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FINAL SEMI-ANNUAL O&M REPORT
REMEDIAL WORK ELEMENTS I, II AND IV
REPORTING PERIOD JANUARY 1 THROUGH JUNE 30, 2010

Malta Rocket Fuel Area Site
Malta, New York

August 5, 2010

Submitted to:

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CERTIFICATION: This document has been reviewed and is prepared in accordance with the contract documents.

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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:

- *Operation and Maintenance Manual, Remedial Work Element I, Drinking Water, dated March 31, 1998 and prepared by ERM - Northeast, Inc.*
- *Operation and Maintenance Manual, Remedial Work Element I, Drinking Water, dated January 15, 2002, and prepared by IT Corporation, Inc., currently Shaw Environmental, Inc. (Shaw).*
- *Operations and Maintenance Manual, Remedial Work Element II, Groundwater, dated January 22, 1998 and prepared by ERM - Northeast, Inc.,* and *Addendum No. 1, January 31, 2005.*
- *Operation and Maintenance Manual, Remedial Work Element IV, Institutional Controls, dated September 9, 1999, revised September 27, 1999, prepared by IT Corporation, Inc., currently Shaw.*

This report covers all site activities performed at the Site, as required in each of the previously referenced documents, for the period from January 1 through June 30, 2010.

2.0 O&M OF REMEDIAL WORK ELEMENT I (Drinking Water)

According to the provisions of the *Operation and Maintenance Manual, Remedial Work Element I, Drinking Water, IT Corporation, Inc., January 15, 2002*, six regularly scheduled monthly site visits were performed to inspect the groundwater treatment system (system) operation, record system operating conditions, and to determine system treatment effectiveness. The site visits took place on January 15, February 11, March 11, April 22, May 19, and June 16, 2010.

No alarm conditions were identified by the RTU during the reporting period. However, on February 11, 2010, Shaw received a call from the Luther Forest Technology Campus Economic Development Corporation (LFTCEDC) indicating that the boiler used to heat the building was broken. Shaw mobilized to the site and learned the building's temperature was low enough to freeze water in the settling tank. As a precaution the system was shut down and its electrical supply was locked out. LFTCEDC determined a pressure vessel, used by the facility to deliver the reservoir water, had failed and was leaking beyond repair. LFTCEDC made a decision to discontinue use of treatment system water supply.

Prior to system shut down, during the reporting period, recovery well RW-2D operated at a daily average flow rate of approximately 0.171 gallons per minute (gpm) (**Appendix A**). Due to the system shut down, system influent and effluent samples were not collected during the monitoring period. Details are provided in later sections of this report.

2.1 Remote Telemetry/Programmable Logic Controller

Prior to the system shut down on February 11, 2010, system operating parameters were visually monitored during the January monthly site visit and on a continual basis by a Remote Telemetry Unit (RTU) to ensure that the system operated continuously. The system is still monitored utilizing the RTU to ensure the system is still shutdown. During the reporting period, the RTU notified key project personnel of alarm conditions via facsimile and voice messaging.

2.2 Visual System Inspection

Although the system was shut down on February 11, 2010, visual inspections were made of all accessible system components during monthly site visits in accordance with attached **Table 1**, **Maintenance Checklist**. Inspections were performed to check for signs of component wear, process piping leaks and each of the general maintenance requirements. **Table 2, Equipment**

Log, Air Stripper Maintenance includes a summary of observations made during the visual inspections.

Maintenance activities included regular inspection of the air stripper blower intake for obstructions, inspection of all process valves and piping to prevent leakage of untreated groundwater, and inspection of the air stripper sight tube for sediment buildup. In addition, the operation of the transfer sump pump and associated high level float were checked. The settling tank interior was also visually inspected for signs of sediment buildup or corrosion and the reservoir level was checked during each monthly visit.

2.2.1 Recovery Well Pump Inspection

The recovery wells were not inspected during this monitoring period due to the system being shut down.

2.2.2 100,000 Gallon Reservoir Inspection

The annual inspection of the 100,000 gallon reservoir was performed on May 19, 2010. The visual inspection of the reservoir did not reveal any problems. A hand held spotlight was used to assist personnel in the inspection of the interior reservoir walls. There were no signs of cracks in the concrete or any type of buildup or growth activity. The standpipe was observed to be in good condition. Only a few feet of standing water remained in the reservoir.

2.2.3 Air Stripper Tower Inspection

The air stripper tower was not inspected during this monitoring period due to the system being shut down. The tower is free of water.

2.3 Operating Measurements

2.3.1 Water Flow Measurements

Water flow measurements for well RW-2D was collected during monthly site visits as presented in **Table 3**, **Process Operating Report**. The instantaneous totalizer readings collected at the Site demonstrate average recovery well water flow rates for the period of January 1 to June 30, 2009 as follows:

Well RW-1D: 0.0000 gpm

Well RW-2D: 0. 2726 gpm

System Avg: 0. 2726 gpm

Average daily water flow data as recorded by the on-site data logger are provided in **Appendix A**. Information obtained from the data logger indicates an average daily water flow rate of 1.55 gpm for the system operating period (January 1 through 21 2010). The average water flow rate calculated from field observations during the limited operation period is statistically the same to the average daily water flow rate calculated from the data logger 1.55, confirming the data logger's accuracy and usefulness in verifying field observations.

2.3.2 Blower Air Pressure

Measurements of the air stripper blower back pressure were recorded on a weekly basis via RTU monitoring and during monthly O&M site visits. A pressure reading of 3.0 inches of water was also collected during the January 15, 2010 monthly O&M site visit from the pressure gauge installed to monitor the air stripper back pressure are provided in **Table 3**. No other readings were collected during monthly visits due to the system shut down on February 11, 2010. The recorded pressure reading was well within the acceptable range of readings that are specified in the *Operation and Maintenance Manual, Remedial Work Element I, Drinking Water, IT Corporation, Inc., January 15, 2002*.

2.4 Water Quality Data

2.4.1 Sample Collection

Samples of the drinking water system influent and effluent were not collected during this monitoring period due to the system shut down on February 11, 2010.

3.0 O&M OF REMEDIAL WORK ELEMENT II (Groundwater)

3.1 Sample Collection

Modifications to the Early Warning Monitoring System (EWMS) monitoring program have been specified in *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). In accordance with the *Operations and Maintenance Manual for Remedial Work Element II - Ground Water, ERM Northeast, Inc., January 22, 1998,* (O&M-GW) and Addendum No. 1, unfiltered groundwater samples were collected on May 12 and 13, 2009 from the EWMS. In accordance with 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"* and a letter from GE to the USEPA dated October 26, 2004, EWMS samples were collected from monitoring wells DGC-3S, DGC-4S, 4D, 11D, 13D, 14D, M-24DR, M-25D, M-27D, M-29D (**Figure 1**). Blind duplicate samples were collected from well 13D for VOCs, chromium and hexavalent chromium. Trip blanks were also analyzed.

Samples from all designated monitoring well sampling locations were analyzed for VOCs by USEPA Method OLC-02.1 by Columbia Analytical Services, Inc. in Rochester, New York. Samples from wells 13D and 27D 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). Results of the May 2010 semi-annual EWMS sampling event are summarized in **Table 4**. The laboratory reports are presented in **Appendix B**. The data validation report is included in **Appendix C**. 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 5**, **6**, and **7**.

In accordance with the O&M-GW, time vs. 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.

3.2 Chromium Analytical Results

Results of the unfiltered total chromium analysis collected in May 2010 at wells 13D and 27D indicated estimated concentrations of 3.4 µg/l and 1.1 µg/l, respectively. These concentrations are below the New York State Ground Water Standard (NYSGWS) of 50 µg/l.

Analytical results showed no detectable concentrations of hexavalent chromium at the method detection limit of 10 µg/l for both groundwater samples (13D & M-27D). The NYSGWS for hexavalent chromium is 50 µg/l.

3.3 VOC Analytical Results

Carbon tetrachloride was detected in monitoring wells M-24DR, M-25D, M-27D and M-29D at concentrations of 5.5 µg/l, 35 µg/l, 4.2 µg/l, and 28 µg/l, respectively. All other monitoring well sample locations were non-detect for carbon tetrachloride during the reporting period. The time vs. concentration plot for carbon tetrachloride in well M-27D is presented in **Figure 2**.

Chloroform was detected in monitoring wells 11D and M-29D at concentrations of 1.3 µg/l and 2.8 µg/l, respectively. In addition chloroform was detected at estimated concentrations in monitoring wells M-24DR and M-25D at concentrations of 0.25 µg/l and 3.0 µg/l, respectively.

Trichloroethene (TCE) was detected in monitoring wells in M-24DR, M-25D, M-27D, M-29D and 11D at concentrations of 18 µg/l, 76 µg/l, 9.3 µg/l, 21 µg/l and 1.5 µg/l respectively. 1,1,1-Trichloroethane was detected in monitoring well M-29D at a concentration of 4.2 µg/l. TCE, and 1,1,1-trichloroethane were not detected at the remainder of the monitoring well locations during this reporting period. The NYSGWS for TCE, trichlorofluoromethane and 1,1,1-trichloroethane is 5 µg/l.

3.4 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 much higher than the observed concentrations.

4.0 INSTITUTIONAL CONTROLS

O&M activities for remedial Work Element IV, Institutional Controls, are conducted on an annual basis. Shaw conducts visual inspections of the environmental restriction zone during each of the semi-annual groundwater sampling activities. An evaluation of environmental easement restrictions is performed each fall via interviews with property owner representatives.

5.0 SUMMARY

5.1 Drinking Water

As approved by the EPA, groundwater was no longer being used as potable water and the drinking water treatment system was shut down on February 11, 2010. Prior to shut down, the system was operating effectively.

5.2 Early Warning Monitoring System (EWMS)

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

- Total chromium was detected at monitoring wells 13D and 27D. The Chromium detections collected from these monitoring wells were below the NYSGWS of 50 µg/l.
- Hexavalent chromium was not detected at the any of the monitoring well locations.
- Carbon tetrachloride was detected in monitoring wells M-24DR, M-25D, M-27D and M-29D, at concentrations of 5.5 µg/l, 35 µg/l, 4.2 µg/l, and 28 µg/l, respectively. The NYSGWS for carbon tetrachloride is 5 µg/l. All other water sample locations were non-detect for carbon tetrachloride during the reporting period.
- Chloroform was detected in monitoring wells 11D and M-29D at concentrations of 1.3 µg/l and 2.8 µg/l, respectively. In addition chloroform was detected at estimated concentrations in monitoring wells M-24DR and M-25D at concentrations of 0.25 µg/l and 3.0 µg/l, respectively. The NYSGWS for chloroform is 7 µg/l.
- TCE was detected in monitoring wells in M-24DR, M-25D, M-27D, M-29D and 11D at concentrations of 18 µg/l, 76 µg/l, 9.3 µg/l, 21 µg/l and 1.5 µg/l respectively. 1,1,1-Trichloroethane was detected in monitoring well M-29D at a concentration of 4.2 µg/l. TCE, and 1,1,1-trichloroethane were not detected at the remainder of the monitoring well locations during this reporting period. The NYSGWS for TCE and 1,1,1-trichloroethane is 5 µg/l.
- As shown in **Figure 3**, simulated concentrations of carbon tetrachloride are much higher than the observed concentrations.

TABLES

TABLE 1
MAINTENANCE CHECKLIST
OPERATION AND MAINTENANCE PLAN
TEST STATION WATER SUPPLY AND TREATMENT SYSTEM
MALTA ROCKET FUEL AREA SITE

Equipment Name	Item	Action	Frequency	Comments
Well Pump 1D	Pump bowls	Check for signs of iron fouling & impeller wear	Annually	More frequently if problems occur
Well Pump 2D	Pump bowls	Check for signs of iron fouling & impeller wear	Annually	More frequently if problems occur
Control Valves	Miscellaneous	Inspect for leaks	Monthly	Exercise valves annually
Air Stripper Sight Tube		Inspect for siltation and biofouling	Monthly	Adjust frequency depending on operating experience
Air Stripper Spray Nozzle		Inspect for fouling	Annually	No required routine maintenance
Air Stripper Blower	Intake	Inspect and clean	Monthly	Adjust frequency depending on operating experience
Air Stripper Blower	Motor & bearings	Check and lubricate	Annually	More frequently as problems occur
Air Stripper Unit	Packing	Clean or replace	Every 5 years	Adjust frequency depending on operating experience

TABLE 1
MAINTENANCE CHECKLIST
OPERATION AND MAINTENANCE PLAN
TEST STATION WATER SUPPLY AND TREATMENT SYSTEM
MALTA ROCKET FUEL AREA SITE

Equipment Name	Item	Action	Frequency	Comments
Mist Eliminator	Mesh screen	Clean or replace	Annually	Adjust frequency depending on operating experience
Settling Tank		Inspect for siltation	Monthly	Adjust frequency depending on operating experience
Settling Tank High Level Float Switch		Check operation	Monthly	Replace float switch every 5 years
100K Gallon Reservoir		Inspect for siltation, debris, etc.	Annually	Adjust frequency depending on operating experience
Level Sensor	Probe	Manually check start-up/shutdown. Check probe float for free range of motion. Remove and inspect for buildup of minerals if resistance is detected.	Monthly	Adjust frequency depending on operating experience
Misc. Guys, Hardware etc.		Inspect	Annually	Adjust frequency depending on operating experience
System Interlocks	Settling Tank High Level Blower Low Pressure Blower Low Amps Building Low Temperature	Check for proper operation. System should alarm after pre-set delay period.	Monthly	Adjust frequency depending on operating experience

TABLE 2
EQUIPMENT LOG,
AIR STRIPPER MAINTENANCE
MALTA ROCKET FUEL AREA SITE

Date	Operator	Operational Status of System	Work Performed
01/15/10	Brian Neumann/ John Moyer	Arrival – OK Departure – OK	Monthly O&M visit. System interlock testing performed – all OK. .
02/11/10	Marc Flanagan/ Jennifer Flanagan	Arrival – Not OK Departure – Off	System Shut Down - boiler not functioning, water frozen in sight tube for air stripper. System shut down and winterized.
03/11/10	Brian Neumann	Arrival – Off Departure – Off	Monthly O&M visit. RW-1D and RW-2D still locked out. Reservoir showing 2 feet of water.
04/19/10	Brian Neumann/ Marc Flanagan	Arrival – Off Departure – Off	Repair of damaged monitoring wells 11S and 11D.
04/22/10	Brian Neumann/ Marc Flanagan	Arrival – Off Departure – Off	Monthly O&M visit. RW-1D and RW-2D still locked out.
05/19/10	Marc Flanagan	Arrival – Off Departure – Off	Monthly O&M visit. RW-1D and RW-2D still locked out. Reservoir empty. Collect samples from monitoring wells.
06/16/10	Marc Flanagan	Arrival - Off Departure – Off	Monthly O&M visit. RW-1D and RW-2D still locked out.

TABLE 3
PROCESS OPERATING REPORT
WATER TREATMENT SYSTEM
MALTA ROCKET FUEL AREA SITE

1	2	3					4					5
DATE	TIME	WATER FLOW --LINE 1D					WATER FLOW --LINE 2D					PROBLEMS OR COMMENTS
		1D LINE FLOW METER RDG(GPM)	1D LINE TOTALIZER RDG(GAL)	ELAPSED TIME (DAYS)	TOTAL FLOW THIS PERIOD (GAL)	AVG FLOW THIS PERIOD (GPM)	2D LINE FLOW METER RDG(GPM)	2D LINE TOTALIZER RDG(GAL)	ELAPSED TIME (DAYS)	TOTAL FLOW THIS PERIOD (GAL)	AVG FLOW THIS PERIOD (GPM)	
12/23/2009	9:00	0.0	4,703,000	21	NA	NA	6.6	7,823,000	21	NA	NA	Recorded in previous report, replicated here for calculation purposes.
1/15/2010	9:00	0.0	4,703,000	23	0	0.00	6.7	7,854,300	23	31,300	0.95	RW-1 is on LOTO
2/11/2010	15:50	0.0	4,703,000	27	0	0.00	0.0	7,891,700	27	37,400	0.96	RW-1 and RW-2 are on LOTO
3/11/2010	11:00	0.0	4,703,000	28	0	0.00	0.0	7,891,700	28	0	0.00	RW-1 and RW-2 are on LOTO
4/19/2010	10:40	0.0	4,703,000	39	0	0.00	0.0	7,891,700	39	0	0.00	RW-1 and RW-2 are on LOTO
4/22/2010	9:40	0.0	4,703,000	3	0	0.00	0.0	7,891,700	3	0	0.00	RW-1 and RW-2 are on LOTO
5/19/2010	12:30	0.0	4,703,000	27	0	0.00	0.0	7,891,700	27	0	0.00	RW-1 and RW-2 are on LOTO
6/16/2010	14:00	0.0	4,703,000	28	0	0.00	0.0	7,891,700	28	0	0.00	RW-1 and RW-2 are on LOTO
Summary				175	0	0.0000			175	68,700	0.2726	

NR = Not Recorded
NA = Not Applicable
LOTO = Lock Out Tag Out

TABLE 3
PROCESS OPERATING REPORT
WATER TREATMENT SYSTEM
MALTA ROCKET FUEL AREA SITE

1	2	3			4	5
DATE	TIME	STANDPIPE LEVEL (FT)	LEVEL PROBE OK ?	SAMPLES TAKEN ?	AIR BLOWER PRESSURE OK?	PROBLEMS OR COMMENTS
1/15/2010	9:00	--	Manual check, fill tube not read	No	Yes - 3.0	Monthly O&M visit. Interlock checks OK. RW-1 remains LOTO. Faulty pressure tank continues to leak.
2/11/2010	15:50	--	System off	No	No	System Shut Down. RW-1 and RW-2 are LOTO. Facility cant deliver water. Reservoir near empty.
3/11/2010	11:00	--	System off	No	No	Monthly O&M visit. System Remains Off, RW-1 and RW-2 remain LOTO. Facility cant deliver water. Reservoir near empty.
4/19/2010	10:40	--	System off	No	No	Well Repair Visit. System Remains Off, RW-1 and RW-2 remain LOTO.
4/22/2010	9:40	--	System off	No	No	Monthly O&M visit. System Remains Off, RW-1 and RW-2 remain LOTO.
5/19/2010	12:30	--	System off	No	No	Monthly O&M visit. System Remains Off, RW-1 and RW-2 remain LOTO.
6/16/2010	14:00	--	System off	No	No	Monthly O&M visit. System Remains Off, RW-1 and RW-2 remain LOTO.

Notes:
LOTO = Lock Out Tag Out
-- = Water was not visible

TABLE 4
MAY 2010 WATER QUALITY ANALYTICAL RESULTS
SEMI-ANNUAL SAMPLING

Compound	Remedial Action Objective	4D	DGC-3S	DGC-4S	11D	13D	14 D	M-24DR	M-25D	M-27D	DUP A M-27D
Acetone	50	5 UJ	5 UJ	5 UJ	5 UJ	--	5 UJ	5 UJ	25 UJ	5 UJ	5 UJ
Carbon Disulfide	None*	1 U	1 U	1 U	1 U	--	1 U	1 U	5 U	1 U	1 U
Carbon Tetrachloride	5	1 U	1 U	1 U	11	--	1 U	5.5	35	4.2	4.8
Chloroform	7	1 U	1 U	1 U	1.3	--	1 U	0.25 J	3.0 J	1 U	1 U
2-Butanone	5	5 U	5 U	5 U	5 U	--	5 UJ	5 U	25 U	5 U	5 U
Trichloroethene	5	1 U	1 U	1 U	1.5	--	1 U	18	76	9.3	10
Trichlorofluoromethane	5*	1 U	1 U	1 U	1 U	--	1 U	1 U	5 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	--	1 U	1 U	5 U	1 U	1 U
1,1-Dichloroethene	NP	1 U	1 U	1 U	1 U	--	1 U	1 U	5 U	1 U	1 U
Chromium	50*	NA	NA	NA	NA	3.4 J	NA	NA	NA	1.1 J	0.861 J
Hexavalent Chromium	50*	NA	NA	NA	NA	10 U	NA	NA	NA	10 U	10 U
Field Parameters											
pH	--	7.48	6.23	7.26	7.23	7.19	7.24	8.13	6.39	7.15	--
Temperature (celsius)	--	9.19	8.38	11.25	10.02	10.11	9.3	9.71	10.05	10.01	--
Conductivity (umhos/cm)	--	0.135	0.480	0.201	0.322	0.278	0.29	0.263	0.405	0.274	--
Dissolved Oxygen	--	0.0	6.51	3.49	8.4	0.0	11.5	9.28	8.41	9.24	--
Turbidity (NTUs)	--	47.0	39.3	34.4	10.2	56.4	10.1	3.5	4.0	4.7	--
Depth To Water (feet)	--	35.35	10.60	4.38	26.5	32.75	38.41	34.33	26.90	35.80	--
Ground Water Elevation (feet)	--	170.45	195.20	201.42	302.77	296.52	290.86	286.24	287.56	268.47	--

Notes:
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.
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.
9. NP - Not promulgated.

TABLE 4
MAY 2010 WATER QUALITY ANALYTICAL RESULTS
SEMI-ANNUAL SAMPLING

Compound	Remedial Action Objective	M-29D	Trip Blank	Trip Blank	Cooler Blank	SW-A	SW-B	SW-D	SW-E	SW-F	SW-G
Acetone	50	10 UJ	2.3 J	1.4 J	5 UJ	--	--	--	--	--	--
Carbon Disulfide	None*	2 U	1 U	1 U	1 U	--	--	--	--	--	--
Carbon Tetrachloride	5	28	1 U	1 U	1 U	--	--	--	--	--	--
Chloroform	7	2.8	1 U	1 U	1 U	--	--	--	--	--	--
2-Butanone	5	10 U	5 U	5 U	5 U	--	--	--	--	--	--
Trichloroethene	5	21	1 U	1 U	1 U	--	--	--	--	--	--
Trichlorofluoromethane	50*	2 U	1 U	1 U	1 U	--	--	--	--	--	--
1,1,1-Trichloroethane	5	4.2	1 U	1 U	1 U	--	--	--	--	--	--
1,1-Dichloroethene	NP	2 U	1 U	1 U	1 U	--	--	--	--	--	--
Chromium	50*	NA	NA	NA	NA	--	--	--	--	--	--
Hexavalent Chromium	50*	NA	NA	NA	NA	--	--	--	--	--	--
Field Parameters											
pH	--	6.8	--	--	--	--	--	--	--	--	--
Temperature (celsius)	--	10.27	--	--	--	--	--	--	--	--	--
Conductivity (umhos/cm)	--	0.38	--	--	--	--	--	--	--	--	--
Dissolved Oxygen	--	9.01	--	--	--	--	--	--	--	--	--
Turbidity (NTUs)	--	3.5	--	--	--	--	--	--	--	--	--
Depth To Water (feet)	--	42.27	--	--	--	--	--	--	--	--	--
Ground Water Elevation (feet)	--	292.39	--	--	--	--	--	--	--	--	--

Notes:
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.
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.
9. NP - Not promulgated.

TABLE 5
SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS DGC-3S, DGC-4S, 13S
JUNE 1987 - MAY 2010
SEMI-ANNUAL SAMPLING

Wells / Compounds	Remedial 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
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												
Carbon Disulfide	None*	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
Chromium	50*	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
13S												
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.
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** = Filtered Sample.
See RI report for additional data.

TABLE 5
SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS DGC-3S, DGC-4S, 13S
JUNE 1987 - MAY 2010
SEMI-ANNUAL SAMPLING

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
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	None*	- -	- -	- -	- -	ND/0.5Vdp	ND	ND	ND	ND	ND	ND/ND dp
Chromium	50*	- -	- -	- -	- -	NA	NA	15.9	11.9 E	ND/ND*	ND/ND*	ND/ND dp
13S												
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.
See RI report for additional data.

TABLE 5
SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS DGC-3S, DGC-4S, 13S
JUNE 1987 - MAY 2010
SEMI-ANNUAL SAMPLING

Wells / Compounds	Remedial Action Objective	11/18-11/19/1992	3/17-3/18/1993	5/25-5/26/1993	8/24-8/25/1993	11/8-11/9/1993	2/22-2/23/1994	5/18-5/19/1994	8/24-8/25/1994	11/15-11/16/1994	5/23/1995	10/17/1995
DGC-3S												
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
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	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
13S												
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.

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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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** = Filtered Sample.

See RI report for additional data.

TABLE 5
SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS DGC-3S, DGC-4S, 13S
JUNE 1987 - MAY 2010
SEMI-ANNUAL SAMPLING

Wells / Compounds	Remedial Action 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
DGC-3S												
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
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	None*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
13S												
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 µg/l (ppb) unless otherwise stated.
Only detected compounds are listed.
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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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** = Filtered Sample.
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TABLE 5
SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS DGC-3S, DGC-4S, 13S
JUNE 1987 - MAY 2010
SEMI-ANNUAL SAMPLING

Wells / Compounds	Remedial Action 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
DGC-3S												
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
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	None*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
13S												
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 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.
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** = Filtered Sample.
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TABLE 5
SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS DGC-3S, DGC-4S, 13S
JUNE 1987 - MAY 2010
SEMI-ANNUAL SAMPLING

Wells / Compounds	Remedial Action Objective	5/14/2007	10/16/2007	5/15/2008	10/13/2008	5/13/2009	11/11/2009	5/19/2010
DGC-3S								
Benzene	0.7*	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	None*	ND	ND	ND	ND	ND	ND	ND
Aluminum	100*	NA	NA	NA	NA	NA	NA	NA
Lead	25*	NA	NA	NA	NA	NA	NA	NA
Chromium	50*	NA	NA	NA	NA	NA	NA	NA
Hexavalent Chromium	50*	NA	NA	NA	NA	NA	NA	NA
DGC-4S								
Carbon Disulfide	None*	ND	ND	ND	ND	ND	ND	ND
Chromium	50*	NA	NA	NA	NA	NA	NA	NA
13S								
Benzene	0.7*	NS	NS	NS	NS	NS	NS	NS
Carbon Disulfide	None*	NS	NS	NS	NS	NS	NS	NS
Carbon Tetrachloride	5	NS	NS	NS	NS	NS	NS	NS
Chloroform	7	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	5	NS	NS	NS	NS	NS	NS	NS
Trichlorofluoromethane	5*	NS	NS	NS	NS	NS	NS	NS
Chromium	50*	NS	NS	NS	NS	NS	NS	NS
Hexavalent Chromium	50*	NS	NS	NS	NS	NS	NS	NS

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.

See RI report for additional data.

TABLE 6
SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS M-27S, M-27D, M-33S, M-33I
JUNE 1992 - MAY 2010
SEMI-ANNUAL SAMPLING

M-27S	Remedial Action 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													
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** 2.0 B/ND** dp	19.8/ND**	not sampled	ND/ND dp	ND	ND	ND	ND	1.2B	ND	4.6 BJ / 4.8 BJ dp	1.4 B / 1.3 B dp
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	ND	ND	ND	ND	ND	ND	ND	ND	ND
M-33I													
VOCs	-	not sampled	not sampled	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

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

Only detected compounds are listed.

NA = Not analyzed.

ND = Not detected.

J = Estimated concentration.

dp = Duplicate sample.

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

* 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 6
SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS M-27S, M-27D, M-33S, M-33I
JUNE 1992 - MAY 2010
SEMI-ANNUAL SAMPLING

M-27S	Remedial Action 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 / ND dp	ND / ND dp	ND / ND dp	ND UJ	ND U / ND dp	ND	ND	NA
M-27D													
Carbon Tetrachloride	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
Chloroform	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
Chloromethane	5	ND	ND / ND dp	ND / ND dp	ND	ND	ND	ND	ND ND dp	ND	ND ND dp	ND	ND
Trichloroethene	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
Trichlorofluoromethane	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
Chromium	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
Hexavalent Chromium	50*	ND	ND/ND dp	ND/ND dp	ND	ND	ND	ND	ND / ND dp	ND	ND / ND dp	ND	ND
M-33S													
VOCs	-	ND	ND	ND	8.0 J	ND	ND	ND	ND	ND	ND	ND	ND
M-33I													
VOCs	-	ND	ND	ND	4.1 J	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

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

Only detected compounds are listed.

NA = Not analyzed.

ND = Not detected.

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 6
SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS M-27S, M-27D, M-33S, M-33I
JUNE 1992 - MAY 2010
SEMI-ANNUAL SAMPLING

M-27S	Remedial Action 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
Carbon Disulfide	None*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexavalent Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
M-27D											
Carbon Tetrachloride	5	13	22	12	15	10	11	9	7.6	5.8	4.2
Chloroform	7	ND	2	0.76J	2	0.7J	ND	0.6 J	0.30 J	0.31 J	ND
Chloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	0.13 J	ND
Trichloroethene	5	24	16	21	15	14	13	11	11	10	9.3
Trichlorofluoromethane	5*	1.0	1 J	1.0	0.9J	0.8J	0.6J	0.3 J	0.15 J	ND	ND
Chromium	50*	1.6 B	2.7	1.7 BJ	ND	ND	ND	0.810	0.88	ND	1.1 J
Hexavalent Chromium	50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
M-33S											
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.

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.

-- = Well Removed according to instruction by Environmental Protection Agency

TABLE 7
SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS 4D, 11D, M-24D, M-25D, M-29D, 13D
JUNE 1992 - MAY 2010
SEMI-ANNUAL SAMPLING

Wells / Compounds	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
4D															
Acetone	50	ND	ND R	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
Carbon Tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
11D															
Acetone	50	ND	ND R	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.8 J	NS	ND
Carbon Tetrachloride	5	ND	6	4.6	13	14	15	12	12	13	11	10	11	NS	11
Chloroform	7	ND	3	ND	4.0	3.0	4.0	3.0	3	2	ND	2	1.4	NS	1.3
Trichloroethene	5	9J	7	ND	0.8 J	0.9J	1 J	2.0	1	1	1	2	1.6	NS	1.5
M-24D															
Acetone	50	ND	ND R	ND	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---
Carbon 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	---	---	---
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---
M-24DR															
Acetone	50	--	--	--	--	--	--	--	--	--	--	--	ND	ND	ND
Carbon Tetrachloride	5	--	--	--	--	--	--	--	--	--	--	--	16	13	5.5
Chloroform	7	--	--	--	--	--	--	--	--	--	--	--	0.68 J	0.43 J	0.25 J
Trichloroethene	5	--	--	--	--	--	--	--	--	--	--	--	49	39	18
M-25D															
Acetone	50	ND	ND R	ND	ND	ND	49 D*	25 JD	ND	ND	ND	ND	7.3 J	ND	ND
Carbon Tetrachloride	5	48	27R	86.8 D	81 D	91	76 D*	71 D	60	65	56	52	52	40	35
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
Trichloroethene	5	3J	8R	16.1	35 D	37	28 D*	22 D	31	34	52	79 D	93	79	76
M-29D															
Acetone	50	ND	ND R	ND	ND	ND	16 D*	ND	ND	ND	ND	ND	4.4 J	ND	ND
Carbon Tetrachloride	5	79	84	10.8	38 D	37	39 D*	33 D	32	34	33	32	30	27	28
Chloroform	7	ND	14	ND	4.0	5.0	5 D*	4 D	3	3	ND	2	2.5	2.7	2.8
Trichloroethene	5	19	24	6.0	14	13	14 D*	12 D	11	11	11	10	11	16	21
13D															
Chromium	50*	98.4	38.9 J	4.5 B	78.3	60.8 J	11	17.1	25.3	5.2B	13.2	7.3	7.1	4.0 J	3.4 J
Hexavalent Chromium	50*	NA	NA	10 U	10 U	10 U	10 U	14.2	10 U	10 U	10 U	10 U	10 U	10 U	10 U

Notes:

Units are µg/l (ppb) unless otherwise stated.
Only detected compounds are listed.
See Remedial Investigation report for additional c
NA = Not analyzed.
ND = Not detected.
NS = Not sampled.
B = The reported value is less than the CRQL/CR
dp = Duplicate sample.
E = Estimated concentration: due to interference.
R = Analysis rejected

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 March, 2009.
--- = Well Removed according to instruction by Environmental Protection Agency
* 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.

FIGURES

OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
ALBANY, NY	S. SHKOLNIK 07/14/09			134815D1

ROUTE 9P

COLD SPRINGS WELLS

COLD SPRINGS ROAD

CRAMER ROAD

SW-E

SW-F

SW-G

7

8

6a

6b

M-33S/33I

LUTHER FOREST
RESIDENTIAL
DEVELOPMENT

M-26S/26D

M-11S/11D

M-24S/24D

M-24DR

M-15

M-31S/31D

M-34

M-28S/28D

4S/4D

MW-4

M-18

M-30

M-1/14D

M-32

M-29S/29D

M-17

2S

M-19

MW-3

RW-1D

M-16

M-23

MW-2

M-35S/35I

M-25S/25D

10S/10D

13S/13D

RW-2D

3S/3D

PLAINS ROAD

M-22

M-21

M-20

1a

1b

SW-D

M-27S/27D

2b

2c

SW-B

SW-A

DGC-3S

DGC-4S

PW-4

PW-3

PW-2

PW-1

PW-6

KNAPP ROAD

LEGEND

RW-1D	RECOVERY WELL
M-23	SINGLE WELL LOCATION
DGC-4S	WELL PAIR LOCATION & ID#
PW-2	PUMPING WELL LOCATION & ID#
M-24S	ABANDONED WELL LOCATION
M-24DR	REPLACED WELL LOCATION
	LUTHER FOREST WELL FIELD
SW-D	SURFACE WATER SAMPLE LOCATION & ID#
6b	RAVINE LOCATION & ID#
	APPROXIMATE MRFA SITE BOUNDARY
	250' GROUND SURFACE CONTOUR LINE
	ENVIRONMENTAL RESTRICTION BOUNDARY

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

REFERENCE:
BASE MAP SOURCE: ERM-NORTHEAST
ENVIRONMENTAL RESOURCES MANAGEMENT

DRAWING NOT TO SCALE

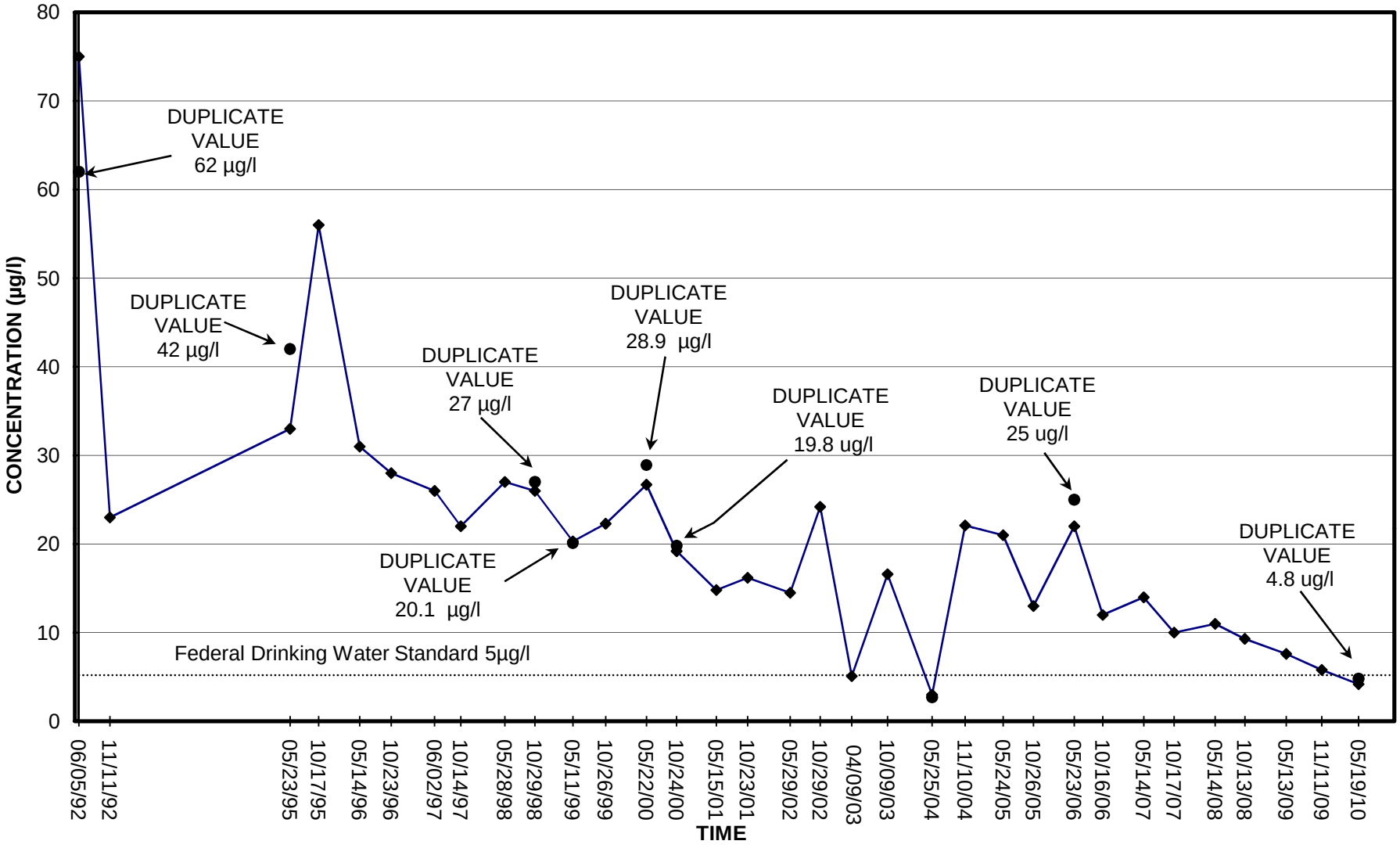
Shaw
Shaw Environmental, Inc.

MALTA ROCKET FUEL AREA SITE
MALTA, NEW YORK

FIGURE 1
SITE LOCATION MAP

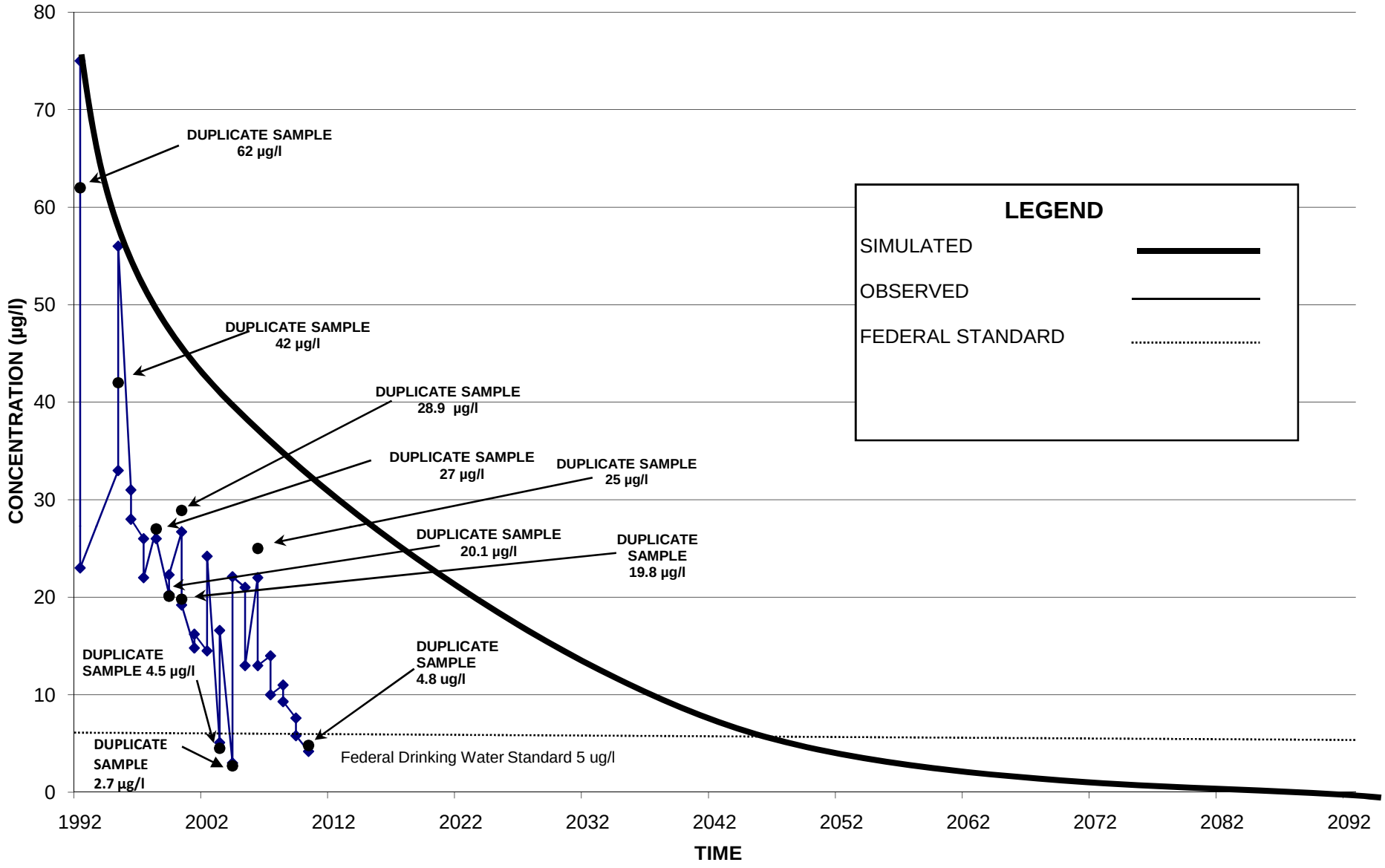
L:\project\MRFA\134815\134815D1.dwg
Plot Date/Time: 08/05/09 11:00am
Format Revised: 11/23/99
Image: .
Xref: .

FIGURE 2
WELL M-27D CARBON TETRACHLORIDE CONCENTRATIONS



X:\MG\MRFA\Jan Thru June 2010\Figures 2-3.xlsx

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



X:\MG\MRFA\Jan Thru June 2010\Figures 2-3.xlsx

APPENDIX A

AIR STRIPPER FLOW DATA

Date		Well #2 Flow (gal)	Well #1 Flow (gal)	Well #2 Average (gpm)	Well #1 Average (gpm)	Total Daily Average Flow (gpm)
1/1/2010	Total	1,270	0	0.88	0.00	0.88
1/2/2010	Total	1,200	0	0.83	0.00	0.83
1/3/2010	Total	950	0	0.66	0.00	0.66
1/4/2010	Total	1,210	0	0.84	0.00	0.84
1/5/2010	Total	1,300	0	0.90	0.00	0.90
1/6/2010	Total	1,190	0	0.83	0.00	0.83
1/7/2010	Total	1,150	0	0.80	0.00	0.80
1/8/2010	Total	1,030	0	0.72	0.00	0.72
1/9/2010	Total	1,240	0	0.86	0.00	0.86
1/10/2010	Total	1,190	0	0.83	0.00	0.83
1/11/2010	Total	1,270	0	0.88	0.00	0.88
1/12/2010	Total	1,030	0	0.72	0.00	0.72
1/13/2010	Total	1,220	0	0.85	0.00	0.85
1/14/2010	Total	1,230	0	0.85	0.00	0.85
1/15/2010	Total	1,280	0	0.89	0.00	0.89
1/16/2010	Total	1,170	0	0.81	0.00	0.81
1/17/2010	Total	970	0	0.67	0.00	0.67
1/18/2010	Total	1,620	0	1.13	0.00	1.13
1/19/2010	Total	9,940	0	6.90	0.00	6.90
1/20/2010	Total	10,010	0	6.95	0.00	6.95
1/21/2010	Total	3,040	0	2.11	0.00	2.11
1/22/2010	Total	0	0	0.00	0.00	0.00
1/23/2010	Total	0	0	0.00	0.00	0.00
1/24/2010	Total	0	0	0.00	0.00	0.00
1/25/2010	Total	0	0	0.00	0.00	0.00
1/26/2010	Total	0	0	0.00	0.00	0.00
1/27/2010	Total	0	0	0.00	0.00	0.00
1/28/2010	Total	0	0	0.00	0.00	0.00
1/29/2010	Total	0	0	0.00	0.00	0.00
1/30/2010	Total	0	0	0.00	0.00	0.00
1/31/2010	Total	0	0	0.00	0.00	0.00
2/1/2010	Total	0	0	0.00	0.00	0.00
2/2/2010	Total	0	0	0.00	0.00	0.00
2/3/2010	Total	0	0	0.00	0.00	0.00
2/4/2010	Total	0	0	0.00	0.00	0.00
2/5/2010	Total	0	0	0.00	0.00	0.00
2/6/2010	Total	0	0	0.00	0.00	0.00
2/7/2010	Total	0	0	0.00	0.00	0.00
2/8/2010	Total	0	0	0.00	0.00	0.00
2/9/2010	Total	0	0	0.00	0.00	0.00
2/10/2010	Total	0	0	0.00	0.00	0.00
2/11/2010	Total	0	0	0.00	0.00	0.00
2/12/2010	Total	0	0	0.00	0.00	0.00
2/13/2010	Total	0	0	0.00	0.00	0.00
2/14/2010	Total	0	0	0.00	0.00	0.00
2/15/2010	Total	0	0	0.00	0.00	0.00
2/16/2010	Total	0	0	0.00	0.00	0.00
2/17/2010	Total	0	0	0.00	0.00	0.00
2/18/2010	Total	0	0	0.00	0.00	0.00
2/19/2010	Total	0	0	0.00	0.00	0.00

Date		Well #2 Flow (gal)	Well #1 Flow (gal)	Well #2 Average (gpm)	Well #1 Average (gpm)	Total Daily Average Flow (gpm)
2/20/2010	Total	0	0	0.00	0.00	0.00
2/21/2010	Total	0	0	0.00	0.00	0.00
2/22/2010	Total	0	0	0.00	0.00	0.00
2/23/2010	Total	0	0	0.00	0.00	0.00
2/24/2010	Total	0	0	0.00	0.00	0.00
2/25/2010	Total	0	0	0.00	0.00	0.00
2/26/2010	Total	0	0	0.00	0.00	0.00
2/27/2010	Total	0	0	0.00	0.00	0.00
2/28/2010	Total	0	0	0.00	0.00	0.00
3/1/2010	Total	0	0	0.00	0.00	0.00
3/2/2010	Total	0	0	0.00	0.00	0.00
3/3/2010	Total	0	0	0.00	0.00	0.00
3/4/2010	Total	0	0	0.00	0.00	0.00
3/5/2010	Total	0	0	0.00	0.00	0.00
3/6/2010	Total	0	0	0.00	0.00	0.00
3/7/2010	Total	0	0	0.00	0.00	0.00
3/8/2010	Total	0	0	0.00	0.00	0.00
3/9/2010	Total	0	0	0.00	0.00	0.00
3/10/2010	Total	0	0	0.00	0.00	0.00
3/11/2010	Total	0	0	0.00	0.00	0.00
3/12/2010	Total	0	0	0.00	0.00	0.00
3/13/2010	Total	0	0	0.00	0.00	0.00
3/14/2010	Total	0	0	0.00	0.00	0.00
3/15/2010	Total	0	0	0.00	0.00	0.00
3/16/2010	Total	0	0	0.00	0.00	0.00
3/17/2010	Total	0	0	0.00	0.00	0.00
3/18/2010	Total	0	0	0.00	0.00	0.00
3/19/2010	Total	0	0	0.00	0.00	0.00
3/20/2010	Total	0	0	0.00	0.00	0.00
3/21/2010	Total	0	0	0.00	0.00	0.00
3/22/2010	Total	0	0	0.00	0.00	0.00
3/23/2010	Total	0	0	0.00	0.00	0.00
3/24/2010	Total	0	0	0.00	0.00	0.00
3/25/2010	Total	0	0	0.00	0.00	0.00
3/26/2010	Total	0	0	0.00	0.00	0.00
3/27/2010	Total	0	0	0.00	0.00	0.00
3/28/2010	Total	0	0	0.00	0.00	0.00
3/29/2010	Total	0	0	0.00	0.00	0.00
3/30/2010	Total	0	0	0.00	0.00	0.00
3/31/2010	Total	0	0	0.00	0.00	0.00
4/1/2010	Total	0	0	0.00	0.00	0.00
4/2/2010	Total	0	0	0.00	0.00	0.00
4/3/2010	Total	0	0	0.00	0.00	0.00
4/4/2010	Total	0	0	0.00	0.00	0.00
4/5/2010	Total	0	0	0.00	0.00	0.00
4/6/2010	Total	0	0	0.00	0.00	0.00
4/7/2010	Total	0	0	0.00	0.00	0.00
4/8/2010	Total	0	0	0.00	0.00	0.00
4/9/2010	Total	0	0	0.00	0.00	0.00
4/10/2010	Total	0	0	0.00	0.00	0.00
4/11/2010	Total	0	0	0.00	0.00	0.00

Date		Well #2 Flow (gal)	Well #1 Flow (gal)	Well #2 Average (gpm)	Well #1 Average (gpm)	Total Daily Average Flow (gpm)
4/12/2010	Total	0	0	0.00	0.00	0.00
4/13/2010	Total	0	0	0.00	0.00	0.00
4/14/2010	Total	0	0	0.00	0.00	0.00
4/15/2010	Total	0	0	0.00	0.00	0.00
4/16/2010	Total	0	0	0.00	0.00	0.00
4/17/2010	Total	0	0	0.00	0.00	0.00
4/18/2010	Total	0	0	0.00	0.00	0.00
4/19/2010	Total	0	0	0.00	0.00	0.00
4/20/2010	Total	0	0	0.00	0.00	0.00
4/21/2010	Total	0	0	0.00	0.00	0.00
4/22/2010	Total	0	0	0.00	0.00	0.00
4/23/2010	Total	0	0	0.00	0.00	0.00
4/24/2010	Total	0	0	0.00	0.00	0.00
4/25/2010	Total	0	0	0.00	0.00	0.00
4/26/2010	Total	0	0	0.00	0.00	0.00
4/27/2010	Total	0	0	0.00	0.00	0.00
4/28/2010	Total	0	0	0.00	0.00	0.00
4/29/2010	Total	0	0	0.00	0.00	0.00
4/30/2010	Total	0	0	0.00	0.00	0.00
5/1/2010	Total	0	0	0.00	0.00	0.00
5/2/2010	Total	0	0	0.00	0.00	0.00
5/3/2010	Total	0	0	0.00	0.00	0.00
5/4/2010	Total	0	0	0.00	0.00	0.00
5/5/2010	Total	0	0	0.00	0.00	0.00
5/6/2010	Total	0	0	0.00	0.00	0.00
5/7/2010	Total	0	0	0.00	0.00	0.00
5/8/2010	Total	0	0	0.00	0.00	0.00
5/9/2010	Total	0	0	0.00	0.00	0.00
5/10/2010	Total	0	0	0.00	0.00	0.00
5/11/2010	Total	0	0	0.00	0.00	0.00
5/12/2010	Total	0	0	0.00	0.00	0.00
5/13/2010	Total	0	0	0.00	0.00	0.00
5/14/2010	Total	0	0	0.00	0.00	0.00
5/15/2010	Total	0	0	0.00	0.00	0.00
5/16/2010	Total	0	0	0.00	0.00	0.00
5/17/2010	Total	0	0	0.00	0.00	0.00
5/18/2010	Total	0	0	0.00	0.00	0.00
5/19/2010	Total	0	0	0.00	0.00	0.00
5/20/2010	Total	0	0	0.00	0.00	0.00
5/21/2010	Total	0	0	0.00	0.00	0.00
5/22/2010	Total	0	0	0.00	0.00	0.00
5/23/2010	Total	0	0	0.00	0.00	0.00
5/24/2010	Total	0	0	0.00	0.00	0.00
5/25/2010	Total	0	0	0.00	0.00	0.00
5/26/2010	Total	0	0	0.00	0.00	0.00
5/27/2010	Total	0	0	0.00	0.00	0.00
5/28/2010	Total	0	0	0.00	0.00	0.00
5/29/2010	Total	0	0	0.00	0.00	0.00
5/30/2010	Total	0	0	0.00	0.00	0.00
5/31/2010	Total	0	0	0.00	0.00	0.00
6/1/2010	Total	0	0	0.00	0.00	0.00

Date		Well #2 Flow (gal)	Well #1 Flow (gal)	Well #2 Average (gpm)	Well #1 Average (gpm)	Total Daily Average Flow (gpm)
6/2/2010	Total	0	0	0.00	0.00	0.00
6/3/2010	Total	0	0	0.00	0.00	0.00
6/4/2010	Total	0	0	0.00	0.00	0.00
6/5/2010	Total	0	0	0.00	0.00	0.00
6/6/2010	Total	0	0	0.00	0.00	0.00
6/7/2010	Total	0	0	0.00	0.00	0.00
6/8/2010	Total	0	0	0.00	0.00	0.00
6/9/2010	Total	0	0	0.00	0.00	0.00
6/10/2010	Total	0	0	0.00	0.00	0.00
6/11/2010	Total	0	0	0.00	0.00	0.00
6/12/2010	Total	0	0	0.00	0.00	0.00
6/13/2010	Total	0	0	0.00	0.00	0.00
6/14/2010	Total	0	0	0.00	0.00	0.00
6/15/2010	Total	0	0	0.00	0.00	0.00
6/16/2010	Total	0	0	0.00	0.00	0.00
6/17/2010	Total	0	0	0.00	0.00	0.00
6/18/2010	Total	0	0	0.00	0.00	0.00
6/19/2010	Total	0	0	0.00	0.00	0.00
6/20/2010	Total	0	0	0.00	0.00	0.00
6/21/2010	Total	0	0	0.00	0.00	0.00
6/22/2010	Total	0	0	0.00	0.00	0.00
6/23/2010	Total	0	0	0.00	0.00	0.00
6/24/2010	Total	0	0	0.00	0.00	0.00
6/25/2010	Total	0	0	0.00	0.00	0.00
6/26/2010	Total	0	0	0.00	0.00	0.00
6/27/2010	Total	0	0	0.00	0.00	0.00
6/28/2010	Total	0	0	0.00	0.00	0.00
6/29/2010	Total	0	0	0.00	0.00	0.00
6/30/2010	Total	0	0	0.00	0.00	0.00
Grand Total		**44,510**	**0**	**1.55**	**0.000**	**1.55**

1.55 during the 1/1/10 through 1/21/10 period of operatior

APPENDIX B

LABORATORY DATA, GROUNDWATER SAMPLES (MAY 19 AND 20, 2010)

Columbia Analytical Services™ 1 Mustard Street, Ste. 250, Rochester, NY 14609 | 585.288.5380 | 585.288.8475 (fax) | www.caslab.com

June 15, 2010

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

Re: GE MRFA Project #138165
Service Request # R1002703

Dear Mr. Neumann:

Enclosed is the analytical data report for the above referenced facility. A total of thirteen samples were received by our laboratory on May 20-21, 2010.

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 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.

cc: Ms. Judy Harry
Data Validation Services
Cobble Creek Road
North Creek, NY 12853

CASE NARRATIVE

COMPANY: Shaw Environmental
GE MRFA Project #138165
SERVICE REQUEST #: R1002703

Shaw samples were collected on 05/19-20/10 and received at CAS on 05/20-21/10 in good condition.

INORGANICS

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

Site specific QC was performed on 13D. All MS and Blank spike recoveries were within limits. All RPD's were within limits.

All samples were analyzed within required holding times except as mentioned above.

No other analytical or QC problems were encountered.

VOLATILE ORGANICS

Thirteen water samples and one cooler blank were analyzed for OLC 2.1 Volatiles by CLP methodology.

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

All internal standard areas were within QC limits.

All surrogate standard recoveries were within QC limits.

Site specific QC was performed on DUPE A and 14D. All MSD recoveries were within limits except Trichloroethene for DUPE A and has been flagged with an "*". All MS and Reference spike recoveries were within limits. All RPD's were within limits.

The Laboratory blanks associated with these samples were free of contamination except the 05/26/10 and 05/27/10 had a low level hit for Acetone. All affected data has been flagged with a "B".

All samples were analyzed within required holding times.

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 hard copy 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 #:	138165	Batch Complete:	Yes	Date Revised:	
Submission:	R1002703	Diskette Requested:	No	Date Due:	6/11/10
Client:	Shaw Environmental & Infrastructu	Date:	6/15/10	Protocol:	CLP
Client Rep:	JJAEGER	Custody Seal:	Present/Absent:	Shipping No.:	
Project:	GE MRFA	Chain of Custody:	Present/Absent:	SDG #:	4D

CAS Job #	Client/EPA ID	Matrix	Requested Parameters	Date Sampled	Date Received	pH (Solids)	% Solids	Remarks Sample Condition
R1002703-001	4D	Water	CLP-VOA OLC02.1	5/19/10	5/20/10			
R1002703-002	DUPE A	Water	7196A, CLP-METALS ILM05.3, CLP-VOA OLC02.1	5/19/10	5/20/10			
R1002703-003	M-27D	Water	7196A, CLP-METALS ILM05.3, CLP-VOA OLC02.1	5/19/10	5/20/10			
R1002703-004QC	13D	Water	7196A, CLP-METALS ILM05.3	5/19/10	5/20/10			
R1002703-005	M-24DR	Water	CLP-VOA OLC02.1	5/19/10	5/20/10			
R1002703-006	M-25D	Water	CLP-VOA OLC02.1	5/19/10	5/20/10			
R1002703-007	M-29	Water	CLP-VOA OLC02.1	5/19/10	5/20/10			
R1002703-008	TRIP BLANK	Water	CLP-VOA OLC02.1	5/19/10	5/20/10			
R1002703-009	COOLER BLANK	Water	CLP-VOA OLC02.1	5/20/10	5/20/10			
R1002703-010QC	14D	Water	CLP-VOA OLC02.1	5/20/10	5/21/10			
R1002703-011	11D	Water	CLP-VOA OLC02.1	5/20/10	5/21/10			
R1002703-012	DGC-4S	Water	CLP-VOA OLC02.1	5/20/10	5/21/10			
R1002703-013	DGC-3S	Water	CLP-VOA OLC02.1	5/20/10	5/21/10			
R1002703-014	Trip Blank	Water	CLP-VOA OLC02.1	5/20/10	5/21/10			

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

Columbia Analytical Services™

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.
#	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	Pesticide/Aroclors: 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.

ACCREDITED IN ACCORDANCE WITH nelac

CAS/Rochester Lab ID # for State Certifications[1]

NELAP Accredited
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Illinois ID #200047
Maine ID #NY0032
Nebraska Accredited
Navy Facilities Engineering Service Center Approved
Nevada ID # NY-00032
New Jersey ID # NY004
New York ID # 10145
New Hampshire ID # 294100 A/B
Pennsylvania ID# 68-786
Rhode Island ID # 158
West Virginia ID # 292

[1] Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable, except as noted in the laboratory case narrative provided. For a specific list of accredited analytes, refer to the certifications section at www.caslab.com.

Columbia Analytical Services

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

SR #

CAS Contact

1 Mustard Street, Suite 250, Rochester, NY 14609 | 585.288.5380 | 800.695.7222 | 585.288.8475 (fax) PAGE 1 OF 1

Project Name: GE MRFA	Project Number: 138165
Project Manager: Brian Neumann	Report CC: Judy Harry, Steve Meier
Company/Address: Shaw Environmental, Inc. 13 British American Blvd Latham, NY 12110	
Phone #	FAX#
Sampler's Signature	Sampler's Printed Name: Marc Flanagan

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 1

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☐8260 ☐624 ☐CLP	GC/MS SVOA's ☐8270 ☐625 ☐CLP	GC VOA's ☐8021 ☐601/602	PESTICIDES ☐8081 ☐608 ☐CLP	PCB's ☐8082 ☐608 ☐CLP	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	OLC 3.1 VOA							REMARKS/ ALTERNATE DESCRIPTION
14D		5/20/10	850	GW	3								X							
14D(MS)			850																	
14D(MSD)			850																	
11D			920																	
DGC-4S			1010																	
DGC-3S			1045																	
Trip Blank		—	—																	

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 24 hr ____ 48 hr ____ 5 day
✓ STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Specialized Forms / Cust
Edata ____ Yes ____

INVOICE INFORMATION
PO#
BILL TO:

R1002703
Shaw Environmental & Infrastructure, Inc.
GE MRFA

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: M Flanagan	Printed Name: Matthew Carver	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Shaw	Firm: CAS	Firm	Firm	Firm	Firm
Date/Time: 5/20/10 1600	Date/Time: 5/21/10 0822	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Lab Copy

SCOC Rev. 3/10

Cooler Receipt And Preservation Check Form

Project/Client Shaw Submission Number K10-[illegible]2703

Cooler received on 5/21/10 by: MC **COURIER:** CAS (UPS) FEDEX VELOCITY CLIENT

1.	Were custody seals on outside of cooler?	(YES)	NO
2.	Were custody papers properly filled out (ink, signed, etc.)?	(YES)	NO
3.	Did all bottles arrive in good condition (unbroken)?	(YES)	NO
4.	Did any VOA vials have significant* air bubbles?	YES	(NO) N/A
5.	Were **Ice** or **Ice packs** present?	(YES)	NO
6.	Where did the bottles originate?	(CAS/ROC)	CLIENT
7.	Temperature of cooler(s) upon receipt:	5°	

Is the temperature within 0° - 6° C?:	(Yes)	Yes	Yes	Yes	Yes
If No, Explain Below	No	No	No	No	No

Date/Time Temperatures Taken: 5/21/10 1035

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:

PC Secondary Review:

Cooler Breakdown: Date: 5/21/10 by: [illegible]

1.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?	(YES)	NO
2.	Did all bottle labels and tags agree with custody papers?	(YES)	NO
3.	Were correct containers used for the tests indicated?	(YES)	NO
4.	Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated		(N/A)

Explain any discrepancies:

pH	Reagent	YES	NO	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO_3								
≤2	H_2SO_4								
Residual Chlorine (-)	For TCN and Phenol			If present, contact PM to add ascorbic acid					
	$Na_2S_2O_3$	-	-						
	Zn Aceta	-	-						
	HCl	*	*	4109100	4/11				

*Not to be tested before analysis – pH tested and recorded by VOAs or GenChem on a separate worksheet

Yes = All samples OK

No = Samples were preserved at lab as listed

PM OK to Adjust:

Bottle lot numbers: 9-356-001

Other Comments:

We received 2 empty sets of HCl pres. VOAs, 2 250 mL plastic unp. bottles, and 2 250 HNO3 plastic ~~bottles~~ bottles. MC 5/21/10

PC Secondary Review: JWS 5/29/10 *significant air bubbles are greater than 5-6 mm

I:\SMODOCS\Cooler Receipt 2.doc

Columbia Analytical Services™ CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

SR #

CAS Contact

1 Mustard Street, Suite 250, Rochester, NY 14609 | 585.288.5380 | 800.695.7222 | 585.288.8475 (fax) PAGE 1 OF 1

Project Name: GE MRFA	Project Number: 138165
Project Manager: Brian Neuman	Report CC: Steve Meier, Judy Harry
Company/Address: Shaw Environmental, Inc 13 British American Blvd Latham, NY 12110	
Phone #: 518-785-2354	FAX#: 518-783-8397
Sampler's Signature:	Sampler's Printed Name: Marc Flanagan

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: 120

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's 8260 624 CLP	GC/MS SVOA's 8270 625 CLP	GC VOA's 8021 601/602	PESTICIDES 8081 608 CLP	PCB's 8082 608 CLP	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	OAC 2.1 VOA	Cr	Cr+6	REMARKS/ ALTERNATE DESCRIPTION
4D		5/19/10	1125	GW	3								X			
Dupe A			-		5								X	X	X	
M-27D			1330		5								X	X	X	
13D			1215		2									X	X	
13D (MS)			1215		2									X	X	
13D (MSD)			1215		2									X	X	
M-24DR			1045		3								X			
M-25D			930		3								X			
M-29D			1000		3								X			
Trip Blank			-		3								X			

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 24 hr _____ 48 hr _____ 5 day
✓ STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
_____ I. Results Only
_____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
_____ III. Results + QC and Calibration Summaries
_____ IV. Data Validation Report with Raw Data
_____ V. Specialized Forms / Custom Rep
Edata _____ Yes _____ No

INVOICE INFORMATION
PO#
BILL TO:

R1002703
Shaw Environmental & Infrastructure, Inc.
GE MRFA

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: Marc Flanagan	Printed Name: B Doyle	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Shaw	Firm: CAS	Firm	Firm	Firm	Firm
Date/Time: 5/19/10 1600	Date/Time: 5/20/10 0745	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Lab Copy

SCOC Rev. 3/10

Cooler Receipt And Preservation Check Form

Project/Client Shaw Submission Number 410-2703

Cooler received on 5/20/10 by: BD **COURIER:** CAS (UPS) FEDEX VELOCITY CLIENT

1.	Were custody seals on outside of cooler?	(YES)	NO			
2.	Were custody papers properly filled out (ink, signed, etc.)?	(YES)	NO			
3.	Did all bottles arrive in good condition (unbroken)?	(YES)	NO			
4.	Did any VOA vials have significant* air bubbles?	YES	(NO)	N/A		
5.	Were **Ice or Ice packs** present?	(YES)	NO			
6.	Where did the bottles originate?	(CAS/ROC)	CLIENT			
7.	Temperature of cooler(s) upon receipt:	1°				
	Is the temperature within 0° - 6° C?:	(Yes)	Yes	Yes	Yes	Yes
	If No, Explain Below	No	No	No	No	No

Date/Time Temperatures Taken: 5/20 @ 0750

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:

PC Secondary Review: JMS 5/20/10

Cooler Breakdown: Date: 5/20/10 by: BD

1.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?	(YES)	NO
2.	Did all bottle labels and tags agree with custody papers?	(YES)	NO
3.	Were correct containers used for the tests indicated?	(YES)	NO
4.	Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated		(N/A)

Explain any discrepancies:

pH	Reagent	YES	NO	Lot Received	Exp
≥12	NaOH				
≤2	HNO_3	✓		BDB26102D	5/11
≤2	H_2SO_4				
Residual Chlorine (-)	For TCN and Phenol			If present, contact PM to add ascorbic acid	
	$Na_2S_2O_3$	-	-		
	Zn Aceta	-	-		
	HCl	*	*	4109100	4/11

Sample ID	Vol. Added	Lot Added	Final pH

*Not to be tested before analysis – pH tested and recorded by VOAs or GenChem on a separate worksheet

Yes = All samples OK

No = Samples were preserved at lab as listed

PM OK to Adjust:

Bottle lot numbers: 9356-001, 041210-20

Other Comments:

PC Secondary Review: JMS 5/25/10

*significant air bubbles are greater than 5-6 mm

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/19/10 1125
Sample Matrix:	Water	**Date Received:**	5/20/10
Sample Name:	4D	**Units:**	µg/L
Lab Code:	R1002703-001	**Basis:**	NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.14	1	NA	5/26/10 16:17		202273	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.12	1	NA	5/26/10 16:17		202273	
1,1,2-Trichloroethane	1.0	U	1.0	0.11	1	NA	5/26/10 16:17		202273	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.11	1	NA	5/26/10 16:17		202273	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.17	1	NA	5/26/10 16:17		202273	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.18	1	NA	5/26/10 16:17		202273	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.13	1	NA	5/26/10 16:17		202273	
1,2-Dibromo-3-chloropropane (DBCP)	1.0	U	1.0	0.34	1	NA	5/26/10 16:17		202273	
1,2-Dibromoethane	1.0	U	1.0	0.14	1	NA	5/26/10 16:17		202273	
1,2-Dichloroethane	1.0	U	1.0	0.057	1	NA	5/26/10 16:17		202273	
1,2-Dichlorobenzene	1.0	U	1.0	0.089	1	NA	5/26/10 16:17		202273	
1,2-Dichloropropane	1.0	U	1.0	0.15	1	NA	5/26/10 16:17		202273	
1,3-Dichlorobenzene	1.0	U	1.0	0.092	1	NA	5/26/10 16:17		202273	
1,4-Dichlorobenzene	1.0	U	1.0	0.085	1	NA	5/26/10 16:17		202273	
2-Butanone (MEK)	5.0	U	5.0	0.75	1	NA	5/26/10 16:17		202273	
2-Hexanone	5.0	U	5.0	0.51	1	NA	5/26/10 16:17		202273	
4-Methyl-2-pentanone	5.0	U	5.0	0.56	1	NA	5/26/10 16:17		202273	
Acetone	**1.6**	BJ	5.0	0.69	1	NA	5/26/10 16:17		202273	
Benzene	1.0	U	1.0	0.098	1	NA	5/26/10 16:17		202273	
Bromochloromethane	1.0	U	1.0	0.18	1	NA	5/26/10 16:17		202273	
Bromodichloromethane	1.0	U	1.0	0.15	1	NA	5/26/10 16:17		202273	
Bromoform	1.0	U	1.0	0.14	1	NA	5/26/10 16:17		202273	
Bromomethane	1.0	U	1.0	0.12	1	NA	5/26/10 16:17		202273	
Carbon Disulfide	1.0	U	1.0	0.16	1	NA	5/26/10 16:17		202273	
Carbon Tetrachloride	1.0	U	1.0	0.12	1	NA	5/26/10 16:17		202273	
Chlorobenzene	1.0	U	1.0	0.14	1	NA	5/26/10 16:17		202273	
Chloroethane	1.0	U	1.0	0.21	1	NA	5/26/10 16:17		202273	
Chloroform	1.0	U	1.0	0.15	1	NA	5/26/10 16:17		202273	
Chloromethane	1.0	U	1.0	0.12	1	NA	5/26/10 16:17		202273	
cis-1,2-Dichloroethene	1.0	U	1.0	0.11	1	NA	5/26/10 16:17		202273	
cis-1,3-Dichloropropene	1.0	U	1.0	0.079	1	NA	5/26/10 16:17		202273	
Dibromochloromethane	1.0	U	1.0	0.13	1	NA	5/26/10 16:17		202273	
Ethylbenzene	1.0	U	1.0	0.13	1	NA	5/26/10 16:17		202273	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/19/10 1125
Sample Matrix:	Water	**Date Received:**	5/20/10
Sample Name:	4D	**Units:**	µg/L
Lab Code:	R1002703-001	**Basis:**	NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Hexachlorobutadiene	1.0	U	1.0	0.18	1	NA	5/26/10 16:17		202273	
m,p-Xylenes	1.0	U	1.0	0.22	1	NA	5/26/10 16:17		202273	
Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.16	1	NA	5/26/10 16:17		202273	
o-Xylene	1.0	U	1.0	0.11	1	NA	5/26/10 16:17		202273	
Styrene	1.0	U	1.0	0.096	1	NA	5/26/10 16:17		202273	
Tetrachloroethene (PCE)	1.0	U	1.0	0.15	1	NA	5/26/10 16:17		202273	
Toluene	1.0	U	1.0	0.098	1	NA	5/26/10 16:17		202273	
trans-1,2-Dichloroethene	1.0	U	1.0	0.16	1	NA	5/26/10 16:17		202273	
trans-1,3-Dichloropropene	1.0	U	1.0	0.060	1	NA	5/26/10 16:17		202273	
Trichloroethene (TCE)	1.0	U	1.0	0.16	1	NA	5/26/10 16:17		202273	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.18	1	NA	5/26/10 16:17		202273	
Vinyl Chloride	1.0	U	1.0	0.14	1	NA	5/26/10 16:17		202273	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	90	80-120	5/26/10 16:17		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/19/10
Sample Matrix:	Water	**Date Received:**	5/20/10
		Date Analyzed:	5/26/10 1617

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

Sample Name:	4D	**Units:**	µg/L
Lab Code:	R1002703-001	**Basis:**	NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/19/10
Sample Matrix:	Water	**Date Received:**	5/20/10
Sample Name:	DUPE A	**Units:**	µg/L
Lab Code:	R1002703-002	**Basis:**	NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.14	1	NA	5/26/10 16:54		202273	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.12	1	NA	5/26/10 16:54		202273	
1,1,2-Trichloroethane	1.0	U	1.0	0.11	1	NA	5/26/10 16:54		202273	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.11	1	NA	5/26/10 16:54		202273	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.17	1	NA	5/26/10 16:54		202273	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.18	1	NA	5/26/10 16:54		202273	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.13	1	NA	5/26/10 16:54		202273	
1,2-Dibromo-3-chloropropane (DBCP)	1.0	U	1.0	0.34	1	NA	5/26/10 16:54		202273	
1,2-Dibromoethane	1.0	U	1.0	0.14	1	NA	5/26/10 16:54		202273	
1,2-Dichloroethane	1.0	U	1.0	0.057	1	NA	5/26/10 16:54		202273	
1,2-Dichlorobenzene	1.0	U	1.0	0.089	1	NA	5/26/10 16:54		202273	
1,2-Dichloropropane	1.0	U	1.0	0.15	1	NA	5/26/10 16:54		202273	
1,3-Dichlorobenzene	1.0	U	1.0	0.092	1	NA	5/26/10 16:54		202273	
1,4-Dichlorobenzene	1.0	U	1.0	0.085	1	NA	5/26/10 16:54		202273	
2-Butanone (MEK)	5.0	U	5.0	0.75	1	NA	5/26/10 16:54		202273	
2-Hexanone	5.0	U	5.0	0.51	1	NA	5/26/10 16:54		202273	
4-Methyl-2-pentanone	5.0	U	5.0	0.56	1	NA	5/26/10 16:54		202273	
Acetone	5.0	U	5.0	0.69	1	NA	5/26/10 16:54		202273	
Benzene	1.0	U	1.0	0.098	1	NA	5/26/10 16:54		202273	
Bromochloromethane	1.0	U	1.0	0.18	1	NA	5/26/10 16:54		202273	
Bromodichloromethane	1.0	U	1.0	0.15	1	NA	5/26/10 16:54		202273	
Bromoform	1.0	U	1.0	0.14	1	NA	5/26/10 16:54		202273	
Bromomethane	1.0	U	1.0	0.12	1	NA	5/26/10 16:54		202273	
Carbon Disulfide	1.0	U	1.0	0.16	1	NA	5/26/10 16:54		202273	
Carbon Tetrachloride	**4.8**		1.0	0.12	1	NA	5/26/10 16:54		202273	
Chlorobenzene	1.0	U	1.0	0.14	1	NA	5/26/10 16:54		202273	
Chloroethane	1.0	U	1.0	0.21	1	NA	5/26/10 16:54		202273	
Chloroform	1.0	U	1.0	0.15	1	NA	5/26/10 16:54		202273	
Chloromethane	1.0	U	1.0	0.12	1	NA	5/26/10 16:54		202273	
cis-1,2-Dichloroethene	1.0	U	1.0	0.11	1	NA	5/26/10 16:54		202273	
cis-1,3-Dichloropropene	1.0	U	1.0	0.079	1	NA	5/26/10 16:54		202273	
Dibromochloromethane	1.0	U	1.0	0.13	1	NA	5/26/10 16:54		202273	
Ethylbenzene	1.0	U	1.0	0.13	1	NA	5/26/10 16:54		202273	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/19/10
Sample Matrix:	Water	**Date Received:**	5/20/10
Sample Name:	DUPE A	**Units:**	µg/L
Lab Code:	R1002703-002	**Basis:**	NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Hexachlorobutadiene	1.0	U	1.0	0.18	1	NA	5/26/10 16:54		202273	
m,p-Xylenes	1.0	U	1.0	0.22	1	NA	5/26/10 16:54		202273	
Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.16	1	NA	5/26/10 16:54		202273	
o-Xylene	1.0	U	1.0	0.11	1	NA	5/26/10 16:54		202273	
Styrene	1.0	U	1.0	0.096	1	NA	5/26/10 16:54		202273	
Tetrachloroethene (PCE)	1.0	U	1.0	0.15	1	NA	5/26/10 16:54		202273	
Toluene	1.0	U	1.0	0.098	1	NA	5/26/10 16:54		202273	
trans-1,2-Dichloroethene	1.0	U	1.0	0.16	1	NA	5/26/10 16:54		202273	
trans-1,3-Dichloropropene	1.0	U	1.0	0.060	1	NA	5/26/10 16:54		202273	
Trichloroethene (TCE)	**10**		1.0	0.16	1	NA	5/26/10 16:54		202273	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.18	1	NA	5/26/10 16:54		202273	
Vinyl Chloride	1.0	U	1.0	0.14	1	NA	5/26/10 16:54		202273	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	91	80-120	5/26/10 16:54		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/19/10
Sample Matrix:	Water	**Date Received:**	5/20/10
		Date Analyzed:	5/26/10 1654

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

Sample Name:	DUPE A	**Units:**	µg/L
Lab Code:	R1002703-002	**Basis:**	NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/19/10 1330
Sample Matrix:	Water	**Date Received:**	5/20/10
Sample Name:	M-27D	**Units:**	µg/L
Lab Code:	R1002703-003	**Basis:**	NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.14	1	NA	5/26/10 17:31		202273	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.12	1	NA	5/26/10 17:31		202273	
1,1,2-Trichloroethane	1.0	U	1.0	0.11	1	NA	5/26/10 17:31		202273	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.11	1	NA	5/26/10 17:31		202273	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.17	1	NA	5/26/10 17:31		202273	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.18	1	NA	5/26/10 17:31		202273	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.13	1	NA	5/26/10 17:31		202273	
1,2-Dibromo-3-chloropropane (DBCP)	1.0	U	1.0	0.34	1	NA	5/26/10 17:31		202273	
1,2-Dibromoethane	1.0	U	1.0	0.14	1	NA	5/26/10 17:31		202273	
1,2-Dichloroethane	1.0	U	1.0	0.057	1	NA	5/26/10 17:31		202273	
1,2-Dichlorobenzene	1.0	U	1.0	0.089	1	NA	5/26/10 17:31		202273	
1,2-Dichloropropane	1.0	U	1.0	0.15	1	NA	5/26/10 17:31		202273	
1,3-Dichlorobenzene	1.0	U	1.0	0.092	1	NA	5/26/10 17:31		202273	
1,4-Dichlorobenzene	1.0	U	1.0	0.085	1	NA	5/26/10 17:31		202273	
2-Butanone (MEK)	5.0	U	5.0	0.75	1	NA	5/26/10 17:31		202273	
2-Hexanone	5.0	U	5.0	0.51	1	NA	5/26/10 17:31		202273	
4-Methyl-2-pentanone	5.0	U	5.0	0.56	1	NA	5/26/10 17:31		202273	
Acetone	**0.99**	BJ	5.0	0.69	1	NA	5/26/10 17:31		202273	
Benzene	1.0	U	1.0	0.098	1	NA	5/26/10 17:31		202273	
Bromochloromethane	1.0	U	1.0	0.18	1	NA	5/26/10 17:31		202273	
Bromodichloromethane	1.0	U	1.0	0.15	1	NA	5/26/10 17:31		202273	
Bromoform	1.0	U	1.0	0.14	1	NA	5/26/10 17:31		202273	
Bromomethane	1.0	U	1.0	0.12	1	NA	5/26/10 17:31		202273	
Carbon Disulfide	1.0	U	1.0	0.16	1	NA	5/26/10 17:31		202273	
Carbon Tetrachloride	**4.2**		1.0	0.12	1	NA	5/26/10 17:31		202273	
Chlorobenzene	1.0	U	1.0	0.14	1	NA	5/26/10 17:31		202273	
Chloroethane	1.0	U	1.0	0.21	1	NA	5/26/10 17:31		202273	
Chloroform	1.0	U	1.0	0.15	1	NA	5/26/10 17:31		202273	
Chloromethane	1.0	U	1.0	0.12	1	NA	5/26/10 17:31		202273	
cis-1,2-Dichloroethene	1.0	U	1.0	0.11	1	NA	5/26/10 17:31		202273	
cis-1,3-Dichloropropene	1.0	U	1.0	0.079	1	NA	5/26/10 17:31		202273	
Dibromochloromethane	1.0	U	1.0	0.13	1	NA	5/26/10 17:31		202273	
Ethylbenzene	1.0	U	1.0	0.13	1	NA	5/26/10 17:31		202273	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/19/10 1330
Sample Matrix:	Water	**Date Received:**	5/20/10
Sample Name:	M-27D	**Units:**	µg/L
Lab Code:	R1002703-003	**Basis:**	NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Hexachlorobutadiene	1.0	U	1.0	0.18	1	NA	5/26/10 17:31		202273	
m,p-Xylenes	1.0	U	1.0	0.22	1	NA	5/26/10 17:31		202273	
Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.16	1	NA	5/26/10 17:31		202273	
o-Xylene	1.0	U	1.0	0.11	1	NA	5/26/10 17:31		202273	
Styrene	1.0	U	1.0	0.096	1	NA	5/26/10 17:31		202273	
Tetrachloroethene (PCE)	1.0	U	1.0	0.15	1	NA	5/26/10 17:31		202273	
Toluene	1.0	U	1.0	0.098	1	NA	5/26/10 17:31		202273	
trans-1,2-Dichloroethene	1.0	U	1.0	0.16	1	NA	5/26/10 17:31		202273	
trans-1,3-Dichloropropene	1.0	U	1.0	0.060	1	NA	5/26/10 17:31		202273	
Trichloroethene (TCE)	**9.3**		1.0	0.16	1	NA	5/26/10 17:31		202273	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.18	1	NA	5/26/10 17:31		202273	
Vinyl Chloride	1.0	U	1.0	0.14	1	NA	5/26/10 17:31		202273	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	94	80-120	5/26/10 17:31		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/19/10
Sample Matrix:	Water	**Date Received:**	5/20/10
		Date Analyzed:	5/26/10 1731

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

Sample Name:	M-27D	**Units:**	µg/L
Lab Code:	R1002703-003	**Basis:**	NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/19/10 1045
Sample Matrix:	Water	**Date Received:**	5/20/10
Sample Name:	M-24DR	**Units:**	µg/L
Lab Code:	R1002703-005	**Basis:**	NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.14	1	NA	5/27/10 15:44		202478	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.12	1	NA	5/27/10 15:44		202478	
1,1,2-Trichloroethane	1.0	U	1.0	0.11	1	NA	5/27/10 15:44		202478	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.11	1	NA	5/27/10 15:44		202478	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.17	1	NA	5/27/10 15:44		202478	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.18	1	NA	5/27/10 15:44		202478	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.13	1	NA	5/27/10 15:44		202478	
1,2-Dibromo-3-chloropropane (DBCP)	1.0	U	1.0	0.34	1	NA	5/27/10 15:44		202478	
1,2-Dibromoethane	1.0	U	1.0	0.14	1	NA	5/27/10 15:44		202478	
1,2-Dichloroethane	1.0	U	1.0	0.057	1	NA	5/27/10 15:44		202478	
1,2-Dichlorobenzene	1.0	U	1.0	0.089	1	NA	5/27/10 15:44		202478	
1,2-Dichloropropane	1.0	U	1.0	0.15	1	NA	5/27/10 15:44		202478	
1,3-Dichlorobenzene	1.0	U	1.0	0.092	1	NA	5/27/10 15:44		202478	
1,4-Dichlorobenzene	1.0	U	1.0	0.085	1	NA	5/27/10 15:44		202478	
2-Butanone (MEK)	5.0	U	5.0	0.75	1	NA	5/27/10 15:44		202478	
2-Hexanone	5.0	U	5.0	0.51	1	NA	5/27/10 15:44		202478	
4-Methyl-2-pentanone	5.0	U	5.0	0.56	1	NA	5/27/10 15:44		202478	
Acetone	**1.4**	BJ	5.0	0.69	1	NA	5/27/10 15:44		202478	
Benzene	1.0	U	1.0	0.098	1	NA	5/27/10 15:44		202478	
Bromochloromethane	1.0	U	1.0	0.18	1	NA	5/27/10 15:44		202478	
Bromodichloromethane	1.0	U	1.0	0.15	1	NA	5/27/10 15:44		202478	
Bromoform	1.0	U	1.0	0.14	1	NA	5/27/10 15:44		202478	
Bromomethane	1.0	U	1.0	0.12	1	NA	5/27/10 15:44		202478	
Carbon Disulfide	1.0	U	1.0	0.16	1	NA	5/27/10 15:44		202478	
Carbon Tetrachloride	**5.5**		1.0	0.12	1	NA	5/27/10 15:44		202478	
Chlorobenzene	1.0	U	1.0	0.14	1	NA	5/27/10 15:44		202478	
Chloroethane	1.0	U	1.0	0.21	1	NA	5/27/10 15:44		202478	
Chloroform	**0.25**	J	1.0	0.15	1	NA	5/27/10 15:44		202478	
Chloromethane	1.0	U	1.0	0.12	1	NA	5/27/10 15:44		202478	
cis-1,2-Dichloroethene	1.0	U	1.0	0.11	1	NA	5/27/10 15:44		202478	
cis-1,3-Dichloropropene	1.0	U	1.0	0.079	1	NA	5/27/10 15:44		202478	
Dibromochloromethane	1.0	U	1.0	0.13	1	NA	5/27/10 15:44		202478	
Ethylbenzene	1.0	U	1.0	0.13	1	NA	5/27/10 15:44		202478	

Comments:

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/19/10 1045
Sample Matrix:	Water	**Date Received:**	5/20/10
Sample Name:	M-24DR	**Units:**	µg/L
Lab Code:	R1002703-005	**Basis:**	NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Hexachlorobutadiene	1.0	U	1.0	0.18	1	NA	5/27/10 15:44		202478	
m,p-Xylenes	1.0	U	1.0	0.22	1	NA	5/27/10 15:44		202478	
Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.16	1	NA	5/27/10 15:44		202478	
o-Xylene	1.0	U	1.0	0.11	1	NA	5/27/10 15:44		202478	
Styrene	1.0	U	1.0	0.096	1	NA	5/27/10 15:44		202478	
Tetrachloroethene (PCE)	1.0	U	1.0	0.15	1	NA	5/27/10 15:44		202478	
Toluene	1.0	U	1.0	0.098	1	NA	5/27/10 15:44		202478	
trans-1,2-Dichloroethene	1.0	U	1.0	0.16	1	NA	5/27/10 15:44		202478	
trans-1,3-Dichloropropene	1.0	U	1.0	0.060	1	NA	5/27/10 15:44		202478	
Trichloroethene (TCE)	**18**		1.0	0.16	1	NA	5/27/10 15:44		202478	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.18	1	NA	5/27/10 15:44		202478	
Vinyl Chloride	1.0	U	1.0	0.14	1	NA	5/27/10 15:44		202478	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	90	80-120	5/27/10 15:44		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/19/10
Sample Matrix:	Water	**Date Received:**	5/20/10
		Date Analyzed:	5/27/10 1544

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

Sample Name:	M-24DR	**Units:**	µg/L
Lab Code:	R1002703-005	**Basis:**	NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/19/10 0930
Sample Matrix:	Water	**Date Received:**	5/20/10
Sample Name:	M-25D	**Units:**	µg/L
Lab Code:	R1002703-006	**Basis:**	NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	5.0	U	5.0	0.71	5	NA	5/26/10 18:43		202273	
1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.60	5	NA	5/26/10 18:43		202273	
1,1,2-Trichloroethane	5.0	U	5.0	0.55	5	NA	5/26/10 18:43		202273	
1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	0.55	5	NA	5/26/10 18:43		202273	
1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.86	5	NA	5/26/10 18:43		202273	
1,2,3-Trichlorobenzene	5.0	U	5.0	0.90	5	NA	5/26/10 18:43		202273	
1,2,4-Trichlorobenzene	5.0	U	5.0	0.65	5	NA	5/26/10 18:43		202273	
1,2-Dibromo-3-chloropropane (DBCP)	5.0	U	5.0	1.8	5	NA	5/26/10 18:43		202273	
1,2-Dibromoethane	5.0	U	5.0	0.71	5	NA	5/26/10 18:43		202273	
1,2-Dichloroethane	5.0	U	5.0	0.29	5	NA	5/26/10 18:43		202273	
1,2-Dichlorobenzene	5.0	U	5.0	0.45	5	NA	5/26/10 18:43		202273	
1,2-Dichloropropane	5.0	U	5.0	0.75	5	NA	5/26/10 18:43		202273	
1,3-Dichlorobenzene	5.0	U	5.0	0.46	5	NA	5/26/10 18:43		202273	
1,4-Dichlorobenzene	5.0	U	5.0	0.43	5	NA	5/26/10 18:43		202273	
2-Butanone (MEK)	25	U	25	3.8	5	NA	5/26/10 18:43		202273	
2-Hexanone	25	U	25	2.6	5	NA	5/26/10 18:43		202273	
4-Methyl-2-pentanone	25	U	25	2.9	5	NA	5/26/10 18:43		202273	
Acetone	**4.7**	BJ	25	3.5	5	NA	5/26/10 18:43		202273	
Benzene	5.0	U	5.0	0.49	5	NA	5/26/10 18:43		202273	
Bromochloromethane	5.0	U	5.0	0.90	5	NA	5/26/10 18:43		202273	
Bromodichloromethane	5.0	U	5.0	0.75	5	NA	5/26/10 18:43		202273	
Bromoform	5.0	U	5.0	0.71	5	NA	5/26/10 18:43		202273	
Bromomethane	5.0	U	5.0	0.60	5	NA	5/26/10 18:43		202273	
Carbon Disulfide	5.0	U	5.0	0.80	5	NA	5/26/10 18:43		202273	
Carbon Tetrachloride	**35**		5.0	0.60	5	NA	5/26/10 18:43		202273	
Chlorobenzene	5.0	U	5.0	0.71	5	NA	5/26/10 18:43		202273	
Chloroethane	5.0	U	5.0	1.1	5	NA	5/26/10 18:43		202273	
Chloroform	**3.0**	J	5.0	0.75	5	NA	5/26/10 18:43		202273	
Chloromethane	5.0	U	5.0	0.60	5	NA	5/26/10 18:43		202273	
cis-1,2-Dichloroethene	5.0	U	5.0	0.55	5	NA	5/26/10 18:43		202273	
cis-1,3-Dichloropropene	5.0	U	5.0	0.40	5	NA	5/26/10 18:43		202273	
Dibromochloromethane	5.0	U	5.0	0.65	5	NA	5/26/10 18:43		202273	
Ethylbenzene	5.0	U	5.0	0.65	5	NA	5/26/10 18:43		202273	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/19/10 0930
Sample Matrix:	Water	**Date Received:**	5/20/10
Sample Name:	M-25D	**Units:**	µg/L
Lab Code:	R1002703-006	**Basis:**	NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Hexachlorobutadiene	5.0	U	5.0	0.90	5	NA	5/26/10 18:43		202273	
m,p-Xylenes	5.0	U	5.0	1.1	5	NA	5/26/10 18:43		202273	
Dichloromethane (Methylene Chloride)	5.0	U	5.0	0.80	5	NA	5/26/10 18:43		202273	
o-Xylene	5.0	U	5.0	0.55	5	NA	5/26/10 18:43		202273	
Styrene	5.0	U	5.0	0.48	5	NA	5/26/10 18:43		202273	
Tetrachloroethene (PCE)	5.0	U	5.0	0.75	5	NA	5/26/10 18:43		202273	
Toluene	5.0	U	5.0	0.49	5	NA	5/26/10 18:43		202273	
trans-1,2-Dichloroethene	5.0	U	5.0	0.80	5	NA	5/26/10 18:43		202273	
trans-1,3-Dichloropropene	5.0	U	5.0	0.30	5	NA	5/26/10 18:43		202273	
Trichloroethene (TCE)	76		5.0	0.80	5	NA	5/26/10 18:43		202273	
Trichlorofluoromethane (CFC 11)	5.0	U	5.0	0.90	5	NA	5/26/10 18:43		202273	
Vinyl Chloride	5.0	U	5.0	0.71	5	NA	5/26/10 18:43		202273	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	95	80-120	5/26/10 18:43		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/19/10
Sample Matrix:	Water	**Date Received:**	5/20/10
		Date Analyzed:	5/26/10 1843

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

Sample Name:	M-25D	**Units:**	µg/L
Lab Code:	R1002703-006	**Basis:**	NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/19/10 1000
Sample Matrix:	Water	**Date Received:**	5/20/10
Sample Name:	M-29	**Units:**	µg/L
Lab Code:	R1002703-007	**Basis:**	NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	**4.2**		2.0	0.28	2	NA	5/26/10 19:33		202273	
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.24	2	NA	5/26/10 19:33		202273	
1,1,2-Trichloroethane	2.0	U	2.0	0.22	2	NA	5/26/10 19:33		202273	
1,1-Dichloroethane (1,1-DCA)	2.0	U	2.0	0.22	2	NA	5/26/10 19:33		202273	
1,1-Dichloroethene (1,1-DCE)	2.0	U	2.0	0.34	2	NA	5/26/10 19:33		202273	
1,2,3-Trichlorobenzene	2.0	U	2.0	0.36	2	NA	5/26/10 19:33		202273	
1,2,4-Trichlorobenzene	2.0	U	2.0	0.26	2	NA	5/26/10 19:33		202273	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	0.68	2	NA	5/26/10 19:33		202273	
1,2-Dibromoethane	2.0	U	2.0	0.28	2	NA	5/26/10 19:33		202273	
1,2-Dichloroethane	2.0	U	2.0	0.12	2	NA	5/26/10 19:33		202273	
1,2-Dichlorobenzene	2.0	U	2.0	0.18	2	NA	5/26/10 19:33		202273	
1,2-Dichloropropane	2.0	U	2.0	0.30	2	NA	5/26/10 19:33		202273	
1,3-Dichlorobenzene	2.0	U	2.0	0.19	2	NA	5/26/10 19:33		202273	
1,4-Dichlorobenzene	2.0	U	2.0	0.17	2	NA	5/26/10 19:33		202273	
2-Butanone (MEK)	10	U	10	1.5	2	NA	5/26/10 19:33		202273	
2-Hexanone	10	U	10	1.1	2	NA	5/26/10 19:33		202273	
4-Methyl-2-pentanone	10	U	10	1.2	2	NA	5/26/10 19:33		202273	
Acetone	**3.7**	BJ	10	1.4	2	NA	5/26/10 19:33		202273	
Benzene	2.0	U	2.0	0.20	2	NA	5/26/10 19:33		202273	
Bromochloromethane	2.0	U	2.0	0.36	2	NA	5/26/10 19:33		202273	
Bromodichloromethane	2.0	U	2.0	0.30	2	NA	5/26/10 19:33		202273	
Bromoform	2.0	U	2.0	0.28	2	NA	5/26/10 19:33		202273	
Bromomethane	2.0	U	2.0	0.24	2	NA	5/26/10 19:33		202273	
Carbon Disulfide	2.0	U	2.0	0.32	2	NA	5/26/10 19:33		202273	
Carbon Tetrachloride	**28**		2.0	0.24	2	NA	5/26/10 19:33		202273	
Chlorobenzene	2.0	U	2.0	0.28	2	NA	5/26/10 19:33		202273	
Chloroethane	2.0	U	2.0	0.42	2	NA	5/26/10 19:33		202273	
Chloroform	**2.8**		2.0	0.30	2	NA	5/26/10 19:33		202273	
Chloromethane	2.0	U	2.0	0.24	2	NA	5/26/10 19:33		202273	
cis-1,2-Dichloroethene	2.0	U	2.0	0.22	2	NA	5/26/10 19:33		202273	
cis-1,3-Dichloropropene	2.0	U	2.0	0.16	2	NA	5/26/10 19:33		202273	
Dibromochloromethane	2.0	U	2.0	0.26	2	NA	5/26/10 19:33		202273	
Ethylbenzene	2.0	U	2.0	0.26	2	NA	5/26/10 19:33		202273	

Comments:

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/19/10 1000
Sample Matrix:	Water	**Date Received:**	5/20/10
Sample Name:	M-29	**Units:**	µg/L
Lab Code:	R1002703-007	**Basis:**	NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Hexachlorobutadiene	2.0	U	2.0	0.36	2	NA	5/26/10 19:33		202273	
m,p-Xylenes	2.0	U	2.0	0.44	2	NA	5/26/10 19:33		202273	
Dichloromethane (Methylene Chloride)	2.0	U	2.0	0.32	2	NA	5/26/10 19:33		202273	
o-Xylene	2.0	U	2.0	0.22	2	NA	5/26/10 19:33		202273	
Styrene	2.0	U	2.0	0.20	2	NA	5/26/10 19:33		202273	
Tetrachloroethene (PCE)	2.0	U	2.0	0.30	2	NA	5/26/10 19:33		202273	
Toluene	2.0	U	2.0	0.20	2	NA	5/26/10 19:33		202273	
trans-1,2-Dichloroethene	2.0	U	2.0	0.32	2	NA	5/26/10 19:33		202273	
trans-1,3-Dichloropropene	2.0	U	2.0	0.12	2	NA	5/26/10 19:33		202273	
Trichloroethene (TCE)	**21**		2.0	0.32	2	NA	5/26/10 19:33		202273	
Trichlorofluoromethane (CFC 11)	2.0	U	2.0	0.36	2	NA	5/26/10 19:33		202273	
Vinyl Chloride	2.0	U	2.0	0.28	2	NA	5/26/10 19:33		202273	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	92	80-120	5/26/10 19:33		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/19/10
Sample Matrix:	Water	**Date Received:**	5/20/10
		Date Analyzed:	5/26/10 1933

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

Sample Name:	M-29	**Units:**	µg/L
Lab Code:	R1002703-007	**Basis:**	NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/19/10
Sample Matrix:	Water	**Date Received:**	5/20/10
Sample Name:	TRIP BLANK	**Units:**	µg/L
Lab Code:	R1002703-008	**Basis:**	NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.14	1	NA	5/26/10 20:10		202273	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.12	1	NA	5/26/10 20:10		202273	
1,1,2-Trichloroethane	1.0	U	1.0	0.11	1	NA	5/26/10 20:10		202273	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.11	1	NA	5/26/10 20:10		202273	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.17	1	NA	5/26/10 20:10		202273	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.18	1	NA	5/26/10 20:10		202273	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.13	1	NA	5/26/10 20:10		202273	
1,2-Dibromo-3-chloropropane (DBCP)	1.0	U	1.0	0.34	1	NA	5/26/10 20:10		202273	
1,2-Dibromoethane	1.0	U	1.0	0.14	1	NA	5/26/10 20:10		202273	
1,2-Dichloroethane	1.0	U	1.0	0.057	1	NA	5/26/10 20:10		202273	
1,2-Dichlorobenzene	1.0	U	1.0	0.089	1	NA	5/26/10 20:10		202273	
1,2-Dichloropropane	1.0	U	1.0	0.15	1	NA	5/26/10 20:10		202273	
1,3-Dichlorobenzene	1.0	U	1.0	0.092	1	NA	5/26/10 20:10		202273	
1,4-Dichlorobenzene	1.0	U	1.0	0.085	1	NA	5/26/10 20:10		202273	
2-Butanone (MEK)	5.0	U	5.0	0.75	1	NA	5/26/10 20:10		202273	
2-Hexanone	5.0	U	5.0	0.51	1	NA	5/26/10 20:10		202273	
4-Methyl-2-pentanone	5.0	U	5.0	0.56	1	NA	5/26/10 20:10		202273	
Acetone	**2.3**	BJ	5.0	0.69	1	NA	5/26/10 20:10		202273	
Benzene	1.0	U	1.0	0.098	1	NA	5/26/10 20:10		202273	
Bromochloromethane	1.0	U	1.0	0.18	1	NA	5/26/10 20:10		202273	
Bromodichloromethane	1.0	U	1.0	0.15	1	NA	5/26/10 20:10		202273	
Bromoform	1.0	U	1.0	0.14	1	NA	5/26/10 20:10		202273	
Bromomethane	1.0	U	1.0	0.12	1	NA	5/26/10 20:10		202273	
Carbon Disulfide	1.0	U	1.0	0.16	1	NA	5/26/10 20:10		202273	
Carbon Tetrachloride	1.0	U	1.0	0.12	1	NA	5/26/10 20:10		202273	
Chlorobenzene	1.0	U	1.0	0.14	1	NA	5/26/10 20:10		202273	
Chloroethane	1.0	U	1.0	0.21	1	NA	5/26/10 20:10		202273	
Chloroform	1.0	U	1.0	0.15	1	NA	5/26/10 20:10		202273	
Chloromethane	1.0	U	1.0	0.12	1	NA	5/26/10 20:10		202273	
cis-1,2-Dichloroethene	1.0	U	1.0	0.11	1	NA	5/26/10 20:10		202273	
cis-1,3-Dichloropropene	1.0	U	1.0	0.079	1	NA	5/26/10 20:10		202273	
Dibromochloromethane	1.0	U	1.0	0.13	1	NA	5/26/10 20:10		202273	
Ethylbenzene	1.0	U	1.0	0.13	1	NA	5/26/10 20:10		202273	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/19/10
Sample Matrix:	Water	**Date Received:**	5/20/10
Sample Name:	TRIP BLANK	**Units:**	µg/L
Lab Code:	R1002703-008	**Basis:**	NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Hexachlorobutadiene	1.0	U	1.0	0.18	1	NA	5/26/10 20:10		202273	
m,p-Xylenes	1.0	U	1.0	0.22	1	NA	5/26/10 20:10		202273	
Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.16	1	NA	5/26/10 20:10		202273	
o-Xylene	1.0	U	1.0	0.11	1	NA	5/26/10 20:10		202273	
Styrene	1.0	U	1.0	0.096	1	NA	5/26/10 20:10		202273	
Tetrachloroethene (PCE)	1.0	U	1.0	0.15	1	NA	5/26/10 20:10		202273	
Toluene	**0.13**	J	1.0	0.098	1	NA	5/26/10 20:10		202273	
trans-1,2-Dichloroethene	1.0	U	1.0	0.16	1	NA	5/26/10 20:10		202273	
trans-1,3-Dichloropropene	1.0	U	1.0	0.060	1	NA	5/26/10 20:10		202273	
Trichloroethene (TCE)	1.0	U	1.0	0.16	1	NA	5/26/10 20:10		202273	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.18	1	NA	5/26/10 20:10		202273	
Vinyl Chloride	1.0	U	1.0	0.14	1	NA	5/26/10 20:10		202273	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	92	80-120	5/26/10 20:10		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/19/10
Sample Matrix:	Water	**Date Received:**	5/20/10
		Date Analyzed:	5/26/10 2010

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

Sample Name:	TRIP BLANK	**Units:**	µg/L
Lab Code:	R1002703-008	**Basis:**	NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/20/10
Sample Matrix:	Water	**Date Received:**	5/20/10
Sample Name:	COOLER BLANK	**Units:**	µg/L
Lab Code:	R1002703-009	**Basis:**	NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.14	1	NA	5/27/10 18:45		202478	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.12	1	NA	5/27/10 18:45		202478	
1,1,2-Trichloroethane	1.0	U	1.0	0.11	1	NA	5/27/10 18:45		202478	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.11	1	NA	5/27/10 18:45		202478	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.17	1	NA	5/27/10 18:45		202478	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.18	1	NA	5/27/10 18:45		202478	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.13	1	NA	5/27/10 18:45		202478	
1,2-Dibromo-3-chloropropane (DBCP)	1.0	U	1.0	0.34	1	NA	5/27/10 18:45		202478	
1,2-Dibromoethane	1.0	U	1.0	0.14	1	NA	5/27/10 18:45		202478	
1,2-Dichloroethane	1.0	U	1.0	0.057	1	NA	5/27/10 18:45		202478	
1,2-Dichlorobenzene	1.0	U	1.0	0.089	1	NA	5/27/10 18:45		202478	
1,2-Dichloropropane	1.0	U	1.0	0.15	1	NA	5/27/10 18:45		202478	
1,3-Dichlorobenzene	1.0	U	1.0	0.092	1	NA	5/27/10 18:45		202478	
1,4-Dichlorobenzene	1.0	U	1.0	0.085	1	NA	5/27/10 18:45		202478	
2-Butanone (MEK)	5.0	U	5.0	0.75	1	NA	5/27/10 18:45		202478	
2-Hexanone	5.0	U	5.0	0.51	1	NA	5/27/10 18:45		202478	
4-Methyl-2-pentanone	5.0	U	5.0	0.56	1	NA	5/27/10 18:45		202478	
Acetone	5.0	U	5.0	0.69	1	NA	5/27/10 18:45		202478	
Benzene	1.0	U	1.0	0.098	1	NA	5/27/10 18:45		202478	
Bromochloromethane	1.0	U	1.0	0.18	1	NA	5/27/10 18:45		202478	
Bromodichloromethane	1.0	U	1.0	0.15	1	NA	5/27/10 18:45		202478	
Bromoform	1.0	U	1.0	0.14	1	NA	5/27/10 18:45		202478	
Bromomethane	1.0	U	1.0	0.12	1	NA	5/27/10 18:45		202478	
Carbon Disulfide	1.0	U	1.0	0.16	1	NA	5/27/10 18:45		202478	
Carbon Tetrachloride	1.0	U	1.0	0.12	1	NA	5/27/10 18:45		202478	
Chlorobenzene	1.0	U	1.0	0.14	1	NA	5/27/10 18:45		202478	
Chloroethane	1.0	U	1.0	0.21	1	NA	5/27/10 18:45		202478	
Chloroform	1.0	U	1.0	0.15	1	NA	5/27/10 18:45		202478	
Chloromethane	1.0	U	1.0	0.12	1	NA	5/27/10 18:45		202478	
cis-1,2-Dichloroethene	1.0	U	1.0	0.11	1	NA	5/27/10 18:45		202478	
cis-1,3-Dichloropropene	1.0	U	1.0	0.079	1	NA	5/27/10 18:45		202478	
Dibromochloromethane	1.0	U	1.0	0.13	1	NA	5/27/10 18:45		202478	
Ethylbenzene	1.0	U	1.0	0.13	1	NA	5/27/10 18:45		202478	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/20/10
Sample Matrix:	Water	**Date Received:**	5/20/10
Sample Name:	COOLER BLANK	**Units:**	µg/L
Lab Code:	R1002703-009	**Basis:**	NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Hexachlorobutadiene	1.0	U	1.0	0.18	1	NA	5/27/10 18:45		202478	
m,p-Xylenes	1.0	U	1.0	0.22	1	NA	5/27/10 18:45		202478	
Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.16	1	NA	5/27/10 18:45		202478	
o-Xylene	1.0	U	1.0	0.11	1	NA	5/27/10 18:45		202478	
Styrene	1.0	U	1.0	0.096	1	NA	5/27/10 18:45		202478	
Tetrachloroethene (PCE)	1.0	U	1.0	0.15	1	NA	5/27/10 18:45		202478	
Toluene	1.0	U	1.0	0.098	1	NA	5/27/10 18:45		202478	
trans-1,2-Dichloroethene	1.0	U	1.0	0.16	1	NA	5/27/10 18:45		202478	
trans-1,3-Dichloropropene	1.0	U	1.0	0.060	1	NA	5/27/10 18:45		202478	
Trichloroethene (TCE)	1.0	U	1.0	0.16	1	NA	5/27/10 18:45		202478	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.18	1	NA	5/27/10 18:45		202478	
Vinyl Chloride	1.0	U	1.0	0.14	1	NA	5/27/10 18:45		202478	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	96	80-120	5/27/10 18:45		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/20/10
Sample Matrix:	Water	**Date Received:**	5/20/10
		Date Analyzed:	5/27/10 1845

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

Sample Name:	COOLER BLANK	**Units:**	µg/L
Lab Code:	R1002703-009	**Basis:**	NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/20/10 0850
Sample Matrix:	Water	**Date Received:**	5/21/10
Sample Name:	14D	**Units:**	µg/L
Lab Code:	R1002703-010	**Basis:**	NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.14	1	NA	5/26/10 20:46		202273	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.12	1	NA	5/26/10 20:46		202273	
1,1,2-Trichloroethane	1.0	U	1.0	0.11	1	NA	5/26/10 20:46		202273	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.11	1	NA	5/26/10 20:46		202273	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.17	1	NA	5/26/10 20:46		202273	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.18	1	NA	5/26/10 20:46		202273	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.13	1	NA	5/26/10 20:46		202273	
1,2-Dibromo-3-chloropropane (DBCP)	1.0	U	1.0	0.34	1	NA	5/26/10 20:46		202273	
1,2-Dibromoethane	1.0	U	1.0	0.14	1	NA	5/26/10 20:46		202273	
1,2-Dichloroethane	1.0	U	1.0	0.057	1	NA	5/26/10 20:46		202273	
1,2-Dichlorobenzene	1.0	U	1.0	0.089	1	NA	5/26/10 20:46		202273	
1,2-Dichloropropane	1.0	U	1.0	0.15	1	NA	5/26/10 20:46		202273	
1,3-Dichlorobenzene	1.0	U	1.0	0.092	1	NA	5/26/10 20:46		202273	
1,4-Dichlorobenzene	1.0	U	1.0	0.085	1	NA	5/26/10 20:46		202273	
2-Butanone (MEK)	5.0	U	5.0	0.75	1	NA	5/26/10 20:46		202273	
2-Hexanone	5.0	U	5.0	0.51	1	NA	5/26/10 20:46		202273	
4-Methyl-2-pentanone	5.0	U	5.0	0.56	1	NA	5/26/10 20:46		202273	
Acetone	5.0	U	5.0	0.69	1	NA	5/26/10 20:46		202273	
Benzene	1.0	U	1.0	0.098	1	NA	5/26/10 20:46		202273	
Bromochloromethane	1.0	U	1.0	0.18	1	NA	5/26/10 20:46		202273	
Bromodichloromethane	1.0	U	1.0	0.15	1	NA	5/26/10 20:46		202273	
Bromoform	1.0	U	1.0	0.14	1	NA	5/26/10 20:46		202273	
Bromomethane	1.0	U	1.0	0.12	1	NA	5/26/10 20:46		202273	
Carbon Disulfide	1.0	U	1.0	0.16	1	NA	5/26/10 20:46		202273	
Carbon Tetrachloride	1.0	U	1.0	0.12	1	NA	5/26/10 20:46		202273	
Chlorobenzene	1.0	U	1.0	0.14	1	NA	5/26/10 20:46		202273	
Chloroethane	1.0	U	1.0	0.21	1	NA	5/26/10 20:46		202273	
Chloroform	1.0	U	1.0	0.15	1	NA	5/26/10 20:46		202273	
Chloromethane	1.0	U	1.0	0.12	1	NA	5/26/10 20:46		202273	
cis-1,2-Dichloroethene	1.0	U	1.0	0.11	1	NA	5/26/10 20:46		202273	
cis-1,3-Dichloropropene	1.0	U	1.0	0.079	1	NA	5/26/10 20:46		202273	
Dibromochloromethane	1.0	U	1.0	0.13	1	NA	5/26/10 20:46		202273	
Ethylbenzene	1.0	U	1.0	0.13	1	NA	5/26/10 20:46		202273	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/20/10 0850
Sample Matrix:	Water	**Date Received:**	5/21/10
Sample Name:	14D	**Units:**	µg/L
Lab Code:	R1002703-010	**Basis:**	NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Hexachlorobutadiene	1.0	U	1.0	0.18	1	NA	5/26/10 20:46		202273	
m,p-Xylenes	1.0	U	1.0	0.22	1	NA	5/26/10 20:46		202273	
Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.16	1	NA	5/26/10 20:46		202273	
o-Xylene	1.0	U	1.0	0.11	1	NA	5/26/10 20:46		202273	
Styrene	1.0	U	1.0	0.096	1	NA	5/26/10 20:46		202273	
Tetrachloroethene (PCE)	1.0	U	1.0	0.15	1	NA	5/26/10 20:46		202273	
Toluene	1.0	U	1.0	0.098	1	NA	5/26/10 20:46		202273	
trans-1,2-Dichloroethene	1.0	U	1.0	0.16	1	NA	5/26/10 20:46		202273	
trans-1,3-Dichloropropene	1.0	U	1.0	0.060	1	NA	5/26/10 20:46		202273	
Trichloroethene (TCE)	1.0	U	1.0	0.16	1	NA	5/26/10 20:46		202273	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.18	1	NA	5/26/10 20:46		202273	
Vinyl Chloride	1.0	U	1.0	0.14	1	NA	5/26/10 20:46		202273	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	94	80-120	5/26/10 20:46		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/20/10
Sample Matrix:	Water	**Date Received:**	5/21/10
		Date Analyzed:	5/26/10 2046

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

Sample Name:	14D	**Units:**	µg/L
Lab Code:	R1002703-010	**Basis:**	NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/20/10 0920
Sample Matrix:	Water	**Date Received:**	5/21/10
Sample Name:	11D	**Units:**	µg/L
Lab Code:	R1002703-011	**Basis:**	NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.14	1	NA	5/26/10 21:23		202273	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.12	1	NA	5/26/10 21:23		202273	
1,1,2-Trichloroethane	1.0	U	1.0	0.11	1	NA	5/26/10 21:23		202273	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.11	1	NA	5/26/10 21:23		202273	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.17	1	NA	5/26/10 21:23		202273	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.18	1	NA	5/26/10 21:23		202273	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.13	1	NA	5/26/10 21:23		202273	
1,2-Dibromo-3-chloropropane (DBCP)	1.0	U	1.0	0.34	1	NA	5/26/10 21:23		202273	
1,2-Dibromoethane	1.0	U	1.0	0.14	1	NA	5/26/10 21:23		202273	
1,2-Dichloroethane	1.0	U	1.0	0.057	1	NA	5/26/10 21:23		202273	
1,2-Dichlorobenzene	1.0	U	1.0	0.089	1	NA	5/26/10 21:23		202273	
1,2-Dichloropropane	1.0	U	1.0	0.15	1	NA	5/26/10 21:23		202273	
1,3-Dichlorobenzene	1.0	U	1.0	0.092	1	NA	5/26/10 21:23		202273	
1,4-Dichlorobenzene	1.0	U	1.0	0.085	1	NA	5/26/10 21:23		202273	
2-Butanone (MEK)	5.0	U	5.0	0.75	1	NA	5/26/10 21:23		202273	
2-Hexanone	5.0	U	5.0	0.51	1	NA	5/26/10 21:23		202273	
4-Methyl-2-pentanone	5.0	U	5.0	0.56	1	NA	5/26/10 21:23		202273	
Acetone	0.73	BJ	5.0	0.69	1	NA	5/26/10 21:23		202273	
Benzene	1.0	U	1.0	0.098	1	NA	5/26/10 21:23		202273	
Bromochloromethane	1.0	U	1.0	0.18	1	NA	5/26/10 21:23		202273	
Bromodichloromethane	1.0	U	1.0	0.15	1	NA	5/26/10 21:23		202273	
Bromoform	1.0	U	1.0	0.14	1	NA	5/26/10 21:23		202273	
Bromomethane	1.0	U	1.0	0.12	1	NA	5/26/10 21:23		202273	
Carbon Disulfide	1.0	U	1.0	0.16	1	NA	5/26/10 21:23		202273	
Carbon Tetrachloride	11		1.0	0.12	1	NA	5/26/10 21:23		202273	
Chlorobenzene	1.0	U	1.0	0.14	1	NA	5/26/10 21:23		202273	
Chloroethane	1.0	U	1.0	0.21	1	NA	5/26/10 21:23		202273	
Chloroform	1.3		1.0	0.15	1	NA	5/26/10 21:23		202273	
Chloromethane	1.0	U	1.0	0.12	1	NA	5/26/10 21:23		202273	
cis-1,2-Dichloroethene	1.0	U	1.0	0.11	1	NA	5/26/10 21:23		202273	
cis-1,3-Dichloropropene	1.0	U	1.0	0.079	1	NA	5/26/10 21:23		202273	
Dibromochloromethane	1.0	U	1.0	0.13	1	NA	5/26/10 21:23		202273	
Ethylbenzene	1.0	U	1.0	0.13	1	NA	5/26/10 21:23		202273	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/20/10 0920
Sample Matrix:	Water	**Date Received:**	5/21/10
Sample Name:	11D	**Units:**	µg/L
Lab Code:	R1002703-011	**Basis:**	NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Hexachlorobutadiene	1.0	U	1.0	0.18	1	NA	5/26/10 21:23		202273	
m,p-Xylenes	1.0	U	1.0	0.22	1	NA	5/26/10 21:23		202273	
Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.16	1	NA	5/26/10 21:23		202273	
o-Xylene	1.0	U	1.0	0.11	1	NA	5/26/10 21:23		202273	
Styrene	1.0	U	1.0	0.096	1	NA	5/26/10 21:23		202273	
Tetrachloroethene (PCE)	1.0	U	1.0	0.15	1	NA	5/26/10 21:23		202273	
Toluene	1.0	U	1.0	0.098	1	NA	5/26/10 21:23		202273	
trans-1,2-Dichloroethene	1.0	U	1.0	0.16	1	NA	5/26/10 21:23		202273	
trans-1,3-Dichloropropene	1.0	U	1.0	0.060	1	NA	5/26/10 21:23		202273	
Trichloroethene (TCE)	**1.5**		1.0	0.16	1	NA	5/26/10 21:23		202273	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.18	1	NA	5/26/10 21:23		202273	
Vinyl Chloride	1.0	U	1.0	0.14	1	NA	5/26/10 21:23		202273	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	91	80-120	5/26/10 21:23		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/20/10
Sample Matrix:	Water	**Date Received:**	5/21/10
		Date Analyzed:	5/26/10 2123

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

Sample Name:	11D	**Units:**	µg/L
Lab Code:	R1002703-011	**Basis:**	NA

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:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/20/10 1010
Sample Matrix:	Water	**Date Received:**	5/21/10
Sample Name:	DGC-4S	**Units:**	µg/L
Lab Code:	R1002703-012	**Basis:**	NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.14	1	NA	5/26/10 21:59		202273	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.12	1	NA	5/26/10 21:59		202273	
1,1,2-Trichloroethane	1.0	U	1.0	0.11	1	NA	5/26/10 21:59		202273	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.11	1	NA	5/26/10 21:59		202273	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.17	1	NA	5/26/10 21:59		202273	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.18	1	NA	5/26/10 21:59		202273	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.13	1	NA	5/26/10 21:59		202273	
1,2-Dibromo-3-chloropropane (DBCP)	1.0	U	1.0	0.34	1	NA	5/26/10 21:59		202273	
1,2-Dibromoethane	1.0	U	1.0	0.14	1	NA	5/26/10 21:59		202273	
1,2-Dichloroethane	1.0	U	1.0	0.057	1	NA	5/26/10 21:59		202273	
1,2-Dichlorobenzene	1.0	U	1.0	0.089	1	NA	5/26/10 21:59		202273	
1,2-Dichloropropane	1.0	U	1.0	0.15	1	NA	5/26/10 21:59		202273	
1,3-Dichlorobenzene	1.0	U	1.0	0.092	1	NA	5/26/10 21:59		202273	
1,4-Dichlorobenzene	1.0	U	1.0	0.085	1	NA	5/26/10 21:59		202273	
2-Butanone (MEK)	5.0	U	5.0	0.75	1	NA	5/26/10 21:59		202273	
2-Hexanone	5.0	U	5.0	0.51	1	NA	5/26/10 21:59		202273	
4-Methyl-2-pentanone	5.0	U	5.0	0.56	1	NA	5/26/10 21:59		202273	
Acetone	0.94	BJ	5.0	0.69	1	NA	5/26/10 21:59		202273	
Benzene	1.0	U	1.0	0.098	1	NA	5/26/10 21:59		202273	
Bromochloromethane	1.0	U	1.0	0.18	1	NA	5/26/10 21:59		202273	
Bromodichloromethane	1.0	U	1.0	0.15	1	NA	5/26/10 21:59		202273	
Bromoform	1.0	U	1.0	0.14	1	NA	5/26/10 21:59		202273	
Bromomethane	1.0	U	1.0	0.12	1	NA	5/26/10 21:59		202273	
Carbon Disulfide	1.0	U	1.0	0.16	1	NA	5/26/10 21:59		202273	
Carbon Tetrachloride	1.0	U	1.0	0.12	1	NA	5/26/10 21:59		202273	
Chlorobenzene	1.0	U	1.0	0.14	1	NA	5/26/10 21:59		202273	
Chloroethane	1.0	U	1.0	0.21	1	NA	5/26/10 21:59		202273	
Chloroform	1.0	U	1.0	0.15	1	NA	5/26/10 21:59		202273	
Chloromethane	1.0	U	1.0	0.12	1	NA	5/26/10 21:59		202273	
cis-1,2-Dichloroethene	1.0	U	1.0	0.11	1	NA	5/26/10 21:59		202273	
cis-1,3-Dichloropropene	1.0	U	1.0	0.079	1	NA	5/26/10 21:59		202273	
Dibromochloromethane	1.0	U	1.0	0.13	1	NA	5/26/10 21:59		202273	
Ethylbenzene	1.0	U	1.0	0.13	1	NA	5/26/10 21:59		202273	

Comments:

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/20/10 1010
Sample Matrix:	Water	**Date Received:**	5/21/10
Sample Name:	DGC-4S	**Units:**	µg/L
Lab Code:	R1002703-012	**Basis:**	NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Hexachlorobutadiene	1.0	U	1.0	0.18	1	NA	5/26/10 21:59		202273	
m,p-Xylenes	1.0	U	1.0	0.22	1	NA	5/26/10 21:59		202273	
Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.16	1	NA	5/26/10 21:59		202273	
o-Xylene	1.0	U	1.0	0.11	1	NA	5/26/10 21:59		202273	
Styrene	1.0	U	1.0	0.096	1	NA	5/26/10 21:59		202273	
Tetrachloroethene (PCE)	1.0	U	1.0	0.15	1	NA	5/26/10 21:59		202273	
Toluene	1.0	U	1.0	0.098	1	NA	5/26/10 21:59		202273	
trans-1,2-Dichloroethene	1.0	U	1.0	0.16	1	NA	5/26/10 21:59		202273	
trans-1,3-Dichloropropene	1.0	U	1.0	0.060	1	NA	5/26/10 21:59		202273	
Trichloroethene (TCE)	1.0	U	1.0	0.16	1	NA	5/26/10 21:59		202273	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.18	1	NA	5/26/10 21:59		202273	
Vinyl Chloride	1.0	U	1.0	0.14	1	NA	5/26/10 21:59		202273	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	92	80-120	5/26/10 21:59		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/20/10
Sample Matrix:	Water	**Date Received:**	5/21/10
		Date Analyzed:	5/26/10 2159

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

Sample Name:	DGC-4S	**Units:**	µg/L
Lab Code:	R1002703-012	**Basis:**	NA

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:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/20/10 1045
Sample Matrix:	Water	**Date Received:**	5/21/10
Sample Name:	DGC-3S	**Units:**	µg/L
Lab Code:	R1002703-013	**Basis:**	NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.14	1	NA	5/26/10 22:36		202273	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.12	1	NA	5/26/10 22:36		202273	
1,1,2-Trichloroethane	1.0	U	1.0	0.11	1	NA	5/26/10 22:36		202273	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.11	1	NA	5/26/10 22:36		202273	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.17	1	NA	5/26/10 22:36		202273	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.18	1	NA	5/26/10 22:36		202273	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.13	1	NA	5/26/10 22:36		202273	
1,2-Dibromo-3-chloropropane (DBCP)	1.0	U	1.0	0.34	1	NA	5/26/10 22:36		202273	
1,2-Dibromoethane	1.0	U	1.0	0.14	1	NA	5/26/10 22:36		202273	
1,2-Dichloroethane	1.0	U	1.0	0.057	1	NA	5/26/10 22:36		202273	
1,2-Dichlorobenzene	1.0	U	1.0	0.089	1	NA	5/26/10 22:36		202273	
1,2-Dichloropropane	1.0	U	1.0	0.15	1	NA	5/26/10 22:36		202273	
1,3-Dichlorobenzene	1.0	U	1.0	0.092	1	NA	5/26/10 22:36		202273	
1,4-Dichlorobenzene	1.0	U	1.0	0.085	1	NA	5/26/10 22:36		202273	
2-Butanone (MEK)	5.0	U	5.0	0.75	1	NA	5/26/10 22:36		202273	
2-Hexanone	5.0	U	5.0	0.51	1	NA	5/26/10 22:36		202273	
4-Methyl-2-pentanone	5.0	U	5.0	0.56	1	NA	5/26/10 22:36		202273	
Acetone	1.5	BJ	5.0	0.69	1	NA	5/26/10 22:36		202273	
Benzene	1.0	U	1.0	0.098	1	NA	5/26/10 22:36		202273	
Bromochloromethane	1.0	U	1.0	0.18	1	NA	5/26/10 22:36		202273	
Bromodichloromethane	1.0	U	1.0	0.15	1	NA	5/26/10 22:36		202273	
Bromoform	1.0	U	1.0	0.14	1	NA	5/26/10 22:36		202273	
Bromomethane	1.0	U	1.0	0.12	1	NA	5/26/10 22:36		202273	
Carbon Disulfide	1.0	U	1.0	0.16	1	NA	5/26/10 22:36		202273	
Carbon Tetrachloride	1.0	U	1.0	0.12	1	NA	5/26/10 22:36		202273	
Chlorobenzene	1.0	U	1.0	0.14	1	NA	5/26/10 22:36		202273	
Chloroethane	1.0	U	1.0	0.21	1	NA	5/26/10 22:36		202273	
Chloroform	1.0	U	1.0	0.15	1	NA	5/26/10 22:36		202273	
Chloromethane	1.0	U	1.0	0.12	1	NA	5/26/10 22:36		202273	
cis-1,2-Dichloroethene	1.0	U	1.0	0.11	1	NA	5/26/10 22:36		202273	
cis-1,3-Dichloropropene	1.0	U	1.0	0.079	1	NA	5/26/10 22:36		202273	
Dibromochloromethane	1.0	U	1.0	0.13	1	NA	5/26/10 22:36		202273	
Ethylbenzene	1.0	U	1.0	0.13	1	NA	5/26/10 22:36		202273	

Comments:

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/20/10 1045
Sample Matrix:	Water	**Date Received:**	5/21/10
Sample Name:	DGC-3S	**Units:**	µg/L
Lab Code:	R1002703-013	**Basis:**	NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Hexachlorobutadiene	1.0	U	1.0	0.18	1	NA	5/26/10 22:36		202273	
m,p-Xylenes	1.0	U	1.0	0.22	1	NA	5/26/10 22:36		202273	
Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.16	1	NA	5/26/10 22:36		202273	
o-Xylene	1.0	U	1.0	0.11	1	NA	5/26/10 22:36		202273	
Styrene	1.0	U	1.0	0.096	1	NA	5/26/10 22:36		202273	
Tetrachloroethene (PCE)	1.0	U	1.0	0.15	1	NA	5/26/10 22:36		202273	
Toluene	1.0	U	1.0	0.098	1	NA	5/26/10 22:36		202273	
trans-1,2-Dichloroethene	1.0	U	1.0	0.16	1	NA	5/26/10 22:36		202273	
trans-1,3-Dichloropropene	1.0	U	1.0	0.060	1	NA	5/26/10 22:36		202273	
Trichloroethene (TCE)	1.0	U	1.0	0.16	1	NA	5/26/10 22:36		202273	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.18	1	NA	5/26/10 22:36		202273	
Vinyl Chloride	1.0	U	1.0	0.14	1	NA	5/26/10 22:36		202273	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	91	80-120	5/26/10 22:36		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/20/10
Sample Matrix:	Water	**Date Received:**	5/21/10
		Date Analyzed:	5/26/10 2236

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

Sample Name:	DGC-3S	**Units:**	µg/L
Lab Code:	R1002703-013	**Basis:**	NA

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:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/20/10
Sample Matrix:	Water	**Date Received:**	5/21/10
Sample Name:	Trip Blank	**Units:**	µg/L
Lab Code:	R1002703-014	**Basis:**	NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.14	1	NA	5/26/10 23:12		202273	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.12	1	NA	5/26/10 23:12		202273	
1,1,2-Trichloroethane	1.0	U	1.0	0.11	1	NA	5/26/10 23:12		202273	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.11	1	NA	5/26/10 23:12		202273	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.17	1	NA	5/26/10 23:12		202273	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.18	1	NA	5/26/10 23:12		202273	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.13	1	NA	5/26/10 23:12		202273	
1,2-Dibromo-3-chloropropane (DBCP)	1.0	U	1.0	0.34	1	NA	5/26/10 23:12		202273	
1,2-Dibromoethane	1.0	U	1.0	0.14	1	NA	5/26/10 23:12		202273	
1,2-Dichloroethane	1.0	U	1.0	0.057	1	NA	5/26/10 23:12		202273	
1,2-Dichlorobenzene	1.0	U	1.0	0.089	1	NA	5/26/10 23:12		202273	
1,2-Dichloropropane	1.0	U	1.0	0.15	1	NA	5/26/10 23:12		202273	
1,3-Dichlorobenzene	1.0	U	1.0	0.092	1	NA	5/26/10 23:12		202273	
1,4-Dichlorobenzene	1.0	U	1.0	0.085	1	NA	5/26/10 23:12		202273	
2-Butanone (MEK)	5.0	U	5.0	0.75	1	NA	5/26/10 23:12		202273	
2-Hexanone	5.0	U	5.0	0.51	1	NA	5/26/10 23:12		202273	
4-Methyl-2-pentanone	5.0	U	5.0	0.56	1	NA	5/26/10 23:12		202273	
Acetone	**1.4**	BJ	5.0	0.69	1	NA	5/26/10 23:12		202273	
Benzene	1.0	U	1.0	0.098	1	NA	5/26/10 23:12		202273	
Bromochloromethane	1.0	U	1.0	0.18	1	NA	5/26/10 23:12		202273	
Bromodichloromethane	1.0	U	1.0	0.15	1	NA	5/26/10 23:12		202273	
Bromoform	1.0	U	1.0	0.14	1	NA	5/26/10 23:12		202273	
Bromomethane	1.0	U	1.0	0.12	1	NA	5/26/10 23:12		202273	
Carbon Disulfide	1.0	U	1.0	0.16	1	NA	5/26/10 23:12		202273	
Carbon Tetrachloride	1.0	U	1.0	0.12	1	NA	5/26/10 23:12		202273	
Chlorobenzene	1.0	U	1.0	0.14	1	NA	5/26/10 23:12		202273	
Chloroethane	1.0	U	1.0	0.21	1	NA	5/26/10 23:12		202273	
Chloroform	1.0	U	1.0	0.15	1	NA	5/26/10 23:12		202273	
Chloromethane	1.0	U	1.0	0.12	1	NA	5/26/10 23:12		202273	
cis-1,2-Dichloroethene	1.0	U	1.0	0.11	1	NA	5/26/10 23:12		202273	
cis-1,3-Dichloropropene	1.0	U	1.0	0.079	1	NA	5/26/10 23:12		202273	
Dibromochloromethane	1.0	U	1.0	0.13	1	NA	5/26/10 23:12		202273	
Ethylbenzene	1.0	U	1.0	0.13	1	NA	5/26/10 23:12		202273	

Comments:

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/20/10
Sample Matrix:	Water	**Date Received:**	5/21/10
Sample Name:	Trip Blank	**Units:**	µg/L
Lab Code:	R1002703-014	**Basis:**	NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Hexachlorobutadiene	1.0	U	1.0	0.18	1	NA	5/26/10 23:12		202273	
m,p-Xylenes	1.0	U	1.0	0.22	1	NA	5/26/10 23:12		202273	
Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.16	1	NA	5/26/10 23:12		202273	
o-Xylene	1.0	U	1.0	0.11	1	NA	5/26/10 23:12		202273	
Styrene	1.0	U	1.0	0.096	1	NA	5/26/10 23:12		202273	
Tetrachloroethene (PCE)	1.0	U	1.0	0.15	1	NA	5/26/10 23:12		202273	
Toluene	1.0	U	1.0	0.098	1	NA	5/26/10 23:12		202273	
trans-1,2-Dichloroethene	1.0	U	1.0	0.16	1	NA	5/26/10 23:12		202273	
trans-1,3-Dichloropropene	1.0	U	1.0	0.060	1	NA	5/26/10 23:12		202273	
Trichloroethene (TCE)	1.0	U	1.0	0.16	1	NA	5/26/10 23:12		202273	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.18	1	NA	5/26/10 23:12		202273	
Vinyl Chloride	1.0	U	1.0	0.14	1	NA	5/26/10 23:12		202273	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	88	80-120	5/26/10 23:12		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/20/10
Sample Matrix:	Water	**Date Received:**	5/21/10
		Date Analyzed:	5/26/10 2312

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

Sample Name:	Trip Blank	**Units:**	µg/L
Lab Code:	R1002703-014	**Basis:**	NA

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:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1004245-01	**Basis:**	NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.14	1	NA	5/26/10 15:39		202273	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.12	1	NA	5/26/10 15:39		202273	
1,1,2-Trichloroethane	1.0	U	1.0	0.11	1	NA	5/26/10 15:39		202273	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.11	1	NA	5/26/10 15:39		202273	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.17	1	NA	5/26/10 15:39		202273	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.18	1	NA	5/26/10 15:39		202273	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.13	1	NA	5/26/10 15:39		202273	
1,2-Dibromo-3-chloropropane (DBCP)	1.0	U	1.0	0.34	1	NA	5/26/10 15:39		202273	
1,2-Dibromoethane	1.0	U	1.0	0.14	1	NA	5/26/10 15:39		202273	
1,2-Dichloroethane	1.0	U	1.0	0.057	1	NA	5/26/10 15:39		202273	
1,2-Dichlorobenzene	1.0	U	1.0	0.089	1	NA	5/26/10 15:39		202273	
1,2-Dichloropropane	1.0	U	1.0	0.15	1	NA	5/26/10 15:39		202273	
1,3-Dichlorobenzene	1.0	U	1.0	0.092	1	NA	5/26/10 15:39		202273	
1,4-Dichlorobenzene	1.0	U	1.0	0.085	1	NA	5/26/10 15:39		202273	
2-Butanone (MEK)	5.0	U	5.0	0.75	1	NA	5/26/10 15:39		202273	
2-Hexanone	5.0	U	5.0	0.51	1	NA	5/26/10 15:39		202273	
4-Methyl-2-pentanone	5.0	U	5.0	0.56	1	NA	5/26/10 15:39		202273	
Acetone	**1.0**	J	5.0	0.69	1	NA	5/26/10 15:39		202273	
Benzene	1.0	U	1.0	0.098	1	NA	5/26/10 15:39		202273	
Bromochloromethane	1.0	U	1.0	0.18	1	NA	5/26/10 15:39		202273	
Bromodichloromethane	1.0	U	1.0	0.15	1	NA	5/26/10 15:39		202273	
Bromoform	1.0	U	1.0	0.14	1	NA	5/26/10 15:39		202273	
Bromomethane	1.0	U	1.0	0.12	1	NA	5/26/10 15:39		202273	
Carbon Disulfide	1.0	U	1.0	0.16	1	NA	5/26/10 15:39		202273	
Carbon Tetrachloride	1.0	U	1.0	0.12	1	NA	5/26/10 15:39		202273	
Chlorobenzene	1.0	U	1.0	0.14	1	NA	5/26/10 15:39		202273	
Chloroethane	1.0	U	1.0	0.21	1	NA	5/26/10 15:39		202273	
Chloroform	1.0	U	1.0	0.15	1	NA	5/26/10 15:39		202273	
Chloromethane	1.0	U	1.0	0.12	1	NA	5/26/10 15:39		202273	
cis-1,2-Dichloroethene	1.0	U	1.0	0.11	1	NA	5/26/10 15:39		202273	
cis-1,3-Dichloropropene	1.0	U	1.0	0.079	1	NA	5/26/10 15:39		202273	
Dibromochloromethane	1.0	U	1.0	0.13	1	NA	5/26/10 15:39		202273	
Ethylbenzene	1.0	U	1.0	0.13	1	NA	5/26/10 15:39		202273	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1004245-01	**Basis:**	NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Hexachlorobutadiene	1.0	U	1.0	0.18	1	NA	5/26/10 15:39		202273	
m,p-Xylenes	1.0	U	1.0	0.22	1	NA	5/26/10 15:39		202273	
Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.16	1	NA	5/26/10 15:39		202273	
o-Xylene	1.0	U	1.0	0.11	1	NA	5/26/10 15:39		202273	
Styrene	1.0	U	1.0	0.096	1	NA	5/26/10 15:39		202273	
Tetrachloroethene (PCE)	1.0	U	1.0	0.15	1	NA	5/26/10 15:39		202273	
Toluene	1.0	U	1.0	0.098	1	NA	5/26/10 15:39		202273	
trans-1,2-Dichloroethene	1.0	U	1.0	0.16	1	NA	5/26/10 15:39		202273	
trans-1,3-Dichloropropene	1.0	U	1.0	0.060	1	NA	5/26/10 15:39		202273	
Trichloroethene (TCE)	1.0	U	1.0	0.16	1	NA	5/26/10 15:39		202273	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.18	1	NA	5/26/10 15:39		202273	
Vinyl Chloride	1.0	U	1.0	0.14	1	NA	5/26/10 15:39		202273	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	94	80-120	5/26/10 15:39		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	5/26/10 1539

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

Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1004245-01	**Basis:**	NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1004330-01	**Basis:**	NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.14	1	NA	5/27/10 14:48		202478	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.12	1	NA	5/27/10 14:48		202478	
1,1,2-Trichloroethane	1.0	U	1.0	0.11	1	NA	5/27/10 14:48		202478	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.11	1	NA	5/27/10 14:48		202478	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.17	1	NA	5/27/10 14:48		202478	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.18	1	NA	5/27/10 14:48		202478	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.13	1	NA	5/27/10 14:48		202478	
1,2-Dibromo-3-chloropropane (DBCP)	1.0	U	1.0	0.34	1	NA	5/27/10 14:48		202478	
1,2-Dibromoethane	1.0	U	1.0	0.14	1	NA	5/27/10 14:48		202478	
1,2-Dichloroethane	1.0	U	1.0	0.057	1	NA	5/27/10 14:48		202478	
1,2-Dichlorobenzene	1.0	U	1.0	0.089	1	NA	5/27/10 14:48		202478	
1,2-Dichloropropane	1.0	U	1.0	0.15	1	NA	5/27/10 14:48		202478	
1,3-Dichlorobenzene	1.0	U	1.0	0.092	1	NA	5/27/10 14:48		202478	
1,4-Dichlorobenzene	1.0	U	1.0	0.085	1	NA	5/27/10 14:48		202478	
2-Butanone (MEK)	5.0	U	5.0	0.75	1	NA	5/27/10 14:48		202478	
2-Hexanone	5.0	U	5.0	0.51	1	NA	5/27/10 14:48		202478	
4-Methyl-2-pentanone	5.0	U	5.0	0.56	1	NA	5/27/10 14:48		202478	
Acetone	**0.91**	J	5.0	0.69	1	NA	5/27/10 14:48		202478	
Benzene	1.0	U	1.0	0.098	1	NA	5/27/10 14:48		202478	
Bromochloromethane	1.0	U	1.0	0.18	1	NA	5/27/10 14:48		202478	
Bromodichloromethane	1.0	U	1.0	0.15	1	NA	5/27/10 14:48		202478	
Bromoform	1.0	U	1.0	0.14	1	NA	5/27/10 14:48		202478	
Bromomethane	1.0	U	1.0	0.12	1	NA	5/27/10 14:48		202478	
Carbon Disulfide	1.0	U	1.0	0.16	1	NA	5/27/10 14:48		202478	
Carbon Tetrachloride	1.0	U	1.0	0.12	1	NA	5/27/10 14:48		202478	
Chlorobenzene	1.0	U	1.0	0.14	1	NA	5/27/10 14:48		202478	
Chloroethane	1.0	U	1.0	0.21	1	NA	5/27/10 14:48		202478	
Chloroform	1.0	U	1.0	0.15	1	NA	5/27/10 14:48		202478	
Chloromethane	1.0	U	1.0	0.12	1	NA	5/27/10 14:48		202478	
cis-1,2-Dichloroethene	1.0	U	1.0	0.11	1	NA	5/27/10 14:48		202478	
cis-1,3-Dichloropropene	1.0	U	1.0	0.079	1	NA	5/27/10 14:48		202478	
Dibromochloromethane	1.0	U	1.0	0.13	1	NA	5/27/10 14:48		202478	
Ethylbenzene	1.0	U	1.0	0.13	1	NA	5/27/10 14:48		202478	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1004330-01	**Basis:**	NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Hexachlorobutadiene	1.0	U	1.0	0.18	1	NA	5/27/10 14:48		202478	
m,p-Xylenes	1.0	U	1.0	0.22	1	NA	5/27/10 14:48		202478	
Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.16	1	NA	5/27/10 14:48		202478	
o-Xylene	1.0	U	1.0	0.11	1	NA	5/27/10 14:48		202478	
Styrene	1.0	U	1.0	0.096	1	NA	5/27/10 14:48		202478	
Tetrachloroethene (PCE)	1.0	U	1.0	0.15	1	NA	5/27/10 14:48		202478	
Toluene	1.0	U	1.0	0.098	1	NA	5/27/10 14:48		202478	
trans-1,2-Dichloroethene	1.0	U	1.0	0.16	1	NA	5/27/10 14:48		202478	
trans-1,3-Dichloropropene	1.0	U	1.0	0.060	1	NA	5/27/10 14:48		202478	
Trichloroethene (TCE)	1.0	U	1.0	0.16	1	NA	5/27/10 14:48		202478	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.18	1	NA	5/27/10 14:48		202478	
Vinyl Chloride	1.0	U	1.0	0.14	1	NA	5/27/10 14:48		202478	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	95	80-120	5/27/10 14:48		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	5/27/10 1448

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

Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1004330-01	**Basis:**	NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/138165
Sample Matrix: Water

Service Request: R1002703
Date Collected: 5/19/10
Date Received: 5/20/10
Date Analyzed: 5/27/10

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

Sample Name: DUPE A
Lab Code: R1002703-002

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Sample Result	Matrix Spike RQ1004245-05 Result	Matrix Spike Amount	Matrix Spike % Rec	Duplicate Matrix Spike RQ1004245-06 Result	Duplicate Matrix Spike Amount	Duplicate Matrix Spike % Rec		% Rec Limits	RPD	RPD Limit
1,1,2-Trichloroethane	ND	4.55	5.00	91	4.53	5.00	91		60 - 140	0	30
1,2-Dibromoethane	ND	4.22	5.00	84	4.38	5.00	88		60 - 140	4	30
1,2-Dichloroethane	ND	4.22	5.00	84	4.45	5.00	89		60 - 140	5	30
1,2-Dichloropropane	ND	4.34	5.00	87	4.35	5.00	87		60 - 140	0	30
1,4-Dichlorobenzene	ND	4.46	5.00	89	4.35	5.00	87		60 - 140	2	30
Benzene	ND	4.49	5.00	90	4.31	5.00	86		60 - 140	4	30
Bromoform	ND	4.11	5.00	82	4.33	5.00	87		60 - 140	5	30
Carbon Tetrachloride	4.8	9.00	5.00	84	8.58	5.00	75		60 - 140	5	30
cis-1,3-Dichloropropene	ND	4.11	5.00	82	4.06	5.00	81		60 - 140	1	30
Tetrachloroethene (PCE)	ND	4.83	5.00	97	4.58	5.00	92		60 - 140	5	30
Trichloroethene (TCE)	10	13.7	5.00	63	13.0	5.00	51	*	60 - 140	5	30
Vinyl Chloride	ND	4.52	5.00	90	4.46	5.00	89		60 - 140	1	30

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/138165
Sample Matrix: Water

Service Request: R1002703
Date Collected: 5/20/10
Date Received: 5/21/10
Date Analyzed: 5/26/10 - 5/27/10

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

Sample Name: 14D
Lab Code: R1002703-010

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Sample Result	Matrix Spike RQ1004245-03 Result	Amount	% Rec	Duplicate Matrix Spike RQ1004245-04 Result	Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,1,2-Trichloroethane	ND	4.75	5.00	95	4.73	5.00	95	60 - 140	0	30
1,2-Dibromoethane	ND	4.56	5.00	91	4.47	5.00	89	60 - 140	2	30
1,2-Dichloroethane	ND	4.78	5.00	96	4.60	5.00	92	60 - 140	4	30
1,2-Dichloropropane	ND	4.94	5.00	99	4.95	5.00	99	60 - 140	0	30
1,4-Dichlorobenzene	ND	4.95	5.00	99	5.02	5.00	100	60 - 140	1	30
Benzene	ND	4.94	5.00	99	4.90	5.00	98	60 - 140	1	30
Bromoform	ND	4.67	5.00	93	4.80	5.00	96	60 - 140	3	30
Carbon Tetrachloride	ND	5.08	5.00	102	5.01	5.00	100	60 - 140	1	30
cis-1,3-Dichloropropene	ND	4.06	5.00	81	4.14	5.00	83	60 - 140	2	30
Tetrachloroethene (PCE)	ND	5.02	5.00	100	5.13	5.00	103	60 - 140	2	30
Trichloroethene (TCE)	ND	5.14	5.00	103	4.96	5.00	99	60 - 140	4	30
Vinyl Chloride	ND	4.94	5.00	99	4.73	5.00	95	60 - 140	4	30

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/138165
Sample Matrix: Water

Service Request: R1002703
Date Analyzed: 5/26/10

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: 202273

Analyte Name	Lab Control Sample RQ1004245-02 Result	Expected	% Rec	% Rec Limits
1,1,2-Trichloroethane	**5.22**	5.00	104	60 - 140
1,2-Dibromoethane	**5.19**	5.00	104	60 - 140
1,2-Dichloroethane	**4.84**	5.00	97	60 - 140
1,2-Dichloropropane	**5.05**	5.00	101	60 - 140
1,4-Dichlorobenzene	**4.97**	5.00	99	60 - 140
Benzene	**4.93**	5.00	99	60 - 140
Bromoform	**5.08**	5.00	102	60 - 140
Carbon Tetrachloride	**5.02**	5.00	100	60 - 140
cis-1,3-Dichloropropene	**4.73**	5.00	95	60 - 140
Tetrachloroethene (PCE)	**5.11**	5.00	102	60 - 140
Trichloroethene (TCE)	**4.96**	5.00	99	60 - 140
Vinyl Chloride	**4.74**	5.00	95	60 - 140

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/138165
Sample Matrix: Water

Service Request: R1002703
Date Analyzed: 5/27/10

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: 202478

Analyte Name	Lab Control Sample RQ1004330-02 Result	Expected	% Rec	% Rec Limits
1,1,2-Trichloroethane	**4.75**	5.00	95	60 - 140
1,2-Dibromoethane	**4.43**	5.00	89	60 - 140
1,2-Dichloroethane	**4.48**	5.00	90	60 - 140
1,2-Dichloropropane	**4.45**	5.00	89	60 - 140
1,4-Dichlorobenzene	**4.46**	5.00	89	60 - 140
Benzene	**4.52**	5.00	90	60 - 140
Bromoform	**4.41**	5.00	88	60 - 140
Carbon Tetrachloride	**4.57**	5.00	91	60 - 140
cis-1,3-Dichloropropene	**4.33**	5.00	87	60 - 140
Tetrachloroethene (PCE)	**4.70**	5.00	94	60 - 140
Trichloroethene (TCE)	**4.35**	5.00	87	60 - 140
Vinyl Chloride	**4.73**	5.00	95	60 - 140

Comments:

Columbia Analytical Services

METALS
COVER PAGE - INORGANIC ANALYSIS DATA PACKAGE

Contract: R1002703 SDG No.: 4D

Lab Code: _____ Case No.: _____ SAS No.: _____

SOW No.: CLP ILM 5.3

Sample ID.	Lab Sample No.
DUPE A	R1002703-002
M-27D	R1002703-003
13D	R1002703-004
13DD	R1002703-004D
13DS	R1002703-004S

Were ICP interelement corrections applied? Yes/No YES

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

Comments: See Attatched Case Narrative

Signature: Michael E. Perry Name: Michael Perry

Date: 6/05/16 Title: Laboratory Director

Columbia Analytical Services

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: 13D

Contract: R1002703

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 4D

Matrix (soil/water): WATER Lab Sample ID: R1002703-004

Level (low/med): LOW Date Received: 5/20/2010

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

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	3.4	J		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

Columbia Analytical Services

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: DUPE A

Contract: R1002703

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 4D

Matrix (soil/water): WATER Lab Sample ID: R1002703-002

Level (low/med): LOW Date Received: 5/20/2010

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

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	0.861	J		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

Columbia Analytical Services

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: M-27D

Contract: R1002703

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 4D

Matrix (soil/water): WATER Lab Sample ID: R1002703-003

Level (low/med): LOW Date Received: 5/20/2010

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

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	1.1	J		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

METALS

-3-

BLANKS

Contract: R1002703

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 4D

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Chromium	0.423	U	0.423	U	0.423	U	0.423	U	0.423	U	P

Comments:

Columbia Analytical Services

METALS
-5A-
SPIKE SAMPLE RECOVERY

SAMPLE NO.

13DS

Contract: R1002703

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 4D

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 100.0

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Chromium	75 - 125	199.00		3.40	J	200.0	98		P

Comments:

METALS
-5B-
POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.: 13DA

Contract: R1002703

Lab Code: _____ Case No.: _____ SAS _____ SDG NO.: 4D

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Chromium		199.00		3.40	J	200.0	98		P

Comments: _____

METALS
-6-
DUPLICATES

SAMPLE NO.: 13DD

Contract: R1002703

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 4D

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 100.0 % Solids for Duplicate: 100.0

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Chromium		3.40	J	3.29	J	3		P

Comments: _____

METALS

-7-

LABORATORY CONTROL SAMPLE

Contract: R1002703

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 4D

Solid LCS Source: _____

Aqueous LCS Source: CPI

Analyte	Aqueous (ug/L)			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Chromium	200	196	98					

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/19/10
Sample Matrix:	Water	**Date Received:**	5/20/10
Sample Name:	DUPE A		
Lab Code:	R1002703-002	**Basis:**	NA

Chromium, Hexavalent (Colorimetric)

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed
Chromium, Hexavalent	7196A	0.010	U	mg/L	0.010	1	NA	5/20/10 10:41

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/19/10 1330
Sample Matrix:	Water	**Date Received:**	5/20/10
Sample Name:	M-27D		
Lab Code:	R1002703-003	**Basis:**	NA

Chromium, Hexavalent (Colorimetric)

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed
Chromium, Hexavalent	7196A	0.010	U	mg/L	0.010	1	NA	5/20/10 10:41

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/19/10 1215
Sample Matrix:	Water	**Date Received:**	5/20/10
Sample Name:	13D		
Lab Code:	R1002703-004	**Basis:**	NA

Chromium, Hexavalent (Colorimetric)

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed
Chromium, Hexavalent	7196A	0.010	U	mg/L	0.010	1	NA	5/20/10 10:41

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank		
Lab Code:	R1002703-MB	**Basis:**	NA

Chromium, Hexavalent (Colorimetric)

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed
Chromium, Hexavalent	7196A	0.010	U	mg/L	0.010	1	NA	5/20/10 10:41

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/138165
Sample Matrix: Water

Service Request: R1002703
Date Collected: 5/19/10
Date Received: 5/20/10
Date Analyzed: 5/20/10

Duplicate Sample Summary
Chromium, Hexavalent (Colorimetric)

Sample Name: 13D
Lab Code: R1002703-004

Units: mg/L
Basis: NA

Analyte Name	Method	MRL	Sample Result	Duplicate Sample R1002703-DUP Result	Average	RPD	RPD Limit
Chromium, Hexavalent	7196A	0.010	0.010 U	0.010 U	NC	NC	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/19/10
Sample Matrix:	Water	**Date Received:**	5/20/10
		Date Analyzed:	5/20/10

Matrix Spike Summary
Chromium, Hexavalent (Colorimetric)

Sample Name:	13D	**Units:**	mg/L
Lab Code:	R1002703-004	**Basis:**	NA

Analytical Method: 7196A

		Matrix Spike R1002703-MS			
Analyte Name	**Sample Result**	**Result**	**Amount**	**% Rec**	**% Rec Limits**
Chromium, Hexavalent	ND	0.0933	0.100	93	85 - 115

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/138165
Sample Matrix: Water

Service Request: R1002703
Date Analyzed: 5/20/10

Lab Control Sample Summary
Chromium, Hexavalent (Colorimetric)

Units: mg/L
Basis: NA

Analyte Name	Method	Lab Control Sample R1002703-LCS Result	Expected	% Rec	% Rec Limits
Chromium, Hexavalent	7196A	**0.104**	0.100	104	92 - 110

Comments:

APPENDIX C

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

July 20, 2010

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

RE: Validation of GE MRFA Malta Site Data Packages
CAS Sub No. R1002703

Dear Mr. Neumann:

Review has been completed for the data packages generated by Columbia Analytical Services (CAS), pertaining to groundwater samples collected 05/19/10 and 05/20/10 at the GE Malta Site. Eight samples and a field duplicate, a cooler blank and two trip blanks were processed for site-specific low level volatiles. Two of the samples and the field duplicate were also analyzed for total and hexavalent chromium. Methodologies utilized include those of the USEPA OLC02.1, EPA CLP ILM, and USEPA SW846 7196.

Data validation was performed with guidance from the USEPA CLP National Functional Guidelines for Organic and Inorganic Data Review and the USEPA 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/CRI 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 of the acetone results, including edit to non-detection. These are discussed in the following analytical sections.

Copies of laboratory identification summaries and case narratives are attached to this text, and should be reviewed in conjunction with this report. Sample results forms are also submitted, reflecting the qualifiers in red ink.

Low Level Volatile Analyses

The detected results for acetone are considered external contamination, and are edited to reflect non-detection, as indicated by the presence in the associated trip and method blanks.

Matrix spikes of DUPEA show acceptable accuracy and precision for the twelve analytes evaluated.

Volatile blind field duplicate correlations for M-27D are within validation guidelines.

Acetone exhibits 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 and calibration standard responses, but the reporting limits and detected values for those compounds in the specific associated samples and trip/cooler blanks should be considered estimated ("UJ" or "J" qualifiers), possibly biased low.

Holding times were met, and surrogate and internal standard responses are within required limits.

Two of the samples were analyzed at initial dilution due to target analyte concentrations. This results in elevated reporting limits for analytes not detected in the affected samples.

Total Chromium Analyses

The matrix spike/lab duplicate accuracy and precision determinations were performed on 13D, and show recovery and duplicate correlation within recommended limits. The field duplicate evaluation for M-27D also shows good correlation.

The serial dilution evaluation of 13D is 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.

The matrix spike/laboratory duplicate accuracy and precision determinations were performed on 13D, and show recovery and duplicate correlation within recommended limits. The field duplicate correlations for 13D were within guidelines.

Holding times were met. Reported results are substantiated by the raw data, and generated in compliance with required protocols.

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 NARRATIVE

CAS ASP/CLP Batching Form/Login Sheet

Client Proj #:	138165	Batch Complete:	Yes	Date Revised:	
Submission:	R1002703	Diskette Requested:	No	Date Due:	6/11/10
Client:	Shaw Environmental & Infrastructu	Date:	6/15/10	Protocol:	CLP
Client Rep:	JJAEGER	Custody Seal: Present/Absent:		Shipping No.:	
Project:	GE MRFA	Chain of Custody: Present/Absent:		SDG #:	4D

CAS Job #	Client/EPA ID	Matrix	Requested Parameters	Date Sampled	Date Received	pH (Solids)	% Solids	Remarks Sample Condition
R1002703-001	4D	Water	CLP-VOA OLC02.1	5/19/10	5/20/10			
R1002703-002	DUPE A	Water	7196A, CLP-METALS ILM05.3, CLP-VOA OLC02.1	5/19/10	5/20/10			
R1002703-003	M-27D	Water	7196A, CLP-METALS ILM05.3, CLP-VOA OLC02.1	5/19/10	5/20/10			
R1002703-004QC	13D	Water	7196A, CLP-METALS ILM05.3	5/19/10	5/20/10			
R1002703-005	M-24DR	Water	CLP-VOA OLC02.1	5/19/10	5/20/10			
R1002703-006	M-25D	Water	CLP-VOA OLC02.1	5/19/10	5/20/10			
R1002703-007	M-29	Water	CLP-VOA OLC02.1	5/19/10	5/20/10			
R1002703-008	TRIP BLANK	Water	CLP-VOA OLC02.1	5/19/10	5/20/10			
R1002703-009	COOLER BLANK	Water	CLP-VOA OLC02.1	5/20/10	5/20/10			
R1002703-010QC	14D	Water	CLP-VOA OLC02.1	5/20/10	5/21/10			
R1002703-011	11D	Water	CLP-VOA OLC02.1	5/20/10	5/21/10			
R1002703-012	DGC-4S	Water	CLP-VOA OLC02.1	5/20/10	5/21/10			
R1002703-013	DGC-3S	Water	CLP-VOA OLC02.1	5/20/10	5/21/10			
R1002703-014	Trip Blank	Water	CLP-VOA OLC02.1	5/20/10	5/21/10			

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

CASE NARRATIVE

COMPANY: Shaw Environmental
GE MRFA Project #138165
SERVICE REQUEST #: R1002703

Shaw samples were collected on 05/19-20/10 and received at CAS on 05/20-21/10 in good condition.

INORGANICS

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

Site specific QC was performed on 13D. All MS and Blank spike recoveries were within limits. All RPD's were within limits.

All samples were analyzed within required holding times except as mentioned above.

No other analytical or QC problems were encountered.

VOLATILE ORGANICS

Thirteen water samples and one cooler blank were analyzed for OLC 2.1 Volatiles by CLP methodology.

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

All internal standard areas were within QC limits.

All surrogate standard recoveries were within QC limits.

Site specific QC was performed on DUPE A and 14D. All MSD recoveries were within limits except Trichloroethene for DUPE A and has been flagged with an "*". All MS and Reference spike recoveries were within limits. All RPD's were within limits.

The Laboratory blanks associated with these samples were free of contamination except the 05/26/10 and 05/27/10 had a low level hit for Acetone. All affected data has been flagged with a "B".

All samples were analyzed within required holding times.

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 hard copy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

QUALIFIED SAMPLE RESULTS FORMS

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/138165
Sample Matrix: Water

Sample Name: 4D
Lab Code: R1002703-001

Service Request: R1002703
Date Collected: 5/19/10 1125
Date Received: 5/20/10

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.14	1	NA	5/26/10 16:17		202273	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.12	1	NA	5/26/10 16:17		202273	
1,1,2-Trichloroethane	1.0	U	1.0	0.11	1	NA	5/26/10 16:17		202273	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.11	1	NA	5/26/10 16:17		202273	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.17	1	NA	5/26/10 16:17		202273	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.18	1	NA	5/26/10 16:17		202273	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.13	1	NA	5/26/10 16:17		202273	
1,2-Dibromo-3-chloropropane (DBCP)	1.0	U	1.0	0.34	1	NA	5/26/10 16:17		202273	
1,2-Dibromoethane	1.0	U	1.0	0.14	1	NA	5/26/10 16:17		202273	
1,2-Dichloroethane	1.0	U	1.0	0.057	1	NA	5/26/10 16:17		202273	
1,2-Dichlorobenzene	1.0	U	1.0	0.089	1	NA	5/26/10 16:17		202273	
1,2-Dichloropropane	1.0	U	1.0	0.15	1	NA	5/26/10 16:17		202273	
1,3-Dichlorobenzene	1.0	U	1.0	0.092	1	NA	5/26/10 16:17		202273	
1,4-Dichlorobenzene	1.0	U	1.0	0.085	1	NA	5/26/10 16:17		202273	
2-Butanone (MEK)	5.0	U	5.0	0.75	1	NA	5/26/10 16:17		202273	
2-Hexanone	5.0	U	5.0	0.51	1	NA	5/26/10 16:17		202273	
4-Methyl-2-pentanone	5.0	U	5.0	0.56	1	NA	5/26/10 16:17		202273	
Acetone	~~5.0 1.6 BJ~~ 5.0 UJ		5.0	0.69	1	NA	5/26/10 16:17		202273	
Benzene	1.0	U	1.0	0.098	1	NA	5/26/10 16:17		202273	
Bromochloromethane	1.0	U	1.0	0.18	1	NA	5/26/10 16:17		202273	
Bromodichloromethane	1.0	U	1.0	0.15	1	NA	5/26/10 16:17		202273	
Bromoform	1.0	U	1.0	0.14	1	NA	5/26/10 16:17		202273	
Bromomethane	1.0	U	1.0	0.12	1	NA	5/26/10 16:17		202273	
Carbon Disulfide	1.0	U	1.0	0.16	1	NA	5/26/10 16:17		202273	
Carbon Tetrachloride	1.0	U	1.0	0.12	1	NA	5/26/10 16:17		202273	
Chlorobenzene	1.0	U	1.0	0.14	1	NA	5/26/10 16:17		202273	
Chloroethane	1.0	U	1.0	0.21	1	NA	5/26/10 16:17		202273	
Chloroform	1.0	U	1.0	0.15	1	NA	5/26/10 16:17		202273	
Chloromethane	1.0	U	1.0	0.12	1	NA	5/26/10 16:17		202273	
cis-1,2-Dichloroethene	1.0	U	1.0	0.11	1	NA	5/26/10 16:17		202273	
cis-1,3-Dichloropropene	1.0	U	1.0	0.079	1	NA	5/26/10 16:17		202273	
Dibromochloromethane	1.0	U	1.0	0.13	1	NA	5/26/10 16:17		202273	
Ethylbenzene	1.0	U	1.0	0.13	1	NA	5/26/10 16:17		202273	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/138165
Sample Matrix: Water

Sample Name: 4D
Lab Code: R1002703-001

Service Request: R1002703
Date Collected: 5/19/10 1125
Date Received: 5/20/10

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Hexachlorobutadiene	1.0	U	1.0	0.18	1	NA	5/26/10 16:17		202273	
m,p-Xylenes	1.0	U	1.0	0.22	1	NA	5/26/10 16:17		202273	
Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.16	1	NA	5/26/10 16:17		202273	
o-Xylene	1.0	U	1.0	0.11	1	NA	5/26/10 16:17		202273	
Styrene	1.0	U	1.0	0.096	1	NA	5/26/10 16:17		202273	
Tetrachloroethene (PCE)	1.0	U	1.0	0.15	1	NA	5/26/10 16:17		202273	
Toluene	1.0	U	1.0	0.098	1	NA	5/26/10 16:17		202273	
trans-1,2-Dichloroethene	1.0	U	1.0	0.16	1	NA	5/26/10 16:17		202273	
trans-1,3-Dichloropropene	1.0	U	1.0	0.060	1	NA	5/26/10 16:17		202273	
Trichloroethene (TCE)	1.0	U	1.0	0.16	1	NA	5/26/10 16:17		202273	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.18	1	NA	5/26/10 16:17		202273	
Vinyl Chloride	1.0	U	1.0	0.14	1	NA	5/26/10 16:17		202273	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	90	80-120	5/26/10 16:17		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/138165
Sample Matrix: Water

Service Request: R1002703
Date Collected: 5/19/10
Date Received: 5/20/10
Date Analyzed: 5/26/10 1617

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

Sample Name: 4D
Lab Code: R1002703-001

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/138165
Sample Matrix: Water

Sample Name: DUPE A
Lab Code: R1002703-002

Service Request: R1002703
Date Collected: 5/19/10
Date Received: 5/20/10

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.14	1	NA	5/26/10 16:54		202273	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.12	1	NA	5/26/10 16:54		202273	
1,1,2-Trichloroethane	1.0	U	1.0	0.11	1	NA	5/26/10 16:54		202273	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.11	1	NA	5/26/10 16:54		202273	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.17	1	NA	5/26/10 16:54		202273	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.18	1	NA	5/26/10 16:54		202273	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.13	1	NA	5/26/10 16:54		202273	
1,2-Dibromo-3-chloropropane (DBCP)	1.0	U	1.0	0.34	1	NA	5/26/10 16:54		202273	
1,2-Dibromoethane	1.0	U	1.0	0.14	1	NA	5/26/10 16:54		202273	
1,2-Dichloroethane	1.0	U	1.0	0.057	1	NA	5/26/10 16:54		202273	
1,2-Dichlorobenzene	1.0	U	1.0	0.089	1	NA	5/26/10 16:54		202273	
1,2-Dichloropropane	1.0	U	1.0	0.15	1	NA	5/26/10 16:54		202273	
1,3-Dichlorobenzene	1.0	U	1.0	0.092	1	NA	5/26/10 16:54		202273	
1,4-Dichlorobenzene	1.0	U	1.0	0.085	1	NA	5/26/10 16:54		202273	
2-Butanone (MEK)	5.0	U	5.0	0.75	1	NA	5/26/10 16:54		202273	
2-Hexanone	5.0	U	5.0	0.51	1	NA	5/26/10 16:54		202273	
4-Methyl-2-pentanone	5.0	U	5.0	0.56	1	NA	5/26/10 16:54		202273	
Acetone	5.0	U UJ	5.0	0.69	1	NA	5/26/10 16:54		202273	
Benzene	1.0	U	1.0	0.098	1	NA	5/26/10 16:54		202273	
Bromochloromethane	1.0	U	1.0	0.18	1	NA	5/26/10 16:54		202273	
Bromodichloromethane	1.0	U	1.0	0.15	1	NA	5/26/10 16:54		202273	
Bromoform	1.0	U	1.0	0.14	1	NA	5/26/10 16:54		202273	
Bromomethane	1.0	U	1.0	0.12	1	NA	5/26/10 16:54		202273	
Carbon Disulfide	1.0	U	1.0	0.16	1	NA	5/26/10 16:54		202273	
Carbon Tetrachloride	**4.8**		1.0	0.12	1	NA	5/26/10 16:54		202273	
Chlorobenzene	1.0	U	1.0	0.14	1	NA	5/26/10 16:54		202273	
Chloroethane	1.0	U	1.0	0.21	1	NA	5/26/10 16:54		202273	
Chloroform	1.0	U	1.0	0.15	1	NA	5/26/10 16:54		202273	
Chloromethane	1.0	U	1.0	0.12	1	NA	5/26/10 16:54		202273	
cis-1,2-Dichloroethene	1.0	U	1.0	0.11	1	NA	5/26/10 16:54		202273	
cis-1,3-Dichloropropene	1.0	U	1.0	0.079	1	NA	5/26/10 16:54		202273	
Dibromochloromethane	1.0	U	1.0	0.13	1	NA	5/26/10 16:54		202273	
Ethylbenzene	1.0	U	1.0	0.13	1	NA	5/26/10 16:54		202273	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/138165
Sample Matrix: Water

Sample Name: DUPE A
Lab Code: R1002703-002

Service Request: R1002703
Date Collected: 5/19/10
Date Received: 5/20/10

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Hexachlorobutadiene	1.0	U	1.0	0.18	1	NA	5/26/10 16:54		202273	
m,p-Xylenes	1.0	U	1.0	0.22	1	NA	5/26/10 16:54		202273	
Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.16	1	NA	5/26/10 16:54		202273	
o-Xylene	1.0	U	1.0	0.11	1	NA	5/26/10 16:54		202273	
Styrene	1.0	U	1.0	0.096	1	NA	5/26/10 16:54		202273	
Tetrachloroethene (PCE)	1.0	U	1.0	0.15	1	NA	5/26/10 16:54		202273	
Toluene	1.0	U	1.0	0.098	1	NA	5/26/10 16:54		202273	
trans-1,2-Dichloroethene	1.0	U	1.0	0.16	1	NA	5/26/10 16:54		202273	
trans-1,3-Dichloropropene	1.0	U	1.0	0.060	1	NA	5/26/10 16:54		202273	
Trichloroethene (TCE)	**10**		1.0	0.16	1	NA	5/26/10 16:54		202273	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.18	1	NA	5/26/10 16:54		202273	
Vinyl Chloride	1.0	U	1.0	0.14	1	NA	5/26/10 16:54		202273	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	91	80-120	5/26/10 16:54		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/138165
Sample Matrix: Water

Service Request: R1002703
Date Collected: 5/19/10
Date Received: 5/20/10
Date Analyzed: 5/26/10 1654

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

Sample Name: DUPE A
Lab Code: R1002703-002

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/138165
Sample Matrix: Water

Sample Name: M-27D
Lab Code: R1002703-003

Service Request: R1002703
Date Collected: 5/19/10 1330
Date Received: 5/20/10

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.14	1	NA	5/26/10 17:31		202273	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.12	1	NA	5/26/10 17:31		202273	
1,1,2-Trichloroethane	1.0	U	1.0	0.11	1	NA	5/26/10 17:31		202273	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.11	1	NA	5/26/10 17:31		202273	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.17	1	NA	5/26/10 17:31		202273	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.18	1	NA	5/26/10 17:31		202273	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.13	1	NA	5/26/10 17:31		202273	
1,2-Dibromo-3-chloropropane (DBCP)	1.0	U	1.0	0.34	1	NA	5/26/10 17:31		202273	
1,2-Dibromoethane	1.0	U	1.0	0.14	1	NA	5/26/10 17:31		202273	
1,2-Dichloroethane	1.0	U	1.0	0.057	1	NA	5/26/10 17:31		202273	
1,2-Dichlorobenzene	1.0	U	1.0	0.089	1	NA	5/26/10 17:31		202273	
1,2-Dichloropropane	1.0	U	1.0	0.15	1	NA	5/26/10 17:31		202273	
1,3-Dichlorobenzene	1.0	U	1.0	0.092	1	NA	5/26/10 17:31		202273	
1,4-Dichlorobenzene	1.0	U	1.0	0.085	1	NA	5/26/10 17:31		202273	
2-Butanone (MEK)	5.0	U	5.0	0.75	1	NA	5/26/10 17:31		202273	
2-Hexanone	5.0	U	5.0	0.51	1	NA	5/26/10 17:31		202273	
4-Methyl-2-pentanone	5.0	U	5.0	0.56	1	NA	5/26/10 17:31		202273	
Acetone	5.0 ~~0.99 BJ~~	UJ	5.0	0.69	1	NA	5/26/10 17:31		202273	
Benzene	1.0	U	1.0	0.098	1	NA	5/26/10 17:31		202273	
Bromochloromethane	1.0	U	1.0	0.18	1	NA	5/26/10 17:31		202273	
Bromodichloromethane	1.0	U	1.0	0.15	1	NA	5/26/10 17:31		202273	
Bromoform	1.0	U	1.0	0.14	1	NA	5/26/10 17:31		202273	
Bromomethane	1.0	U	1.0	0.12	1	NA	5/26/10 17:31		202273	
Carbon Disulfide	1.0	U	1.0	0.16	1	NA	5/26/10 17:31		202273	
Carbon Tetrachloride	**4.2**		1.0	0.12	1	NA	5/26/10 17:31		202273	
Chlorobenzene	1.0	U	1.0	0.14	1	NA	5/26/10 17:31		202273	
Chloroethane	1.0	U	1.0	0.21	1	NA	5/26/10 17:31		202273	
Chloroform	1.0	U	1.0	0.15	1	NA	5/26/10 17:31		202273	
Chloromethane	1.0	U	1.0	0.12	1	NA	5/26/10 17:31		202273	
cis-1,2-Dichloroethene	1.0	U	1.0	0.11	1	NA	5/26/10 17:31		202273	
cis-1,3-Dichloropropene	1.0	U	1.0	0.079	1	NA	5/26/10 17:31		202273	
Dibromochloromethane	1.0	U	1.0	0.13	1	NA	5/26/10 17:31		202273	
Ethylbenzene	1.0	U	1.0	0.13	1	NA	5/26/10 17:31		202273	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/138165
Sample Matrix: Water

Sample Name: M-27D
Lab Code: R1002703-003

Service Request: R1002703
Date Collected: 5/19/10 1330
Date Received: 5/20/10

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Hexachlorobutadiene	1.0	U	1.0	0.18	1	NA	5/26/10 17:31		202273	
m,p-Xylenes	1.0	U	1.0	0.22	1	NA	5/26/10 17:31		202273	
Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.16	1	NA	5/26/10 17:31		202273	
o-Xylene	1.0	U	1.0	0.11	1	NA	5/26/10 17:31		202273	
Styrene	1.0	U	1.0	0.096	1	NA	5/26/10 17:31		202273	
Tetrachloroethene (PCE)	1.0	U	1.0	0.15	1	NA	5/26/10 17:31		202273	
Toluene	1.0	U	1.0	0.098	1	NA	5/26/10 17:31		202273	
trans-1,2-Dichloroethene	1.0	U	1.0	0.16	1	NA	5/26/10 17:31		202273	
trans-1,3-Dichloropropene	1.0	U	1.0	0.060	1	NA	5/26/10 17:31		202273	
Trichloroethene (TCE)	**9.3**		1.0	0.16	1	NA	5/26/10 17:31		202273	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.18	1	NA	5/26/10 17:31		202273	
Vinyl Chloride	1.0	U	1.0	0.14	1	NA	5/26/10 17:31		202273	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	94	80-120	5/26/10 17:31		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/138165
Sample Matrix: Water

Service Request: R1002703
Date Collected: 5/19/10
Date Received: 5/20/10
Date Analyzed: 5/26/10 1731

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

Sample Name: M-27D
Lab Code: R1002703-003

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/19/10 1045
Sample Matrix:	Water	**Date Received:**	5/20/10
Sample Name:	M-24DR	**Units:**	µg/L
Lab Code:	R1002703-005	**Basis:**	NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.14	1	NA	5/27/10 15:44		202478	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.12	1	NA	5/27/10 15:44		202478	
1,1,2-Trichloroethane	1.0	U	1.0	0.11	1	NA	5/27/10 15:44		202478	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.11	1	NA	5/27/10 15:44		202478	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.17	1	NA	5/27/10 15:44		202478	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.18	1	NA	5/27/10 15:44		202478	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.13	1	NA	5/27/10 15:44		202478	
1,2-Dibromo-3-chloropropane (DBCP)	1.0	U	1.0	0.34	1	NA	5/27/10 15:44		202478	
1,2-Dibromoethane	1.0	U	1.0	0.14	1	NA	5/27/10 15:44		202478	
1,2-Dichloroethane	1.0	U	1.0	0.057	1	NA	5/27/10 15:44		202478	
1,2-Dichlorobenzene	1.0	U	1.0	0.089	1	NA	5/27/10 15:44		202478	
1,2-Dichloropropane	1.0	U	1.0	0.15	1	NA	5/27/10 15:44		202478	
1,3-Dichlorobenzene	1.0	U	1.0	0.092	1	NA	5/27/10 15:44		202478	
1,4-Dichlorobenzene	1.0	U	1.0	0.085	1	NA	5/27/10 15:44		202478	
2-Butanone (MEK)	5.0	U	5.0	0.75	1	NA	5/27/10 15:44		202478	
2-Hexanone	5.0	U	5.0	0.51	1	NA	5/27/10 15:44		202478	
4-Methyl-2-pentanone	5.0	U	5.0	0.56	1	NA	5/27/10 15:44		202478	
Acetone	5.0 **1.4** ~~BJ~~ UJ		5.0	0.69	1	NA	5/27/10 15:44		202478	
Benzene	1.0	U	1.0	0.098	1	NA	5/27/10 15:44		202478	
Bromochloromethane	1.0	U	1.0	0.18	1	NA	5/27/10 15:44		202478	
Bromodichloromethane	1.0	U	1.0	0.15	1	NA	5/27/10 15:44		202478	
Bromoform	1.0	U	1.0	0.14	1	NA	5/27/10 15:44		202478	
Bromomethane	1.0	U	1.0	0.12	1	NA	5/27/10 15:44		202478	
Carbon Disulfide	1.0	U	1.0	0.16	1	NA	5/27/10 15:44		202478	
Carbon Tetrachloride	**5.5**		1.0	0.12	1	NA	5/27/10 15:44		202478	
Chlorobenzene	1.0	U	1.0	0.14	1	NA	5/27/10 15:44		202478	
Chloroethane	1.0	U	1.0	0.21	1	NA	5/27/10 15:44		202478	
Chloroform	**0.25**	J	1.0	0.15	1	NA	5/27/10 15:44		202478	
Chloromethane	1.0	U	1.0	0.12	1	NA	5/27/10 15:44		202478	
cis-1,2-Dichloroethene	1.0	U	1.0	0.11	1	NA	5/27/10 15:44		202478	
cis-1,3-Dichloropropene	1.0	U	1.0	0.079	1	NA	5/27/10 15:44		202478	
Dibromochloromethane	1.0	U	1.0	0.13	1	NA	5/27/10 15:44		202478	
Ethylbenzene	1.0	U	1.0	0.13	1	NA	5/27/10 15:44		202478	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/138165
Sample Matrix: Water

Sample Name: M-24DR
Lab Code: R1002703-005

Service Request: R1002703
Date Collected: 5/19/10 1045
Date Received: 5/20/10

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Hexachlorobutadiene	1.0	U	1.0	0.18	1	NA	5/27/10 15:44		202478	
m,p-Xylenes	1.0	U	1.0	0.22	1	NA	5/27/10 15:44		202478	
Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.16	1	NA	5/27/10 15:44		202478	
o-Xylene	1.0	U	1.0	0.11	1	NA	5/27/10 15:44		202478	
Styrene	1.0	U	1.0	0.096	1	NA	5/27/10 15:44		202478	
Tetrachloroethene (PCE)	1.0	U	1.0	0.15	1	NA	5/27/10 15:44		202478	
Toluene	1.0	U	1.0	0.098	1	NA	5/27/10 15:44		202478	
trans-1,2-Dichloroethene	1.0	U	1.0	0.16	1	NA	5/27/10 15:44		202478	
trans-1,3-Dichloropropene	1.0	U	1.0	0.060	1	NA	5/27/10 15:44		202478	
Trichloroethene (TCE)	**18**		1.0	0.16	1	NA	5/27/10 15:44		202478	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.18	1	NA	5/27/10 15:44		202478	
Vinyl Chloride	1.0	U	1.0	0.14	1	NA	5/27/10 15:44		202478	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	90	80-120	5/27/10 15:44		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/138165
Sample Matrix: Water

Service Request: R1002703
Date Collected: 5/19/10
Date Received: 5/20/10
Date Analyzed: 5/27/10 1544

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

Sample Name: M-24DR
Lab Code: R1002703-005

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/138165
Sample Matrix: Water

Sample Name: M-25D
Lab Code: R1002703-006

Service Request: R1002703
Date Collected: 5/19/10 0930
Date Received: 5/20/10

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	5.0	U	5.0	0.71	5	NA	5/26/10 18:43		202273	
1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.60	5	NA	5/26/10 18:43		202273	
1,1,2-Trichloroethane	5.0	U	5.0	0.55	5	NA	5/26/10 18:43		202273	
1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	0.55	5	NA	5/26/10 18:43		202273	
1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.86	5	NA	5/26/10 18:43		202273	
1,2,3-Trichlorobenzene	5.0	U	5.0	0.90	5	NA	5/26/10 18:43		202273	
1,2,4-Trichlorobenzene	5.0	U	5.0	0.65	5	NA	5/26/10 18:43		202273	
1,2-Dibromo-3-chloropropane (DBCP)	5.0	U	5.0	1.8	5	NA	5/26/10 18:43		202273	
1,2-Dibromoethane	5.0	U	5.0	0.71	5	NA	5/26/10 18:43		202273	
1,2-Dichloroethane	5.0	U	5.0	0.29	5	NA	5/26/10 18:43		202273	
1,2-Dichlorobenzene	5.0	U	5.0	0.45	5	NA	5/26/10 18:43		202273	
1,2-Dichloropropane	5.0	U	5.0	0.75	5	NA	5/26/10 18:43		202273	
1,3-Dichlorobenzene	5.0	U	5.0	0.46	5	NA	5/26/10 18:43		202273	
1,4-Dichlorobenzene	5.0	U	5.0	0.43	5	NA	5/26/10 18:43		202273	
2-Butanone (MEK)	25	U	25	3.8	5	NA	5/26/10 18:43		202273	
2-Hexanone	25	U	25	2.6	5	NA	5/26/10 18:43		202273	
4-Methyl-2-pentanone	25	U	25	2.9	5	NA	5/26/10 18:43		202273	
Acetone	25 ~~47 BJ~~ U		25	3.5	5	NA	5/26/10 18:43		202273	
Benzene	5.0	U	5.0	0.49	5	NA	5/26/10 18:43		202273	
Bromochloromethane	5.0	U	5.0	0.90	5	NA	5/26/10 18:43		202273	
Bromodichloromethane	5.0	U	5.0	0.75	5	NA	5/26/10 18:43		202273	
Bromoform	5.0	U	5.0	0.71	5	NA	5/26/10 18:43		202273	
Bromomethane	5.0	U	5.0	0.60	5	NA	5/26/10 18:43		202273	
Carbon Disulfide	5.0	U	5.0	0.80	5	NA	5/26/10 18:43		202273	
Carbon Tetrachloride	**35**		5.0	0.60	5	NA	5/26/10 18:43		202273	
Chlorobenzene	5.0	U	5.0	0.71	5	NA	5/26/10 18:43		202273	
Chloroethane	5.0	U	5.0	1.1	5	NA	5/26/10 18:43		202273	
Chloroform	**3.0**	J	5.0	0.75	5	NA	5/26/10 18:43		202273	
Chloromethane	5.0	U	5.0	0.60	5	NA	5/26/10 18:43		202273	
cis-1,2-Dichloroethene	5.0	U	5.0	0.55	5	NA	5/26/10 18:43		202273	
cis-1,3-Dichloropropene	5.0	U	5.0	0.40	5	NA	5/26/10 18:43		202273	
Dibromochloromethane	5.0	U	5.0	0.65	5	NA	5/26/10 18:43		202273	
Ethylbenzene	5.0	U	5.0	0.65	5	NA	5/26/10 18:43		202273	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/138165
Sample Matrix: Water

Service Request: R1002703
Date Collected: 5/19/10 0930
Date Received: 5/20/10

Sample Name: M-25D
Lab Code: R1002703-006

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Hexachlorobutadiene	5.0	U	5.0	0.90	5	NA	5/26/10 18:43		202273	
m,p-Xylenes	5.0	U	5.0	1.1	5	NA	5/26/10 18:43		202273	
Dichloromethane (Methylene Chloride)	5.0	U	5.0	0.80	5	NA	5/26/10 18:43		202273	
o-Xylene	5.0	U	5.0	0.55	5	NA	5/26/10 18:43		202273	
Styrene	5.0	U	5.0	0.48	5	NA	5/26/10 18:43		202273	
Tetrachloroethene (PCE)	5.0	U	5.0	0.75	5	NA	5/26/10 18:43		202273	
Toluene	5.0	U	5.0	0.49	5	NA	5/26/10 18:43		202273	
trans-1,2-Dichloroethene	5.0	U	5.0	0.80	5	NA	5/26/10 18:43		202273	
trans-1,3-Dichloropropene	5.0	U	5.0	0.30	5	NA	5/26/10 18:43		202273	
Trichloroethene (TCE)	**76**		5.0	0.80	5	NA	5/26/10 18:43		202273	
Trichlorofluoromethane (CFC 11)	5.0	U	5.0	0.90	5	NA	5/26/10 18:43		202273	
Vinyl Chloride	5.0	U	5.0	0.71	5	NA	5/26/10 18:43		202273	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	95	80-120	5/26/10 18:43		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/138165
Sample Matrix: Water

Service Request: R1002703
Date Collected: 5/19/10
Date Received: 5/20/10
Date Analyzed: 5/26/10 1843

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

Sample Name: M-25D
Lab Code: R1002703-006

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/138165
Sample Matrix: Water

Sample Name: M-29
Lab Code: R1002703-007

Service Request: R1002703
Date Collected: 5/19/10 1000
Date Received: 5/20/10

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	**4.2**		2.0	0.28	2	NA	5/26/10 19:33		202273	
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.24	2	NA	5/26/10 19:33		202273	
1,1,2-Trichloroethane	2.0	U	2.0	0.22	2	NA	5/26/10 19:33		202273	
1,1-Dichloroethane (1,1-DCA)	2.0	U	2.0	0.22	2	NA	5/26/10 19:33		202273	
1,1-Dichloroethene (1,1-DCE)	2.0	U	2.0	0.34	2	NA	5/26/10 19:33		202273	
1,2,3-Trichlorobenzene	2.0	U	2.0	0.36	2	NA	5/26/10 19:33		202273	
1,2,4-Trichlorobenzene	2.0	U	2.0	0.26	2	NA	5/26/10 19:33		202273	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	0.68	2	NA	5/26/10 19:33		202273	
1,2-Dibromoethane	2.0	U	2.0	0.28	2	NA	5/26/10 19:33		202273	
1,2-Dichloroethane	2.0	U	2.0	0.12	2	NA	5/26/10 19:33		202273	
1,2-Dichlorobenzene	2.0	U	2.0	0.18	2	NA	5/26/10 19:33		202273	
1,2-Dichloropropane	2.0	U	2.0	0.30	2	NA	5/26/10 19:33		202273	
1,3-Dichlorobenzene	2.0	U	2.0	0.19	2	NA	5/26/10 19:33		202273	
1,4-Dichlorobenzene	2.0	U	2.0	0.17	2	NA	5/26/10 19:33		202273	
2-Butanone (MEK)	10	U	10	1.5	2	NA	5/26/10 19:33		202273	
2-Hexanone	10	U	10	1.1	2	NA	5/26/10 19:33		202273	
4-Methyl-2-pentanone	10	U	10	1.2	2	NA	5/26/10 19:33		202273	
Acetone	10 ~~3.7 BJ~~ U J		10	1.4	2	NA	5/26/10 19:33		202273	
Benzene	2.0	U	2.0	0.20	2	NA	5/26/10 19:33		202273	
Bromochloromethane	2.0	U	2.0	0.36	2	NA	5/26/10 19:33		202273	
Bromodichloromethane	2.0	U	2.0	0.30	2	NA	5/26/10 19:33		202273	
Bromoform	2.0	U	2.0	0.28	2	NA	5/26/10 19:33		202273	
Bromomethane	2.0	U	2.0	0.24	2	NA	5/26/10 19:33		202273	
Carbon Disulfide	2.0	U	2.0	0.32	2	NA	5/26/10 19:33		202273	
Carbon Tetrachloride	**28**		2.0	0.24	2	NA	5/26/10 19:33		202273	
Chlorobenzene	2.0	U	2.0	0.28	2	NA	5/26/10 19:33		202273	
Chloroethane	2.0	U	2.0	0.42	2	NA	5/26/10 19:33		202273	
Chloroform	**2.8**		2.0	0.30	2	NA	5/26/10 19:33		202273	
Chloromethane	2.0	U	2.0	0.24	2	NA	5/26/10 19:33		202273	
cis-1,2-Dichloroethene	2.0	U	2.0	0.22	2	NA	5/26/10 19:33		202273	
cis-1,3-Dichloropropene	2.0	U	2.0	0.16	2	NA	5/26/10 19:33		202273	
Dibromochloromethane	2.0	U	2.0	0.26	2	NA	5/26/10 19:33		202273	
Ethylbenzene	2.0	U	2.0	0.26	2	NA	5/26/10 19:33		202273	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/138165
Sample Matrix: Water

Sample Name: M-29
Lab Code: R1002703-007

Service Request: R1002703
Date Collected: 5/19/10 1000
Date Received: 5/20/10

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Hexachlorobutadiene	2.0	U	2.0	0.36	2	NA	5/26/10 19:33		202273	
m,p-Xylenes	2.0	U	2.0	0.44	2	NA	5/26/10 19:33		202273	
Dichloromethane (Methylene Chloride)	2.0	U	2.0	0.32	2	NA	5/26/10 19:33		202273	
o-Xylene	2.0	U	2.0	0.22	2	NA	5/26/10 19:33		202273	
Styrene	2.0	U	2.0	0.20	2	NA	5/26/10 19:33		202273	
Tetrachloroethene (PCE)	2.0	U	2.0	0.30	2	NA	5/26/10 19:33		202273	
Toluene	2.0	U	2.0	0.20	2	NA	5/26/10 19:33		202273	
trans-1,2-Dichloroethene	2.0	U	2.0	0.32	2	NA	5/26/10 19:33		202273	
trans-1,3-Dichloropropene	2.0	U	2.0	0.12	2	NA	5/26/10 19:33		202273	
Trichloroethene (TCE)	**21**		2.0	0.32	2	NA	5/26/10 19:33		202273	
Trichlorofluoromethane (CFC 11)	2.0	U	2.0	0.36	2	NA	5/26/10 19:33		202273	
Vinyl Chloride	2.0	U	2.0	0.28	2	NA	5/26/10 19:33		202273	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	92	80-120	5/26/10 19:33		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/138165
Sample Matrix: Water

Service Request: R1002703
Date Collected: 5/19/10
Date Received: 5/20/10
Date Analyzed: 5/26/10 1933

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

Sample Name: M-29
Lab Code: R1002703-007

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/19/10
Sample Matrix:	Water	**Date Received:**	5/20/10
Sample Name:	TRIP BLANK	**Units:**	µg/L
Lab Code:	R1002703-008	**Basis:**	NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.14	1	NA	5/26/10 20:10		202273	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.12	1	NA	5/26/10 20:10		202273	
1,1,2-Trichloroethane	1.0	U	1.0	0.11	1	NA	5/26/10 20:10		202273	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.11	1	NA	5/26/10 20:10		202273	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.17	1	NA	5/26/10 20:10		202273	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.18	1	NA	5/26/10 20:10		202273	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.13	1	NA	5/26/10 20:10		202273	
1,2-Dibromo-3-chloropropane (DBCP)	1.0	U	1.0	0.34	1	NA	5/26/10 20:10		202273	
1,2-Dibromoethane	1.0	U	1.0	0.14	1	NA	5/26/10 20:10		202273	
1,2-Dichloroethane	1.0	U	1.0	0.057	1	NA	5/26/10 20:10		202273	
1,2-Dichlorobenzene	1.0	U	1.0	0.089	1	NA	5/26/10 20:10		202273	
1,2-Dichloropropane	1.0	U	1.0	0.15	1	NA	5/26/10 20:10		202273	
1,3-Dichlorobenzene	1.0	U	1.0	0.092	1	NA	5/26/10 20:10		202273	
1,4-Dichlorobenzene	1.0	U	1.0	0.085	1	NA	5/26/10 20:10		202273	
2-Butanone (MEK)	5.0	U	5.0	0.75	1	NA	5/26/10 20:10		202273	
2-Hexanone	5.0	U	5.0	0.51	1	NA	5/26/10 20:10		202273	
4-Methyl-2-pentanone	5.0	U	5.0	0.56	1	NA	5/26/10 20:10		202273	
Acetone	**2.3**	BJ	5.0	0.69	1	NA	5/26/10 20:10		202273	
Benzene	1.0	U	1.0	0.098	1	NA	5/26/10 20:10		202273	
Bromochloromethane	1.0	U	1.0	0.18	1	NA	5/26/10 20:10		202273	
Bromodichloromethane	1.0	U	1.0	0.15	1	NA	5/26/10 20:10		202273	
Bromoform	1.0	U	1.0	0.14	1	NA	5/26/10 20:10		202273	
Bromomethane	1.0	U	1.0	0.12	1	NA	5/26/10 20:10		202273	
Carbon Disulfide	1.0	U	1.0	0.16	1	NA	5/26/10 20:10		202273	
Carbon Tetrachloride	1.0	U	1.0	0.12	1	NA	5/26/10 20:10		202273	
Chlorobenzene	1.0	U	1.0	0.14	1	NA	5/26/10 20:10		202273	
Chloroethane	1.0	U	1.0	0.21	1	NA	5/26/10 20:10		202273	
Chloroform	1.0	U	1.0	0.15	1	NA	5/26/10 20:10		202273	
Chloromethane	1.0	U	1.0	0.12	1	NA	5/26/10 20:10		202273	
cis-1,2-Dichloroethene	1.0	U	1.0	0.11	1	NA	5/26/10 20:10		202273	
cis-1,3-Dichloropropene	1.0	U	1.0	0.079	1	NA	5/26/10 20:10		202273	
Dibromochloromethane	1.0	U	1.0	0.13	1	NA	5/26/10 20:10		202273	
Ethylbenzene	1.0	U	1.0	0.13	1	NA	5/26/10 20:10		202273	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/19/10
Sample Matrix:	Water	**Date Received:**	5/20/10
Sample Name:	TRIP BLANK	**Units:**	µg/L
Lab Code:	R1002703-008	**Basis:**	NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Hexachlorobutadiene	1.0	U	1.0	0.18	1	NA	5/26/10 20:10		202273	
m,p-Xylenes	1.0	U	1.0	0.22	1	NA	5/26/10 20:10		202273	
Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.16	1	NA	5/26/10 20:10		202273	
o-Xylene	1.0	U	1.0	0.11	1	NA	5/26/10 20:10		202273	
Styrene	1.0	U	1.0	0.096	1	NA	5/26/10 20:10		202273	
Tetrachloroethene (PCE)	1.0	U	1.0	0.15	1	NA	5/26/10 20:10		202273	
Toluene	**0.13**	J	1.0	0.098	1	NA	5/26/10 20:10		202273	
trans-1,2-Dichloroethene	1.0	U	1.0	0.16	1	NA	5/26/10 20:10		202273	
trans-1,3-Dichloropropene	1.0	U	1.0	0.060	1	NA	5/26/10 20:10		202273	
Trichloroethene (TCE)	1.0	U	1.0	0.16	1	NA	5/26/10 20:10		202273	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.18	1	NA	5/26/10 20:10		202273	
Vinyl Chloride	1.0	U	1.0	0.14	1	NA	5/26/10 20:10		202273	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	92	80-120	5/26/10 20:10		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/138165
Sample Matrix: Water

Service Request: R1002703
Date Collected: 5/19/10
Date Received: 5/20/10
Date Analyzed: 5/26/10 2010

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

Sample Name: TRIP BLANK
Lab Code: R1002703-008

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/138165
Sample Matrix: Water

Sample Name: COOLER BLANK
Lab Code: R1002703-009

Service Request: R1002703
Date Collected: 5/20/10
Date Received: 5/20/10

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.14	1	NA	5/27/10 18:45		202478	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.12	1	NA	5/27/10 18:45		202478	
1,1,2-Trichloroethane	1.0	U	1.0	0.11	1	NA	5/27/10 18:45		202478	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.11	1	NA	5/27/10 18:45		202478	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.17	1	NA	5/27/10 18:45		202478	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.18	1	NA	5/27/10 18:45		202478	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.13	1	NA	5/27/10 18:45		202478	
1,2-Dibromo-3-chloropropane (DBCP)	1.0	U	1.0	0.34	1	NA	5/27/10 18:45		202478	
1,2-Dibromoethane	1.0	U	1.0	0.14	1	NA	5/27/10 18:45		202478	
1,2-Dichloroethane	1.0	U	1.0	0.057	1	NA	5/27/10 18:45		202478	
1,2-Dichlorobenzene	1.0	U	1.0	0.089	1	NA	5/27/10 18:45		202478	
1,2-Dichloropropane	1.0	U	1.0	0.15	1	NA	5/27/10 18:45		202478	
1,3-Dichlorobenzene	1.0	U	1.0	0.092	1	NA	5/27/10 18:45		202478	
1,4-Dichlorobenzene	1.0	U	1.0	0.085	1	NA	5/27/10 18:45		202478	
2-Butanone (MEK)	5.0	U	5.0	0.75	1	NA	5/27/10 18:45		202478	
2-Hexanone	5.0	U	5.0	0.51	1	NA	5/27/10 18:45		202478	
4-Methyl-2-pentanone	5.0	U	5.0	0.56	1	NA	5/27/10 18:45		202478	
Acetone	5.0	U UJ	5.0	0.69	1	NA	5/27/10 18:45		202478	
Benzene	1.0	U	1.0	0.098	1	NA	5/27/10 18:45		202478	
Bromochloromethane	1.0	U	1.0	0.18	1	NA	5/27/10 18:45		202478	
Bromodichloromethane	1.0	U	1.0	0.15	1	NA	5/27/10 18:45		202478	
Bromoform	1.0	U	1.0	0.14	1	NA	5/27/10 18:45		202478	
Bromomethane	1.0	U	1.0	0.12	1	NA	5/27/10 18:45		202478	
Carbon Disulfide	1.0	U	1.0	0.16	1	NA	5/27/10 18:45		202478	
Carbon Tetrachloride	1.0	U	1.0	0.12	1	NA	5/27/10 18:45		202478	
Chlorobenzene	1.0	U	1.0	0.14	1	NA	5/27/10 18:45		202478	
Chloroethane	1.0	U	1.0	0.21	1	NA	5/27/10 18:45		202478	
Chloroform	1.0	U	1.0	0.15	1	NA	5/27/10 18:45		202478	
Chloromethane	1.0	U	1.0	0.12	1	NA	5/27/10 18:45		202478	
cis-1,2-Dichloroethene	1.0	U	1.0	0.11	1	NA	5/27/10 18:45		202478	
cis-1,3-Dichloropropene	1.0	U	1.0	0.079	1	NA	5/27/10 18:45		202478	
Dibromochloromethane	1.0	U	1.0	0.13	1	NA	5/27/10 18:45		202478	
Ethylbenzene	1.0	U	1.0	0.13	1	NA	5/27/10 18:45		202478	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/20/10
Sample Matrix:	Water	**Date Received:**	5/20/10
Sample Name:	COOLER BLANK	**Units:**	µg/L
Lab Code:	R1002703-009	**Basis:**	NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Hexachlorobutadiene	1.0	U	1.0	0.18	1	NA	5/27/10 18:45		202478	
m,p-Xylenes	1.0	U	1.0	0.22	1	NA	5/27/10 18:45		202478	
Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.16	1	NA	5/27/10 18:45		202478	
o-Xylene	1.0	U	1.0	0.11	1	NA	5/27/10 18:45		202478	
Styrene	1.0	U	1.0	0.096	1	NA	5/27/10 18:45		202478	
Tetrachloroethene (PCE)	1.0	U	1.0	0.15	1	NA	5/27/10 18:45		202478	
Toluene	1.0	U	1.0	0.098	1	NA	5/27/10 18:45		202478	
trans-1,2-Dichloroethene	1.0	U	1.0	0.16	1	NA	5/27/10 18:45		202478	
trans-1,3-Dichloropropene	1.0	U	1.0	0.060	1	NA	5/27/10 18:45		202478	
Trichloroethene (TCE)	1.0	U	1.0	0.16	1	NA	5/27/10 18:45		202478	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.18	1	NA	5/27/10 18:45		202478	
Vinyl Chloride	1.0	U	1.0	0.14	1	NA	5/27/10 18:45		202478	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	96	80-120	5/27/10 18:45		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/20/10
Sample Matrix:	Water	**Date Received:**	5/20/10
		Date Analyzed:	5/27/10 1845

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

Sample Name:	COOLER BLANK	**Units:**	µg/L
Lab Code:	R1002703-009	**Basis:**	NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/138165
Sample Matrix: Water

Sample Name: 14D
Lab Code: R1002703-010

Service Request: R1002703
Date Collected: 5/20/10 0850
Date Received: 5/21/10

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.14	1	NA	5/26/10 20:46		202273	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.12	1	NA	5/26/10 20:46		202273	
1,1,2-Trichloroethane	1.0	U	1.0	0.11	1	NA	5/26/10 20:46		202273	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.11	1	NA	5/26/10 20:46		202273	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.17	1	NA	5/26/10 20:46		202273	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.18	1	NA	5/26/10 20:46		202273	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.13	1	NA	5/26/10 20:46		202273	
1,2-Dibromo-3-chloropropane (DBCP)	1.0	U	1.0	0.34	1	NA	5/26/10 20:46		202273	
1,2-Dibromoethane	1.0	U	1.0	0.14	1	NA	5/26/10 20:46		202273	
1,2-Dichloroethane	1.0	U	1.0	0.057	1	NA	5/26/10 20:46		202273	
1,2-Dichlorobenzene	1.0	U	1.0	0.089	1	NA	5/26/10 20:46		202273	
1,2-Dichloropropane	1.0	U	1.0	0.15	1	NA	5/26/10 20:46		202273	
1,3-Dichlorobenzene	1.0	U	1.0	0.092	1	NA	5/26/10 20:46		202273	
1,4-Dichlorobenzene	1.0	U	1.0	0.085	1	NA	5/26/10 20:46		202273	
2-Butanone (MEK)	5.0	U	5.0	0.75	1	NA	5/26/10 20:46		202273	
2-Hexanone	5.0	U	5.0	0.51	1	NA	5/26/10 20:46		202273	
4-Methyl-2-pentanone	5.0	U	5.0	0.56	1	NA	5/26/10 20:46		202273	
Acetone	5.0	UUJ	5.0	0.69	1	NA	5/26/10 20:46		202273	
Benzene	1.0	U	1.0	0.098	1	NA	5/26/10 20:46		202273	
Bromochloromethane	1.0	U	1.0	0.18	1	NA	5/26/10 20:46		202273	
Bromodichloromethane	1.0	U	1.0	0.15	1	NA	5/26/10 20:46		202273	
Bromoform	1.0	U	1.0	0.14	1	NA	5/26/10 20:46		202273	
Bromomethane	1.0	U	1.0	0.12	1	NA	5/26/10 20:46		202273	
Carbon Disulfide	1.0	U	1.0	0.16	1	NA	5/26/10 20:46		202273	
Carbon Tetrachloride	1.0	U	1.0	0.12	1	NA	5/26/10 20:46		202273	
Chlorobenzene	1.0	U	1.0	0.14	1	NA	5/26/10 20:46		202273	
Chloroethane	1.0	U	1.0	0.21	1	NA	5/26/10 20:46		202273	
Chloroform	1.0	U	1.0	0.15	1	NA	5/26/10 20:46		202273	
Chloromethane	1.0	U	1.0	0.12	1	NA	5/26/10 20:46		202273	
cis-1,2-Dichloroethene	1.0	U	1.0	0.11	1	NA	5/26/10 20:46		202273	
cis-1,3-Dichloropropene	1.0	U	1.0	0.079	1	NA	5/26/10 20:46		202273	
Dibromochloromethane	1.0	U	1.0	0.13	1	NA	5/26/10 20:46		202273	
Ethylbenzene	1.0	U	1.0	0.13	1	NA	5/26/10 20:46		202273	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/138165
Sample Matrix: Water

Sample Name: 14D
Lab Code: R1002703-010

Service Request: R1002703
Date Collected: 5/20/10 0850
Date Received: 5/21/10

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Hexachlorobutadiene	1.0	U	1.0	0.18	1	NA	5/26/10 20:46		202273	
m,p-Xylenes	1.0	U	1.0	0.22	1	NA	5/26/10 20:46		202273	
Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.16	1	NA	5/26/10 20:46		202273	
o-Xylene	1.0	U	1.0	0.11	1	NA	5/26/10 20:46		202273	
Styrene	1.0	U	1.0	0.096	1	NA	5/26/10 20:46		202273	
Tetrachloroethene (PCE)	1.0	U	1.0	0.15	1	NA	5/26/10 20:46		202273	
Toluene	1.0	U	1.0	0.098	1	NA	5/26/10 20:46		202273	
trans-1,2-Dichloroethene	1.0	U	1.0	0.16	1	NA	5/26/10 20:46		202273	
trans-1,3-Dichloropropene	1.0	U	1.0	0.060	1	NA	5/26/10 20:46		202273	
Trichloroethene (TCE)	1.0	U	1.0	0.16	1	NA	5/26/10 20:46		202273	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.18	1	NA	5/26/10 20:46		202273	
Vinyl Chloride	1.0	U	1.0	0.14	1	NA	5/26/10 20:46		202273	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	94	80-120	5/26/10 20:46		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/20/10
Sample Matrix:	Water	**Date Received:**	5/21/10
		Date Analyzed:	5/26/10 2046

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

Sample Name:	14D	**Units:**	µg/L
Lab Code:	R1002703-010	**Basis:**	NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/138165
Sample Matrix: Water

Sample Name: 11D
Lab Code: R1002703-011

Service Request: R1002703
Date Collected: 5/20/10 0920
Date Received: 5/21/10

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.14	1	NA	5/26/10 21:23		202273	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.12	1	NA	5/26/10 21:23		202273	
1,1,2-Trichloroethane	1.0	U	1.0	0.11	1	NA	5/26/10 21:23		202273	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.11	1	NA	5/26/10 21:23		202273	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.17	1	NA	5/26/10 21:23		202273	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.18	1	NA	5/26/10 21:23		202273	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.13	1	NA	5/26/10 21:23		202273	
1,2-Dibromo-3-chloropropane (DBCP)	1.0	U	1.0	0.34	1	NA	5/26/10 21:23		202273	
1,2-Dibromoethane	1.0	U	1.0	0.14	1	NA	5/26/10 21:23		202273	
1,2-Dichloroethane	1.0	U	1.0	0.057	1	NA	5/26/10 21:23		202273	
1,2-Dichlorobenzene	1.0	U	1.0	0.089	1	NA	5/26/10 21:23		202273	
1,2-Dichloropropane	1.0	U	1.0	0.15	1	NA	5/26/10 21:23		202273	
1,3-Dichlorobenzene	1.0	U	1.0	0.092	1	NA	5/26/10 21:23		202273	
1,4-Dichlorobenzene	1.0	U	1.0	0.085	1	NA	5/26/10 21:23		202273	
2-Butanone (MEK)	5.0	U	5.0	0.75	1	NA	5/26/10 21:23		202273	
2-Hexanone	5.0	U	5.0	0.51	1	NA	5/26/10 21:23		202273	
4-Methyl-2-pentanone	5.0	U	5.0	0.56	1	NA	5/26/10 21:23		202273	
Acetone	5.0 ~~0.73 BJ~~	UJ	5.0	0.69	1	NA	5/26/10 21:23		202273	
Benzene	1.0	U	1.0	0.098	1	NA	5/26/10 21:23		202273	
Bromochloromethane	1.0	U	1.0	0.18	1	NA	5/26/10 21:23		202273	
Bromodichloromethane	1.0	U	1.0	0.15	1	NA	5/26/10 21:23		202273	
Bromoform	1.0	U	1.0	0.14	1	NA	5/26/10 21:23		202273	
Bromomethane	1.0	U	1.0	0.12	1	NA	5/26/10 21:23		202273	
Carbon Disulfide	1.0	U	1.0	0.16	1	NA	5/26/10 21:23		202273	
Carbon Tetrachloride	**11**		1.0	0.12	1	NA	5/26/10 21:23		202273	
Chlorobenzene	1.0	U	1.0	0.14	1	NA	5/26/10 21:23		202273	
Chloroethane	1.0	U	1.0	0.21	1	NA	5/26/10 21:23		202273	
Chloroform	**1.3**		1.0	0.15	1	NA	5/26/10 21:23		202273	
Chloromethane	1.0	U	1.0	0.12	1	NA	5/26/10 21:23		202273	
cis-1,2-Dichloroethene	1.0	U	1.0	0.11	1	NA	5/26/10 21:23		202273	
cis-1,3-Dichloropropene	1.0	U	1.0	0.079	1	NA	5/26/10 21:23		202273	
Dibromochloromethane	1.0	U	1.0	0.13	1	NA	5/26/10 21:23		202273	
Ethylbenzene	1.0	U	1.0	0.13	1	NA	5/26/10 21:23		202273	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/138165
Sample Matrix: Water

Sample Name: 11D
Lab Code: R1002703-011

Service Request: R1002703
Date Collected: 5/20/10 0920
Date Received: 5/21/10

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Hexachlorobutadiene	1.0	U	1.0	0.18	1	NA	5/26/10 21:23		202273	
m,p-Xylenes	1.0	U	1.0	0.22	1	NA	5/26/10 21:23		202273	
Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.16	1	NA	5/26/10 21:23		202273	
o-Xylene	1.0	U	1.0	0.11	1	NA	5/26/10 21:23		202273	
Styrene	1.0	U	1.0	0.096	1	NA	5/26/10 21:23		202273	
Tetrachloroethene (PCE)	1.0	U	1.0	0.15	1	NA	5/26/10 21:23		202273	
Toluene	1.0	U	1.0	0.098	1	NA	5/26/10 21:23		202273	
trans-1,2-Dichloroethene	1.0	U	1.0	0.16	1	NA	5/26/10 21:23		202273	
trans-1,3-Dichloropropene	1.0	U	1.0	0.060	1	NA	5/26/10 21:23		202273	
Trichloroethene (TCE)	**1.5**		1.0	0.16	1	NA	5/26/10 21:23		202273	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.18	1	NA	5/26/10 21:23		202273	
Vinyl Chloride	1.0	U	1.0	0.14	1	NA	5/26/10 21:23		202273	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	91	80-120	5/26/10 21:23		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/20/10
Sample Matrix:	Water	**Date Received:**	5/21/10
		Date Analyzed:	5/26/10 2123

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

Sample Name:	11D	**Units:**	µg/L
Lab Code:	R1002703-011	**Basis:**	NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/138165
Sample Matrix: Water

Sample Name: DGC-4S
Lab Code: R1002703-012

Service Request: R1002703
Date Collected: 5/20/10 1010
Date Received: 5/21/10

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.14	1	NA	5/26/10 21:59		202273	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.12	1	NA	5/26/10 21:59		202273	
1,1,2-Trichloroethane	1.0	U	1.0	0.11	1	NA	5/26/10 21:59		202273	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.11	1	NA	5/26/10 21:59		202273	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.17	1	NA	5/26/10 21:59		202273	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.18	1	NA	5/26/10 21:59		202273	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.13	1	NA	5/26/10 21:59		202273	
1,2-Dibromo-3-chloropropane (DBCP)	1.0	U	1.0	0.34	1	NA	5/26/10 21:59		202273	
1,2-Dibromoethane	1.0	U	1.0	0.14	1	NA	5/26/10 21:59		202273	
1,2-Dichloroethane	1.0	U	1.0	0.057	1	NA	5/26/10 21:59		202273	
1,2-Dichlorobenzene	1.0	U	1.0	0.089	1	NA	5/26/10 21:59		202273	
1,2-Dichloropropane	1.0	U	1.0	0.15	1	NA	5/26/10 21:59		202273	
1,3-Dichlorobenzene	1.0	U	1.0	0.092	1	NA	5/26/10 21:59		202273	
1,4-Dichlorobenzene	1.0	U	1.0	0.085	1	NA	5/26/10 21:59		202273	
2-Butanone (MEK)	5.0	U	5.0	0.75	1	NA	5/26/10 21:59		202273	
2-Hexanone	5.0	U	5.0	0.51	1	NA	5/26/10 21:59		202273	
4-Methyl-2-pentanone	5.0	U	5.0	0.56	1	NA	5/26/10 21:59		202273	
Acetone	5.0 ~~0.94 BJ~~	UJ	5.0	0.69	1	NA	5/26/10 21:59		202273	
Benzene	1.0	U	1.0	0.098	1	NA	5/26/10 21:59		202273	
Bromochloromethane	1.0	U	1.0	0.18	1	NA	5/26/10 21:59		202273	
Bromodichloromethane	1.0	U	1.0	0.15	1	NA	5/26/10 21:59		202273	
Bromoform	1.0	U	1.0	0.14	1	NA	5/26/10 21:59		202273	
Bromomethane	1.0	U	1.0	0.12	1	NA	5/26/10 21:59		202273	
Carbon Disulfide	1.0	U	1.0	0.16	1	NA	5/26/10 21:59		202273	
Carbon Tetrachloride	1.0	U	1.0	0.12	1	NA	5/26/10 21:59		202273	
Chlorobenzene	1.0	U	1.0	0.14	1	NA	5/26/10 21:59		202273	
Chloroethane	1.0	U	1.0	0.21	1	NA	5/26/10 21:59		202273	
Chloroform	1.0	U	1.0	0.15	1	NA	5/26/10 21:59		202273	
Chloromethane	1.0	U	1.0	0.12	1	NA	5/26/10 21:59		202273	
cis-1,2-Dichloroethene	1.0	U	1.0	0.11	1	NA	5/26/10 21:59		202273	
cis-1,3-Dichloropropene	1.0	U	1.0	0.079	1	NA	5/26/10 21:59		202273	
Dibromochloromethane	1.0	U	1.0	0.13	1	NA	5/26/10 21:59		202273	
Ethylbenzene	1.0	U	1.0	0.13	1	NA	5/26/10 21:59		202273	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/138165
Sample Matrix: Water

Sample Name: DGC-4S
Lab Code: R1002703-012

Service Request: R1002703
Date Collected: 5/20/10 1010
Date Received: 5/21/10

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Hexachlorobutadiene	1.0	U	1.0	0.18	1	NA	5/26/10 21:59		202273	
m,p-Xylenes	1.0	U	1.0	0.22	1	NA	5/26/10 21:59		202273	
Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.16	1	NA	5/26/10 21:59		202273	
o-Xylene	1.0	U	1.0	0.11	1	NA	5/26/10 21:59		202273	
Styrene	1.0	U	1.0	0.096	1	NA	5/26/10 21:59		202273	
Tetrachloroethene (PCE)	1.0	U	1.0	0.15	1	NA	5/26/10 21:59		202273	
Toluene	1.0	U	1.0	0.098	1	NA	5/26/10 21:59		202273	
trans-1,2-Dichloroethene	1.0	U	1.0	0.16	1	NA	5/26/10 21:59		202273	
trans-1,3-Dichloropropene	1.0	U	1.0	0.060	1	NA	5/26/10 21:59		202273	
Trichloroethene (TCE)	1.0	U	1.0	0.16	1	NA	5/26/10 21:59		202273	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.18	1	NA	5/26/10 21:59		202273	
Vinyl Chloride	1.0	U	1.0	0.14	1	NA	5/26/10 21:59		202273	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	92	80-120	5/26/10 21:59		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/138165
Sample Matrix: Water

Service Request: R1002703
Date Collected: 5/20/10
Date Received: 5/21/10
Date Analyzed: 5/26/10 2159

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

Sample Name: DGC-4S
Lab Code: R1002703-012

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/138165
Sample Matrix: Water

Sample Name: DGC-3S
Lab Code: R1002703-013

Service Request: R1002703
Date Collected: 5/20/10 1045
Date Received: 5/21/10

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.14	1	NA	5/26/10 22:36		202273	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.12	1	NA	5/26/10 22:36		202273	
1,1,2-Trichloroethane	1.0	U	1.0	0.11	1	NA	5/26/10 22:36		202273	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.11	1	NA	5/26/10 22:36		202273	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.17	1	NA	5/26/10 22:36		202273	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.18	1	NA	5/26/10 22:36		202273	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.13	1	NA	5/26/10 22:36		202273	
1,2-Dibromo-3-chloropropane (DBCP)	1.0	U	1.0	0.34	1	NA	5/26/10 22:36		202273	
1,2-Dibromoethane	1.0	U	1.0	0.14	1	NA	5/26/10 22:36		202273	
1,2-Dichloroethane	1.0	U	1.0	0.057	1	NA	5/26/10 22:36		202273	
1,2-Dichlorobenzene	1.0	U	1.0	0.089	1	NA	5/26/10 22:36		202273	
1,2-Dichloropropane	1.0	U	1.0	0.15	1	NA	5/26/10 22:36		202273	
1,3-Dichlorobenzene	1.0	U	1.0	0.092	1	NA	5/26/10 22:36		202273	
1,4-Dichlorobenzene	1.0	U	1.0	0.085	1	NA	5/26/10 22:36		202273	
2-Butanone (MEK)	5.0	U	5.0	0.75	1	NA	5/26/10 22:36		202273	
2-Hexanone	5.0	U	5.0	0.51	1	NA	5/26/10 22:36		202273	
4-Methyl-2-pentanone	5.0	U	5.0	0.56	1	NA	5/26/10 22:36		202273	
Acetone	5.0	~~1.5 BJ~~ UJ	5.0	0.69	1	NA	5/26/10 22:36		202273	
Benzene	1.0	U	1.0	0.098	1	NA	5/26/10 22:36		202273	
Bromochloromethane	1.0	U	1.0	0.18	1	NA	5/26/10 22:36		202273	
Bromodichloromethane	1.0	U	1.0	0.15	1	NA	5/26/10 22:36		202273	
Bromoform	1.0	U	1.0	0.14	1	NA	5/26/10 22:36		202273	
Bromomethane	1.0	U	1.0	0.12	1	NA	5/26/10 22:36		202273	
Carbon Disulfide	1.0	U	1.0	0.16	1	NA	5/26/10 22:36		202273	
Carbon Tetrachloride	1.0	U	1.0	0.12	1	NA	5/26/10 22:36		202273	
Chlorobenzene	1.0	U	1.0	0.14	1	NA	5/26/10 22:36		202273	
Chloroethane	1.0	U	1.0	0.21	1	NA	5/26/10 22:36		202273	
Chloroform	1.0	U	1.0	0.15	1	NA	5/26/10 22:36		202273	
Chloromethane	1.0	U	1.0	0.12	1	NA	5/26/10 22:36		202273	
cis-1,2-Dichloroethene	1.0	U	1.0	0.11	1	NA	5/26/10 22:36		202273	
cis-1,3-Dichloropropene	1.0	U	1.0	0.079	1	NA	5/26/10 22:36		202273	
Dibromochloromethane	1.0	U	1.0	0.13	1	NA	5/26/10 22:36		202273	
Ethylbenzene	1.0	U	1.0	0.13	1	NA	5/26/10 22:36		202273	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/138165
Sample Matrix: Water

Sample Name: DGC-3S
Lab Code: R1002703-013

Service Request: R1002703
Date Collected: 5/20/10 1045
Date Received: 5/21/10

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Hexachlorobutadiene	1.0	U	1.0	0.18	1	NA	5/26/10 22:36		202273	
m,p-Xylenes	1.0	U	1.0	0.22	1	NA	5/26/10 22:36		202273	
Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.16	1	NA	5/26/10 22:36		202273	
o-Xylene	1.0	U	1.0	0.11	1	NA	5/26/10 22:36		202273	
Styrene	1.0	U	1.0	0.096	1	NA	5/26/10 22:36		202273	
Tetrachloroethene (PCE)	1.0	U	1.0	0.15	1	NA	5/26/10 22:36		202273	
Toluene	1.0	U	1.0	0.098	1	NA	5/26/10 22:36		202273	
trans-1,2-Dichloroethene	1.0	U	1.0	0.16	1	NA	5/26/10 22:36		202273	
trans-1,3-Dichloropropene	1.0	U	1.0	0.060	1	NA	5/26/10 22:36		202273	
Trichloroethene (TCE)	1.0	U	1.0	0.16	1	NA	5/26/10 22:36		202273	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.18	1	NA	5/26/10 22:36		202273	
Vinyl Chloride	1.0	U	1.0	0.14	1	NA	5/26/10 22:36		202273	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	91	80-120	5/26/10 22:36		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/138165
Sample Matrix: Water

Service Request: R1002703
Date Collected: 5/20/10
Date Received: 5/21/10
Date Analyzed: 5/26/10 2236

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

Sample Name: DGC-3S
Lab Code: R1002703-013

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/138165
Sample Matrix: Water

Sample Name: Trip Blank
Lab Code: R1002703-014

Service Request: R1002703
Date Collected: 5/20/10
Date Received: 5/21/10

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.14	1	NA	5/26/10 23:12		202273	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.12	1	NA	5/26/10 23:12		202273	
1,1,2-Trichloroethane	1.0	U	1.0	0.11	1	NA	5/26/10 23:12		202273	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.11	1	NA	5/26/10 23:12		202273	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.17	1	NA	5/26/10 23:12		202273	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.18	1	NA	5/26/10 23:12		202273	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.13	1	NA	5/26/10 23:12		202273	
1,2-Dibromo-3-chloropropane (DBCP)	1.0	U	1.0	0.34	1	NA	5/26/10 23:12		202273	
1,2-Dibromoethane	1.0	U	1.0	0.14	1	NA	5/26/10 23:12		202273	
1,2-Dichloroethane	1.0	U	1.0	0.057	1	NA	5/26/10 23:12		202273	
1,2-Dichlorobenzene	1.0	U	1.0	0.089	1	NA	5/26/10 23:12		202273	
1,2-Dichloropropane	1.0	U	1.0	0.15	1	NA	5/26/10 23:12		202273	
1,3-Dichlorobenzene	1.0	U	1.0	0.092	1	NA	5/26/10 23:12		202273	
1,4-Dichlorobenzene	1.0	U	1.0	0.085	1	NA	5/26/10 23:12		202273	
2-Butanone (MEK)	5.0	U	5.0	0.75	1	NA	5/26/10 23:12		202273	
2-Hexanone	5.0	U	5.0	0.51	1	NA	5/26/10 23:12		202273	
4-Methyl-2-pentanone	5.0	U	5.0	0.56	1	NA	5/26/10 23:12		202273	
Acetone	**1.4**	BJ J	5.0	0.69	1	NA	5/26/10 23:12		202273	
Benzene	1.0	U	1.0	0.098	1	NA	5/26/10 23:12		202273	
Bromochloromethane	1.0	U	1.0	0.18	1	NA	5/26/10 23:12		202273	
Bromodichloromethane	1.0	U	1.0	0.15	1	NA	5/26/10 23:12		202273	
Bromoform	1.0	U	1.0	0.14	1	NA	5/26/10 23:12		202273	
Bromomethane	1.0	U	1.0	0.12	1	NA	5/26/10 23:12		202273	
Carbon Disulfide	1.0	U	1.0	0.16	1	NA	5/26/10 23:12		202273	
Carbon Tetrachloride	1.0	U	1.0	0.12	1	NA	5/26/10 23:12		202273	
Chlorobenzene	1.0	U	1.0	0.14	1	NA	5/26/10 23:12		202273	
Chloroethane	1.0	U	1.0	0.21	1	NA	5/26/10 23:12		202273	
Chloroform	1.0	U	1.0	0.15	1	NA	5/26/10 23:12		202273	
Chloromethane	1.0	U	1.0	0.12	1	NA	5/26/10 23:12		202273	
cis-1,2-Dichloroethene	1.0	U	1.0	0.11	1	NA	5/26/10 23:12		202273	
cis-1,3-Dichloropropene	1.0	U	1.0	0.079	1	NA	5/26/10 23:12		202273	
Dibromochloromethane	1.0	U	1.0	0.13	1	NA	5/26/10 23:12		202273	
Ethylbenzene	1.0	U	1.0	0.13	1	NA	5/26/10 23:12		202273	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/138165
Sample Matrix: Water

Sample Name: Trip Blank
Lab Code: R1002703-014

Service Request: R1002703
Date Collected: 5/20/10
Date Received: 5/21/10

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Hexachlorobutadiene	1.0	U	1.0	0.18	1	NA	5/26/10 23:12		202273	
m,p-Xylenes	1.0	U	1.0	0.22	1	NA	5/26/10 23:12		202273	
Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.16	1	NA	5/26/10 23:12		202273	
o-Xylene	1.0	U	1.0	0.11	1	NA	5/26/10 23:12		202273	
Styrene	1.0	U	1.0	0.096	1	NA	5/26/10 23:12		202273	
Tetrachloroethene (PCE)	1.0	U	1.0	0.15	1	NA	5/26/10 23:12		202273	
Toluene	1.0	U	1.0	0.098	1	NA	5/26/10 23:12		202273	
trans-1,2-Dichloroethene	1.0	U	1.0	0.16	1	NA	5/26/10 23:12		202273	
trans-1,3-Dichloropropene	1.0	U	1.0	0.060	1	NA	5/26/10 23:12		202273	
Trichloroethene (TCE)	1.0	U	1.0	0.16	1	NA	5/26/10 23:12		202273	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.18	1	NA	5/26/10 23:12		202273	
Vinyl Chloride	1.0	U	1.0	0.14	1	NA	5/26/10 23:12		202273	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	88	80-120	5/26/10 23:12		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/138165
Sample Matrix: Water

Service Request: R1002703
Date Collected: 5/20/10
Date Received: 5/21/10
Date Analyzed: 5/26/10 2312

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

Sample Name: Trip Blank
Lab Code: R1002703-014

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Columbia Analytical Services

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

13D

Contract: R1002703

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 4D

Matrix (soil/water): WATER Lab Sample ID: R1002703-004

Level (low/med): LOW Date Received: 5/20/2010

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

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	3.4	J		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

Columbia Analytical Services

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

DUPE A

Contract: R1002703

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 4D

Matrix (soil/water): WATER Lab Sample ID: R1002703-002

Level (low/med): LOW Date Received: 5/20/2010

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

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	0.861	J		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

Columbia Analytical Services

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: M-27D

Contract: R1002703

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 4D

Matrix (soil/water): WATER Lab Sample ID: R1002703-003

Level (low/med): LOW Date Received: 5/20/2010

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

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	1.1	J		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/19/10
Sample Matrix:	Water	**Date Received:**	5/20/10
Sample Name:	DUPE A		
Lab Code:	R1002703-002	**Basis:**	NA

Chromium, Hexavalent (Colorimetric)

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed
Chromium, Hexavalent	7196A	0.010	U	mg/L	0.010	1	NA	5/20/10 10:41

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/19/10 1330
Sample Matrix:	Water	**Date Received:**	5/20/10
Sample Name:	M-27D		
Lab Code:	R1002703-003	**Basis:**	NA

Chromium, Hexavalent (Colorimetric)

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed
Chromium, Hexavalent	7196A	0.010	U	mg/L	0.010	1	NA	5/20/10 10:41

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R1002703
Project:	GE MRFA/138165	**Date Collected:**	5/19/10 1215
Sample Matrix:	Water	**Date Received:**	5/20/10
Sample Name:	13D		
Lab Code:	R1002703-004	**Basis:**	NA

Chromium, Hexavalent (Colorimetric)

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed
Chromium, Hexavalent	7196A	0.010	U	mg/L	0.010	1	NA	5/20/10 10:41

Comments: