basis:	
		Dissolved Gases I	oy GC	C/FID		
Analytical Method: Data File Name:	RSK 175 1014.run				Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02
CAS No.	Analyte Name	Result	Q	MRL	Note	
74-84-0	Ethane	1.0	U	1.0		

Client: Project: Sample Matrix:	Shaw Environmental & Infrast GE MRFA/145599.01 Water	ructure, Inc.		Service Request: Date Collected: Date Received: Date Analyzed:	10/23/12 1230 10/24/12
Sample Name: Lab Code:	MW-4 R1207266-006			Units: Basis:	
		Dissolved Gases by GC/F	ID		
Analytical Method: Data File Name:	RSK 175 1015.run			Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02
CAS No.	Analyte Name	Result Q	MRL	Note	

1.0 U

1.0

74-84-0

Ethane

Client: Project: Sample Matrix:	Shaw Environmental & Infra GE MRFA/145599.01 Water	structure, Inc.		Service Request: Date Collected: Date Received: Date Analyzed:	10/23/12 1330 10/24/12
Sample Name: Lab Code:	10S R1207266-007			Units: Basis:	
		Dissolved Gases by	GC/FID		
Analytical Method: Data File Name:	RSK 175 1016.run			Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02
CAS No.	Analyte Name	Result Q	MRI	L Note	
74-84-0	Ethane	1.0 U	1.0		

Client: Project: Sample Matrix:	Shaw Environmental & Infra GE MRFA/145599.01 Water	structure, Inc.			Service Request: Date Collected: Date Received: Date Analyzed:	10/23/12 1350 10/24/12
Sample Name: Lab Code:	M-28S R1207266-008				Units: Basis:	
		Dissolved Gases I	oy GC	C/FID		
Analytical Method: Data File Name:	RSK 175 1017.run				Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02
CAS No.	Analyte Name	Result	Q	MRL	Note	
74-84-0	Ethane	1.0	U	1.0		



Client: Project: Sample Matrix:	Shaw Environmental & Infra GE MRFA/145599.01 Water	astructure, Inc.			Service Request: Date Collected: Date Received: Date Analyzed:	10/23/12 1420 10/24/12
Sample Name: Lab Code:	13S R1207266-009				Units: Basis:	
		Dissolved Gases	oy GC	C/FID		
Analytical Method: Data File Name:	RSK 175 1018.run				Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02
CAS No.	Analyte Name	Result	Q	MRL	Note	
74-84-0	Ethane	1.0	U	1.0		

Client: Project: Sample Matrix:	Shaw Environmental & Infras GE MRFA/145599.01 Water	tructure, Inc.			Service Request: Date Collected: Date Received: Date Analyzed:	10/23/12 1450 10/24/12
Sample Name: Lab Code:	13D R1207266-010				Units: Basis:	
		Dissolved Gases b	y GC/FID			
Analytical Method: Data File Name:	RSK 175 1019.run				Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02
CAS No.	Analyte Name	Result	Q	MRL	Note	
74-84-0	Ethane	1.0	U	1.0		

Client: Project: Sample Matrix:	Shaw Environmental & Infra: GE MRFA/145599.01 Water	structure, Inc.			Service Request: Date Collected: Date Received: Date Analyzed:	10/23/12 10/24/12
Sample Name: Lab Code:	DUPB R1207266-011				Units: Basis:	· •
		Dissolved Gases b	y GC/FII	)		
Analytical Method: Data File Name:	RSK 175 1020.run				Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02
CAS No.	Analyte Name	Result	Q	MRL	Note	
74-84-0	Ethane	1.0	U	1.0		

# Columbia Analytical Services

# METALS -1-INORGANIC ANALYSIS DATA SHEET

		INORGANIC ANALYSIS DATA SHEET	SAMPLE NO.	
Contract:	<b>P1207066</b>		13D	
contract:	R1207266			
Lab Code:	Case No.:	SAS No.:	SDG NO.: M-25D	
Matrix (soi)	l/water): WATER	Lab Sample ID:	R1207266-010	•
Level (low/n	ned): LOW	Date Received:	10/24/2012	

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	С	Q	м
7440-47-3	Chromium	6.6	J		P

Color Before:	COLORLESS	Clarity Before:	CLEAR	Texture:	
Color After:	COLORLESS	Clarity After:	CLEAR	Artifacts:	
Comments:			·····		
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#### COLUMBIA ANALYTICAL SERVICES, INC. Now part of the ALS Group

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Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

Service Request: R1207266 Date Collected: NA Date Received: NA

Sample Name:Method BlankLab Code:R1207266-MB

Basis: NA

# **General Chemistry Parameters**

Analyte Name	Method	Result Q	Units	MRL	Dilution Date Date Factor Extracted Analyzed Note
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1 NA 10/24/12 12:42

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207283
Project:	GE MRFA/145599.01	Date Collected: 10/24/12 0930
Sample Matrix:	Water	Date Received: 10/25/12
		Date Analyzed: 10/31/12 13:46
Sample Name:	DGC-4S	Units: µg/L
Lab Code:	R1207283-001	Basis: NA

## Low Level Water Volatile Organic Compounds by GC/MS

<b>Analytical Method:</b>	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4072.D\

Analysis Lot: 316261 Instrument Name: R-MS-06

Dilution Factor: 1

71-55-6       1,1,1-Trichloroethane (TCA)       1.0       U       1.0       0.10         73-34-5       1,1,2,2-Tertachloroethane       1.0       U       1.0       0.11         75-34-3       1,1-Dichloroethane (1,1-DCA)       1.0       U       1.0       0.11         75-34-3       1,1-Dichloroethane (1,1-DCA)       1.0       U       1.0       0.11         75-35-4       1,1-Dichloroethane (1,1-DCE)       1.0       U       1.0       0.11         120-82-1       1,2,4-Trichloroethane       1.0       U       1.0       0.12         96-12-8       1,2-Dichloroethane       1.0       U       1.0       0.12         106-93-4       1,2-Dichloroethane       1.0       U       1.0       0.10         95-50-1       1,2-Dichloroethane       1.0       U       1.0       0.10         95-75       1,2-Dichloroethane       1.0       U       1.0       0.10         78-87-5       1,2-Dichloroethane       1.0       U       1.0       0.10         78-93-3       2-Butanone (MEK)       5.0       U       5.0       1.1         91-78-6       2-Hexanote       5.0       U       5.0       1.1         71-43-2	CAS No.	Analyte Name	Result Q	MRL	MDL	Note
79-00-5       I,1,2-Trichloroethane       1.0       U       1.0       0.11         75-34-3       1,1-Dichloroethane (1,1-DCA)       1.0       U       1.0       0.10         75-354       1,1-Dichloroethane (1,1-DCE)       1.0       U       1.0       0.11         120-82-1       1,2,4-Trichlorobenzene       1.0       U       1.0       0.12         96-12-8       1,2-Dichoroethane       1.0       U       1.0       0.15         106-93-4       1,2-Dichoroethane       1.0       U       1.0       0.10         95-50-1       1,2-Dichloroethane       1.0       U       1.0       0.10         95-75       1,2-Dichlorobenzene       1.0       U       1.0       0.10         95-75       1,2-Dichlorobenzene       1.0       U       1.0       0.10         78-87-5       1,2-Dichlorobenzene       1.0       U       1.0       0.10         78-93-3       2-Butanone (MEK)       5.0       U       5.0       1.1         91-78-6       2-Hexanone       5.0       U       5.0       0.1         91-78-7       Bromochloromethane       1.0       U       1.0       0.10         74-47-5       Bromochlorometh	71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.10	
75-34-3       1,1-Dichloroethane (1,1-DCA)       1.0       U       1.0       0.10         75-35-4       1,1-Dichloroethane (1,1-DCE)       1.0       U       1.0       0.11         87-61-6       1,2,3-Trichlorobenzene       1.0       U       1.0       0.11         96-12-8       1,2-Dibrome-3-chloropropane (DBCP)       1.0       U/LS       1.0       0.24         96-12-8       1,2-Dibrome-3-chloropropane (DBCP)       1.0       U/LS       1.0       0.12         95-50-1       1,2-Dichloroethane       1.0       U       1.0       0.10         95-50-1       1,2-Dichlorobenzene       1.0       U       1.0       0.10         541-73-1       1,3-Dichlorobenzene       1.0       U       1.0       0.10         547-73-1       1,3-Dichlorobenzene       1.0       U       1.0       0.10         547-1       Actione (MEK)       5.0       U       5.0       1.1	79-34-5		1.0 U	1.0	0.10	
75-35-4       1,1-Dichloroethene (1,1-DCE)       1.0       U       1.0       0.10         87-61-6       1,2,3-Trichlorobenzene       1.0       U       1.0       0.11         120-82-1       1,2,4-Trichlorobenzene       1.0       U       1.0       0.12         96-12-8       1,2-Dibromo-3-chloropropane (DBCP)       1.0       U U       1.0       0.24         106-93-4       1,2-Dibromo-thane       1.0       U       1.0       0.10         95-50-1       1,2-Dichlorobenzene       1.0       U       1.0       0.10         95-50-1       1,2-Dichlorobenzene       1.0       U       1.0       0.10         78-87-5       1,2-Dichlorobenzene       1.0       U       1.0       0.10         106-46-7       1,4-Dichlorobenzene       1.0       U       1.0       0.10         78-93-3       2-Butanone (MEK)       5.0       U       5.0       1.1         591-78-6       2-Hexanone       5.0       U       5.0       1.1         71-43-2       Benzene       1.0       U       1.0       0.10         75-27-4       Bromodichloromethane       1.0       U       1.0       0.10         75-25-2       Bromof	79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.11	
87-61-6       1,2,3-Trichlorobenzene       1.0       U       1.0       0.11         120-82-1       1,2,4-Trichlorobenzene       1.0       U       1.0       0.12         96-12-8       1,2-Dibromo-3-chloropropane (DBCP)       1.0       U/J       1.0       0.24         106-93-4       1,2-Dibromoethane       1.0       U       1.0       0.15         107-06-2       1,2-Dichloroethane       1.0       U       1.0       0.10         95-50-1       1,2-Dichloropropane       1.0       U       1.0       0.10         78-87-5       1,2-Dichlorobenzene       1.0       U       1.0       0.10         541-73-1       1,3-Dichlorobenzene       1.0       U       1.0       0.10         78-87-5       1,2-Dichlorobenzene       1.0       U       1.0       0.10         78-93-3       2-Butanone (MEK)       5.0       U/L       5.0       1.1         591-78-6       2-Hexanone       5.0       U       5.0       1.1         108-10-1       4-Methyl-2-pentanone       1.0       U       1.0       0.10         75-27-4       Bromodichloromethane       1.0       U       1.0       0.15         75-27-2 <td< td=""><td>75-34-3</td><td>1,1-Dichloroethane (1,1-DCA)</td><td>1.0 U</td><td>1.0</td><td>0.10</td><td></td></td<>	75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.10	
120-82-11,2,4-Trichlorobenzene1.0U1.00.1296-12-81,2-Dibromo-3-chloropropane (DBCP)1.0U/JJ1.00.24106-93-41,2-Dibromethane1.0U1.00.15107-06-21,2-Dichloroethane1.0U1.00.1095-50-11,2-Dichloropropane1.0U1.00.1078-87-51,2-Dichlorobenzene1.0U1.00.10541-73-11,3-Dichlorobenzene1.0U1.00.10544-671,4-Dichlorobenzene1.0U1.00.1078-93-32-Butanone (MEK)5.0U/JJ5.01.1591-78-62-Hexanone5.0U/JJ5.00.9567-64-1Acetone1-2+4 5.0 4J5.01.171-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1075-25-2Bromochloromethane1.0U1.00.1374-83-9Bromochloromethane1.0U1.00.1456-23-5Carbon Disulfde1.0U1.00.1075-63Chloroform1.0U1.00.1075-03-7Chloroform1.0U1.00.1075-15-0Carbon Disulfde1.0U1.00.1075-15-0Carbon Tetrachloride1.0U1.00.1075-03-7Chloroform1.0U1.00.	75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.10	
96-12-81.2 Dibromo-3-chloropropane (DBCP)1.0UU00.24106-93-41,2-Dibromoethane1.0U1.00.15107-06-21,2-Dichlorobenzene1.0U1.00.1095-50-11,2-Dichlorobenzene1.0U1.00.1078-87-51,2-Dichlorobenzene1.0U1.00.10541-73-11,3-Dichlorobenzene1.0U1.00.10541-73-21,4-Dichlorobenzene1.0U1.00.1059-78-62-Hexanone5.0U5.01.1591-78-62-Hexanone5.0U5.00.9567-64-1Acetone1-2+5,05.01.171-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1575-27-4Bromochloromethane1.0U1.00.1675-25-2Bromochloromethane1.0U1.00.1675-15-0Carbon Disulfide1.0U1.00.1075-0-3Chlorobenzene1.0U1.00.1075-0-3Chlorobenzene1.0U1.00.1075-15-0Carbon Disulfide1.0U1.00.1076-63Chlorobenzene1.0U1.00.1076-63Chlorobenzene1.0U1.00.1075-15-0Carbon Disulfide1.0U1.00.10 <tr< td=""><td>87-61-6</td><td>1,2,3-Trichlorobenzene</td><td>1.0 U</td><td>1.0</td><td>0.11</td><td></td></tr<>	87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
106-93-41,2-Dibromoethane1.0U1.00.15107-06-21,2-Dichlorobenzene1.0U1.00.1095-50-11,2-Dichloropropane1.0U1.00.1078-87-51,2-Dichlorobenzene1.0U1.00.10106-46-71,4-Dichlorobenzene1.0U1.00.10106-46-71,4-Dichlorobenzene1.0U1.00.1078-93-32-Butanone (MEK)5.0U5.02.1108-10-14-Methyl-2-pentanone5.0U5.00.9567-64-1Acetone1.2 + 5.0 + 5.01.11.171-43-2Benzene1.0U1.00.1074-97-5Bromodichloromethane1.0U1.00.1575-27-4Bromodichloromethane1.0U1.00.1575-25-2Bromodichloromethane1.0U1.00.1456-23-5Carbon Disulfide1.0U1.00.1075-00-3Chlorobenzene1.0U1.00.1075-03-3Chlorobenzene1.0U1.00.1075-04-3Chlorobenzene1.0U1.00.1075-05-2carbon Disulfide1.0U1.00.1075-06-3Chlorobenzene1.0U1.00.1075-07-4Chorobenzene1.0U1.00.1075-15-0Carbon Disulfide1.0U1.00.10 </td <td>120-82-1</td> <td>1,2,4-Trichlorobenzene</td> <td></td> <td>1.0</td> <td>0.12</td> <td></td>	120-82-1	1,2,4-Trichlorobenzene		1.0	0.12	
107-06-21,2-Dichloroethane1.0U1.00.1095-50-11,2-Dichloroptopane1.0U1.00.1078-87-51,2-Dichloroptopane1.0U1.00.10541-73-11,3-Dichlorobenzene1.0U1.00.10541-73-11,3-Dichlorobenzene1.0U1.00.1078-93-32-Butanone (MEK)5.0U/L5.01.1591-78-62-Hexanone5.0U/L5.02.1108-10-14-Methyl-2-pentanone5.0U/L5.01.171-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1075-25-2Bromochloromethane1.0U1.00.1275-15-0Carbon Disulfide1.0U1.00.1075-03Chlorobenzene1.0U1.00.1075-03-3Chloroethane1.0U1.00.1075-15-0Carbon Disulfide1.0U1.00.1075-15-0Carbon Tetrachloride1.0U1.00.1075-03-3Chloroethane1.0U1.00.1075-15-0Carbon Tetrachloride1.0U1.00.1075-15-0Carbon Disulfide1.0U1.00.1075-15-0Carbon Tetrachloride1.0U1.00.1075-15-2Cis-1,3-Dichloroptopene1.0U1.0 </td <td>96-12-8</td> <td>1,2-Dibromo-3-chloropropane (DBCP)</td> <td>1.0 U UJ</td> <td>1.0</td> <td>0.24</td> <td></td>	96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U UJ	1.0	0.24	
95:50-11,2-Dichlorobenzene1.0U1.00.1078:87:51,2-Dichloropropane1.0U1.00.10541:73:11,3-Dichlorobenzene1.0U1.00.10106:46-71,4-Dichlorobenzene1.0U1.00.1078:93:32-Butanone (MEK)5.0U/CS5.01.1591:78:62-Hexanone5.0U5.00.9567:64:1Acetone $12 \pm 7 5 \circ 45$ 5.01.171:43:2Benzene1.0U1.00.1075:27:4Bromochloromethane1.0U1.00.1575:27:4Bromodichloromethane1.0U1.00.1574:83-9Bromomethane1.0U1.00.1456:23-5Carbon Disulfide1.0U1.00.1067:66-3Chloromethane1.0U1.00.1067:66-3Chloromethane1.0U1.00.1067:66-3Chloromethane1.0U1.00.1067:66-3Chloromethane1.0U1.00.1067:66-3Chloromethane1.0U1.00.1075:00-2cis-1,3-Dichloroptopene1.0U1.00.10100:61:01-5cis-1,3-Dichloroptopene1.0U1.00.10100:61:01-5cis-1,3-Dichloroptopene1.0U1.00.10100:61:01-5cis-1,3-Dichloroptopene1.0U1.0 </td <td>106-93-4</td> <td>1,2-Dibromoethane</td> <td>1.0 U</td> <td>1.0</td> <td>0.15</td> <td></td>	106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.15	
78-87-51,2-Dichloropropane1.0U1.00.10541-73-11,3-Dichlorobenzene1.0U1.00.10106-46-71,4-Dichlorobenzene1.0U1.00.1078-93-32-Butanone (MEK)5.0UU5.01.1591-78-62-Hexanone5.0U5.00.9567-64-1Acetone $1-2+5, \mathcal{O}, \mathcal{U}$ 5.01.171-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1075-25-2Bromodichloromethane1.0U1.00.1575-15-0Carbon Disulfide1.0U1.00.2375-15-0Carbon Disulfide1.0U1.00.1075-03Chlorobenzene1.0U1.00.1074-87-3Chloromethane1.0U1.00.1075-15-0Carbon Disulfide1.0U1.00.1075-0-3Chlorobenzene1.0U1.00.1074-87-3Chlorobenzene1.0U1.00.1075-15-0Carbon Disulfide1.0U1.00.1075-10-1Carbon Disulfide1.0U1.00.1075-00-3Chlorobenzene1.0U1.00.1074-87-3Chlorobenzene1.0U1.00.101061-01-5cis-1,3-Dichloropropene1.0U1.00.10 <tr<< td=""><td>107-06-2</td><td>1,2-Dichloroethane</td><td>1.0 U</td><td>1.0</td><td>0.10</td><td></td></tr<<>	107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.10	
541-73-11,3-Dichlorobenzene1.0U1.00.10106-46-71,4-Dichlorobenzene1.0U1.00.1078-93-32-Butanone (MEK)5.0U5.01.1591-78-62-Hexanone5.0U5.02.1108-10-14-Methyl-2-pentanone5.0U5.00.9567-64-1Acetone $1+2+550$ 405.01.171-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1075-27-4Bromodichloromethane1.0U1.00.1575-25-2Bromodichloromethane1.0U1.00.1574-83-9Bromomethane1.0U1.00.1075-15-0Carbon Disulfide1.0U1.00.10108-90-7Chlorobenzene1.0U1.00.1075-03Chloromethane1.0U1.00.1074-87-3Chloromethane1.0U1.00.1075-92-2cis-1,2-Dichloropepen1.0U1.00.101061-01-5cis-1,3-Dichloroppene1.0U1.00.101064-10-5cis-1,3-Dichloroppene1.0U1.00.101004-1-4Ethylbenzene1.0U1.00.10104-14Ethylbenzene1.0U1.00.10	95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.10	
106-46-71,4-Dichlorobenzene1.0U1.00.1078-93-32-Butanone (MEK)5.0U5.01.1591-78-62-Hexanone5.0U5.02.1108-10-14-Methyl-2-pentanone5.0U5.00.9567-64-1Acetone $1-2+5,0$ U5.01.171-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1575-27-4Bromodichloromethane1.0U1.00.1574-83-9Bromomethane1.0U1.00.1456-23-5Carbon Disulfide1.0U1.00.10108-90-7Chlorobenzene1.0U1.00.1075-66-3Chloroform1.0U1.00.1074-87-3Chloroform1.0U1.00.1074-87-3Chloroform1.0U1.00.1075-66-3Chloroform1.0U1.00.1074-87-3Chloroforme1.0U1.00.101061-01-5cis-1,3-Dichloropropene1.0U1.00.12124-48-1Dibromochloromethane1.0U1.00.101004-14Ethylbenzene1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.10	78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
106-46-71,4-Dichlorobenzene1.0U1.00.1078-93-32-Butanone (MEK)5.0U5.01.1591-78-62-Hexanone5.0U5.02.1108-10-14-Methyl-2-pentanone5.0U5.00.9567-64-1Acetone $1-2+550$ 425.01.171-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1575-27-4Bromodichloromethane1.0U1.00.1574-83-9Bromomethane1.0U1.00.1456-23-5Carbon Disulfide1.0U1.00.10108-90-7Chlorobenzene1.0U1.00.1075-66-3Chloroform1.0U1.00.1074-87-3Chloroform1.0U1.00.1075-65-2cis-1,2-Dichloropenee1.0U1.00.10106-101-5cis-1,3-Dichloropropene1.0U1.00.12124-48-1Dibromochloromethane1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.10	541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.10	
S91-78-62-Hexanone5.0U5.02.1108-10-14-Methyl-2-pentanone5.0U5.00.9567-64-1Acetone $1\cdot2-f$ , 5.0U5.01.171-43-2Benzene1.0U1.00.1074-97-5Bromochloromethane1.0U1.00.1575-27-4Bromodichloromethane1.0U1.00.1075-25-2Bromomothane1.0U1.00.1574-83-9Bromomethane1.0U1.00.1456-23-5Carbon Disulfide1.0U1.00.1075-00-3Chlorobenzene1.0U1.00.1067-66-3Chloromethane1.0U1.00.1067-66-3Chloroform1.0U1.00.1074-87-3Chloromethane1.0U1.00.10156-59-2cis-1,3-Dichloropropene1.0U1.00.12124-48-1Dibromochloromethane1.0U1.00.10100-11-5cis-1,3-Dichloropropene1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.10	106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.10	
108-10-14-Methyl-2-pentanone $5.0$ $U$ $5.0$ $0.95$ 67-64-1Acetone $1.2-5$ $5.0$ $1.1$ 71-43-2Benzene $1.0$ $U$ $1.0$ $0.10$ 74-97-5Bromochloromethane $1.0$ $U$ $1.0$ $0.15$ 75-27-4Bromodichloromethane $1.0$ $U$ $1.0$ $0.15$ 75-25-2Bromoform $1.0$ $U$ $1.0$ $0.15$ 74-83-9Bromomethane $1.0$ $U$ $1.0$ $0.13$ 75-15-0Carbon Disulfide $1.0$ $U$ $1.0$ $0.14$ 56-23-5Carbon Tetrachloride $1.0$ $U$ $1.0$ $0.10$ 75-00-3Chlorobenzene $1.0$ $U$ $1.0$ $0.10$ 75-60-3Chloroform $1.0$ $U$ $1.0$ $0.10$ 75-60-3Chloroform $1.0$ $U$ $1.0$ $0.10$ 75-69-2cis-1,2-Dichloroethene $1.0$ $U$ $1.0$ $0.12$ 10061-01-5cis-1,3-Dichloropropene $1.0$ $U$ $1.0$ $0.10$ 10061-01-5cis-1,3-Dichloropropene $1.0$ $U$ $1.0$ $0.10$ 100-11-4Ethylbenzene $1.0$ $U$ $1.0$ $0.10$ 100-41-4Ethylbenzene $1.0$ $U$ $1.0$ $0.10$	78-93-3	2-Butanone (MEK)	5.0 UV5	5.0	1.1	
67-64-1Acetone $1-2-5$ 5.0 U $1.1$ $71-43-2$ Benzene $1.0$ U $1.0$ 0.10 $74-97-5$ Bromochloromethane $1.0$ U $1.0$ 0.15 $75-27-4$ Bromodichloromethane $1.0$ U $1.0$ 0.15 $75-27-4$ Bromodichloromethane $1.0$ U $1.0$ 0.10 $75-25-2$ Bromomethane $1.0$ U $1.0$ 0.15 $74-83-9$ Bromomethane $1.0$ U $1.0$ 0.23 $75-15-0$ Carbon Disulfide $1.0$ U $1.0$ 0.14 $56-23-5$ Carbon Tetrachloride $1.0$ U $1.0$ 0.10 $108-90-7$ Chlorobenzene $1.0$ U $1.0$ 0.10 $75-00-3$ Chloroform $1.0$ U $1.0$ 0.10 $67-66-3$ Chloroform $1.0$ U $1.0$ 0.10 $74-87-3$ Chloromethane $1.0$ U $1.0$ 0.12 $156-59-2$ cis- $1,2$ -Dichloropenpene $1.0$ U $1.0$ 0.12 $10061-01-5$ cis- $1,3$ -Dichloropropene $1.0$ U $1.0$ 0.10 $100-11-5$ cis- $1,3$ -Dichloropenpene $1.0$ U $1.0$ 0.10 $100-11-4$ Ethylbenzene $1.0$ U $1.0$ 0.10 $100-41-4$ Ethylbenzene $1.0$ U $1.0$ 0.10	591-78-6	2-Hexanone	5.0 U	5.0	2.1	
67-64-1Acetone $1-2-5$ , $5, 0$ $2.5$ $1.1$ $71-43-2$ Benzene $1.0$ U $1.0$ 0.10 $74-97-5$ Bromochloromethane $1.0$ U $1.0$ 0.15 $75-27-4$ Bromodichloromethane $1.0$ U $1.0$ 0.10 $75-25-2$ Bromoform $1.0$ U $1.0$ 0.15 $74-83-9$ Bromomethane $1.0$ U $1.0$ 0.23 $75-15-0$ Carbon Disulfide $1.0$ U $1.0$ 0.14 $56-23-5$ Carbon Tetrachloride $1.0$ U $1.0$ 0.10 $108-90-7$ Chlorobenzene $1.0$ U $1.0$ 0.10 $75-00-3$ Chloroform $1.0$ U $1.0$ 0.10 $67-66-3$ Chloroform $1.0$ U $1.0$ 0.10 $74-87-3$ Chloromethane $1.0$ U $1.0$ 0.10 $10061-01-5$ cis-1,3-Dichloropropene $1.0$ U $1.0$ 0.12 $10061-01-5$ cis-1,3-Dichloropropene $1.0$ U $1.0$ 0.10 $100-41-4$ Ethylbenzene $1.0$ U $1.0$ 0.10 $87-68-3$ Hexachlorobutadiene $1.0$ U $1.0$ 0.10	108-10-1	4-Methyl-2-pentanone			0.95	
74-97-5Bromochloromethane1.0U1.00.1575-27-4Bromodichloromethane1.0U1.00.1075-25-2Bromoform1.0U1.00.1574-83-9Bromomethane1.0U1.00.2375-15-0Carbon Disulfide1.0U1.00.1456-23-5Carbon Tetrachloride1.0U1.00.10108-90-7Chlorobenzene1.0U1.00.1075-00-3Chlorothane1.0U1.00.1067-66-3Chloroform1.0U1.00.1074-87-3Chlorothane1.0U1.00.12156-59-2cis-1,2-Dichloroethene1.0U1.00.1010061-01-5cis-1,3-Dichloropropene1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	67-64-1		1 <del>.2-7</del> 5.0 UT	5.0	1.1	
75-27-4Bromodichloromethane1.0U1.00.1075-25-2Bromoform1.0UU1.00.1574-83-9Bromomethane1.0U1.00.2375-15-0Carbon Disulfide1.0U1.00.1456-23-5Carbon Tetrachloride1.0U1.00.10108-90-7Chlorobenzene1.0U1.00.1075-00-3Chloroethane1.0U1.00.1067-66-3Chloroform1.0U1.00.1074-87-3Chloromethane1.0U1.00.101061-01-5cis-1,2-Dichloroethene1.0U1.00.1010061-01-5cis-1,3-Dichloropropene1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	71-43-2	Benzene	1.0 U	1.0	0.10	
75-25-2Bromoform1.0UUI.00.1574-83-9Bromomethane1.0U1.00.2375-15-0Carbon Disulfide1.0U1.00.1456-23-5Carbon Tetrachloride1.0U1.00.10108-90-7Chlorobenzene1.0U1.00.1075-00-3Chloroethane1.0U1.00.1067-66-3Chloroform1.0U1.00.1074-87-3Chloromethane1.0U1.00.12156-59-2cis-1,2-Dichloroptopene1.0U1.00.1210061-01-5cis-1,3-Dichloroptopene1.0U1.00.10100-41-4Ethylbenzene1.0U1.00.1087-68-3Hexachlorobutadiene1.0U1.00.10	74-97-5	Bromochloromethane	1.0 U	1.0	0.15	
74-83-9Bromomethane1.0U1.00.23 $75-15-0$ Carbon Disulfide1.0U1.00.14 $56-23-5$ Carbon Tetrachloride1.0U1.00.10 $108-90-7$ Chlorobenzene1.0U1.00.10 $75-00-3$ Chlorothane1.0U1.00.10 $67-66-3$ Chloroform1.0U1.00.10 $74-87-3$ Chloromethane1.0U1.00.12 $156-59-2$ cis-1,2-Dichloroethene1.0U1.00.10 $10061-01-5$ cis-1,3-Dichloropropene1.0U1.00.12 $124-48-1$ Dibromochloromethane1.0U1.00.10 $100-41-4$ Ethylbenzene1.0U1.00.10 $87-68-3$ Hexachlorobutadiene1.0U1.00.10	75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
74-83-9Bromomethane1.0U1.00.23 $75-15-0$ Carbon Disulfide1.0U1.00.14 $56-23-5$ Carbon Tetrachloride1.0U1.00.10 $108-90-7$ Chlorobenzene1.0U1.00.10 $75-00-3$ Chlorothane1.0U1.00.10 $67-66-3$ Chloroform1.0U1.00.10 $74-87-3$ Chloromethane1.0U1.00.12 $156-59-2$ cis-1,2-Dichloroethene1.0U1.00.10 $10061-01-5$ cis-1,3-Dichloropropene1.0U1.00.12 $124-48-1$ Dibromochloromethane1.0U1.00.10 $100-41-4$ Ethylbenzene1.0U1.00.10 $87-68-3$ Hexachlorobutadiene1.0U1.00.10	75-25-2	Bromoform	1.0 UUJ	1.0	0.15	
56-23-5       Carbon Tetrachloride       1.0       U       1.0       0.10         108-90-7       Chlorobenzene       1.0       U       1.0       0.10         75-00-3       Chloroethane       1.0       U       1.0       0.10         67-66-3       Chloroform       1.0       U       1.0       0.10         74-87-3       Chloromethane       1.0       U       1.0       0.12         156-59-2       cis-1,2-Dichloroethene       1.0       U       1.0       0.10         10061-01-5       cis-1,3-Dichloropropene       1.0       U       1.0       0.12         124-48-1       Dibromochloromethane       1.0       U       1.0       0.10         100-41-4       Ethylbenzene       1.0       U       1.0       0.10         87-68-3       Hexachlorobutadiene       1.0       U       1.0       0.10		Bromomethane		1.0	0.23	
108-90-7Chlorobenzene $1.0$ $1.0$ $0.10$ $75-00-3$ Chloroethane $1.0$ $1.0$ $0.10$ $67-66-3$ Chloroform $1.0$ $1.0$ $0.10$ $74-87-3$ Chloromethane $1.0$ $1.0$ $0.12$ $156-59-2$ cis-1,2-Dichloroethene $1.0$ $1.0$ $0.10$ $10061-01-5$ cis-1,3-Dichloropropene $1.0$ $1.0$ $0.12$ $10061-01-5$ cis-1,3-Dichloropropene $1.0$ $1.0$ $0.12$ $10-41-4$ Ethylbenzene $1.0$ $1.0$ $0.10$ $87-68-3$ Hexachlorobutadiene $1.0$ $1.0$ $0.10$	75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
108-90-7Chlorobenzene $1.0$ $1.0$ $0.10$ $75-00-3$ Chloroethane $1.0$ $1.0$ $0.10$ $67-66-3$ Chloroform $1.0$ $1.0$ $0.10$ $74-87-3$ Chloromethane $1.0$ $1.0$ $0.12$ $156-59-2$ cis-1,2-Dichloroethene $1.0$ $1.0$ $0.10$ $10061-01-5$ cis-1,3-Dichloropropene $1.0$ $1.0$ $0.12$ $10061-01-5$ cis-1,3-Dichloropropene $1.0$ $1.0$ $0.12$ $10-41-4$ Ethylbenzene $1.0$ $1.0$ $0.10$ $87-68-3$ Hexachlorobutadiene $1.0$ $1.0$ $0.10$	56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.10	
			1.0 U	1.0	0.10	
74-87-3       Chloromethane       1.0       U       1.0       0.12         156-59-2       cis-1,2-Dichloroethene       1.0       U       1.0       0.10         10061-01-5       cis-1,3-Dichloropropene       1.0       U       1.0       0.12         124-48-1       Dibromochloromethane       1.0       U       1.0       0.10         100-41-4       Ethylbenzene       1.0       U       1.0       0.10         87-68-3       Hexachlorobutadiene       1.0       U       1.0       0.10	75-00-3	Chloroethane	1.0 U	1.0	0.10	
156-59-2       cis-1,2-Dichloroethene       1.0       1.0       0.10         10061-01-5       cis-1,3-Dichloropropene       1.0       U       1.0       0.12         124-48-1       Dibromochloromethane       1.0       U       1.0       0.10         100-41-4       Ethylbenzene       1.0       U       1.0       0.10         87-68-3       Hexachlorobutadiene       1.0       U       1.0       0.10	67-66-3	Chloroform	1.0 U	1.0	0.10	
10061-01-5       cis-1,3-Dichloropropene       1.0 U       1.0 0.12         124-48-1       Dibromochloromethane       1.0 U       1.0 0.10         100-41-4       Ethylbenzene       1.0 U       1.0 0.10         87-68-3       Hexachlorobutadiene       1.0 U       1.0 0.10	74-87-3	Chloromethane	1.0 U	1.0	0.12	
124-48-1     Dibromochloromethane     1.0     U     1.0     0.10       100-41-4     Ethylbenzene     1.0     U     1.0     0.10       87-68-3     Hexachlorobutadiene     1.0     U     1.0     0.10	156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.10	
124-48-1         Dibromochloromethane         1.0         U         1.0         0.10           100-41-4         Ethylbenzene         1.0         U         1.0         0.10           87-68-3         Hexachlorobutadiene         1.0         U         1.0         0.10	10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.12	
100-41-4         Ethylbenzene         1.0         1.0         0.10           87-68-3         Hexachlorobutadiene         1.0         U         1.0         0.10		· · · ·	1.0 U	1.0	0.10	
		Ethylbenzene	1.0 U	1.0	0.10	
	87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	
			1.0 U	1.0	0.12	

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207283
Project:	GE MRFA/145599.01	Date Collected: 10/24/12 0930
Sample Matrix:	Water	<b>Date Received:</b> 10/25/12
		Date Analyzed: 10/31/12 13:46
Sample Name:	DGC-4S	Units: µg/L
Lab Code:	R1207283-001	Basis: NA

# Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4072.D\

Analysis Lot: 316261 Instrument Name: R-MS-06 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
75-09-2	Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.10	
95-47-6	o-Xylene	1.0	U	1.0	0.10	
100-42-5	Styrene	1.0	U	1.0	0.10	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	0.10	
108-88-3	Toluene	1.0	U	1.0	0.10	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.10	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.10	
79-01-6	Trichloroethene (TCE)	1.0	U	1.0	0.10	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.10	
75-01-4	Vinyl Chloride	1.0	U	1.0	0.10	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	80-120	10/31/12 13:46	

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Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

 Service Request:
 R1207283

 Date Collected:
 10/24/12

 Date Received:
 10/25/12

 Date Analyzed:
 10/31/12

## Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

Sample Name: Lab Code:	DGC-4S R1207283-001			Units: Basis:	
Analytical Metho	od: CLP-VOA OLC02.1				
CAS # A	analyte Name	RT	Result Q		

No Tentatively Identified Compounds Detected.

**Comments:** 

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Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207283
Project:	GE MRFA/145599.01	Date Collected: 10/24/12 1000
Sample Matrix:	Water	<b>Date Received:</b> 10/25/12
		Date Analyzed: 10/31/12 14:21
Sample Name:	SW-A	Units: µg/L
Lab Code:	R1207283-002	Basis: NA

## Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: Data File Name:	CLP-VOA OLC02.1 I:\ACQUDATA\MSVOA6\DATA\1031				Analysis Lot: 316261 Instrument Name: R-MS-06 Dilution Factor: 1		
CAS No.	Analyte Name	Result Q	MRL	MDL	Note		
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.10			
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.10			
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.11			
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.10			
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.10			
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11			
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.12			
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 UUJ	1.0	0.24			
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.15			
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.10			
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.10			
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10			
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.10			
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.10			
78-93-3	2-Butanone (MEK)	5.0 UVゴ	5.0	1.1			
591-78-6	2-Hexanone	5.0 U	5.0	2.1			
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.95			
67-64-1	Acetone	5.0 UUS	5.0	1.1			
71-43-2	Benzene	1.0 U	1.0	0.10			
74-97-5	Bromochloromethane	1.0 U	1.0	0.15			
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10			
75-25-2	Bromoform	1.0 UUJ	1.0	0.15			
74-83-9	Bromomethane	1.0 U	1.0	0.23			
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14			
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.10			
108-90-7	Chlorobenzene	1.0 U	1.0	0.10			
75-00-3	Chloroethane	1.0 U	1.0	0.10			
67-66-3	Chloroform	1.0 U	1.0	0.10			
74-87-3	Chloromethane	1.0 U	1.0	0.12			
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.10			
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.12			
124-48-1	Dibromochloromethane	1.0 U	1.0	0.10			
100-41-4	Ethylbenzene	1.0 U	1.0	0.10			
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10			
179601-23-1	m,p-Xylenes	1.0 U	1.0	0.12			

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207283
Project:	GE MRFA/145599.01	Date Collected: 10/24/12 1000
Sample Matrix:	Water	<b>Date Received:</b> 10/25/12
		Date Analyzed: 10/31/12 14:21
Sample Name:	SW-A	Units: µg/L
Lab Code:	R1207283-002	Basis: NA

## Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: Data File Name:	CLP-VOA OLC02.1 I:\ACQUDATA\MSVOA6\DATA\103112\Z4073.D\			Analysis Lot: 316261 Instrument Name: R-MS-06 Dilution Factor: 1			
CAS No.	Analyte Name	Result	Q	MRL	MDL	Note	
75-09-2	Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.10		
95-47-6	o-Xylene	1.0	U	1.0	0.10		
100-42-5	Styrene	1.0	U	1.0	0.10		
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	0.10		
108-88-3	Toluene	1.0	U	1.0	0.10		
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.10		
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.10		
79-01-6	Trichloroethene (TCE)	1.0	U	1.0	0.10		
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.10		
75-01-4	Vinyl Chloride	1.0	U	1.0	0.10		

Surrogate Name	%Rec	Control Limits	Date Analyzed Q
4-Bromofluorobenzene	102	80-120	10/31/12 14:21

Now part of the ALS Group

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.
Project:	GE MRFA/145599.01
Sample Matrix:	Water

 Service Request:
 R1207283

 Date Collected:
 10/24/12

 Date Received:
 10/25/12

 Date Analyzed:
 10/31/12

## Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

Sample Name: Lab Code:	SW-A R1207283-002			Units: µg/L Basis: NA
Analytical Metho	d: CLP-VOA OLC02.1			
CAS # AI	nalyte Name	RT	Result Q	

No Tentatively Identified Compounds Detected.

**Comments:** 

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207283
Project:	GE MRFA/145599.01	Date Collected: 10/24/12 1030
Sample Matrix:	Water	Date Received: 10/25/12
		Date Analyzed: 10/31/12 15:33
Sample Name:	DGC-3S	Units: µg/L
Lab Code:	R1207283-003	Basis: NA

## Low Level Water Volatile Organic Compounds by GC/MS

<b>Analytical Method:</b>	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4075.D\

Analysis Lot: 316261 Instrument Name: R-MS-06

Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4075.D\				Instrument Name: R-MS-06 Dilution Factor: 1	
CAS No.	Analyte Name	Result Q	MRL	MDL	Note	
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.10		
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.10		
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.11		
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.10		
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.10		
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11		
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.12		
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 UUS	1.0	0.24		
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.15		
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.10		
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.10		
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10		
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.10		
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.10		
78-93-3	2-Butanone (MEK)	5.0 UUJ	5.0	1.1		
591-78-6	2-Hexanone	5.0 U	5.0	2.1		
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.95		
67-64-1	Acetone	5.0 U UJ	5.0	1.1		
71-43-2	Benzene	1.0 U	1.0	0.10		
74-97-5	Bromochloromethane	1.0 U	1.0	0.15		
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10		
75-25-2	Bromoform	1.0 UUJ	1.0	0.15		
74-83-9	Bromomethane	1.0 U	1.0	0.23		
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14		
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.10		
108-90-7	Chlorobenzene	1.0 U	1.0	0.10		
75-00-3	Chloroethane	1.0 U	1.0	0.10		
67-66-3	Chloroform	1.0 U	1.0	0.10		
74-87-3	Chloromethane	1.0 U	1.0	0.12		
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.10		
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.12		
			1.0	0.10		

Dibromochloromethane

Hexachlorobutadiene

Ethylbenzene

m,p-Xylenes

124-48-1

100-41-4

87-68-3

179601-23-1

1.0 U

1.0 U

1.0 U

1.0 U

1.0

1.0

1.0

1.0

0.10

0.10

0.12

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207283
Project:	GE MRFA/145599.01	Date Collected: 10/24/12 1030
Sample Matrix:	Water	Date Received: 10/25/12
		Date Analyzed: 10/31/12 15:33
Sample Name:	DGC-3S	Units: µg/L
Lab Code:	R1207283-003	Basis: NA

Analytical Method: Data File Name:	CLP-VOA OLC02.1 I:\ACQUDATA\MSVOA6\DATA\1031	12\Z4075.D\			Analysis Lot: 316261 Instrument Name: R-MS-06 Dilution Factor: 1		
CAS No.	Analyte Name	Result	Q	MRL	MDL	Note	
75-09-2	Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.10		
95-47-6	o-Xylene	1.0	U	1.0	0.10		
100-42-5	Styrene	1.0	U	1.0	0.10		
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	0.10		
108-88-3	Toluene	1.0	U	1.0	0.10		
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.10		
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.10		
79-01-6	Trichloroethene (TCE)	1.0	U	1.0	0.10		
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.10		
75-01-4	Vinyl Chloride	1.0	U	1.0	0.10		

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	80-120	10/31/12 15:33	

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Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

Service Request: R1207283 Date Collected: 10/24/12 Date Received: 10/25/12 Date Analyzed: 10/31/12 1533

## Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

Sample Name: Lab Code:	DGC-38 R1207283-003			Units: Basis:	
Analytical Method:	CLP-VOA OLC02.1				
CAS # Anal	lyte Name	RT	Result Q		

No Tentatively Identified Compounds Detected.

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request:	R1207283
Project:	GE MRFA/145599.01	Date Collected:	10/24/12 1100
Sample Matrix:	Water	Date Received:	10/25/12
		Date Analyzed:	10/31/12 14:57
Sample Name:	SW-G	Units:	μg/L
Lab Code:	R1207283-004	Basis:	NA

<b>Analytical Method:</b>	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4074.D\

Analysis Lot:	316261
Instrument Name:	R-MS-06
<b>Dilution Factor:</b>	1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.10	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.10	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.11	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.10	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.10	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.12	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 UUJ	1.0	0.24	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.15	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.10	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.10	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.10	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.10	
78-93-3	2-Butanone (MEK)	5.0 U U 🍼	5.0	1.1	
591-78-6	2-Hexanone	5.0 U	5.0	2.1	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.95	
67-64-1	Acetone	5.0 UUS	5.0	1.1	
71-43-2	Benzene	1.0 U	1.0	0.10	
74-97-5	Bromochloromethane	1.0 U	1.0	0.15	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U UJ	1.0	0.15	
74-83-9	Bromomethane	1.0 U	1.0	0.23	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.10	
108-90-7	Chlorobenzene	1.0 U	1.0	0.10	
75-00-3	Chloroethane	1.0 U	1.0	0.10	
67-66-3	Chloroform	1.0 U	1.0	0.10	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.12	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.10	
100-41-4	Ethylbenzene	1.0 U	1.0	0.10	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	
179601-23-1	m,p-Xylenes	1.0 U	1.0	0.12	

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request:	R1207283
Project:	GE MRFA/145599.01	Date Collected:	10/24/12 1100
Sample Matrix:	Water	Date Received:	10/25/12
		Date Analyzed:	10/31/12 14:57
Sample Name:	SW-G	Units:	μg/L
Lab Code:	R1207283-004	Basis:	NA

# Low Level Water Volatile Organic Compounds by GC/MS

<b>Analytical Method:</b>	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4074.D\

Analysis Lot: 316261 Instrument Name: R-MS-06 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.10	
95-47-6	o-Xylene	1.0 U	1.0	0.10	
100-42-5	Styrene	1.0 U	1.0	0.10	
27-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10	
108-88-3	Toluene	1.0 U	1.0	0.10	
56-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.10	
0061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.10	
79 <b>-</b> 01-6	Trichloroethene (TCE)	1.0 U	1.0	0.10	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.10	
5-01-4	Vinyl Chloride	1.0 U	1.0	0.10	

Surrogate Name	%Rec	Control Limits	Date Analyzed Q	
4-Bromofluorobenzene	106	80-120	10/31/12 14:57	

Now part of the ALS Group

Analytical Report

Client:	Shaw Environmental & Infrastruc	ture, Inc.		Service Request:	R1207283
Project:	GE MRFA/145599.01			Date Collected:	10/24/12
Sample Matrix:	Water			Date Received:	10/25/12
				Date Analyzed:	10/31/12 1457
		-	fied Compounds (TIC) Organic Compounds by GC/MS		
Sample Name:	SW-G			Units:	ug/L
Lab Code:	R1207283-004			Basis:	
Analytical Method	CLP-VOA OLC02.1				
CAS # Ana	lyte Name	RT	Result Q		
	No Tentatively Identified Co.	mnounds De	steated		

No Tentatively Identified Compounds Detected.

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R120	)7283
Project:	GE MRFA/145599.01	Date Collected: 10/24	4/12 1130
Sample Matrix:	Water	Date Received: 10/25	5/12
		Date Analyzed: 10/3	1/12 16:09
Sample Name:	SW-F	Units: µg/L	
Lab Code:	R1207283-005	Basis: NA	

## Low Level Water Volatile Organic Compounds by GC/MS

<b>Analytical Method:</b>	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4076.D\

Analysis Lot:	316261
Instrument Name:	R-MS-06
<b>Dilution Factor:</b>	1

						Dilution Factor.
CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.10	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.10	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.11	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.10	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0		1.0	0.10	
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.12	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0	UVJ	1.0	0.24	
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.15	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.10	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0,10	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.10	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.10	
78-93-3	2-Butanone (MEK)	5.0	UUS	5.0	1.1	
591-78-6	2-Hexanone	5.0	U	5.0	2.1	
108-10-1	4-Methyl-2-pentanone	5.0		5.0	0.95	
67-64-1	Acetone	5.0	ULT	5.0	1.1	
71-43-2	Benzene	1.0		1.0	0.10	
74-97-5	Bromochloromethane	1.0		1.0	0.15	
75-27-4	Bromodichloromethane	1.0	U	1.0	0.10	
75-25-2	Bromoform		UUS	1.0	0.15	
74-83-9	Bromomethane	1.0		1.0	0.23	
75-15-0	Carbon Disulfide	1.0	U	1.0	0.14	
56-23-5	Carbon Tetrachloride	1.0	U	1.0	0.10	
108-90-7	Chlorobenzene	1.0		1.0	0.10	
75-00-3	Chloroethane	1.0	U	1.0	0.10	
67-66-3	Chloroform	1.0		1.0	0.10	
74-87-3	Chloromethane	1.0		1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.10	
10061-01-5	cis-1,3-Dichloropropene	1.0		1.0	0.12	
124-48-1	Dibromochloromethane	1.0		1.0	0.10	
100-41-4	Ethylbenzene	1.0	U	1.0	0.10	
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.10	
179601-23-1	m,p-Xylenes	1.0	U	1.0	0.12	

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207283
Project:	GE MRFA/145599.01	Date Collected: 10/24/12 1130
Sample Matrix:	Water	Date Received: 10/25/12
		Date Analyzed: 10/31/12 16:09
Sample Name:	SW-F	Units: µg/L
Lab Code:	R1207283-005	Basis: NA

# Low Level Water Volatile Organic Compounds by GC/MS

<b>Analytical Method:</b>	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4076.D\

Analysis Lot: 316261 Instrument Name: R-MS-06

**Dilution Factor:** 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.10	······································
95-47-6	o-Xylene	1.0 U	1.0	0.10	
100-42-5	Styrene	1.0 U	1.0	0.10	
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10	
108-88-3	Toluene	1.0 U	1.0	0.10	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.10	
79-01-6	Trichloroethene (TCE)	1.0 U	1.0	0.10	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.10	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.10	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	106	80-120	10/31/12 16:09	

Now part of the ALS Group

Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

 Service Request:
 R1207283

 Date Collected:
 10/24/12

 Date Received:
 10/25/12

 Date Analyzed:
 10/31/12

## Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

Sample Name: Lab Code:	SW-F R1207283-005			Units: μg/L Basis: NA
Analytical Method	: CLP-VOA OLC02.1			
CAS# Ana	alyte Name	RT	Result Q	

No Tentatively Identified Compounds Detected.

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207283
Project:	GE MRFA/145599.01	Date Collected: 10/24/12 1145
Sample Matrix:	Water	<b>Date Received:</b> 10/25/12
		Date Analyzed: 10/31/12 16:44
Sample Name:	SW-E	Units: µg/L
Lab Code:	R1207283-006	Basis: NA

## Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: Data File Name:	CLP-VOA OLC02.1 I:\ACQUDATA\MSVOA6\DATA\103	Analysis Lot: 316261 Instrument Name: R-MS-06 Dilution Factor: 1			
CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.10	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.10	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.11	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.10	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.10	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.12	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U US		0.24	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.15	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.10	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.10	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.10	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.10	
78-93-3	2-Butanone (MEK)	5.0 UVJ		1.1	
591-78-6	2-Hexanone	5.0 U	5.0	2.1	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.95	
67-64-1	Acetone	5.0 U UJ		1.1	
71-43-2	Benzene	1.0 U	1.0	0.10	· · · · · · · · · · · · · · · · · · ·
74-97-5	Bromochloromethane	1.0 U	1.0	0.15	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 UUJ	1.0	0.15	
74-83-9	Bromomethane	1.0 U	1.0	0.23	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.10	
108-90-7	Chlorobenzene	1.0 U	1.0	0.10	
75-00-3	Chloroethane	1.0 U	1.0	0.10	
67-66-3	Chloroform	1.0 U	1.0	0.10	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.12	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.10	
100-41-4	Ethylbenzene	1.0 U	1.0	0.10	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	×
	xz 1		1.0	0.10	

179601-23-1

m,p-Xylenes

1.0 U

1.0

0.12

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request:	
Project:	GE MRFA/145599.01	Date Collected:	10/24/12 1145
Sample Matrix:	Water	Date Received:	10/25/12
		Date Analyzed:	10/31/12 16:44
Sample Name:	SW-E	Units:	μg/L
Lab Code:	R1207283-006	Basis:	NA

# Low Level Water Volatile Organic Compounds by GC/MS

<b>Analytical Method:</b>	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4077.D\

Analysis Lot: 316261 Instrument Name: R-MS-06 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
75-09-2	Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.10	
95-47-6	o-Xylene	1.0	U	1.0	0.10	
100-42-5	Styrene	1.0	U	1.0	0.10	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	0.10	· · · · · · · · · · · · · · · · · · ·
108-88-3	Toluene	1.0	U	1.0	0.10	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.10	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.10	
79-01-6	Trichloroethene (TCE)	1.0	U	1.0	0.10	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.10	
75-01-4	Vinyl Chloride	1.0	U	1.0	0.10	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	80-120	10/31/12 16:44	

Now part of the ALS Group

Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

 Service Request:
 R1207283

 Date Collected:
 10/24/12

 Date Received:
 10/25/12

 Date Analyzed:
 10/31/12 1644

## Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

Sample Name: Lab Code:	SW-E R1207283-006		J	-	·	Units: µg/L Basis: NA
Analytical Method:	CLP-VOA OLC02.1					
CAS # Anal	lyte Name	RT	Result Q			

No Tentatively Identified Compounds Detected.

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207283
Project:	GE MRFA/145599.01	Date Collected: 10/24/12 1230
Sample Matrix:	Water	<b>Date Received:</b> 10/25/12
		Date Analyzed: 10/31/12 17:19
Sample Name:	SW-D	Units: µg/L
Lab Code:	R1207283-007	Basis: NA

## Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4078.D\

87-68-3

179601-23-1

Analysis Lot: 316261 Instrument Name: R-MS-06

Dutu I ne I (ame.				Dilution Factor: 1		
CAS No.	Analyte Name	Result Q	MRL	MDL	Note	
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.10		
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.10		
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.11		
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.10		
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.10		
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11		
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.12		
96-12 <b>-</b> 8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U (ノゴ	1.0	0.24		
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.15		
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.10		
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.10		
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10		
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.10		
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.10		
78-93-3	2-Butanone (MEK)	5.0 UUJ	5.0	1.1		
591-78-6	2-Hexanone	5.0 U	5.0	2.1		
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.95		
67-64-1	Acetone	5.0 U UJ	5.0	1.1		
71-43-2	Benzene	1.0 U	1.0	0.10		
74-97-5	Bromochloromethane	1.0 U	1.0	0.15		
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10		
75-25-2	Bromoform	1.0 UUJ	1.0	0.15		
74-83-9	Bromomethane	1.0 U	1.0	0.23		
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14		
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.10		
108-90-7	Chlorobenzene	1.0 U	1.0	0.10		
75-00-3	Chloroethane	1.0 U	1.0	0.10		
67-66-3	Chloroform	1.0 U	1.0	0.10		
74-87-3	Chloromethane	1.0 U	1.0	0.12		
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.10		
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.12		
124-48-1	Dibromochloromethane	1.0 U	1.0	0.10		
100-41-4	Ethylbenzene	1.0 U	1.0	0.10		

Hexachlorobutadiene

m,p-Xylenes

1.0 U

1.0 U

1.0

1.0

0.10

0.12

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207283
Project:	GE MRFA/145599.01	Date Collected: 10/24/12 1230
Sample Matrix:	Water	<b>Date Received:</b> 10/25/12
		Date Analyzed: 10/31/12 17:19
Sample Name:	SW-D	Units: µg/L
Lab Code:	R1207283-007	Basis: NA

# Low Level Water Volatile Organic Compounds by GC/MS

<b>Analytical Method:</b>	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4078.D\

Analysis Lot: 316261 Instrument Name: R-MS-06

**Dilution Factor:** 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
75-09-2	Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.10	
95-47-6	o-Xylene	1.0	U	1.0	0.10	
100-42-5	Styrene	1.0	U	1.0	0.10	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	0.10	
108-88-3	Toluene	1.0	U	1.0	0.10	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.10	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.10	
79-01-6	Trichloroethene (TCE)	1.0	U	1.0	0.10	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.10	
75-01-4	Vinyl Chloride	1.0	U	1.0	0.10	

Surrogate Name	%Rec	Control Limits	Date Analyzed Q
4-Bromofluorobenzene	104	80-120	10/31/12 17:19

Now part of the ALS Group

Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

Service Request: R1207283 Date Collected: 10/24/12 Date Received: 10/25/12 Date Analyzed: 10/31/12 1719

### Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

Sample Name: Lab Code:	SW-D R1207283-007		Units: Basis:	• -
Analytical Method:	CLP-VOA OLC02.1			
	/ <b>b</b> .	DÆ		

CAS # Analyt	e Name RT	Result Q
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No Tentatively Identified Compounds Detected.

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request:	R1207283
Project:	GE MRFA/145599.01	Date Collected:	10/24/12 1300
Sample Matrix:	Water	Date Received:	10/25/12
		Date Analyzed:	10/31/12 17:48
Sample Name: Lab Code:	M-27D R1207283-008	Units: Basis:	

Analytical Method	: CLP-VOA OLC02.1	Analysis Lot: 316261
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4079.D\	Instrument Name: R-MS-06
		Dilution Factor: 1

						Dilution Factor: 1
CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.10	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.10	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.11	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.10	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.10	
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.12	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0	UU	1.0	0.24	
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.15	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.10	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.10	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.10	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.10	
78-93-3	2-Butanone (MEK)	5.0	UUJ	5.0	1.1	
591-78-6	2-Hexanone	5.0	U	5.0	2.1	
108-10-1	4-Methyl-2-pentanone	5.0	U	- 5.0	0.95	
67-64-1	Acetone	5.0	UUJ	5.0	1.1	
71-43-2	Benzene	1.0	U	1.0	0.10	
74-97-5	Bromochloromethane	1.0	U	1.0	0.15	
75-27-4	Bromodichloromethane	1.0	U	1.0	0.10	
75-25-2	Bromoform	1.0	UUJ	1.0	0.15	
74-83-9	Bromomethane	1.0		1.0	0.23	
75-15-0	Carbon Disulfide	1.0	U	1.0	0.14	
56-23-5	Carbon Tetrachloride	4.2		1.0	0.10	
108-90-7	Chlorobenzene	1.0		1.0	0.10	
75-00-3	Chloroethane	1.0	U	1.0	0.10	
67-66-3	Chloroform	0.33		1.0	0.10	
74-87-3	Chloromethane	1.0	U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.10	
10061-01-5	cis-1,3-Dichloropropene	1.0		1.0	0.12	
124-48-1	Dibromochloromethane	1.0		1.0	0.10	
100-41-4	Ethylbenzene	1.0	U	1.0	0.10	
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.10	
179601-23-1	m,p-Xylenes	1.0	U	1.0	0.12	

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207283
Project:	GE MRFA/145599.01	Date Collected: 10/24/12 1300
Sample Matrix:	Water	Date Received: 10/25/12
		Date Analyzed: 10/31/12 17:48
Sample Name:	M-27D	Units: µg/L
Lab Code:	R1207283-008	Basis: NA

Analytical Method Data File Name:	CLP-VOA OLC02.1 I:\ACQUDATA\MSVOA6\DATA\103112\Z4079.D\				Analysis Lot: 316261 Instrument Name: R-MS-06 Dilution Factor: 1		
CAS No.	Analyte Name	Result	Q	MRL	MDL	Note	
75-09-2	Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.10		·····
95-47-6	o-Xylene	1.0	U	1.0	0.10		
100-42-5	Styrene	1.0	U	1.0	0.10		
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	0.10		
108-88-3	Toluene	1.0	U	1.0	0.10		
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.10		
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.10		
79-01-6	Trichloroethene (TCE)	5.8		1.0	0.10		
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.10		
75-01-4	Vinyl Chloride	1.0	U	1.0	0.10		

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	80-120	10/31/12 17:48	

Now part of the ALS Group

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.
Project:	GE MRFA/145599.01
Sample Matrix:	Water

Service Request: R1207283 Date Collected: 10/24/12 Date Received: 10/25/12 Date Analyzed: 10/31/12 1748

## Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

Sample Name: Lab Code:	M-27D R1207283-008			Units: µg/L Basis: NA
Analytical Method:	CLP-VOA OLC02.1			
CAS # Ana	lyte Name	RT	Result Q	

No Tentatively Identified Compounds Detected.

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207283	
Project:	GE MRFA/145599.01	Date Collected: 10/24/12 1345	
Sample Matrix:	Water	Date Received: 10/25/12	
		Date Analyzed: 10/31/12 18:24	ł
Sample Name:	SW-B	Units: µg/L	
Lab Code:	R1207283-009	Basis: NA	

<b>Analytical Method:</b>	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4080.D\

Analysis Lot:	316261
Instrument Name:	R-MS-06
<b>Dilution Factor:</b>	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.10	······································
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.10	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.11	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.10	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0		1.0	0.10	
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.12	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0	UUJ	1.0	0.24	
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.15	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.10	
95-50-1	1,2-Dichlorobenzene	1.0		1.0	0.10	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0		1.0	0.10	
106-46-7	1,4-Dichlorobenzene	1.0		1.0	0.10	
78-93-3	2-Butanone (MEK)	5.0	UUS	5.0	1.1	
591-78-6	2-Hexanone	5.0	U	5.0	2.1	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.95	
67-64-1	Acetone	5.0	UUJ	5.0	1.1	
71-43-2	Benzene	1.0	U	1.0	0.10	
74-97-5	Bromochloromethane	1.0		1.0	0.15	
75-27-4	Bromodichloromethane	1.0	U	1.0	0.10	
75-25-2	Bromoform		UUJ	1.0	0.15	
74-83-9	Bromomethane	1.0		1.0	0.23	
75-15-0	Carbon Disulfide	1.0	U	1.0	0.14	
56-23-5	Carbon Tetrachloride	0.17		1.0	0.10	
108-90-7	Chlorobenzene	1.0		1.0	0.10	
75-00-3	Chloroethane	1.0	U	1.0	0.10	
67-66-3	Chloroform	1.0		1.0	0.10	
74-87-3	Chloromethane	1.0		1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.10	
10061-01-5	cis-1,3-Dichloropropene	1.0		1.0	0.12	
124-48-1	Dibromochloromethane	1.0		1.0	0.10	
100-41-4	Ethylbenzene	1.0	U	1.0	0.10	
87-68-3	Hexachlorobutadiene	1.0		1.0	0.10	
179601-23-1	m,p-Xylenes	1.0	U	1.0	0.12	

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request:	R1207283
Project:	GE MRFA/145599.01	Date Collected:	10/24/12 1345
Sample Matrix:	Water	Date Received:	10/25/12
		Date Analyzed:	10/31/12 18:24
Sample Name:	SW-B	Units:	μg/L
Lab Code:	R1207283-009	Basis:	NA

Analytical Metho Data File Name:	Method: CLP-VOA OLC02.1 ame: I:\ACQUDATA\MSVOA6\DATA\103112\Z4080.D\			Analysis Lot: 316261 Instrument Name: R-MS-06 Dilution Factor: 1	
CAS No.	Analyte Name	Result Q	MRL	MDL	Note
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.10	
95-47-6	o-Xylene	1.0 U	1.0	0.10	
100-42-5	Styrene	1.0 U	1.0	0.10	
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10	
108-88-3	Toluene	1.0 U	1.0	0.10	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.10	
79-01-6	Trichloroethene (TCE)	<b>0.16</b> J	1.0	0.10	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.10	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.10	

Surrogate Name	%Rec	Control Limits	Date Analyzed Q
4-Bromofluorobenzene	104	80-120	10/31/12 18:24

Now part of the ALS Group

Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

 Service Request:
 R1207283

 Date Collected:
 10/24/12

 Date Received:
 10/25/12

 Date Analyzed:
 10/31/12 1824

## Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

Sample Name: Lab Code:	SW-B R1207283-009		6	·		Units: µg/L Basis: NA
Analytical Method:	CLP-VOA OLC02.1					
CAS # Anal	lyte Name	RT	Result Q			

No Tentatively Identified Compounds Detected.

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207283
Project:	GE MRFA/145599.01	Date Collected: 10/24/12
Sample Matrix:	Water	<b>Date Received:</b> 10/25/12
		Date Analyzed: 10/31/12 19:00
Sample Name:	DUP A	Units: µg/L
Lab Code:	R1207283-010	Basis: NA

<b>Analytical Method:</b>	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4081.D\

Analysis Lot:	316261
<b>Instrument Name:</b>	R-MS-06
Dilution Factor:	1

CAS No.	Analyte Name	Result Q	2	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 L	J	1.0	0.10	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 L		1.0	0.10	
79-00-5	1,1,2-Trichloroethane	1.0 U	J	1.0	0.11	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 L	J	1.0	0.10	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 L		1.0	0.10	
87-61-6	1,2,3-Trichlorobenzene	1.0 L	l	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 L	J	1.0	0.12	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 L	JUJ	1.0	0.24	
106-93-4	1,2-Dibromoethane	1.0 L	J	1.0	0.15	
107-06-2	1,2-Dichloroethane	1.0 U	J	1.0	0.10	
95-50-1	1,2-Dichlorobenzene	1.0 U	J	1.0	0.10	
78-87-5	1,2-Dichloropropane	1.0 L	J	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	J	1.0	0.10	
106-46-7	1,4-Dichlorobenzene	1.0 U	J.	1.0	0.10	
78-93-3	2-Butanone (MEK)	5.0 U	JUJ	5.0	1.1	
591-78-6	2-Hexanone	5.0 L	J	5.0	2.1	
108-10-1	4-Methyl-2-pentanone	5.0 U	J	5.0	0.95	
67-64-1	Acetone	5.0 U	JUJ	5.0	1.1	
71-43-2	Benzene	1.0 L	J	1.0	0.10	
74-97-5	Bromochloromethane	1.0 U	J	1.0	0.15	
75-27-4	Bromodichloromethane	1.0 U	J	1.0	0.10	
75-25-2	Bromoform	1.0 U	JUJ	1.0	0.15	
74-83-9	Bromomethane	1.0 U	J	1.0	0.23	
75-15-0	Carbon Disulfide	1.0 U	J	1.0	0.14	
56-23-5	Carbon Tetrachloride	4.9		1.0	0.10	
108-90-7	Chlorobenzene	1.0 U	J	1.0	0.10	
75-00-3	Chloroethane	1.0 U	J	1.0	0.10	
67-66-3	Chloroform	0.41 J	,	1.0	0.10	
74-87-3	Chloromethane	1.0 L		1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 L	J	1.0	0.10	
10061-01-5	cis-1,3-Dichloropropene	1.0 L	J	1.0	0.12	
124-48-1	Dibromochloromethane	1.0 L	J	1.0	0.10	
100-41-4	Ethylbenzene	1.0 L	J	1.0	0.10	
87-68-3	Hexachlorobutadiene	1.0 L	J	1.0	0.10	
179601-23-1	m,p-Xylenes	1.0 L		1.0	0.12	

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207283
Project:	GE MRFA/145599.01	Date Collected: 10/24/12
Sample Matrix:	Water	<b>Date Received:</b> 10/25/12
		Date Analyzed: 10/31/12 19:00
Sample Name:	DUP A	Units: μg/L
Lab Code:	R1207283-010	Basis: NA

Analytical Method: Data File Name:	CLP-VOA OLC02.1 I:\ACQUDATA\MSVOA6\DATA\103112\Z4081.D\				Analysis Lot: 316261 Instrument Name: R-MS-06 Dilution Factor: 1		
CAS No.	Analyte Name	Result Q	MRL	MDL	Note		
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.10			
95-47-6	o-Xylene	1.0 U	1.0	0.10			
100-42-5	Styrene	1.0 U	1.0	0.10			
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10			
108-88-3	Toluene	1.0 U	1.0	0.10			
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.10			
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.10			
79-01-6	Trichloroethene (TCE)	5.8	1.0	0.10			
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.10			
75-01-4	Vinyl Chloride	1.0 U	1.0	0.10			

Surrogate Name	%Rec	Control Limits	Date Analyzed Q	
4-Bromofluorobenzene	102	80-120	10/31/12 19:00	

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Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

Service Request: R1207283 Date Collected: 10/24/12 Date Received: 10/25/12 Date Analyzed: 10/31/12 1900

## Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

Sample Name: Lab Code:	DUP A R1207283-010	-	-	Units: µg/L Basis: NA
Analytical Method:	CLP-VOA OLC02.1			

CAS # Analyte Name RT Resu	t Q
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No Tentatively Identified Compounds Detected.

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207283
Project:	GE MRFA/145599.01	Date Collected: 10/24/12
Sample Matrix:	Water	<b>Date Received:</b> 10/25/12
		Date Analyzed: 10/31/12 19:36
Sample Name:	TRIP BLANK	Units: µg/L
Lab Code:	R1207283-011	Basis: NA

Analytical Method:	CLP-VOA OLC02.1
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4082.D\

S		
	Analysis Lot:	316261
In	strument Name:	R-MS-06

Data File Name.		1	Dilution Factor: 1		
CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.10	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.10	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.11	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.10	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.10	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.12	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U UJ	1.0	0.24	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.15	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.10	,,,
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.10	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.10	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.10	
78-93-3	2-Butanone (MEK)	5.0 UUJ	5.0	1.1	
591-78-6	2-Hexanone	5.0 U	5.0	2.1	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.95	
67-64-1	Acetone	1.6 J J	5.0	1.1	
71-43-2	Benzene	1.0 U	1.0	0.10	
74-97-5	Bromochloromethane	1.0 U	1.0	0.15	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U/1J	1.0	0.15	
74-83-9	Bromomethane	1.0 U	1.0	0.23	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.10	
108-90-7	Chlorobenzene	1.0 U	1.0	0.10	
75-00-3	Chloroethane	1.0 U	1.0	0.10	
67-66-3	Chloroform	1.0 U	1.0	0.10	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.12	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.10	
100-41-4	Ethylbenzene	1.0 U	1.0	0.10	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	
179601-23-1	m,p-Xylenes	1.0 U	1.0	0.12	

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207283	
Project:	GE MRFA/145599.01	Date Collected: 10/24/12	
Sample Matrix:	Water	<b>Date Received:</b> 10/25/12	
		Date Analyzed: 10/31/12 19:36	
Sample Name:	TRIP BLANK	Units: µg/L	
Lab Code:	R1207283-011	Basis: NA	

# Low Level Water Volatile Organic Compounds by GC/MS

Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4082.D\				Instrument Name: R-MS-06 Dilution Factor: 1		
CAS No.	Analyte Name	Result Q	MRL	MDL	Note		
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.10			
95-47-6	o-Xylene	1.0 U	1.0	0.10			
100-42-5	Styrene	1.0 U	1.0	0.10			
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10			
108-88-3	Toluene	1.0 U	1.0	0.10			
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.10			
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.10			
79-01-6	Trichloroethene (TCE)	1.0 U	1.0	0.10			
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.10			
75-01-4	Vinyl Chloride	1.0 U	1.0	0.10			

Surrogate Name	%Rec	Control Limits	Date Analyzed Q
4-Bromofluorobenzene	103	80-120	10/31/12 19:36

Analytical Method: CLP-VOA OLC02.1

Analysis Lot: 316261

Now part of the ALS Group

Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:Water

Service Request: R1207283 Date Collected: 10/24/12 Date Received: 10/25/12 Date Analyzed: 10/31/12 1936

## Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

Sample Name:	TRIP BLANK	Units: µg/L
Lab Code:	R1207283-011	Basis: NA
Analytical Method:	CLP-VOA OLC02.1	

CAS #	Analyte Name	RT	Result Q

No Tentatively Identified Compounds Detected.

**Comments:** 

88848

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request:	
Project:	GE MRFA/145599.01	Date Collected:	10/24/12
Sample Matrix:	Water	Date Received:	10/25/12
		Date Analyzed:	10/31/12 21:59
Sample Name:	COOLER BLANK	Units:	
Lab Code:	R1207283-012	Basis:	NA

### Low Level Water Volatile Organic Compounds by GC/MS

<b>Analytical Method:</b>	CLP-VOA OLC02.1	Analysis Lot: 316261						
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\103112\Z4086.D\ Instrument Name: R-MS- Dilution Factor: 1							
CAS No.	Analyte Name	Result Q	MRL	MDL	Note			
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.10				
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.10				
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.11				
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.10				
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.10				
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11				
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.12				
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U V.J	1.0	0.24				
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.15				
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.10				
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.10				
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10				
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.10				
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.10				
78-93-3	2-Butanone (MEK)	5.0 Uし丁	5.0	1.1				
591-78-6	2-Hexanone	5.0 U	5.0	2.1				
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.95				
67-64-1	Acetone	5.0 UUS	5.0	1.1				
71-43-2	Benzene	1.0 U	1.0	0.10				
74-97-5	Bromochloromethane	1.0 U	1.0	0.15				
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10				
				· · · ·				

75-25-2

74-83-9

75-15-0

56-23-5 108-90-7

75-00-3

67-66-3 74-87-3

156-59-2

124-48-1

100-41-4

87-68-3

179601-23-1

10061-01-5

Bromoform

Bromomethane

Chlorobenzene

Chloromethane

Ethylbenzene

m,p-Xylenes

Chloroethane

Chloroform

Carbon Disulfide

Carbon Tetrachloride

cis-1,2-Dichloroethene

cis-1,3-Dichloropropene

Dibromochloromethane

Hexachlorobutadiene

1.0 UUJ

1.0 U

1.0 U

1.0 U

1.0 U

1.0 U 1.0 U

1.0 U

1.0 U

1.0 U

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0.14

0.10

0.10

0.10

0.10

0.12

0.10

0.12

0.10

0.10

0.10

0.12

Client:	Shaw Environmental & Infrastructure, Inc.	Service Request: R1207283
Project:	GE MRFA/145599.01	Date Collected: 10/24/12
Sample Matrix:	Water	<b>Date Received:</b> 10/25/12
		Date Analyzed: 10/31/12 21:59
Sample Name:	COOLER BLANK	Units: µg/L
Lab Code:	R1207283-012	Basis: NA

### Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: Data File Name:	CLP-VOA OLC02.1 I:\ACQUDATA\MSVOA6\DATA\1031	Iı	Analysis Lot: 316261 nstrument Name: R-MS-06 Dilution Factor: 1		
CAS No.	Analyte Name	Result Q	MRL	MDL	Note
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.10	
95-47-6	o-Xylene	1.0 U	1.0	0.10	
100-42-5	Styrene	1.0 U	1.0	0.10	
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10	
108-88-3	Toluene	1.0 U	1.0	0.10	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.10	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.10	
79-01-6	Trichloroethene (TCE)	1.0 U	1.0	0.10	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.10	

Surrogate Name	%Rec	Control Limits	Date Analyzed Q
4-Bromofluorobenzene	99	80-120	10/31/12 21:59

1.0 U

1.0

0.10

75-01-4

Vinyl Chloride

Now part of the ALS Group

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.
Project:	GE MRFA/145599.01
Sample Matrix:	Water

Service Request: R1207283 Date Collected: 10/24/12 Date Received: 10/25/12 Date Analyzed: 10/31/12 2159

## Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

Sample Name: Lab Code:	COOLER BLANK R1207283-012		8	•	Units: µg/L Basis: NA
Analytical Method:	CLP-VOA OLC02.1				
CAS # Ana	alyte Name	RT	Result Q		

No Tentatively Identified Compounds Detected.

Client: Project: Sample Matrix:	Shaw Environmental & Infr GE MRFA/145599.01 Water	astructure, Inc.			Service Request: Date Collected: Date Received: Date Analyzed:	10/24/12 0930 10/25/12
Sample Name: Lab Code:	DGC-4S R1207283-001				Units: Basis:	
		Dissolved Gases I	oy GC/F	'ID		
Analytical Method: Data File Name:	RSK 175 1003.run				Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02
CAS No.	Analyte Name	Result	Q	MRL	Note	
74-84-0	Ethane	1.0	U	1.0		

Client: Project: Sample Matrix:	Shaw Environmental & Infra GE MRFA/145599.01 Water	structure, Inc.			Service Request: Date Collected: Date Received: Date Analyzed:	10/24/12 1000 10/25/12
Sample Name: Lab Code:	SW-A R1207283-002				Units: Basis:	
		Dissolved Gases t	y GC/F	ID		
Analytical Method: Data File Name:	RSK 175 1004.run				Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02
CAS No.	Analyte Name	Result	Q	MRL	Note	
74-84-0	Ethane	1.0	U	1.0		

Client: Project: Sample Matrix:	Shaw Environmental & Infras GE MRFA/145599.01 Water	tructure, Inc.			Service Request: Date Collected: Date Received: Date Analyzed:	10/24/12 1030 10/25/12
Sample Name: Lab Code:	DGC-3S R1207283-003				Units: Basis:	
		Dissolved Gases by	y GC/FID			
Analytical Method: Data File Name:	RSK 175 1005.run				Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02
CAS No.	Analyte Name	Result	Q	MRL	Note	
74-84-0	Ethane	1.0	U	1.0		

Client: Project: Sample Matrix:	Shaw Environmental & Infra GE MRFA/145599.01 Water	structure, Inc.			Service Request: Date Collected: Date Received: Date Analyzed:	10/24/12 1100 10/25/12	
Sample Name: Lab Code:	SW-G R1207283-004				Units: Basis:	• •	
Dissolved Gases by GC/FID							
Analytical Method: Data File Name:	RSK 175 1006.run				Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02	
CAS No.	Analyte Name	Result	Q	MRL	Note		
74-84-0	Ethane	1.0	U	1.0			



Client: Project: Sample Matrix:	Shaw Environmental & Infras GE MRFA/145599.01 Water	structure, Inc.			Service Request: Date Collected: Date Received: Date Analyzed:	10/24/12 1130 10/25/12
Sample Name: Lab Code:	SW-F R1207283-005				Units: Basis:	
		Dissolved Gases t	y GC/FI	D		
Analytical Method: Data File Name:	RSK 175 1007.run				Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02
CAS No.	Analyte Name	Result	Q	MRL	Note	
74-84-0	Ethane	1.0	U	1.0		



Client: Project: Sample Matrix:	Shaw Environmental & Infrastructure, Inc. GE MRFA/145599.01 Water	Service Request: Date Collected: Date Received: Date Analyzed:	10/24/12 1145 10/25/12
Sample Name: Lab Code:	SW-E R1207283-006	Units: Basis:	
	Dissolved Gases by GC/FID		
Analytical Method: Data File Name:	RSK 175 1008.run	Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02

CAS No.	Analyte Name	Result Q	MRL	Note	
74-84-0	Ethane	1.0 U	1.0		

Client: Project: Sample Matrix:	Shaw Environmental & Infr GE MRFA/145599.01 Water	astructure, Inc.			Service Request: Date Collected: Date Received: Date Analyzed:	10/24/12 1230 10/25/12	
Sample Name: Lab Code:	SW-D R1207283-007				Units: Basis:		
Dissolved Gases by GC/FID							
Analytical Method: Data File Name:	RSK 175 1009.run				Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02	
CAS No.	Analyte Name	Result	Q	MRL	Note		
74-84-0	Ethane	1.0	U	1.0			



Client: Project: Sample Matrix:	Shaw Environmental & Infra GE MRFA/145599.01 Water	structure, Inc.			Service Request: Date Collected: Date Received: Date Analyzed:	10/24/12 1300 10/25/12
Sample Name: Lab Code:	M-27D R1207283-008				Units: Basis:	
		Dissolved Gases b	y GC/Fl	D		
Analytical Method: Data File Name:	RSK 175 1013.run				Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02
CAS No.	Analyte Name	Result	Q	MRL	Note	
74-84-0	Ethane	1.0	U	1.0		



Client: Project: Sample Matrix:	Shaw Environmental & Infra GE MRFA/145599.01 Water	structure, Inc.			Service Request: Date Collected: Date Received: Date Analyzed:	10/24/12 1345 10/25/12
Sample Name: Lab Code:	SW-B R1207283-009				Units: Basis:	
		Dissolved Gases t	oy GC/F	ÎD		
Analytical Method: Data File Name:	RSK 175 1014.run				Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02
CAS No.	Analyte Name	Result	Q	MRL	Note	
74-84-0	Ethane	1.0	U	1.0		

Client: Project: Sample Matrix:	Shaw Environmental & Infras GE MRFA/145599.01 Water	tructure, Inc.			Service Request: Date Collected: Date Received: Date Analyzed:	10/24/12 10/25/12
Sample Name: Lab Code:	DUP A R1207283-010				Units: Basis:	
		Dissolved Gases b	y GC/FI	D		
Analytical Method: Data File Name:	RSK 175 1015.run				Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02
CAS No.	Analyte Name	Result	Q	MRL	Note	
74-84-0	Ethane	1.0	U	1.0		

Client: Project: Sample Matrix:	Shaw Environmental & Infrastructure, Inc. GE MRFA/145599.01 Water	Service Request: Date Collected: Date Received: Date Analyzed:	10/24/12 10/25/12
Sample Name: Lab Code:	TRIP BLANK R1207283-011	Units: Basis:	
	Dissolved Gases by GC/FID		
Analytical Method: Data File Name:	RSK 175 1016.run	Analysis Lot: Instrument Name: Dilution Factor:	R-GC-02

CAS No.	Analyte Name	Result Q	MRL	Note
74-84-0	Ethane	1.0 U	1.0	



## Columbia Analytical Services

### METALS -1-INORGANIC ANALYSIS DATA SHEET

	INORGANIC ANALISIS		SAMPLE NO.	
			DUP A	
Contract:	R1207283			
Lab Code:	Case No.:	SAS No.:	SDG NO.: DGC-4S	
Matrix (soi	l/water): WATER	Lab Sample ID:	R1207283-010	
Level (low/	med): LOW	Date Received:	10/25/2012	

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	С	Q	м
7440-47-3	Chromium	2.3	J		P

Color Before:	COLORLESS	Clarity Before:	CLEAR	Texture:	
Color After:	COLORLESS	Clarity After:	CLEAR	Artifacts:	
Comments:					

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### METALS -1-INORGANIC ANALYSIS DATA SHEET

	into Koanie analiji		SAMPLE NO.	
			M-27D	
Contract: RI	1207283			]
Lab Code:	Case No.:	SAS No.:	SDG NO.: DGC-4S	
Matrix (soil/w	water): WATER	Lab Sample ID:	R1207283-008	•
Level (low/med	d): LOW	Date Received:	10/25/2012	

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS NO.	Analyte	Concentration	c	Q	м
7440-47-3	Chromium	6.4	J	1	P

Color Before	COLORLESS	Clarity Before:	CLEAR	Texture:	
Color After:	COLORLESS	Clarity After:	CLEAR	Artifacts:	
Comments:					
		· · · · · · · · · · · · · · · · · · ·			· · · ·

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# Columbia Analytical Services

## METALS -1-

### **INORGANIC ANALYSIS DATA SHEET**

		INORGANIC ANALYSIS DATA SHEET			NO.
				SW-B	
Contract:	R1207283				
Lab Code:		Case No.:	SAS No.:	SDG NO.:	DGC-4S
Matrix (soi	l/water):	WATER	Lab Sample ID:		9
Level (low/	med): L(	W	Date Received:	10/25/2012	
Level (low/	med): <u>L(</u>	WC	Date Received:	10/25/2012	

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	c	Q	м
7440-47-3	Chromium	1.1	J		P

Color Before:	COLORLESS	Clarity Before:	CLEAR	Texture:	
Color After:	COLORLESS	Clarity After:	CLEAR	Artifacts:	
Comments:			· · · · · · · · · · · · · · · · · · ·		

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### COLUMBIA ANALYTICAL SERVICES, INC. Now part of the ALS Group

Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:WaterSample Name:M-27DLab Code:R1207283-008

 Service Request:
 R1207283

 Date Collected:
 10/24/12 1300

 Date Received:
 10/25/12

Basis: NA

### **General Chemistry Parameters**

Analyte Name	Method	Result Q	Units	MRL	Dilution Date Date Factor Extracted Analyzed N	lote
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1 NA 10/25/12 11:44	



### COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:WaterSample Name:SW-BLab Code:R1207283-009

Service Request: R1207283 Date Collected: 10/24/12 1345 Date Received: 10/25/12

Basis: NA

### **General Chemistry Parameters**

Analyte Name	Method	Result Q	Units	MRL	Dilution Date Date Factor Extracted Analyzed Note	;
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1 NA 10/25/12 11:44	

### COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/145599.01Sample Matrix:WaterSample Name:DUP ALab Code:R1207283-010

 Service Request:
 R1207283

 Date Collected:
 10/24/12

 Date Received:
 10/25/12

Basis: NA

### **General Chemistry Parameters**

Analyte Name	Method	Result Q	Units	MRL	Dilution Date Date Factor Extracted Analyzed Note
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1 NA 10/25/12 11:44 *

Appendix C

Telephone Interview Logs

### Annual Telephone Interview Log Remedial Work Element IV - Institutional Controls Malta Rocket Fuel Area Site Malta and Stillwater, New York

Property Owner Interviewed:	New York State Energy Research and Developmental Authority
New York State Energy Research and	
Developmentt Authority	
Date of Interview:	Agency/Property Owner Representative: Kevin Hunt
Interview Questions:	Representative Response:
Do you have any knowledge of current or potential future use of groundwater within the area of the Environmental Restriction Zone? Do not include activities associated with Remedial Work Element II, Malta Test Station Drinking Water System.	No, not groundwater.
Are you aware of any current or proposed changes in land use within the area of the Environmental Restriction Zone?	No
Are you aware of the notice requirements associated with the Environmental Restriction Easement and Declaration of Restrictive Covenants?	Yes
Have you provided any interested parties with a notice of Environmental Restriction Easement and Declaration of Restrictive Covenants in any instrument (document) conveying an interest in any part of the affected property? If so, please provide a date of execution and recording reference number, as provided by the Office of the Clerk of Saratoga County, New York.	Yes, but not sure. I will check to see if we have and if so, who that may be.
Are you aware of any other conditions or actions within the Environmental Restriction Zone that would impact any condition of the Environmental Restriction Easement and Declaration of Restrictive Covenants?	No
Interview completed by: MJD	Interviewer Signature/Date: Matthew Dupay 9/17/12

Property Owner Interviewed:	Town of Malta, New York State				
Town of Malta					
Date of Interview:	Agency/Property Owner Representative: Kevin King				
Interview Questions:	Representative Response:				
Do you have any knowledge of current or potential future use of groundwater within the area of the Environmental Restriction Zone? Do not include activities associated with Remedial Work Element II, Malta Test Station Drinking Water System.	No.				
Are you aware of any current or proposed changes in land use within the area of the Environmental Restriction Zone?	There has been talk between The Luther Forest Technology Campus and the Town of Malta. I cannot recall exactly what the proposal was.				
Are you aware of the notice requirements associated with the Environmental Restriction Easement and Declaration of Restrictive Covenants?	Yes				
Have you provided any interested parties with a notice of Environmental Restriction Easement and Declaration of Restrictive Covenants in any instrument (document) conveying an interest in any part of the affected property? If so, please provide a date of execution and recording reference number, as provided by the Office of the Clerk of Saratoga County, New York.	The town of Malta recently sold a parcel of land at the corner of Stone Brick Rd. and 100 Acre Blvd to National Grid.				
Are you aware of any other conditions or actions within the Environmental Restriction Zone that would impact any condition of the Environmental Restriction Easement and Declaration of Restrictive Covenants?	No Kevin provided the name and number of the Building Planner for the Town Malta> Anthony Tozzi (518) 899-2685				
Interview completed by: MJD	Interviewer Signature/Date: Matthew Dupay 9/18/12				

### Annual Telephone Interview Log Remedial Work Element IV - Institutional Controls Malta Rocket Fuel Area Site Malta and Stillwater, New York

Property Owner Interviewed:	Luther Forest Techonology Campus Economic
Luther Forest Technology Campus Economic	Development Corporation
Development Corporation	
Date of Interview:	Agency/Property Owner Representative: Jon Dawes
Interview Questions:	Representative Response:
Do you have any knowledge of current or potential future	
use of groundwater within the area of the Environmental	No
Restriction Zone? Do not include activities associated with	
Remedial Work Element II, Malta Test Station Drinking Water	
System.	
Are you aware of any current or proposed changes in land	
use within the area of the Environmental Restriction Zone?	The GLOBALFOUNDRIES land clearing activities and site construction
	A development area within the zone might be sold off to another party for them to develop.
Are you aware of the notice requirements associated with the	
Environmental Restriction Easement and Declaration of	Yes
Restrictive Covenants?	
Have you provided any interested parties with a notice of	Yes, Development Area 18 approximately 32 acres were transferred
Environmental Restriction Easement and Declaration of	to the Town of Malta. Deed date 10/26/06 and recorded 1/24/07
Restrictive Covenants in any instrument (document)	as instrument 2007003113. GLOBALFOUNDRIES deed date 6/10/09
conveying an interest in any part of the affected property?	recorded 6/12/09 as Instrument No. 2009020320
If so, please provide a date of execution and recording	
reference number, as provided by the Office of the Clerk	LFTC will continue to notify each party as the land is transferred
of Saratoga County, New York.	
Are you aware of any other conditions or actions within the	
Environmental Restriction Zone that would impact any	No
condition of the Environmental Restriction Easement and	
Declaration of Restrictive Covenants?	
Interview completed by:	Interviewer Signature/Date: 12/1/ buess in 9-20, 12
	- Provent and Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthouse Arthous

Property Owner Interviewed:	Global Foundries				
Global Foundries					
Date of Interview: 1/28/2013 Interview Questions:	Agency/Property Owner Representative: James Fedorchak Representative Response: Patrick Hewlett				
Do you have any knowledge of current or potential future use of groundwater within the area of the Environmental Restriction Zone? Do not include activities associated with Remedial Work Element II, Malta Test Station Drinking Water System.	No				
Are you aware of any current or proposed changes in land use within the area of the Environmental Restriction Zone?	Site is currently being developed and additional buildings constructed. No exposure or work within groundwater.				
Are you aware of the notice requirements associated with the Environmental Restriction Easement and Declaration of Restrictive Covenants?	Nofication of and writtent approval by EPA prior to disturbance or contact with groundwater.				
Have you provided any interested parties with a notice of Environmental Restriction Easement and Declaration of Restrictive Covenants in any instrument (document) conveying an interest in any part of the affected property? If so, please provide a date of execution and recording reference number, as provided by the Office of the Clerk of Saratoga County, New York.	No				
Are you aware of any other conditions or actions within the Environmental Restriction Zone that would impact any condition of the Environmental Restriction Easement and Declaration of Restrictive Covenants?	No				
Interview completed by: BN	Interviewer Signature/Date: Brian Neumann 1/28/13				