GZA
GeoEnvironmental, Inc.

Engineers and Scientists

August 13, 2009
File No. 32795.29

Mr. Gary Jablonski
Rhode Island Department of Environmental Management
Office of Waste Management
235 Promenade Street
Providence, Rhode Island 02908

Re: Sixth Quarterly (April-June of 2009) Interim Compliance Monitoring Report
Charbert, Division of NFA
Richmond, Rhode Island
RIDEM Case # 99-037

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Dear Mr. Jablonski:

This letter with attachments serves as the sixth quarterly Interim Compliance Monitoring Report. The work was conducted in compliance with the December 18, 2007 Order of Approval and the October 15, 2007 *Remedial Action Work Plan (RAWP)* that was prepared to address the applicable requirements of Section 9.00 of the RIDEM's Rules and Regulations for the Investigation and Remediation of Hazardous Materials Releases, (DEM-DSR01-93 Remediation Regulations) for the Charbert facility located at 299 Church Street in Richmond (Alton), Rhode Island. It was prepared by GZA GeoEnvironmental, Inc., on behalf of our client Charbert, Division of NFA.

DATA SUMMARY

This report includes the following information and is subject to the Limitations presented in Attachment A:

- The sixth round of groundwater sampling was conducted July 8 and 9, 2009 and consisted of 12 monitoring wells within areas of active treatment and along the downgradient compliance boundaries, see attached Figure 1 for monitoring well locations. Groundwater was analyzed for volatile organic compounds (VOCs) via EPA Method 8260B. The detected analytes have been summarized and compared to RIDEM's Method 1 GA Groundwater Objectives and Groundwater Quality Preventative Action Limits (PALs) in the attached Tables 1 through 13. The laboratory certificates of analysis are provided in Attachment B.

- Groundwater sampling was performed in general accordance with EPA's July 30, 1996 *Low Stress (low flow) Purging and Sampling Procedure* (Low Flow SOP). Low flow sampling equipment (exclusive of tubing which is dedicated) was decontaminated prior to use on-site and between each location following EPA's recommended protocols. Water quality monitoring for stabilization was conducted utilizing a Horiba multi-meter in a flow through cell. Field equipment used to perform the testing was calibrated according to the manufacturer's instructions before each sampling day, and confirmatory readings were taken at the end of each sampling day.

- The air sparge and soil vapor extraction monthly monitoring reports and associated data tables for April, May and June of 2009 are included as Attachment C. Soil vapor extraction and sparge wells for the interior and exterior remedial systems are shown on Figures 2 and 3, respectively. The monthly reports include the following information:

  Soil Vapor Extraction System

  During each visit, the following data was measured and recorded at each of the vent wells:

  1. Air flow rates;
  2. Vacuum response in inches of water column (IW);
  3. TVOC measurements using a PID equipped with a 10.6 eV lamp; and
  4. O_2, CO_2 and Lower Explosive Limit (LEL) measurements were collected utilizing a Land-Tech infrared gas meter.

  Air Sparge System

  During each visit, the following data was measured and recorded at each of the sparge points:

  1. Air flow rates; and
  2. Air pressures.

- The second quarter (April-June) 2009 underground injection control (UIC) report has been attached for your information. The report contains a summary of industrial wastewater pumping activities and the sampling results of the six UIC monitoring wells. The complete report has been included as Attachment D.

- The sixth round of groundwater sampling from the five upgradient perimeter wells, conducted at the request of RIDEM, was conducted July 8 and 9, 2009. These five wells are generally located between the Charbert facility and nearby private wells. The report contains the results of the monitoring well sampling for this the fifth quarter. The complete report has been included as Attachment E.

EVALUATION

Sixth Quarter ICMP Monitoring Results

The July 8 and July 9, 2009 groundwater results have been compared to the applicable groundwater standards for Rhode Island and there are contaminants that exceed the RIDEM GA Groundwater Objectives or RIDEM Preventative Action Limits (PALs) for VOCs in 10 of the 12 monitoring wells. In certain wells, vinyl chloride, cis-1,2-dichloroethene,

trichloroethene (TCE) and tetrachloroethene (PCE) exceeded the GA Groundwater Objectives established for each contaminant. In other wells, vinyl chloride and PCE exceeded the PALs. Only monitoring well RIZ-5 had no detectable levels of VOCs.

The RIDEM GA Groundwater Objective for vinyl chloride is 2 µg/L. The samples from RIZ-7, GP-28, GP-20, GP-26, GZ-7, and GZ-3 had levels of 130, 440, 71, 81, 2.2 and 19 µg/L, respectively. Vinyl chloride was detected at 1.0 µg/L, the Preventative Action Limit (PAL), at GZ-21. The GA Groundwater Objective for cis-1,2-dichloroethene is 70 µg/L and the samples from RIZ-7, GP-28, GZ-20, GP-26, GZ-7, and GZ-3 had levels of 160, 560, 830, 910, 100, and 180 µg/L, respectively. Trichloroethene has a GA Groundwater Objective of 5 µg/L. The samples from monitoring well locations GZ-23, GZ-28, GZ-20, GP-26, GZ-7, and GZ-3 had TCE levels of 21, 23, 690, 310, 42, and 180 µg/L, respectively. Tetrachloroethene has a GA Groundwater Objective of 5 µg/L. The samples from monitoring well locations GZ-22, GZ-23, GZ-19, GP-28, GZ-20, GP-26, GZ-7 and GZ-3 had PCE levels of 35, 17, 1,300, 15, 1,200, 330, 18, and 560 µg/L, respectively. Tetrachloroethene was detected at 4.1 µg/L, which exceeds the PAL of 2.5 µg/L, in the sample from well GZ-21.

The detected levels of each of these compounds are within historical ranges of analytical data collected from the Site. A comparison of baseline results with the sixth quarter results shows that there have been changes in the distribution of contaminant concentrations within the identified zone of contamination. There are also changes in the ratio of parent to daughter products (i.e., PCE concentrations relative to TCE, 1,2-DCE and VC). The observed changes are not unexpected given the level of disturbance to the aquifer introduced by the sparging system. The decrease in chlorinated daughter products is also consistent with a decrease in the level of reductive dechlorination caused by the oxygen introduced by the sparging system.

A previously non-detected constituent, tetrahydrofuran (THF), was observed in the sample from RIZ-13. RIZ-13, due to its proximity to the exterior air sparge system, operates under pressure. As a result, RIZ-13 has been modified with a locking cap to prevent accidental opening of the well while the air sparge system is in operation. In order to secure the riser, a small quantity of adhesive was used to join the plastic pipe components, above the water table. Many plumbing adhesives contain THF solvents. Thus, we believe that the THF detect may be attributed to the use of the plumbing adhesive.

The quarterly monitoring program will be continued for 2 more quarters through December 2009. At that time, an evaluation will be made of the future sampling frequency potentially moving to semi-annual corresponding to periods of seasonal high and low groundwater (e.g., March and September). Seasonal groundwater levels will be evaluated prior to choosing a time (date) in which these samples will be collected.

We trust that this information fulfills your present needs. If you have any questions please call Angela Harvey, Stephen Andrus, or Edward Summerly at (401) 421-4140.

Very truly yours,

GZA GEOENVIRONMENTAL, INC.

Angela L. Harvey, E.I.T.
Project Engineer

for Albert Flori
Project Reviewer

Edward A. Summerly, P.G.
Principal

ALH/EAS:mac

CC: Tracy Nelson Hay, Richmond Town Clerk
Clark Memorial Library – Charbert Repository

Attachments: Tables - Tables 1 through 13 - Detected Constituents Summary
Figure 1: Monitoring Well Locations
Figure 2: Interior AS-SVE Monitoring System
Figure 3: Exterior AS-SVE Monitoring System
Appendix A – Limitations
Appendix B – Laboratory Certificates of Analysis
Appendix C – Monthly AS/SVE System Monitoring Data
Appendix D – Second Quarter 2009 UIC Report
Appendix E – Sixth Quarterly Perimeter Well Monitoring Results

TABLES

TABLE 1
GZ-21
DETECTED CONSTITUENTS SUMMARY

Second Quarter ICMP
Charbert Facility
Richmond, Rhode Island

GZ-21 Shallow Aquifer Monitoring Well Screen From 10'-20' BGS		RIDEM GA Groundwater Objectives	RIDEM Groundwater Quality PALs	Units	Date													
					Baseline 1/2/2008		04/01/2008		07/07/2008		10/01/2008		01/05/2009		04/01/2009		07/09/2009	
					Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit
EPA 8260	**VOLATILE ORGANICS**																	
	Vinyl Chloride	2	1	ug/L	<	1.0	**8.4**	1.0	**2.8**	1.0	**3.4**	1.0	**2.3**	1.0	<	1.0	**1.0**	1.0
	cis-1,2-Dichloroethene	70	35	ug/L	**7.8**	1.0	**10.0**	1.0	**7.7**	1.0	**4.7**	1.0	**1.7**	1.0	<	1.0	<	1.0
	Trichloroethene	5	2.5	ug/L	**3.5**	1.0	**1.7**	1.0	**2.3**	1.0	**2.7**	1.0	**1.7**	1.0	**1.4**	1.0	**1.4**	1.0
	Tetrachloroethene	5	2.5	ug/L	**7.2**	1.0	**2.4**	1.0	**7.6**	1.0	**6.1**	1.0	**6.2**	1.0	**7.1**	1.0	**4.1**	1.0
Mod. EPA 8100	**TOTAL PETROLEUM HYDROCARBON**																	
	Hydrocarbon Content	NS	NS	ug/L	<	200	NT		NT		NT		<	200	NT		NT	
	FIELD PARAMETERS																	
	pH	NS	NS	SU	4.0		5.0		5.7		6.2		5.4		6.4		7.0	
	CONDUCTIVITY	NS	NS	mS/cm	0.337		0.660		0.480		0.378		0.788		0.369		0.406	
	TURBIDITY	NS	NS	NTU	5		3		80		12		4		4		108	
	DISSOLVED OXYGEN	NS	NS	mg/L	1.0		0.0		1.4		0.6		0.45		6.51		0.0	
	TEMPERATURE	NS	NS	°C	16.4		14.4		14.8		17.9		13.2		9.8		13.0	
	ORP	NS	NS	mV	191		-58		-64		34		67		-64		-33	

Notes:
PAL = RIDEMs Preventative Action Limit
RIDEM GA EXCEEDANCES ARE IN BOLD AND HIGHLIGHTED GREEN
PALs EXCEEDANCES ARE IN BOLD AND HIGHLIGHTED BLUE
< = NO DETECTS
NS = NO STANDARD
NT = NOT TESTED
BGS = BELOW GROUND SURFACE

TABLE 2
GZ-22
DETECTED CONSTITUENTS SUMMARY

Quarterly ICMP
Charbert Facility
Richmond, Rhode Island

GZ-22 Deep Aquifer Monitoring Well Screen From 25'-30' BGS		RIDEM GA Groundwater Objectives	RIDEM Groundwater Quality PALs	Units	Date													
					Baseline 1/2/2008		04/01/2008		07/07/2008		10/01/2008		01/05/2009		04/01/2009		07/08/2009	
					Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit
EPA 8260	**VOLATILE ORGANICS**																	
	Vinyl Chloride	2	1	ug/L	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	cis-1,2-Dichloroethene	70	35	ug/L	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	Trichloroethene	5	2.5	ug/L	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	Tetrachloroethene	5	2.5	ug/L	**14**	1.0	**12**	1.0	**86**	1.0	<	1.0	**28**	1.0	**17**	1.0	**35**	1.0
	FIELD PARAMETERS																	
	pH	NS	NS	SU	4.0		5.0		5.1		6.1		6.4		6.3		6.2	
	CONDUCTIVITY	NS	NS	mS/cm	0.330		0.218		0.173		0.146		0.128		0.127		0.137	
	TURBIDITY	NS	NS	NTU	5		5		25		31		126		141		NT	
	DISSOLVED OXYGEN	NS	NS	mg/L	1.0		0.0		1.5		0.5		0.2		0.1		0.0	
	TEMPERATURE	NS	NS	°C	15.8		15.1		15.9		16.6		11.7		11.0		14.0	
	ORP	NS	NS	mV	198		91		32		154		81		12		76	

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TABLE 3
GZ-23
DETECTED CONSTITUENTS SUMMARY

Quarterly ICMP
Charbert Facility
Richmond, Rhode Island

GZ-23 Shallow Aquifer Monitoring Well Screen From 10'-20' BGS		RIDEM GA Groundwater Objectives	RIDEM Groundwater Quality PALs	Units	Date													
					Baseline 1/2/2008		04/01/2008		07/07/2008		10/01/2008		01/05/2009		04/01/2009		07/08/2009	
					Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit
EPA 8260	**VOLATILE ORGANICS**																	
	Vinyl Chloride	2	1	ug/L	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	cis-1,2-Dichloroethene	70	35	ug/L	<	1.0	<	1.0	**6.5**	1.0	**<**	1.0	**<**	1.0	**3**	1.0	**3.4**	1.0
	Trichloroethene	5	2.5	ug/L	<	1.0	**1.8**	1.0	**27**	1.0	**1.8**	1.0	**1.4**	1.0	**14**	1.0	**21**	1.0
	Tetrachloroethene	5	2.5	ug/L	<	1.0	**2.4**	1.0	**59**	1.0	**1.7**	1.0	**2**	1.0	**24**	1.0	**17**	1.0
Mod. EPA 8100	**TOTAL PETROLEUM HYDROCARBON**																	
	Hydrocarbon Content	NS	NS	ug/L	<	200	NT		NT		NT		<	200	NT		NT	
	FIELD PARAMETERS																	
	pH	NS	NS	SU	4.0		5.0		5.7		6.5		6.5		6.3		6.7	
	CONDUCTIVITY	NS	NS	mS/cm	0.339		0.428		0.254		0.109		0.129		0.481		0.335	
	TURBIDITY	NS	NS	NTU	157		0		224		12.2		4		2		59	
	DISSOLVED OXYGEN	NS	NS	mg/L	0.0		0.0		0.3		0.1		0.1		0.0		0.0	
	TEMPERATURE	NS	NS	°C	16.6		16.1		15.4		14.6		11.6		11.8		13.7	
	ORP	NS	NS	mV	-8		-60		-78		-106		25		-77		-39	

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TABLE 4
GZ-19
DETECTED CONSTITUENTS SUMMARY

Quarterly ICMP
Charbert Facility
Richmond, Rhode Island

GZ-19 Deep Aquifer Monitoring Well Screen From 25'-30' BGS		RIDEM GA Groundwater Objectives	RIDEM Groundwater Quality PALs	Units	Date													
					Baseline 1/2/2008		04/01/2008		07/07/2008		10/01/2008		01/05/2009		04/01/2009		07/08/2009	
					Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit
EPA 8260	**VOLATILE ORGANICS**																	
	cis-1,2-Dichloroethene	70	35	ug/L	**4.6**	1.0	<	250	**4.2**	1.0	<	250	<	250	<	3	<	10
	1,1,1-Trichloroethane	200	100	ug/L	**13**	1.0	<	250	**9.0**	1.0	<	250	<	250	<	3	<	10
	Trichloroethene	5	2.5	ug/L	**260**	1.0	**390**	250	**200**	1.0	<	250	<	250	<	3	<	10
	Tetrachloroethene	5	2.5	ug/L	**16,000**	1.0	**20,000**	250	**19,000**	1.0	**16,000**	250	**8,400**	250	**2,900**	3	**1,300**	10
	FIELD PARAMETERS																	
	pH	NS	NS	SU	4.0		5.0		5.0		6.1		6.4		6.2		6.3	
	CONDUCTIVITY	NS	NS	mS/cm	0.338		0.453		0.106		0.085		0.114		0.211		0.130	
	TURBIDITY	NS	NS	NTU	68		1		240		31.7		4		3		27.4	
	DISSOLVED OXYGEN	NS	NS	mg/L	0.0		0.0		0.3		0.1		0.2		0.8		0.0	
	TEMPERATURE	NS	NS	°C	16.5		15.6		15.6		14		12.4		11.6		14.1	
	ORP	NS	NS	mV	24		79		105		113		51		58		89	

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For the July 2008 sampling round GZ-19 and RIZ-7 data were inadvertentlyswitched. The error was corrected and they appear as they should in these tables

TABLE 5
RIZ-7
DETECTED CONSTITUENTS SUMMARY

Quarterly ICMP
Charbert Facility
Richmond, Rhode Island

RIZ-7		RIDEM GA	RIDEM Groundwater	Units	Date													
Shallow Aquifer Monitoring Well		Groundwater	Quality		Baseline 1/2/2008		04/01/2008		07/07/2008		10/01/2008		01/05/2009		04/01/2009		07/08/2009	
Screen From 5'-15' BGS		Objectives	PALs		Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit
EPA 8260	**VOLATILE ORGANICS**																	
	Vinyl Chloride	2	1	ug/L	**15**	1.0	**120**	1.0	**85**	2.5	**100**	1.0	**130**	1.0	**150**	1.0	**130**	2.5
	trans-1,2-Dichloroethene	100	50	ug/L	<	1.0	**2.6**	1.0	**3.1**	2.5	**3**	1.0	**3.6**	1.0	**5.6**	1.0	**5.4**	2.5
	cis-1,2-Dichloroethene	70	35	ug/L	**2.5**	1.0	**64**	1.0	**41**	2.5	**54**	1.0	**100**	1.0	**190**	1.0	**160**	2.5
	Trichloroethene	5	2.5	ug/L	<	1.0	<	1.0	<	2.5	<	1.0	<	1.0	<	0.0	<	2.5
	Tetrachloroethene	5	2.5	ug/L	<	1.0	<	1.0	**7**	2.5	<	1.0	<	1.0	<	1.0	<	2.5
	Ethylbenzene	700	350	ug/L	<	1.0	**2.7**	1.0	**2.8**	2.5	<	1.0	<	1.0	<	1.0	<	2.5
	m&p-Xylene	NS	NS	ug/L	<	2.0	**2.9**	2.0	<	5.0	<	2.0	<	2.0	<	2.0	<	5.0
	o-Xylene	NS	NS	ug/L	**1.7**	1.0	**2.6**	1.0	**3.2**	2.5	**1.6**	1.0	**1.3**	1.0	<	1.0	<	2.5
	Total Xylenes	1000	500	ug/L	**1.7**	2.0	**5.7**	2.0	**3.2**	5.0	**1.6**	2.0	<	2.0	<	2.0	<	5.0
	2-Chlorotoluene	NS	NS	ug/L	**1.0**	1.0	**1.2**	1.0	<	2.5	**3.2**	1.0	**3**	1.0	**2.8**	1.0	**3.6**	2.5
	N-Propylbenzene	NS	NS	ug/L	<	1.0	<	1.0	**1.0**	2.5	<	1.0	<	1.0	<	1.0	<	2.5
	sec-Butylbenzene	NS	NS	ug/L	<	1.0	<	1.0	**1.0**	2.5	<	1.0	<	1.0	<	1.0	<	2.5
Mod. EPA 8100	**TOTAL PETROLEUM HYDROCARBON**																	
	Hydrocarbon Content	NS	NS	ug/L	**300**	200	NT		NT		NT		**570**	200	NT		NT	
	FIELD PARAMETERS																	
	pH	NS	NS	SU	4.0		5.0		6.1		6.4		6.7		6.4		7.6	
	CONDUCTIVITY	NS	NS	mS/cm	0.786		0.748		0.357		0.249		0.316		0.090		0.474	
	TURBIDITY	NS	NS	NTU	5		0		153		20		0		3		4	
	DISSOLVED OXYGEN	NS	NS	mg/L	0.0		0.0		0.2		0.0		0.1		0.0		0.0	
	TEMPERATURE	NS	NS	°C	16.5		14.4		15.8		15.8		13.1		10.7		13.6	
	ORP	NS	NS	mV	-23		-53		-112		-117		5		-92		-46	

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For the July 2008 sampling round GZ-19 and RIZ-7 data were inadvertentlyswitched. The error was corrected and they appear as they should in these tables

TABLE 6
GP-28
DETECTED CONSTITUENTS SUMMARY

Quarterly ICMP
Charbert Facility
Richmond, Rhode Island

GP-28 Shallow Aquifer Monitoring Well Screen From 3'-15' BGS		RIDEM GA Groundwater Objectives	RIDEM Groundwater Quality PALs	Units	Date													
					Baseline 1/2/2008		04/01/2008		07/07/2008		10/01/2008		01/05/2009		04/01/2009		07/08/2009	
					Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit
EPA 8260	**VOLATILE ORGANICS**																	
	Vinyl Chloride	2	1	ug/L	**1,200**	5.0	**180**	2.5	<	1.0	**10**	1.0	**140**	1.0	**52**	50.0	**440**	5.0
	cis-1,2-Dichloroethene	70	35	ug/L	**1,400**	5.0	**200**	2.5	**6.2**	1.0	**2.9**	1.0	**940**	1.0	**2,900**	50.0	**560**	5.0
	Trichloroethene	5	2.5	ug/L	<	5.0	<	2.5	<	1.0	<	1.0	**350**	1.0	<	50.0	**23**	5.0
	Tetrachloroethene	5	2.5	ug/L	<	5.0	<	2.5	<	1.0	<	1.0	**2,900**	1.0	<	50.0	**15**	5.0
	trans-1,2-Dichloroethene	100	50	ug/L	**11**	5.0	<	2.5	<	1.0	<	1.0	**<**	25.0	<	50.0	**7**	5.0
	Ethylbenzene	700	350	ug/L	<	5.0	<	2.5	**1.2**	1.0		1.0	<	1.0	<	50.0	<	5.0
	o-Xylene	NS	NS	ug/L	<	5.0	<	2.5	**1.8**	1.0	**1.9**	1.0	<	1.0	<	50.0	<	5.0
	Total Xylenes	1000	500	ug/L	<	10	<	5.0	**1.8**	2.0	**<**	2.0	<	2.0	<	50.0	<	10.0
	2-Chlorotoluene	NS	NS	ug/L	<	5.0	<	2.5	**1.3**	1.0	**1.0**	1.0	<	1.0	<	50.0	<	5.0
Mod. EPA 8100	**TOTAL PETROLEUM HYDROCARBON**																	
	Hydrocarbon Content	NS	NS	ug/L	**350**	200	NT		NT		NT		**290**	200	**NT**		**NT**	
	FIELD PARAMETERS																	
	pH	NS	NS	SU	4.0		5.0		5.5		6.5		6.9		6.8		7.2	
	CONDUCTIVITY	NS	NS	mS/cm	0.900		0.492		0.700		0.410		0.135		0.191		0.230	
	TURBIDITY	NS	NS	NTU	5		30		270		116		420		399		11	
	DISSOLVED OXYGEN	NS	NS	mg/L	0.0		0.0		0.6		0.1		0.32		0		0.71	
	TEMPERATURE	NS	NS	°C	12.0		11.1		17.6		16.8		5.9		7.9		19.6	
	ORP	NS	NS	mV	-47		-71		-112		-144		8		-117		-96	

Notes:
PAL = RIDEMs Preventative Action Limit
RIDEM GA EXCEEDANCES ARE IN BOLD AND HIGHLIGHTED GREEN
PALs EXCEEDANCES ARE IN BOLD AND HIGHLIGHTED BLUE
ND = NO DETECTS
NS = NO STANDARD
NT = NOT TESTED
BGS = BELOW GROUND SURFACE

TABLE 7
RIZ-5
DETECTED CONSTITUENTS SUMMARY

Quarterly ICMP
Charbert Facility
Richmond, Rhode Island

RIZ-5 Shallow Aquifer Monitoring Well Screen From 9.5'-19.5' BGS		RIDEM GA Groundwater Objectives	RIDEM Groundwater Quality PALs	Units	Date													
					Baseline 1/2/2008		04/01/2008		07/07/2008		10/01/2008		01/05/2009		04/01/2009		07/08/2009	
					Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit
EPA 8260	**VOLATILE ORGANICS**																	
	Vinyl Chloride	2	1	ug/L	<	1.0	<	1.0	<	2.5	<	1.0	<	1.0	<	1.0	<	1.0
	cis-1,2-Dichloroethene	70	35	ug/L	**2.9**	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	Trichloroethene	5	2.5	ug/L	**2.4**	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	Tetrachloroethene	5	2.5	ug/L	**5.3**	1.0	<	1.0	<	1.0	<	1.0	**1.9**	1.0	<	1.0	<	1.0
Mod. EPA 8100	**TOTAL PETROLEUM HYDROCARBON**																	
	Hydrocarbon Content	NS	NS	ug/L	<	200	NT		NT		NT		<	200	NT		NT	
	FIELD PARAMETERS																	
	pH	NS	NS	SU	4.0		5.0		5.6		6.0		6.6		7.0		6.3	
	CONDUCTIVITY	NS	NS	mS/cm	0.465		0.919		0.181		0.226		0.353		0.221		0.165	
	TURBIDITY	NS	NS	NTU	64		110		713		325		1		5		3	
	DISSOLVED OXYGEN	NS	NS	mg/L	0.0		7.0		7.4		8.59		3.55		12.51		10.3	
	TEMPERATURE	NS	NS	°C	14.7		13.5		14.2		14.5		11.4		11.5		12.9	
	ORP	NS	NS	mV	26		135		140		154		143		42		119	

Notes:
PAL = RIDEMs Preventative Action Limit
RIDEM GA EXCEEDANCES ARE IN BOLD AND HIGHLIGHTED GREEN
PALs EXCEEDANCES ARE IN BOLD AND HIGHLIGHTED BLUE
ND = NO DETECTS
NS = NO STANDARD
NT = NOT TESTED
BGS = BELOW GROUND SURFACE

TABLE 8
GZ-20
DETECTED CONSTITUENTS SUMMARY

Quarterly ICMP
Charbert Facility
Richmond, Rhode Island

GZ-20 Deep Aquifer Monitoring Well Screen From 25'-30' BGS		RIDEM GA Groundwater Objectives	RIDEM Groundwater Quality PALs	Units	Date													
					Baseline 1/2/2008		04/01/2008		07/07/2008		10/01/2008		01/05/2009		04/01/2009		07/08/2009	
					Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit
EPA 8260	**VOLATILE ORGANICS**																	
	Vinyl Chloride	2	1	ug/L	**1.2**	1.0	**1.3**	1.0	<	5.0	<	5.0	**35**	5.0	**48**	10.0	**71**	10.0
	cis-1,2-Dichloroethene	70	35	ug/L	**52**	1.0	**64**	1.0	**120**	5.0	**230**	5.0	**500**	5.0	**600**	10.0	**830**	10.0
	Trichloroethene	5	2.5	ug/L	**52**	1.0	**60**	1.0	**99**	5.0	**180**	5.0	**400**	5.0	**520**	10.0	**690**	10.0
	Tetrachloroethene	5	2.5	ug/L	**89**	1.0	**130**	1.0	**230**	5.0	**430**	5.0	**880**	5.0	**110**	10.0	**1200**	10.0
	FIELD PARAMETERS																	
	pH	NS	NS	SU	4.0		5.0		5.4		6.1		6.4		6.4		6.4	
	CONDUCTIVITY	NS	NS	mS/cm	0.346		0.220		0.124		0.139		0.132		0.148		0.163	
	TURBIDITY	NS	NS	NTU	280		165		585		118		42		185		52	
	DISSOLVED OXYGEN	NS	NS	mg/L	0.0		0.0		0.6		0.1		0.23		1.0		0.0	
	TEMPERATURE	NS	NS	°C	15.3		14.6		15.0		14.4		12.0		11.9		14.5	
	ORP	NS	NS	mV	8		-38		66		73		86		40		86	

Notes:
PAL = RIDEMs Preventative Action Limit
RIDEM GA EXCEEDANCES ARE IN BOLD AND HIGHLIGHTED GREEN
PALs EXCEEDANCES ARE IN BOLD AND HIGHLIGHTED BLUE
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TABLE 9
RIZ-1
DETECTED CONSTITUENTS SUMMARY

Quarterly ICMP
Charbert Facility
Richmond, Rhode Island

RIZ-1 Shallow Aquifer Monitoring Well Screen From 5'-15' BGS		RIDEM GA Groundwater Objectives	RIDEM Groundwater Quality PALs	Units	Date													
					Baseline 1/2/2008		04/01/2008		07/07/2008		10/01/2008		01/06/2009		04/01/2009		07/09/2009	
					Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit
EPA 8260	**VOLATILE ORGANICS**																	
	Vinyl Chloride	2	1	ug/L	<	1.0	NT		<	1.0	NT		<	1.0	<	1.0	<	1.0
	cis-1,2-Dichloroethene	70	35	ug/L	<	1.0	NT		<	1.0	NT		<	1.0	<	1.0	<	1.0
	Trichloroethene	5	2.5	ug/L	<	1.0	NT		<	1.0	NT		<	1.0	<	1.0	<	1.0
	Tetrachloroethene	5	2.5	ug/L	<	1.0	NT		<	1.0	NT		<	1.0	<	1.0	<	1.0
Mod. EPA 8100	**TOTAL PETROLEUM HYDROCARBON**																	
	Hydrocarbon Content	NS	NS	ug/L	<	200	NT		NT		NT		<	200	NT		NT	
	FIELD PARAMETERS																	
	pH	NS	NS	SU	4.0		NT		NT		5.42		5.5		5.8		5.3	
	CONDUCTIVITY	NS	NS	mS/cm	0.912		NT		NT		0.199		0.342		0.79		0.962	
	TURBIDITY	NS	NS	NTU	5		NT		NT		1		3		5		3.4	
	DISSOLVED OXYGEN	NS	NS	mg/L	4.0		NT		NT		3		5.6		7.3		7.1	
	TEMPERATURE	NS	NS	°C	13.5		NT		NT		19.2		11.3		9.2		16.1	
	ORP	NS	NS	mV	256		NT		NT		248		222		115		222	

Notes:
PAL = RIDEMs Preventative Action Limit
RIDEM GA EXCEEDANCES ARE IN BOLD AND HIGHLIGHTED GREEN
PALs EXCEEDANCES ARE IN BOLD AND HIGHLIGHTED BLUE
ND = NO DETECTS
NS = NO STANDARD
NT = NOT TESTED
BGS = BELOW GROUND SURFACE

TABLE 10
GP-26
DETECTED CONSTITUENTS SUMMARY

Quarterly ICMP
Charbert Facility
Richmond, Rhode Island

GP-26 Shallow Aquifer Monitoring Well Screen From 4'-16' BGS		RIDEM GA Groundwater Objectives	RIDEM Groundwater Quality PALs	Units	Date													
					Baseline 1/2/2008		04/01/2008		07/07/2008		10/01/2008		01/05/2009		04/01/2009		07/08/2009	
					Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit
EPA 8260	**VOLATILE ORGANICS**																	
	Vinyl Chloride	2	1	ug/L	**530**	25	**100**	1.0	**100**	5.0	**16**	10	**96**	10	**9**	2.5	**81**	10.0
	1,1-Dichloroethene	7	3.5	ug/L	<	25	**1.1**	1.0	<	5.0	<	10	<	10	<	2.5	<	10.0
	trans-1,2-Dichloroethene	100	50	ug/L	**70**	25	**20**	1.0	<	5.0	**19**	10	<	10	<	2.5	<	10.0
	cis-1,2-Dichloroethene	70	35	ug/L	**6,800**	25	**2,100**	1.0	**160**	5.0	**2,300**	100	**1,200**	100	**110**	2.5	**910**	10.0
	Trichloroethene	5	2.5	ug/L	**1,200**	25	**2,500**	1.0	**82**	5.0	**2,300**	100	**1,600**	100	**120**	2.5	**310**	10.0
	Tetrachloroethene	5	2.5	ug/L	**1,800**	25	**4,100**	1.0	**330**	5.0	**2,900**	100	**2,100**	100	**210**	2.5	**330**	10.0
Mod. EPA 8100	**TOTAL PETROLEUM HYDROCARBON**																	
	Hydrocarbon Content	NS	NS	ug/L	**800**	200	NT		NT		NT		**450**	200	NT		NT	
	FIELD PARAMETERS																	
	pH	NS	NS	SU	4.0		6.0		5.3		6.5		6.8		6.6		7.0	
	CONDUCTIVITY	NS	NS	mS/cm	3.00		3.49		0.462		0.341		0.490		0.267		0.449	
	TURBIDITY	NS	NS	NTU	5		1		51		31		5		35		19	
	DISSOLVED OXYGEN	NS	NS	mg/L	0.0		0.0		0.3		0.3		0.3		0		0	
	TEMPERATURE	NS	NS	°C	13.9		12.5		14.6		17.7		10.4		10.6		15.4	
	ORP	NS	NS	mV	31		61		-40		-8		89		10		-24	

Notes:
PAL = RIDEMs Preventative Action Limit
RIDEM GA EXCEEDANCES ARE IN BOLD AND HIGHLIGHTED GREEN
PALs EXCEEDANCES ARE IN BOLD AND HIGHLIGHTED BLUE
ND = NO DETECTS
NS = NO STANDARD
NT = NOT TESTED
BGS = BELOW GROUND SURFACE

TABLE 11
GZ-7
DETECTED CONSTITUENTS SUMMARY

Quarterly ICMP
Charbert Facility
Richmond, Rhode Island

GZ-7 Deep Aquifer Monitoring Well Screen From 33'-43' BGS		RIDEM GA Groundwater Objectives	RIDEM Groundwater Quality PALs	Units	Date													
					Baseline 1/2/2008		04/01/2008		07/07/2008		10/01/2008		01/05/2009		04/01/2009		07/08/2009	
					Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit
EPA 8260	**VOLATILE ORGANICS**																	
	Vinyl Chloride	2	1	ug/L	<	1.0	<	1.0	**1.3**	1.0	<	1.0	<	1.0	<	1.0	**2.2**	1.0
	cis-1,2-Dichloroethene	70	35	ug/L	<	1.0	**13**	1.0	**140**	1.0	**33**	1.0	**4.2**	1.0	**72**	1.0	**100**	1.0
	Trichloroethene	5	2.5	ug/L	<	1.0	**74**	1.0	**140**	1.0	**37**	1.0	<	1.0	**97**	1.0	**42**	1.0
	Tetrachloroethene	5	2.5	ug/L	<	1.0	**26**	1.0	**15**	1.0	**7.1**	1.0	<	1.0	**30**	1.0	**18**	1.0
	FIELD PARAMETERS																	
	pH	NS	NS	SU	4.0		5.0		5.5		6.34		7.2		6.6		7.72	
	CONDUCTIVITY	NS	NS	mS/cm	0.223		0.359		0.226		0.106		0.168		0.185		0.175	
	TURBIDITY	NS	NS	NTU	5		5		17		0.3		4		1.4		2	
	DISSOLVED OXYGEN	NS	NS	mg/L	0.0		0.0		1.0		0.4		0.3		0.0		0.0	
	TEMPERATURE	NS	NS	°C	14.5		14.3		13.9		13.9		12.2		12.6		13.5	
	ORP	NS	NS	mV	-8		-55		-80		-48		-18		-74		-98	

Notes:
PAL = RIDEMs Preventative Action Limit
RIDEM GA EXCEEDANCES ARE IN BOLD AND HIGHLIGHTED GREEN
PALs EXCEEDANCES ARE IN BOLD AND HIGHLIGHTED BLUE
ND = NO DETECTS
NS = NO STANDARD
NT = NOT TESTED
BGS = BELOW GROUND SURFACE

TABLE 12
GZ-3
DETECTED CONSTITUENTS SUMMARY

Second Quarter ICMP
Charbert Facility
Richmond, Rhode Island

GZ-3 Deep Aquifer Monitoring Well Screen From 30'-40' BGS		RIDEM GA Groundwater Objectives	RIDEM Groundwater Quality PALs	Units	Date													
					Baseline 1/2/2008		04/01/2008		07/07/2008		10/01/2008		01/06/2009		04/01/2009		07/08/2009	
					Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit
EPA 8260	**VOLATILE ORGANICS**																	
	Vinyl Chloride	2	1	ug/L	<	1.0	<	1.0	**3.1**	1.0	<	10	**8.1**	10	**16**	5	**19**	5
	cis-1,2-Dichloroethene	70	35	ug/L	**9.3**	1.0	**16**	1.0	**65**	1.0	**86**	10	**110**	10	**180**	5	**180**	5
	Trichloroethene	5	2.5	ug/L	**10**	1.0	**17**	1.0	**91**	1.0	**93**	10	**81**	10	**150**	5	**180**	5
	Tetrachloroethene	5	2.5	ug/L	**12**	1.0	**22**	1.0	**440**	1.0	**180**	10	**160**	10	**450**	5	**560**	5
	FIELD PARAMETERS																	
	pH	NS	NS	SU	4.0		5.0		5.1		6.5		6.2		6.4		7.4	
	CONDUCTIVITY	NS	NS	mS/cm	0.339		0.392		0.206		0.114		0.415		0.419		0.171	
	TURBIDITY	NS	NS	NTU	5		5		34		7		5		4		19	
	DISSOLVED OXYGEN	NS	NS	mg/L	0.0		0.0		0.7		0.28		0.25		0		0	
	TEMPERATURE	NS	NS	°C	15.4		15.4		14.8		14.6		12.4		12.2		13.1	
	ORP	NS	NS	mV	-15		8		-22		-41		49		-25		-41	

Notes:
PAL = RIDEMs Preventative Action Limit
RIDEM GA EXCEEDANCES ARE IN BOLD AND HIGHLIGHTED GREEN
PALs EXCEEDANCES ARE IN BOLD AND HIGHLIGHTED BLUE
ND = NO DETECTS
NS = NO STANDARD
NT = NOT TESTED
BGS = BELOW GROUND SURFACE

TABLE 13
RIZ-13
DETECTED CONSTITUENTS SUMMARY

Quarterly ICMP
Charbert Facility
Richmond, Rhode Island

RIZ-13 Shallow Aquifer Monitoring Well Screen From 14'-24' BGS		RIDEM GA Groundwater Objectives	RIDEM Groundwater Quality PALs	Units	Date													
					Baseline 1/2/2008		04/01/2008		07/07/2008		10/01/2008		01/06/2009		04/01/2009		07/09/2009	
					Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit
EPA 8260	**VOLATILE ORGANICS**																	
	Vinyl Chloride	2	1	ug/L	**4.4**	1.0	<	1.0	<	1.0	<	1.0	**1.1**	1.0	<	1.0	<	1.0
	Tetrahydrofuran	NS	NS	ug/L	<	10.0	<	10.0	<	10.0	<	10.0	**<**	10.0	<	10.0	**17**	10.0
	cis-1,2-Dichloroethene	70	35	ug/L	**6.6**	1.0	<	1.0	<	1.0	<	1.0	**3.8**	1.0	<	1.0	<	1.0
	Trichloroethene	5	2.5	ug/L	**5.6**	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	Tetrachloroethene	5	2.5	ug/L	**6.9**	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
Mod. EPA 8100	**TOTAL PETROLEUM HYDROCARBON**																	
	Hydrocarbon Content	NS	NS	ug/L	<	200	NT		NT		NT		**1,100**	200	NT		NT	
	FIELD PARAMETERS																	
	pH	NS	NS	SU	5.0		6.0		4.8		6.83		5.8		5.6		4.5	
	CONDUCTIVITY	NS	NS	mS/cm	0.392		0.900		0.773		0.361		0.875		0.571		0.562	
	TURBIDITY	NS	NS	NTU	3		5		208		54.8		4		88		22.2	
	DISSOLVED OXYGEN	NS	NS	mg/L	1.0		10.0		12.0		7.7		5.7		10.1		8.9	
	TEMPERATURE	NS	NS	°C	14.8		14.8		15.6		16.2		12.4		9.8		13.3	
	ORP	NS	NS	mV	28		56		34		-9		176		109		290	

Notes:
PAL = RIDEMs Preventative Action Limit
RIDEM GA EXCEEDANCES ARE IN BOLD AND HIGHLIGHTED GREEN
PALs EXCEEDANCES ARE IN BOLD AND HIGHLIGHTED BLUE
ND = NO DETECTS
NS = NO STANDARD
NT = NOT TESTED
BGS = BELOW GROUND SURFACE

FIGURES

GENERAL NOTES

1 BASE MAP DEVELOPED FROM ELECTRONIC CAD FILES PROVIDED BY AEROTECH INTERNATIONAL DIGITAL PHOTOGRAMMETRIC MAPPING DATED 12-01-04, DATE FLOWN MARCH 26, 1999. THE TOPOGRAPHY OF THE LAGOONS, THE 1998, 2001 AND 2004 SOIL STOCK PILES WERE UPDATED BY INSTRUMENT SURVEY CONDUCTED BY GZA PERSONNEL IN SEPTEMBER 2004 THROUGH FEBRUARY 2005.

2 THE LOCATIONS AND ELEVATIONS OF MONITORING WELLS AND EXPLORATIONS WERE APPROXIMATELY DETERMINED BY SURVEY. THIS DATA SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.

WOOD RIVER
GP-28
RIZ-5
GZ-20
WATER TOWER
GZ-19
RIZ-7
INDUSTRIAL WASTE PUMP HOUSE
GZ-23
GZ-21
GZ-22
OIL BUNKER
DRUM STORAGE AREA
FORMER (LAGOON 5)
RIZ-6
GZ-ML-3
RIZ-13
GZ-3
GZ-7
GP-26
GP-25
RIZ-3
EXTERIOR SVE/AS AREA
CHARBERT MILL BUILDING
GZ-6
CB-9
EW-4
PT-5
PT-4
EW-3
PT-1
EW-2
EW-1
RIZ-21
GP-22
GP-27B
GP-27A
GZ-8
INTERIOR SVE/AS AREA
WETLANDS BOUNDARY
RIVER EDGE
PT-2
GZ-1
RIZ-1
RIVER STREET
#18
#16
#14
#12
#10
GZ-ML-2
CHARBERT EMPLOYEE PARKING LOT
PSFM
JIC-MW6
SFM
IWW

REV. NO.	DESCRIPTION	BY	DATE

PROJ MGR: SMA
DESIGNED BY: SMA
REVIEWED BY: EAS
OPERATOR: DL
DATE: AUG., 2008

1 INCH = 80 FEET
0 40 80 160

GZA
GeoEnvironmental, Inc.
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(401) 421-4140
(401) 751-8613

CHARBERT FACILITY
ALTON, RHODE ISLAND

INTERIM COMPLIANCE MONITORING REPORT
MONITORING WELL LOCATIONS

JOB NO.
32795.29

FIGURE NO.
1

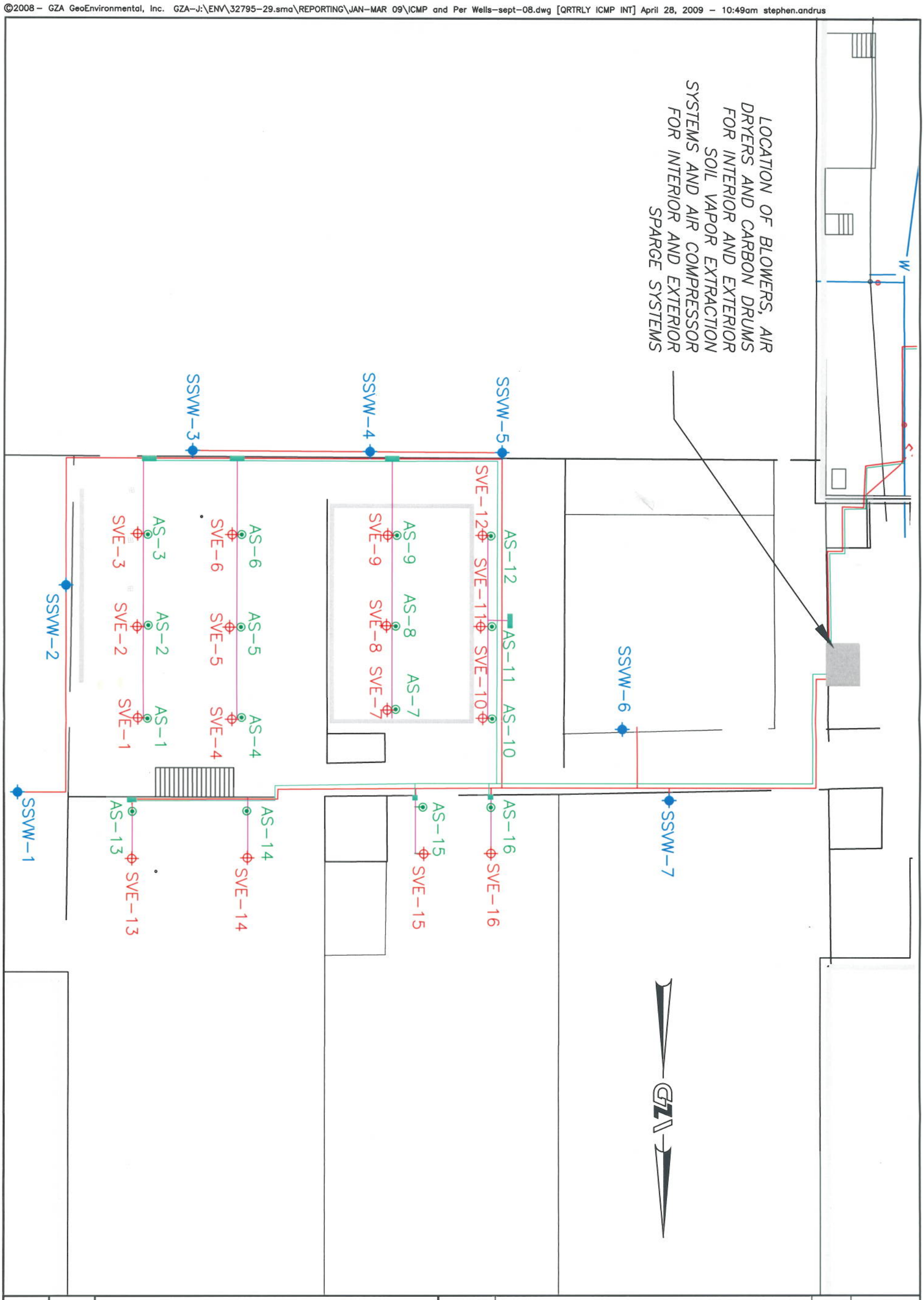

FIGURE NO. 2

JOB NO. 32795.29

CHARBERT FACILITY
ALTON, RHODE ISLAND

INTERIM COMPLIANCE MONITORING REPORT
INTERIOR AS–SVE SYSTEM

REV. NO.	DESCRIPTION	BY	DATE

1 INCH = 20 FEET

0 10 20 40

PROJ MGR: SMA
DESIGNED BY: SMA
REVIEWED BY: EAS

OPERATOR: DL
DATE: AUG., 2008

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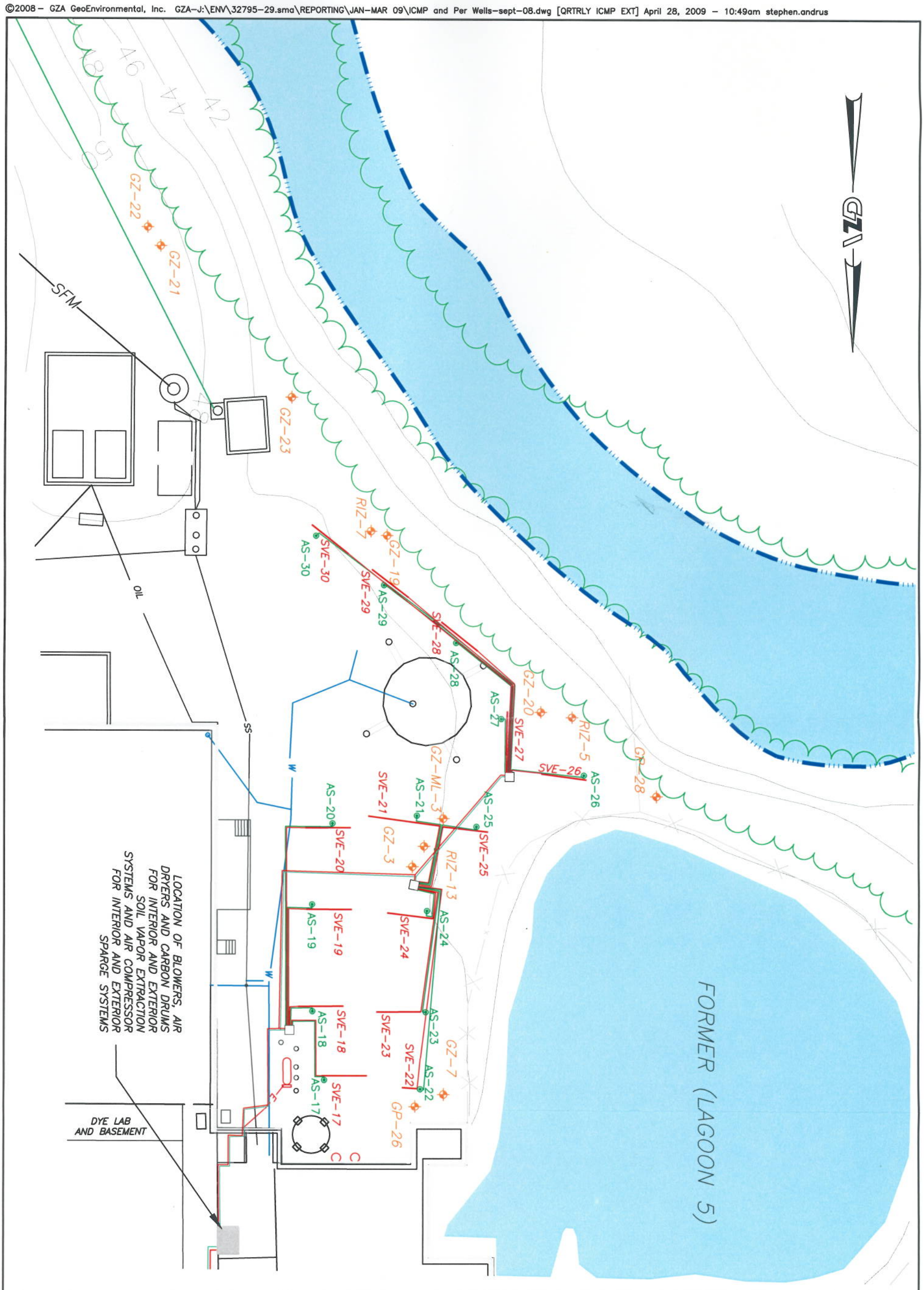

CHARBERT FACILITY
ALTON, RHODE ISLAND

INTERIM COMPLIANCE MONITORING REPORT
EXTERIOR AS–SVE SYSTEM

REV. NO.	DESCRIPTION	BY	DATE

1 INCH = 30 FEET

0 15 30 60

PROJ MGR: SMA
DESIGNED BY: SMA
REVIEWED BY: EAS

OPERATOR: DL
DATE: AUG., 2008

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JOB NO. 32795.29

FIGURE NO. 3

APPENDIX A

LIMITATIONS

GEOHYDROLOGICAL LIMITATIONS

1. The conclusions and recommendations submitted in this report are based in part upon the data obtained from a limited number of soil samples from widely spaced subsurface explorations. The nature and extent of variations between these explorations may not become evident until further investigation. If variations or other latent conditions then appear evident, it will be necessary to reevaluate the recommendations of this report.

2. The generalized soil profile described in the text is intended to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized and have been developed by interpretations of widely spaced explorations and samples; actual soil transitions are probably more gradual. For specific information, refer to the boring logs.

3. Water level readings have been made in the test pits, borings and/or observation wells at times and under conditions stated on the exploration logs. These data have been reviewed and interpretations have been made in the text of this report. However, it must be noted that fluctuations in the level of the groundwater may occur due to variations in rainfall and other factors different from those prevailing at the time measurements were made.

4. The conclusions and recommendations contained in this report are based in part upon various types of chemical data and are contingent upon their validity. These data have been reviewed and interpretations made in the report. As indicated within the report, some of these data are preliminary "screening" level data, and should be confirmed with quantitative analyses if more specific information is necessary. Moreover, it should be noted that variations in the types and concentrations of contaminants and variations in their flow paths may occur due to seasonal water table fluctuations, past disposal practices, the passage of time, and other factors. Should additional chemical data become available in the future, these data should be reviewed by GZA, and the conclusions and recommendations presented therein modified accordingly.

5. Chemical analyses have been performed for specific parameters during the course of this study, as detailed in the text. It must be noted that additional constituents not searched for during the current study may be present in soil and groundwater at the site.

6. It is recommended that this firm be retained to provide further engineering services during design, implementation, and/or construction of any remedial measures, if necessary. This is to observe compliance with the concepts and recommendations contained herein and to allow design changes in the event that subsurface conditions differ from those anticipated.

APPENDIX B

LABORATORY CERTIFICATES OF ANALYSIS

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

Laboratory Identification Numbers:
MA and ME: **MA092** NH: **2028**
CT: **PH0579** RI: **LAO00236**
NELAC - NYS DOH: **11063**

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus / Angela Harvey

Project No.: **03.0032795.29**
Work Order No.: **0907-00067**
Date Received: **07/10/2009**
Date Reported: **07/15/2009**

SAMPLE INFORMATION

Date Sampled	Matrix	Laboratory ID	Sample ID
07/08/2009	Aqueous	0907-00067 001	GZ-7
07/08/2009	Aqueous	0907-00067 002	GP-26
07/08/2009	Aqueous	0907-00067 003	GZ-3
07/08/2009	Aqueous	0907-00067 004	GP-28
07/08/2009	Aqueous	0907-00067 005	RIZ-5
07/08/2009	Aqueous	0907-00067 006	GZ-20
07/08/2009	Aqueous	0907-00067 007	GZ-19
07/08/2009	Aqueous	0907-00067 008	GZ-23
07/09/2009	Aqueous	0907-00067 009	GZ-21
07/08/2009	Aqueous	0907-00067 010	GZ-22
07/09/2009	Aqueous	0907-00067 011	RIZ-13
07/08/2009	Aqueous	0907-00067 012	RIZ-7
07/08/2009	Aqueous	0907-00067 013	GZ-100
07/08/2009	Aqueous	0907-00067 014	Trip Blank

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A N A L Y T I C A L R E P O R T

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Stephen Andrus / Angela Harvey

Project Name.:	**Charbert ICMP**	Date Received:	**07/10/2009**
Project No.:	**03.0032795.29**	Date Reported:	**07/15/2009**
		Work Order No.:	**0907-00067**

PROJECT NARRATIVE:

1. Sample Receipt

The samples were received on 07/10/09 via _x_GZA courier, __EC, __FEDEX, or ___hand delivered. The temperature of the __temperature blank/_x_cooler air, was 4.0 degrees C. The temperature requirement for most analyses is above freezing to 6 degrees C. The samples were received intact for all requested analyses.

The chain of custody indicates that the samples, when required, were chemically preserved in accordance with the method they reference.

2. EPA Method 8260 - VOCs

Sample RIZ-7 (0907-67-012) was analyzed at a 1/5 dilution based upon screening information and in order to report all target analytes within the calibration range of the instrument.

Samples GZ-3 (0907-67-003) and GP-28 (0907-67-004) were analyzed at a 1/10 dilution based upon screening information and in order to report all target analytes within the calibration range of the instrument.

Samples GP-26 (0907-67-002), GZ-20 (0907-67-006), GZ-19 (0907-67-007) and GZ-100 (0907-67-013) were analyzed at a 1/25 dilution based upon screening information and in order to report all target analytes within the calibration range of the instrument.

Attach QC 8260 07/14/09 #2 S - Aqueous

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Data Authorized By: _____

NELAC certification, as indicated by the NELAC Lab ID Number, is per analyte. For a complete list of NELAC validated analytes, please contact the laboratory.

Abbreviations:
% R = % Recovery
DF = Dilution Factor
DFS = Dilution Factor Solids
CF = Calculation Factor
DO = Diluted Out

Method Key:
Method 8260: The current version of the method is 8260B.
Method 8270: The current version of the method is 8270D.
Method 6010: The current version of the method is 6010B.

Please note that the laboratory signed copy of the chain of custody record is an integral part of the data report.

Soil data is reported on a dry weight basis unless otherwise specified.
Matrix Spike / Matrix Spike Duplicate sets are performed as per method and are reported at the end of the analytical report if assigned on the Chain of Custody.

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Project No.: **03.0032795.29**

Date Received: **07/10/2009**
Date Reported: **07/15/2009**
Work Order No.: **0907-00067**

Sample ID: **GZ-7** Sample No.: **001**

Sample Date: **07/08/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260				MQS	07/15/2009
Dichlorodifluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Chloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Vinyl Chloride	EPA 8260	2.2	1.0	ug/L	MQS	07/15/2009
Bromomethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Chloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Trichlorofluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Diethylether	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Acetone	EPA 8260	<25	25	ug/L	MQS	07/15/2009
1,1-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Dichloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
trans-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,1-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
2-Butanone	EPA 8260	<25	25	ug/L	MQS	07/15/2009
2,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
cis-1,2-Dichloroethene	EPA 8260	100	1.0	ug/L	MQS	07/15/2009
Chloroform	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Bromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Tetrahydrofuran	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,1,1-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,1-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Carbon Tetrachloride	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Benzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Trichloroethene	EPA 8260	42	1.0	ug/L	MQS	07/15/2009
1,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Bromodichloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Dibromomethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
4-Methyl-2-Pentanone	EPA 8260	<25	25	ug/L	MQS	07/15/2009
cis-1,3-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Toluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
trans-1,3-Dichloropropene	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
1,1,2-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
2-Hexanone	EPA 8260	<25	25	ug/L	MQS	07/15/2009

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Project No.: **03.0032795.29**

Date Received: **07/10/2009**
Date Reported: **07/15/2009**
Work Order No.: **0907-00067**

Sample ID: **GZ-7** Sample No.: **001**

Sample Date: **07/08/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,3-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Tetrachloroethene	EPA 8260	18	1.0	ug/L	MQS	07/15/2009
Dibromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Chlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Ethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
m&p-Xylene	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
o-Xylene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Styrene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Bromoform	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Isopropylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2,3-Trichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Bromobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
N-Propylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
2-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,3,5-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
4-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
tert-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2,4-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
sec-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
p-Isopropyltoluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,3-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,4-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
n-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
1,2,4-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Hexachlorobutadiene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Naphthalene	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
1,2,3-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	93.0	70-130	% R	MQS	07/15/2009
***Toluene-D8	EPA 8260	103	70-130	% R	MQS	07/15/2009

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Providence, RI 02903

Stephen Andrus / Angela Harvey

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **07/10/2009**
Date Reported: **07/15/2009**
Work Order No.: **0907-00067**

Sample ID: **GZ-7** Sample No.: **001**

Sample Date: **07/08/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
***4-Bromofluorobenzene	EPA 8260	102	70-130	% R	MQS	07/15/2009
Preparation	EPA 5030B	1.0		CF	MQS	07/14/2009

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Project No.: **03.0032795.29**

Date Received: **07/10/2009**
Date Reported: **07/15/2009**
Work Order No.: **0907-00067**

Sample ID: **GP-26** Sample No.: **002**
Sample Date: **07/08/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260				MQS	07/15/2009
Dichlorodifluoromethane	EPA 8260	<20	20	ug/L	MQS	07/15/2009
Chloromethane	EPA 8260	<20	20	ug/L	MQS	07/15/2009
Vinyl Chloride	EPA 8260	81	10	ug/L	MQS	07/15/2009
Bromomethane	EPA 8260	<20	20	ug/L	MQS	07/15/2009
Chloroethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Trichlorofluoromethane	EPA 8260	<20	20	ug/L	MQS	07/15/2009
Diethylether	EPA 8260	<50	50	ug/L	MQS	07/15/2009
Acetone	EPA 8260	<250	250	ug/L	MQS	07/15/2009
1,1-Dichloroethene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Dichloromethane	EPA 8260	<20	20	ug/L	MQS	07/15/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<10	10	ug/L	MQS	07/15/2009
trans-1,2-Dichloroethene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,1-Dichloroethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
2-Butanone	EPA 8260	<250	250	ug/L	MQS	07/15/2009
2,2-Dichloropropane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
cis-1,2-Dichloroethene	EPA 8260	910	10	ug/L	MQS	07/15/2009
Chloroform	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Bromochloromethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Tetrahydrofuran	EPA 8260	<100	100	ug/L	MQS	07/15/2009
1,1,1-Trichloroethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,1-Dichloropropene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Carbon Tetrachloride	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,2-Dichloroethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Benzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Trichloroethene	EPA 8260	310	10	ug/L	MQS	07/15/2009
1,2-Dichloropropane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Bromodichloromethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Dibromomethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
4-Methyl-2-Pentanone	EPA 8260	<250	250	ug/L	MQS	07/15/2009
cis-1,3-Dichloropropene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Toluene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
trans-1,3-Dichloropropene	EPA 8260	<20	20	ug/L	MQS	07/15/2009
1,1,2-Trichloroethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
2-Hexanone	EPA 8260	<250	250	ug/L	MQS	07/15/2009

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Work Order No.: **0907-00067**

Sample ID: **GP-26** Sample No.: **002**
Sample Date: **07/08/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,3-Dichloropropane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Tetrachloroethene	EPA 8260	330	10	ug/L	MQS	07/15/2009
Dibromochloromethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,2-Dibromoethane (EDB)	EPA 8260	<20	20	ug/L	MQS	07/15/2009
Chlorobenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Ethylbenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
m&p-Xylene	EPA 8260	<20	20	ug/L	MQS	07/15/2009
o-Xylene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Styrene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Bromoform	EPA 8260	<20	20	ug/L	MQS	07/15/2009
Isopropylbenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,2,3-Trichloropropane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Bromobenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
N-Propylbenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
2-Chlorotoluene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,3,5-Trimethylbenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
4-Chlorotoluene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
tert-Butylbenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,2,4-Trimethylbenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
sec-Butylbenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
p-Isopropyltoluene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,3-Dichlorobenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,4-Dichlorobenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
n-Butylbenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,2-Dichlorobenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<50	50	ug/L	MQS	07/15/2009
1,2,4-Trichlorobenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Hexachlorobutadiene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Naphthalene	EPA 8260	<20	20	ug/L	MQS	07/15/2009
1,2,3-Trichlorobenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	91.5	70-130	% R	MQS	07/15/2009
***Toluene-D8	EPA 8260	102	70-130	% R	MQS	07/15/2009

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Date Received: **07/10/2009**
Date Reported: **07/15/2009**
Work Order No.: **0907-00067**

Sample ID: **GP-26** Sample No.: **002**

Sample Date: **07/08/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
***4-Bromofluorobenzene	EPA 8260	102	70-130	% R	MQS	07/15/2009
Preparation	EPA 5030B	10		CF	MQS	07/14/2009

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Date Received: **07/10/2009**
Date Reported: **07/15/2009**
Work Order No.: **0907-00067**

Sample ID: **GZ-3** Sample No.: **003**

Sample Date: **07/08/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260				MQS	07/15/2009
Dichlorodifluoromethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Chloromethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Vinyl Chloride	EPA 8260	19	5.0	ug/L	MQS	07/15/2009
Bromomethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Chloroethane	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Trichlorofluoromethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Diethylether	EPA 8260	<25	25	ug/L	MQS	07/15/2009
Acetone	EPA 8260	<130	130	ug/L	MQS	07/15/2009
1,1-Dichloroethene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Dichloromethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
trans-1,2-Dichloroethene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
1,1-Dichloroethane	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
2-Butanone	EPA 8260	<130	130	ug/L	MQS	07/15/2009
2,2-Dichloropropane	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
cis-1,2-Dichloroethene	EPA 8260	180	5.0	ug/L	MQS	07/15/2009
Chloroform	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Bromochloromethane	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Tetrahydrofuran	EPA 8260	<50	50	ug/L	MQS	07/15/2009
1,1,1-Trichloroethane	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
1,1-Dichloropropene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Carbon Tetrachloride	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
1,2-Dichloroethane	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Benzene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Trichloroethene	EPA 8260	180	5.0	ug/L	MQS	07/15/2009
1,2-Dichloropropane	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Bromodichloromethane	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Dibromomethane	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
4-Methyl-2-Pentanone	EPA 8260	<130	130	ug/L	MQS	07/15/2009
cis-1,3-Dichloropropene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Toluene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
trans-1,3-Dichloropropene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,1,2-Trichloroethane	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
2-Hexanone	EPA 8260	<130	130	ug/L	MQS	07/15/2009

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ANALYTICAL REPORT

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Stephen Andrus / Angela Harvey

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **07/10/2009**
Date Reported: **07/15/2009**
Work Order No.: **0907-00067**

Sample ID: **GZ-3** Sample No.: **003**
Sample Date: **07/08/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,3-Dichloropropane	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Tetrachloroethene	EPA 8260	560	5.0	ug/L	MQS	07/15/2009
Dibromochloromethane	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
1,2-Dibromoethane (EDB)	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Chlorobenzene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Ethylbenzene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
m&p-Xylene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
o-Xylene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Styrene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Bromoform	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Isopropylbenzene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
1,2,3-Trichloropropane	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Bromobenzene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
N-Propylbenzene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
2-Chlorotoluene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
1,3,5-Trimethylbenzene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
4-Chlorotoluene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
tert-Butylbenzene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
1,2,4-Trimethylbenzene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
sec-Butylbenzene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
p-Isopropyltoluene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
1,3-Dichlorobenzene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
1,4-Dichlorobenzene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
n-Butylbenzene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
1,2-Dichlorobenzene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<25	25	ug/L	MQS	07/15/2009
1,2,4-Trichlorobenzene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Hexachlorobutadiene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Naphthalene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,2,3-Trichlorobenzene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	92.9	70-130	% R	MQS	07/15/2009
***Toluene-D8	EPA 8260	102	70-130	% R	MQS	07/15/2009

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A N A L Y T I C A L R E P O R T

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Stephen Andrus / Angela Harvey

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **07/10/2009**
Date Reported: **07/15/2009**
Work Order No.: **0907-00067**

Sample ID: **GZ-3** Sample No.: **003**

Sample Date: **07/08/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
***4-Bromofluorobenzene	EPA 8260	100	70-130	% R	MQS	07/15/2009
Preparation	EPA 5030B	5.0		CF	MQS	07/14/2009

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Project No.: **03.0032795.29**

Date Received: **07/10/2009**
Date Reported: **07/15/2009**
Work Order No.: **0907-00067**

Sample ID: **GP-28** Sample No.: **004**

Sample Date: **07/08/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260				MQS	07/15/2009
Dichlorodifluoromethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Chloromethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Vinyl Chloride	EPA 8260	440	5.0	ug/L	MQS	07/15/2009
Bromomethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Chloroethane	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Trichlorofluoromethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Diethylether	EPA 8260	<25	25	ug/L	MQS	07/15/2009
Acetone	EPA 8260	<130	130	ug/L	MQS	07/15/2009
1,1-Dichloroethene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Dichloromethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
trans-1,2-Dichloroethene	EPA 8260	7.0	5.0	ug/L	MQS	07/15/2009
1,1-Dichloroethane	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
2-Butanone	EPA 8260	<130	130	ug/L	MQS	07/15/2009
2,2-Dichloropropane	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
cis-1,2-Dichloroethene	EPA 8260	560	5.0	ug/L	MQS	07/15/2009
Chloroform	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Bromochloromethane	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Tetrahydrofuran	EPA 8260	<50	50	ug/L	MQS	07/15/2009
1,1,1-Trichloroethane	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
1,1-Dichloropropene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Carbon Tetrachloride	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
1,2-Dichloroethane	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Benzene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Trichloroethene	EPA 8260	23	5.0	ug/L	MQS	07/15/2009
1,2-Dichloropropane	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Bromodichloromethane	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Dibromomethane	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
4-Methyl-2-Pentanone	EPA 8260	<130	130	ug/L	MQS	07/15/2009
cis-1,3-Dichloropropene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Toluene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
trans-1,3-Dichloropropene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,1,2-Trichloroethane	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
2-Hexanone	EPA 8260	<130	130	ug/L	MQS	07/15/2009

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Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **07/10/2009**
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Work Order No.: **0907-00067**

Sample ID: **GP-28** Sample No.: **004**
Sample Date: **07/08/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,3-Dichloropropane	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Tetrachloroethene	EPA 8260	15	5.0	ug/L	MQS	07/15/2009
Dibromochloromethane	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
1,2-Dibromoethane (EDB)	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Chlorobenzene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Ethylbenzene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
m&p-Xylene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
o-Xylene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Styrene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Bromoform	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Isopropylbenzene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
1,2,3-Trichloropropane	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Bromobenzene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
N-Propylbenzene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
2-Chlorotoluene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
1,3,5-Trimethylbenzene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
4-Chlorotoluene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
tert-Butylbenzene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
1,2,4-Trimethylbenzene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
sec-Butylbenzene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
p-Isopropyltoluene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
1,3-Dichlorobenzene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
1,4-Dichlorobenzene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
n-Butylbenzene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
1,2-Dichlorobenzene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<25	25	ug/L	MQS	07/15/2009
1,2,4-Trichlorobenzene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Hexachlorobutadiene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Naphthalene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,2,3-Trichlorobenzene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	92.9	70-130	% R	MQS	07/15/2009
***Toluene-D8	EPA 8260	101	70-130	% R	MQS	07/15/2009

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Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **07/10/2009**
Date Reported: **07/15/2009**
Work Order No.: **0907-00067**

Sample ID: **GP-28** Sample No.: **004**

Sample Date: **07/08/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
***4-Bromofluorobenzene	EPA 8260	98.7	70-130	% R	MQS	07/15/2009
Preparation	EPA 5030B	5.0		CF	MQS	07/14/2009

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Work Order No.: **0907-00067**

Sample ID: **RIZ-5** Sample No.: **005**
Sample Date: **07/08/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260				MQS	07/15/2009
Dichlorodifluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Chloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Vinyl Chloride	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Bromomethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Chloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Trichlorofluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Diethylether	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Acetone	EPA 8260	<25	25	ug/L	MQS	07/15/2009
1,1-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Dichloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
trans-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,1-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
2-Butanone	EPA 8260	<25	25	ug/L	MQS	07/15/2009
2,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
cis-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Chloroform	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Bromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Tetrahydrofuran	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,1,1-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,1-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Carbon Tetrachloride	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Benzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Trichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Bromodichloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Dibromomethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
4-Methyl-2-Pentanone	EPA 8260	<25	25	ug/L	MQS	07/15/2009
cis-1,3-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Toluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
trans-1,3-Dichloropropene	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
1,1,2-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
2-Hexanone	EPA 8260	<25	25	ug/L	MQS	07/15/2009

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Project Name.: **Charbert ICMP**
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Sample ID: **RIZ-5** Sample No.: **005**
Sample Date: **07/08/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,3-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Tetrachloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Dibromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Chlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Ethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
m&p-Xylene	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
o-Xylene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Styrene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Bromoform	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Isopropylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2,3-Trichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Bromobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
N-Propylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
2-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,3,5-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
4-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
tert-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2,4-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
sec-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
p-Isopropyltoluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,3-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,4-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
n-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
1,2,4-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Hexachlorobutadiene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Naphthalene	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
1,2,3-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	94.7	70-130	% R	MQS	07/15/2009
***Toluene-D8	EPA 8260	102	70-130	% R	MQS	07/15/2009

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A N A L Y T I C A L R E P O R T

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Stephen Andrus / Angela Harvey

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **07/10/2009**
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Work Order No.: **0907-00067**

Sample ID: **RIZ-5** Sample No.: **005**

Sample Date: **07/08/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
***4-Bromofluorobenzene	EPA 8260	101	70-130	% R	MQS	07/15/2009
Preparation	EPA 5030B	1.0		CF	MQS	07/14/2009

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Project Name.: **Charbert ICMP**
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Sample ID: **GZ-20** Sample No.: **006**
Sample Date: **07/08/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260				MQS	07/15/2009
Dichlorodifluoromethane	EPA 8260	<20	20	ug/L	MQS	07/15/2009
Chloromethane	EPA 8260	<20	20	ug/L	MQS	07/15/2009
Vinyl Chloride	EPA 8260	71	10	ug/L	MQS	07/15/2009
Bromomethane	EPA 8260	<20	20	ug/L	MQS	07/15/2009
Chloroethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Trichlorofluoromethane	EPA 8260	<20	20	ug/L	MQS	07/15/2009
Diethylether	EPA 8260	<50	50	ug/L	MQS	07/15/2009
Acetone	EPA 8260	<250	250	ug/L	MQS	07/15/2009
1,1-Dichloroethene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Dichloromethane	EPA 8260	<20	20	ug/L	MQS	07/15/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<10	10	ug/L	MQS	07/15/2009
trans-1,2-Dichloroethene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,1-Dichloroethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
2-Butanone	EPA 8260	<250	250	ug/L	MQS	07/15/2009
2,2-Dichloropropane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
cis-1,2-Dichloroethene	EPA 8260	830	10	ug/L	MQS	07/15/2009
Chloroform	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Bromochloromethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Tetrahydrofuran	EPA 8260	<100	100	ug/L	MQS	07/15/2009
1,1,1-Trichloroethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,1-Dichloropropene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Carbon Tetrachloride	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,2-Dichloroethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Benzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Trichloroethene	EPA 8260	690	10	ug/L	MQS	07/15/2009
1,2-Dichloropropane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Bromodichloromethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Dibromomethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
4-Methyl-2-Pentanone	EPA 8260	<250	250	ug/L	MQS	07/15/2009
cis-1,3-Dichloropropene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Toluene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
trans-1,3-Dichloropropene	EPA 8260	<20	20	ug/L	MQS	07/15/2009
1,1,2-Trichloroethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
2-Hexanone	EPA 8260	<250	250	ug/L	MQS	07/15/2009

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Date Received: **07/10/2009**
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Sample ID: **GZ-20**
Sample No.: **006**
Sample Date: **07/08/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,3-Dichloropropane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Tetrachloroethene	EPA 8260	1200	10	ug/L	MQS	07/15/2009
Dibromochloromethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,2-Dibromoethane (EDB)	EPA 8260	<20	20	ug/L	MQS	07/15/2009
Chlorobenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Ethylbenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
m&p-Xylene	EPA 8260	<20	20	ug/L	MQS	07/15/2009
o-Xylene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Styrene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Bromoform	EPA 8260	<20	20	ug/L	MQS	07/15/2009
Isopropylbenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,2,3-Trichloropropane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Bromobenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
N-Propylbenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
2-Chlorotoluene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,3,5-Trimethylbenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
4-Chlorotoluene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
tert-Butylbenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,2,4-Trimethylbenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
sec-Butylbenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
p-Isopropyltoluene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,3-Dichlorobenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,4-Dichlorobenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
n-Butylbenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,2-Dichlorobenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<50	50	ug/L	MQS	07/15/2009
1,2,4-Trichlorobenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Hexachlorobutadiene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Naphthalene	EPA 8260	<20	20	ug/L	MQS	07/15/2009
1,2,3-Trichlorobenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	97.5	70-130	% R	MQS	07/15/2009
***Toluene-D8	EPA 8260	102	70-130	% R	MQS	07/15/2009

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Date Received: **07/10/2009**
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Work Order No.: **0907-00067**

Sample ID: **GZ-20** Sample No.: **006**

Sample Date: **07/08/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
***4-Bromofluorobenzene	EPA 8260	104	70-130	% R	MQS	07/15/2009
Preparation	EPA 5030B	10		CF	MQS	07/14/2009

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Date Reported: **07/15/2009**
Work Order No.: **0907-00067**

Sample ID: **GZ-19** Sample No.: **007**
Sample Date: **07/08/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260				MQS	07/15/2009
Dichlorodifluoromethane	EPA 8260	<20	20	ug/L	MQS	07/15/2009
Chloromethane	EPA 8260	<20	20	ug/L	MQS	07/15/2009
Vinyl Chloride	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Bromomethane	EPA 8260	<20	20	ug/L	MQS	07/15/2009
Chloroethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Trichlorofluoromethane	EPA 8260	<20	20	ug/L	MQS	07/15/2009
Diethylether	EPA 8260	<50	50	ug/L	MQS	07/15/2009
Acetone	EPA 8260	<250	250	ug/L	MQS	07/15/2009
1,1-Dichloroethene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Dichloromethane	EPA 8260	<20	20	ug/L	MQS	07/15/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<10	10	ug/L	MQS	07/15/2009
trans-1,2-Dichloroethene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,1-Dichloroethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
2-Butanone	EPA 8260	<250	250	ug/L	MQS	07/15/2009
2,2-Dichloropropane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
cis-1,2-Dichloroethene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Chloroform	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Bromochloromethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Tetrahydrofuran	EPA 8260	<100	100	ug/L	MQS	07/15/2009
1,1,1-Trichloroethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,1-Dichloropropene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Carbon Tetrachloride	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,2-Dichloroethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Benzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Trichloroethene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,2-Dichloropropane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Bromodichloromethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Dibromomethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
4-Methyl-2-Pentanone	EPA 8260	<250	250	ug/L	MQS	07/15/2009
cis-1,3-Dichloropropene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Toluene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
trans-1,3-Dichloropropene	EPA 8260	<20	20	ug/L	MQS	07/15/2009
1,1,2-Trichloroethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
2-Hexanone	EPA 8260	<250	250	ug/L	MQS	07/15/2009

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Sample ID: **GZ-19**
Sample No.: **007**
Sample Date: **07/08/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,3-Dichloropropane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Tetrachloroethene	EPA 8260	1300	10	ug/L	MQS	07/15/2009
Dibromochloromethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,2-Dibromoethane (EDB)	EPA 8260	<20	20	ug/L	MQS	07/15/2009
Chlorobenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Ethylbenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
m&p-Xylene	EPA 8260	<20	20	ug/L	MQS	07/15/2009
o-Xylene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Styrene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Bromoform	EPA 8260	<20	20	ug/L	MQS	07/15/2009
Isopropylbenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,2,3-Trichloropropane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Bromobenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
N-Propylbenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
2-Chlorotoluene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,3,5-Trimethylbenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
4-Chlorotoluene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
tert-Butylbenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,2,4-Trimethylbenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
sec-Butylbenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
p-Isopropyltoluene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,3-Dichlorobenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,4-Dichlorobenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
n-Butylbenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,2-Dichlorobenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<50	50	ug/L	MQS	07/15/2009
1,2,4-Trichlorobenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Hexachlorobutadiene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Naphthalene	EPA 8260	<20	20	ug/L	MQS	07/15/2009
1,2,3-Trichlorobenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	95.2	70-130	% R	MQS	07/15/2009
***Toluene-D8	EPA 8260	102	70-130	% R	MQS	07/15/2009

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Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
***4-Bromofluorobenzene	EPA 8260	102	70-130	% R	MQS	07/15/2009
Preparation	EPA 5030B	10		CF	MQS	07/14/2009

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Sample ID: **GZ-23** Sample No.: **008**

Sample Date: **07/08/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260				MQS	07/15/2009
Dichlorodifluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Chloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Vinyl Chloride	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Bromomethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Chloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Trichlorofluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Diethylether	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Acetone	EPA 8260	<25	25	ug/L	MQS	07/15/2009
1,1-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Dichloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
trans-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,1-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
2-Butanone	EPA 8260	<25	25	ug/L	MQS	07/15/2009
2,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
cis-1,2-Dichloroethene	EPA 8260	3.4	1.0	ug/L	MQS	07/15/2009
Chloroform	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Bromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Tetrahydrofuran	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,1,1-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,1-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Carbon Tetrachloride	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Benzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Trichloroethene	EPA 8260	21	1.0	ug/L	MQS	07/15/2009
1,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Bromodichloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Dibromomethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
4-Methyl-2-Pentanone	EPA 8260	<25	25	ug/L	MQS	07/15/2009
cis-1,3-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Toluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
trans-1,3-Dichloropropene	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
1,1,2-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
2-Hexanone	EPA 8260	<25	25	ug/L	MQS	07/15/2009

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Sample ID: **GZ-23** Sample No.: **008**
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Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,3-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Tetrachloroethene	EPA 8260	17	1.0	ug/L	MQS	07/15/2009
Dibromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Chlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Ethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
m&p-Xylene	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
o-Xylene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Styrene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Bromoform	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Isopropylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2,3-Trichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Bromobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
N-Propylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
2-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,3,5-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
4-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
tert-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2,4-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
sec-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
p-Isopropyltoluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,3-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,4-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
n-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
1,2,4-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Hexachlorobutadiene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Naphthalene	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
1,2,3-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	96.3	70-130	% R	MQS	07/15/2009
***Toluene-D8	EPA 8260	101	70-130	% R	MQS	07/15/2009

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A N A L Y T I C A L R E P O R T

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Stephen Andrus / Angela Harvey

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **07/10/2009**
Date Reported: **07/15/2009**
Work Order No.: **0907-00067**

Sample ID: **GZ-23** Sample No.: **008**

Sample Date: **07/08/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
***4-Bromofluorobenzene	EPA 8260	101	70-130	% R	MQS	07/15/2009
Preparation	EPA 5030B	1.0		CF	MQS	07/14/2009

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ANALYTICAL REPORT

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Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **07/10/2009**
Date Reported: **07/15/2009**
Work Order No.: **0907-00067**

Sample ID: **GZ-21** Sample No.: **009**
Sample Date: **07/09/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260				MQS	07/15/2009
Dichlorodifluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Chloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Vinyl Chloride	EPA 8260	1.0	1.0	ug/L	MQS	07/15/2009
Bromomethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Chloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Trichlorofluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Diethylether	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Acetone	EPA 8260	<25	25	ug/L	MQS	07/15/2009
1,1-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Dichloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
trans-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,1-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
2-Butanone	EPA 8260	<25	25	ug/L	MQS	07/15/2009
2,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
cis-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Chloroform	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Bromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Tetrahydrofuran	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,1,1-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,1-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Carbon Tetrachloride	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Benzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Trichloroethene	EPA 8260	1.4	1.0	ug/L	MQS	07/15/2009
1,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Bromodichloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Dibromomethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
4-Methyl-2-Pentanone	EPA 8260	<25	25	ug/L	MQS	07/15/2009
cis-1,3-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Toluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
trans-1,3-Dichloropropene	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
1,1,2-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
2-Hexanone	EPA 8260	<25	25	ug/L	MQS	07/15/2009

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Stephen Andrus / Angela Harvey

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **07/10/2009**
Date Reported: **07/15/2009**
Work Order No.: **0907-00067**

Sample ID: **GZ-21** Sample No.: **009**
Sample Date: **07/09/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,3-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Tetrachloroethene	EPA 8260	4.1	1.0	ug/L	MQS	07/15/2009
Dibromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Chlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Ethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
m&p-Xylene	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
o-Xylene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Styrene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Bromoform	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Isopropylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2,3-Trichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Bromobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
N-Propylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
2-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,3,5-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
4-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
tert-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2,4-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
sec-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
p-Isopropyltoluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,3-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,4-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
n-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
1,2,4-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Hexachlorobutadiene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Naphthalene	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
1,2,3-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	94.4	70-130	% R	MQS	07/15/2009
***Toluene-D8	EPA 8260	102	70-130	% R	MQS	07/15/2009

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A N A L Y T I C A L R E P O R T

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Stephen Andrus / Angela Harvey

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **07/10/2009**
Date Reported: **07/15/2009**
Work Order No.: **0907-00067**

Sample ID: **GZ-21** Sample No.: **009**

Sample Date: **07/09/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
***4-Bromofluorobenzene	EPA 8260	104	70-130	% R	MQS	07/15/2009
Preparation	EPA 5030B	1.0		CF	MQS	07/14/2009

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Project No.: **03.0032795.29**

Date Received: **07/10/2009**
Date Reported: **07/15/2009**
Work Order No.: **0907-00067**

Sample ID: **GZ-22** Sample No.: **010**
Sample Date: **07/08/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260				MQS	07/15/2009
Dichlorodifluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Chloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Vinyl Chloride	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Bromomethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Chloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Trichlorofluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Diethylether	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Acetone	EPA 8260	<25	25	ug/L	MQS	07/15/2009
1,1-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Dichloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
trans-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,1-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
2-Butanone	EPA 8260	<25	25	ug/L	MQS	07/15/2009
2,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
cis-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Chloroform	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Bromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Tetrahydrofuran	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,1,1-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,1-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Carbon Tetrachloride	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Benzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Trichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Bromodichloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Dibromomethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
4-Methyl-2-Pentanone	EPA 8260	<25	25	ug/L	MQS	07/15/2009
cis-1,3-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Toluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
trans-1,3-Dichloropropene	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
1,1,2-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
2-Hexanone	EPA 8260	<25	25	ug/L	MQS	07/15/2009

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ANALYTICAL REPORT

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Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **07/10/2009**
Date Reported: **07/15/2009**
Work Order No.: **0907-00067**

Sample ID: **GZ-22** Sample No.: **010**
Sample Date: **07/08/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,3-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Tetrachloroethene	EPA 8260	35	1.0	ug/L	MQS	07/15/2009
Dibromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Chlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Ethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
m&p-Xylene	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
o-Xylene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Styrene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Bromoform	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Isopropylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2,3-Trichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Bromobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
N-Propylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
2-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,3,5-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
4-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
tert-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2,4-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
sec-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
p-Isopropyltoluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,3-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,4-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
n-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
1,2,4-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Hexachlorobutadiene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Naphthalene	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
1,2,3-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	89.8	70-130	% R	MQS	07/15/2009
***Toluene-D8	EPA 8260	101	70-130	% R	MQS	07/15/2009

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Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **07/10/2009**
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Work Order No.: **0907-00067**

Sample ID: **GZ-22** Sample No.: **010**

Sample Date: **07/08/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
***4-Bromofluorobenzene	EPA 8260	103	70-130	% R	MQS	07/15/2009
Preparation	EPA 5030B	1.0		CF	MQS	07/14/2009

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ANALYTICAL REPORT

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Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **07/10/2009**
Date Reported: **07/15/2009**
Work Order No.: **0907-00067**

Sample ID: **RIZ-13** Sample No.: **011**
Sample Date: **07/09/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260				MQS	07/15/2009
Dichlorodifluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Chloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Vinyl Chloride	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Bromomethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Chloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Trichlorofluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Diethylether	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Acetone	EPA 8260	<25	25	ug/L	MQS	07/15/2009
1,1-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Dichloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
trans-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,1-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
2-Butanone	EPA 8260	<25	25	ug/L	MQS	07/15/2009
2,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
cis-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Chloroform	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Bromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Tetrahydrofuran	EPA 8260	17	10	ug/L	MQS	07/15/2009
1,1,1-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,1-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Carbon Tetrachloride	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Benzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Trichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Bromodichloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Dibromomethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
4-Methyl-2-Pentanone	EPA 8260	<25	25	ug/L	MQS	07/15/2009
cis-1,3-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Toluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
trans-1,3-Dichloropropene	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
1,1,2-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
2-Hexanone	EPA 8260	<25	25	ug/L	MQS	07/15/2009

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ANALYTICAL REPORT

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Stephen Andrus / Angela Harvey

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **07/10/2009**
Date Reported: **07/15/2009**
Work Order No.: **0907-00067**

Sample ID: **RIZ-13** Sample No.: **011**
Sample Date: **07/09/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,3-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Tetrachloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Dibromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Chlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Ethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
m&p-Xylene	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
o-Xylene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Styrene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Bromoform	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Isopropylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2,3-Trichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Bromobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
N-Propylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
2-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,3,5-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
4-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
tert-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2,4-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
sec-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
p-Isopropyltoluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,3-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,4-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
n-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
1,2,4-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Hexachlorobutadiene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Naphthalene	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
1,2,3-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	94.4	70-130	% R	MQS	07/15/2009
***Toluene-D8	EPA 8260	102	70-130	% R	MQS	07/15/2009

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A N A L Y T I C A L R E P O R T

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Stephen Andrus / Angela Harvey

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **07/10/2009**
Date Reported: **07/15/2009**
Work Order No.: **0907-00067**

Sample ID: **RIZ-13** Sample No.: **011**

Sample Date: **07/09/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
***4-Bromofluorobenzene	EPA 8260	104	70-130	% R	MQS	07/15/2009
Preparation	EPA 5030B	1.0		CF	MQS	07/14/2009

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Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **07/10/2009**
Date Reported: **07/15/2009**
Work Order No.: **0907-00067**

Sample ID: **RIZ-7** Sample No.: **012**
Sample Date: **07/08/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260				MQS	07/15/2009
Dichlorodifluoromethane	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Chloromethane	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Vinyl Chloride	EPA 8260	130	2.5	ug/L	MQS	07/15/2009
Bromomethane	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Chloroethane	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
Trichlorofluoromethane	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Diethylether	EPA 8260	<13	13	ug/L	MQS	07/15/2009
Acetone	EPA 8260	<63	63	ug/L	MQS	07/15/2009
1,1-Dichloroethene	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
Dichloromethane	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
trans-1,2-Dichloroethene	EPA 8260	5.4	2.5	ug/L	MQS	07/15/2009
1,1-Dichloroethane	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
2-Butanone	EPA 8260	<63	63	ug/L	MQS	07/15/2009
2,2-Dichloropropane	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
cis-1,2-Dichloroethene	EPA 8260	160	2.5	ug/L	MQS	07/15/2009
Chloroform	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
Bromochloromethane	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
Tetrahydrofuran	EPA 8260	<25	25	ug/L	MQS	07/15/2009
1,1,1-Trichloroethane	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
1,1-Dichloropropene	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
Carbon Tetrachloride	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
1,2-Dichloroethane	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
Benzene	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
Trichloroethene	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
1,2-Dichloropropane	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
Bromodichloromethane	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
Dibromomethane	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
4-Methyl-2-Pentanone	EPA 8260	<63	63	ug/L	MQS	07/15/2009
cis-1,3-Dichloropropene	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
Toluene	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
trans-1,3-Dichloropropene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
1,1,2-Trichloroethane	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
2-Hexanone	EPA 8260	<63	63	ug/L	MQS	07/15/2009

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ANALYTICAL REPORT

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Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **07/10/2009**
Date Reported: **07/15/2009**
Work Order No.: **0907-00067**

Sample ID: **RIZ-7** Sample No.: **012**

Sample Date: **07/08/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,3-Dichloropropane	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
Tetrachloroethene	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
Dibromochloromethane	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
1,2-Dibromoethane (EDB)	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Chlorobenzene	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
Ethylbenzene	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
m&p-Xylene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
o-Xylene	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
Styrene	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
Bromoform	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Isopropylbenzene	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
1,2,3-Trichloropropane	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
Bromobenzene	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
N-Propylbenzene	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
2-Chlorotoluene	EPA 8260	3.6	2.5	ug/L	MQS	07/15/2009
1,3,5-Trimethylbenzene	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
4-Chlorotoluene	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
tert-Butylbenzene	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
1,2,4-Trimethylbenzene	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
sec-Butylbenzene	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
p-Isopropyltoluene	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
1,3-Dichlorobenzene	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
1,4-Dichlorobenzene	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
n-Butylbenzene	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
1,2-Dichlorobenzene	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<13	13	ug/L	MQS	07/15/2009
1,2,4-Trichlorobenzene	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
Hexachlorobutadiene	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
Naphthalene	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
1,2,3-Trichlorobenzene	EPA 8260	<2.5	2.5	ug/L	MQS	07/15/2009
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	98.6	70-130	% R	MQS	07/15/2009
***Toluene-D8	EPA 8260	104	70-130	% R	MQS	07/15/2009

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Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **07/10/2009**
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Work Order No.: **0907-00067**

Sample ID: **RIZ-7** Sample No.: **012**

Sample Date: **07/08/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
***4-Bromofluorobenzene	EPA 8260	104	70-130	% R	MQS	07/15/2009
Preparation	EPA 5030B	2.5		CF	MQS	07/14/2009

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Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **07/10/2009**
Date Reported: **07/15/2009**
Work Order No.: **0907-00067**

Sample ID: **GZ-100** Sample No.: **013**
Sample Date: **07/08/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260				MQS	07/15/2009
Dichlorodifluoromethane	EPA 8260	<20	20	ug/L	MQS	07/15/2009
Chloromethane	EPA 8260	<20	20	ug/L	MQS	07/15/2009
Vinyl Chloride	EPA 8260	74	10	ug/L	MQS	07/15/2009
Bromomethane	EPA 8260	<20	20	ug/L	MQS	07/15/2009
Chloroethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Trichlorofluoromethane	EPA 8260	<20	20	ug/L	MQS	07/15/2009
Diethylether	EPA 8260	<50	50	ug/L	MQS	07/15/2009
Acetone	EPA 8260	<250	250	ug/L	MQS	07/15/2009
1,1-Dichloroethene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Dichloromethane	EPA 8260	<20	20	ug/L	MQS	07/15/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<10	10	ug/L	MQS	07/15/2009
trans-1,2-Dichloroethene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,1-Dichloroethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
2-Butanone	EPA 8260	<250	250	ug/L	MQS	07/15/2009
2,2-Dichloropropane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
cis-1,2-Dichloroethene	EPA 8260	860	10	ug/L	MQS	07/15/2009
Chloroform	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Bromochloromethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Tetrahydrofuran	EPA 8260	<100	100	ug/L	MQS	07/15/2009
1,1,1-Trichloroethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,1-Dichloropropene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Carbon Tetrachloride	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,2-Dichloroethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Benzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Trichloroethene	EPA 8260	740	10	ug/L	MQS	07/15/2009
1,2-Dichloropropane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Bromodichloromethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Dibromomethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
4-Methyl-2-Pentanone	EPA 8260	<250	250	ug/L	MQS	07/15/2009
cis-1,3-Dichloropropene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Toluene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
trans-1,3-Dichloropropene	EPA 8260	<20	20	ug/L	MQS	07/15/2009
1,1,2-Trichloroethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
2-Hexanone	EPA 8260	<250	250	ug/L	MQS	07/15/2009

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Project No.: **03.0032795.29**

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Date Reported: **07/15/2009**
Work Order No.: **0907-00067**

Sample ID: **GZ-100** Sample No.: **013**
Sample Date: **07/08/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,3-Dichloropropane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Tetrachloroethene	EPA 8260	1400	10	ug/L	MQS	07/15/2009
Dibromochloromethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,2-Dibromoethane (EDB)	EPA 8260	<20	20	ug/L	MQS	07/15/2009
Chlorobenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Ethylbenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
m&p-Xylene	EPA 8260	<20	20	ug/L	MQS	07/15/2009
o-Xylene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Styrene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Bromoform	EPA 8260	<20	20	ug/L	MQS	07/15/2009
Isopropylbenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,2,3-Trichloropropane	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Bromobenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
N-Propylbenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
2-Chlorotoluene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,3,5-Trimethylbenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
4-Chlorotoluene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
tert-Butylbenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,2,4-Trimethylbenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
sec-Butylbenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
p-Isopropyltoluene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,3-Dichlorobenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,4-Dichlorobenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
n-Butylbenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,2-Dichlorobenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<50	50	ug/L	MQS	07/15/2009
1,2,4-Trichlorobenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Hexachlorobutadiene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Naphthalene	EPA 8260	<20	20	ug/L	MQS	07/15/2009
1,2,3-Trichlorobenzene	EPA 8260	<10	10	ug/L	MQS	07/15/2009
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	92.2	70-130	% R	MQS	07/15/2009
***Toluene-D8	EPA 8260	102	70-130	% R	MQS	07/15/2009

GZA GeoEnvironmental, Inc.
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A N A L Y T I C A L R E P O R T

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus / Angela Harvey

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **07/10/2009**
Date Reported: **07/15/2009**
Work Order No.: **0907-00067**

Sample ID: **GZ-100** Sample No.: **013**

Sample Date: **07/08/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
***4-Bromofluorobenzene	EPA 8260	104	70-130	% R	MQS	07/15/2009
Preparation	EPA 5030B	10		CF	MQS	07/14/2009

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ANALYTICAL REPORT

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Stephen Andrus / Angela Harvey

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **07/10/2009**
Date Reported: **07/15/2009**
Work Order No.: **0907-00067**

Sample ID: **Trip Blank** Sample No.: **014**

Sample Date: **07/08/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260				MQS	07/15/2009
Dichlorodifluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Chloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Vinyl Chloride	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Bromomethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Chloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Trichlorofluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Diethylether	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
Acetone	EPA 8260	<25	25	ug/L	MQS	07/15/2009
1,1-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Dichloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
trans-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,1-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
2-Butanone	EPA 8260	<25	25	ug/L	MQS	07/15/2009
2,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
cis-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Chloroform	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Bromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Tetrahydrofuran	EPA 8260	<10	10	ug/L	MQS	07/15/2009
1,1,1-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,1-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Carbon Tetrachloride	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Benzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Trichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Bromodichloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Dibromomethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
4-Methyl-2-Pentanone	EPA 8260	<25	25	ug/L	MQS	07/15/2009
cis-1,3-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Toluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
trans-1,3-Dichloropropene	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
1,1,2-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
2-Hexanone	EPA 8260	<25	25	ug/L	MQS	07/15/2009

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ANALYTICAL REPORT

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Stephen Andrus / Angela Harvey

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **07/10/2009**
Date Reported: **07/15/2009**
Work Order No.: **0907-00067**

Sample ID: **Trip Blank** Sample No.: **014**
Sample Date: **07/08/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,3-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Tetrachloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Dibromochloromethane	EPA 8260	1.1	1.0	ug/L	MQS	07/15/2009
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Chlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Ethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
m&p-Xylene	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
o-Xylene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Styrene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Bromoform	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
Isopropylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2,3-Trichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Bromobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
N-Propylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
2-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,3,5-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
4-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
tert-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2,4-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
sec-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
p-Isopropyltoluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,3-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,4-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
n-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	5.0	ug/L	MQS	07/15/2009
1,2,4-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Hexachlorobutadiene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Naphthalene	EPA 8260	<2.0	2.0	ug/L	MQS	07/15/2009
1,2,3-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/15/2009
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	93.6	70-130	% R	MQS	07/15/2009
***Toluene-D8	EPA 8260	102	70-130	% R	MQS	07/15/2009

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Sample ID: **Trip Blank** Sample No.: **014**

Sample Date: **07/08/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
***4-Bromofluorobenzene	EPA 8260	101	70-130	% R	MQS	07/15/2009
Preparation	EPA 5030B	1.0		CF	MQS	07/14/2009

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EPA Method 8260 / 524.2 Aqueous Method Blank (MB) and Laboratory Control Sample/Duplicate (LCS/LCSD) Data

	Method Blank		Laboratory Control Sample				Laboratory Control Sample Duplicate					
Date Analyzed:	7/14/2009 2		Date Analyzed:	7/14/2009 2			7/14/2009 2					
Volatile Organics	Conc. ug/L	Acceptance Limit	Spike Concentration = 20ug/L	% Recovery	Acceptance Limits	Verdict	% Recovery	Acceptance Limits	Verdict	RPD	Limit	Verdict
dichlorodifluoromethane	< 1.0	< 1.0	dichlorodifluoromethane	94.6	70-130	ok	97.1	70-130	ok	2.60	<25	ok
chloromethane	< 1.0	< 1.0	chloromethane	115	70-130	ok	114	70-130	ok	0.22	<25	ok
vinyl chloride	< 0.5	< 0.5	vinyl chloride	96.5	80-120	ok	98.3	70-130	ok	1.85	<25	ok
bromomethane	< 1.0	< 1.0	bromomethane	92.2	70-130	ok	90.6	70-130	ok	1.74	<25	ok
chloroethane	< 0.5	< 0.5	chloroethane	95.1	70-130	ok	95.1	70-130	ok	0.00	<25	ok
trichlorofluoromethane	< 1.0	< 1.0	trichlorofluoromethane	86.0	70-130	ok	84.7	70-130	ok	1.46	<25	ok
diethyl ether	< 2.5	< 2.5	diethyl ether	91.4	70-130	ok	87.1	70-130	ok	4.88	<25	ok
acetone	< 13	< 13	acetone	103	70-130	ok	97.4	70-130	ok	6.00	<25	ok
1,1-dichloroethene	< 0.5	< 0.5	1,1-dichloroethene	95.7	80-120	ok	95.1	70-130	ok	0.60	<25	ok
FREON-113	< 1.0	< 1.0	FREON-113	86.9	70-130	ok	89.8	70-130	ok	3.34	<25	ok
iodomethane	< 0.5	< 0.5	iodomethane	80.1	70-130	ok	78.5	70-130	ok	2.01	<25	ok
carbon disulfide	< 5.0	< 5.0	carbon disulfide	104	70-130	ok	105	70-130	ok	1.16	<25	ok
dichloromethane	< 1.0	< 1.0	dichloromethane	96.0	70-130	ok	94.2	70-130	ok	1.82	<25	ok
tert-butyl alcohol (TBA)	< 13	< 13	tert-butyl alcohol (TBA)	84.9	70-130	ok	76.7	70-130	ok	10.1	<25	ok
acrylonitrile	< 0.5	< 0.5	acrylonitrile	97.3	70-130	ok	94.2	70-130	ok	3.31	<25	ok
methyl-tert-butyl-ether	< 0.5	< 0.5	methyl-tert-butyl-ether	88.3	70-130	ok	83.4	70-130	ok	5.71	<25	ok
trans-1,2-dichloroethene	< 0.5	< 0.5	trans-1,2-dichloroethene	102	70-130	ok	102	70-130	ok	0.43	<25	ok
1,1-dichloroethane	< 0.5	< 0.5	1,1-dichloroethane	95.7	70-130	ok	95.3	70-130	ok	0.48	<25	ok
di-isopropyl ether (DIPE)	< 1.0	< 1.0	di-isopropyl ether (DIPE)	104	70-130	ok	98.6	70-130	ok	4.88	<25	ok
ethyl tert-butyl ether (EtBE)	< 1.0	< 1.0	ethyl tert-butyl ether (EtBE)	88.4	70-130	ok	83.8	70-130	ok	5.32	<25	ok
vinyl acetate	< 13	< 13	vinyl acetate	87.4	70-130	ok	78.4	70-130	ok	10.8	<25	ok
2-butanone	< 13	< 13	2-butanone	99.3	70-130	ok	90.5	70-130	ok	9.24	<25	ok
2,2-dichloropropane	< 0.5	< 0.5	2,2-dichloropropane	77.4	70-130	ok	78.4	70-130	ok	1.22	<25	ok
cis-1,2-dichloroethene	< 0.5	< 0.5	cis-1,2-dichloroethene	89.9	70-130	ok	88.5	70-130	ok	1.59	<25	ok
chloroform	< 0.5	< 0.5	chloroform	87.9	80-120	ok	85.2	70-130	ok	3.13	<25	ok
bromochloromethane	< 0.5	< 0.5	bromochloromethane	80.4	70-130	ok	75.9	70-130	ok	5.81	<25	ok
tetrahydrofuran	< 5.0	< 5.0	tetrahydrofuran	103	70-130	ok	94.3	70-130	ok	8.49	<25	ok
1,1,1-trichloroethane	< 0.5	< 0.5	1,1,1-trichloroethane	83.3	70-130	ok	83.9	70-130	ok	0.78	<25	ok
1,1-dichloropropene	< 0.5	< 0.5	1,1-dichloropropene	93.5	70-130	ok	94.0	70-130	ok	0.54	<25	ok
carbon tetrachloride	< 0.5	< 0.5	carbon tetrachloride	81.9	70-130	ok	79.9	70-130	ok	2.50	<25	ok
1,2-dichloroethane	< 0.5	< 0.5	1,2-dichloroethane	81.2	70-130	ok	75.7	70-130	ok	7.06	<25	ok
benzene	< 0.5	< 0.5	benzene	102	70-130	ok	102	70-130	ok	0.65	<25	ok
tert-amyl methyl ether (TAME)	< 1.0	< 1.0	tert-amyl methyl ether (TAME)	87.6	70-130	ok	82.0	70-130	ok	6.61	<25	ok
trichloroethene	< 0.5	< 0.5	trichloroethene	84.0	70-130	ok	81.4	70-130	ok	3.17	<25	ok
1,2-dichloropropane	< 0.5	< 0.5	1,2-dichloropropane	102	80-120	ok	97.4	70-130	ok	4.77	<25	ok
bromodichloromethane	< 0.5	< 0.5	bromodichloromethane	85.4	70-130	ok	80.7	70-130	ok	5.62	<25	ok
1,4-Dioxane	< 50	< 50	1,4-Dioxane	99.3	70-130	ok	87.8	70-130	ok	12.3	<25	ok
dibromomethane	< 0.5	< 0.5	dibromomethane	80.7	70-130	ok	78.0	70-130	ok	3.40	<25	ok
4-methyl-2-pentanone	< 13	< 13	4-methyl-2-pentanone	99.7	70-130	ok	90.8	70-130	ok	9.30	<25	ok
cis-1,3-dichloropropene	< 0.5	< 0.5	cis-1,3-dichloropropene	89.2	70-130	ok	85.3	70-130	ok	4.41	<25	ok
toluene	< 0.5	< 0.5	toluene	97.7	80-120	ok	96.0	70-130	ok	1.70	<25	ok
trans-1,3-dichloropropene	< 1.0	< 1.0	trans-1,3-dichloropropene	84.3	70-130	ok	78.8	70-130	ok	6.66	<25	ok
1,1,2-trichloroethane	< 0.5	< 0.5	1,1,2-trichloroethane	86.1	70-130	ok	84.2	70-130	ok	2.24	<25	ok
2-hexanone	< 13	< 13	2-hexanone	96.5	70-130	ok	91.2	70-130	ok	5.65	<25	ok
1,3-dichloropropane	< 0.5	< 0.5	1,3-dichloropropane	92.8	70-130	ok	90.8	70-130	ok	2.22	<25	ok
tetrachloroethene	< 0.5	< 0.5	tetrachloroethene	79.8	70-130	ok	84.0	70-130	ok	5.20	<25	ok
dibromochloromethane	< 0.5	< 0.5	dibromochloromethane	75.3	70-130	ok	73.1	70-130	ok	2.99	<25	ok
1,2-dibromoethane (EDB)	< 1.0	< 1.0	1,2-dibromoethane (EDB)	84.2	70-130	ok	81.3	70-130	ok	3.61	<25	ok
chlorobenzene	< 0.5	< 0.5	chlorobenzene	83.2	70-130	ok	86.1	70-130	ok	3.38	<25	ok
1,1,1,2-tetrachloroethane	< 0.5	< 0.5	1,1,1,2-tetrachloroethane	76.3	70-130	ok	77.8	70-130	ok	1.86	<25	ok
ethylbenzene	< 0.5	< 0.5	ethylbenzene	89.7	80-120	ok	91.8	70-130	ok	2.31	<25	ok
1,1,2,2-tetrachloroethane	< 0.5	< 0.5	1,1,2,2-tetrachloroethane	96.2	70-130	ok	92.0	70-130	ok	4.51	<25	ok
m&p-xylene	< 1.0	< 1.0	m&p-xylene	91.1	70-130	ok	92.4	70-130	ok	1.42	<25	ok
o-xylene	< 0.5	< 0.5	o-xylene	111	70-130	ok	112	70-130	ok	0.65	<25	ok
styrene	< 0.5	< 0.5	styrene	109	70-130	ok	109	70-130	ok	0.44	<25	ok
bromoform	< 1.0	< 1.0	bromoform	95.3	70-130	ok	88.5	70-130	ok	7.37	<25	ok
isopropylbenzene	< 0.5	< 0.5	isopropylbenzene	127	70-130	ok	129	70-130	ok	1.31	<25	ok
1,2,3-trichloropropane	< 0.5	< 0.5	1,2,3-trichloropropane	97.1	70-130	ok	95.9	70-130	ok	1.21	<25	ok
bromobenzene	< 0.5	< 0.5	bromobenzene	96.5	70-130	ok	94.1	70-130	ok	2.55	<25	ok
n-propylbenzene	< 0.5	< 0.5	n-propylbenzene	123	70-130	ok	121	70-130	ok	1.02	<25	ok
2-chlorotoluene	< 0.5	< 0.5	2-chlorotoluene	115	70-130	ok	115	70-130	ok	0.50	<25	ok
1,3,5-trimethylbenzene	< 0.5	< 0.5	1,3,5-trimethylbenzene	111	70-130	ok	110	70-130	ok	0.48	<25	ok
trans-1,4-dichloro-2-butene	< 1.0	< 1.0	trans-1,4-dichloro-2-butene	103	70-130	ok	92.7	70-130	ok	10.9	<25	ok
4-chlorotoluene	< 0.5	< 0.5	4-chlorotoluene	114	70-130	ok	113	70-130	ok	1.62	<25	ok
tert-butyl-benzene	< 0.5	< 0.5	tert-butyl-benzene	96.7	70-130	ok	97.6	70-130	ok	0.85	<25	ok
1,2,4-trimethylbenzene	< 0.5	< 0.5	1,2,4-trimethylbenzene	109	70-130	ok	108	70-130	ok	0.54	<25	ok
sec-butyl-benzene	< 0.5	< 0.5	sec-butyl-benzene	108	70-130	ok	108	70-130	ok	0.11	<25	ok
p-isopropyltoluene	< 0.5	< 0.5	p-isopropyltoluene	101	70-130	ok	102	70-130	ok	1.15	<25	ok
1,3-dichlorobenzene	< 0.5	< 0.5	1,3-dichlorobenzene	98.4	70-130	ok	97.4	70-130	ok	1.02	<25	ok
1,4-dichlorobenzene	< 0.5	< 0.5	1,4-dichlorobenzene	97.9	70-130	ok	95.6	70-130	ok	2.36	<25	ok
n-butylbenzene	< 0.5	< 0.5	n-butylbenzene	115	70-130	ok	116	70-130	ok	1.07	<25	ok
1,2-dichlorobenzene	< 0.5	< 0.5	1,2-dichlorobenzene	95.0	70-130	ok	92.6	70-130	ok	2.57	<25	ok
1,2-dibromo-3-chloropropane	< 2.5	< 2.5	1,2-dibromo-3-chloropropane	86.7	70-130	ok	82.4	70-130	ok	5.07	<25	ok
1,3,5-trichlorobenzene	< 0.5	< 0.5	1,3,5-trichlorobenzene	103	70-130	ok	103	70-130	ok	0.44	<25	ok
1,2,4-trichlorobenzene	< 0.5	< 0.5	1,2,4-trichlorobenzene	106	70-130	ok	104	70-130	ok	2.10	<25	ok
hexachlorobutadiene	< 0.5	< 0.5	hexachlorobutadiene	108	70-130	ok	109	70-130	ok	0.82	<25	ok
naphthalene	< 1.0	< 1.0	naphthalene	87.5	70-130	ok	83.4	70-130	ok	4.79	<25	ok
1,2,3-trichlorobenzene	< 0.5	< 0.5	1,2,3-trichlorobenzene	96.6	70-130	ok	93.8	70-130	ok	2.90	<25	ok

Surrogates:	Recovery (%)	Acceptance Limits	Surrogates:	Recovery (%)	Acceptance Limits	Verdict	Recovery (%)	Acceptance Limits	Verdict	RPD	Acceptance Limits	Verdict
DIBROMOFLUOROMETHANE	90.9	70-130	DIBROMOFLUOROMETHANE	89.6	70-130	ok	88.2	70-130	ok	1.50	<25	ok
1,2-DICHLOROETHANE-D4	93.7	70-130	1,2-DICHLOROETHANE-D4	91.1	70-130	ok	91.7	70-130	ok	0.67	<25	ok
TOLUENE-D8	101	70-130	TOLUENE-D8	100	70-130	ok	98.1	70-130	ok	2.38	<25	ok
4-BROMOFLUOROBENZENE	102	70-130	4-BROMOFLUOROBENZENE	109	70-130	ok	105	70-130	ok	3.10	<25	ok
1,2-DICHLOROBENZENE-D4	98.0	70-130	1,2-DICHLOROBENZENE-D4	103	70-130	ok	98.2	70-130	ok	4.30	<25	ok

Instrument: HP GC/MS "S"

CHAIN-OF-CUSTODY RECORD

W.O. # 0907-0067 (for lab use only)

Sample I.D.	Date/Time Sampled	Matrix (A=Air, S=Soil, GW=Ground W., SW=Surface W., WW=Waste W., DW=Drinking W., P=Product, Other (specify))	pH	Cond.	GC Methane, Ethane, Ethene	EPA 8260	EPA 8260 – 8010 List (Chlori)	EPA 8260 – 8021 list	EPA 8021 – 8020 List (BTEX)	EPA 524.2 DW VOCs	EPA 624 WW VOCs	601 602 WW VOCs	EPA 8270 FULL SVOCs	EPA 8270 PAH A BN	EPA 625 WW SVOCs	EPA 8082-PCBs	EPA 8081-Pest	TPH-GC (Mod. 8100)	TPH-GC w/FING.	EPH (MA DEP)	VPH (MA DEP)	Metals PPM-13 R-8	MCP 14 Metals (MA)	Metals (List Below)**	TCLP – Specify Below	SPLP – Specify Below	EPA 300 Cl SO4	EPA 300 NO2 NO3	Total # of Cont.	Note #
GZ-7	7-8-09 1046	GW				X																							3	
GP-26	7-8-09 0950					X																							3	
GZ-3	7-8-09 0940					X																							3	
GP 28	7-8-09 1120					X																							3	
RIZ 5	7-8-09 1144					X																							3	
~~GP20~~ GZ20	7-8-09 1333					X																							3	
GZ 19	7-8-09 1325					X																							3	
GZ-23	7-8-09 1245					X																							3	
GZ-21	7-8-09 0904					X																							3	
GZ-22	7-8-09 1555					X																							3	
RIZ-13	7-9-09 ~~1349~~ 1447					X																							3	
RIZ-7	7-8-09 1457					X																							3	
~~Trip Blank~~						a																								
PRESERVATIVE (C - HCL, M=Methanol, N - HNO3, S - H2SO4, Na - NaOH, O - Other)*																														
CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, T-Teflon, O-Other)*						V																								

RELINQUISHED BY: (AFFILIATION) DATE/TIME RECEIVED BY: (AFFILIATION)

DMS 7-10-09 mid 7/10/09

RELINQUISHED BY: (AFFILIATION) DATE/TIME RECEIVED BY: (AFFILIATION)

Mid 7/10/09 1245 [illegible] 7/10/09 1515

RELINQUISHED BY: (AFFILIATION) DATE/TIME RECEIVED BY: (AFFILIATION)

NOTES: (Unless otherwise noted, all samples have been refrigerated to 4° C)
*Specify "Other" preservatives and containers types in this space.

Please send receipt + report to (Angela + Steve Andrus

PROJECT MANAGER: Angela Harvey EXT: 2739

TURNAROUND TIME: (Standard) Rush ___ Days, Approved by ___

LAB USE: TEMP. OF COOLER 4.0 °C Temp Blank ___ Cooler Air 0908

7/10 20 03:00

GZA FILE NO: 32745.29 TASK NO: ___ P.O. NO. ___

PROJECT Charbent ICMP

LOCATION Alton RI

COLLECTOR(S) Angela Harvey @ gza.com SHEET 1 OF 2

GZA GeoEnvironmental, Inc.
Labaratory Division

106 South Street
Hopkinton, MA 01748
(781) 278-4700
FAX (508) 435-9912

CHAIN-OF-CUSTODY RECORD

W.O. # 0907-00067
(for lab use only)

Sample I.D.	Date/Time Sampled	Matrix (A=Air, S=Soil, GW=Ground W., SW=Surface W., WW=Waste W., DW=Drinking W., P=Product, Other (specify))	ANALYSIS REQUIRED: pH ⌟ Cond.	GC Methane, Ethane, Ethene	EPA 8260	EPA 8260 – 8010 List (Chlor.)	EPA 8260 – 8021 list	EPA 8021 – 8020 List (BTEX)	EPA 524.2 DW VOCs	EPA 624 WW VOCs	601 ⌟ 602 WW VOCs	EPA 8270 FULL SVOCs	EPA 8270 ⌟ PAH ⌟ A ⌟ BN	EPA 625 WW SVOCs	EPA 8082–PCBs	EPA 8081–Pest	TPH–GC (Mod. 8100)	TPH–GC w/FING.	EPH (MA DEP)	VPH (MA DEP)	Metals ⌟ PPM-13 ⌟ R-8	MCP 14 Metals (MA)	Metals (List Below)**	TCLP – Specify Below	SPLP – Specify Below	EPA 300 ⌟ Cl ⌟ SO4	EPA 300 ⌟ NO2 ⌟ NO3						Total # of Cont.	Note #
GZ-100	7-8-09 1333	GW			X																													3	
Trip Blank					X																													3	
PRESERVATIVE (Cl - HCl, M=Methanol, N - HNO3, S - H2SO4, Na - NaOH, O - Other)*					J																														
CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, T-Teflon, O-Other)*					V																														

RELINQUISHED BY: (AFFILIATION) DATE/TIME RECEIVED BY: (AFFILIATION)
AMA 7-10-09 Mid 7/10/09

RELINQUISHED BY: (AFFILIATION) DATE/TIME RECEIVED BY: (AFFILIATION)
Mid 7/10/09 1215 7/10/09 1515

RELINQUISHED BY: (AFFILIATION) DATE/TIME RECEIVED BY: (AFFILIATION)

NOTES: (Unless otherwise noted, all samples have been refrigerated to 4° C)
*Specify "Other" preservatives and containers types in this space.

PROJECT MANAGER: Angela Harvey EXT: 2739

TURNAROUND TIME: (Standard) Rush___ Days, Approved by _____

LAB USE: TEMP. OF COOLER 4.0 °C Temp Blank 0908 Cooler Air ____

7/10 03:00

GZA FILE NO: 32795.29 TASK NO: _____ P.O. NO. _____

PROJECT Chelsea ICMP

LOCATION Alton RI

COLLECTOR(S) Angela Harvey@GZA.com SHEET 2 OF 2

GZA GeoEnvironmental, Inc.
Labaratory Division

106 South Street
Hopkinton, MA 01748
(781) 278-4700
FAX (508) 435-9912

APPENDIX C

MONTHLY AS/SVE SYSTEM MONITORING DATA

Name: Angela Harvey
Date: 4/24/2009
Hour meter: 11065.4

TABLE 1

INTERIOR SVE SYSTEM
Charbert Facility
Alton, Rhode Island

Location	Order	TVOC (ppm)	O2 (%)	CO2 (%)	CH4 (%)	LEL (%)	Vacuum (in.)	Diff Pressure (in of water)	Flow (ft^3/min)	Notes:
SVE-1	16	2.7	20.6	0.1	0.0	0	2.1	0.019	7.6	
SVE-2	17	3.4	20.6	0.0	0.0	0	2.7	0.018	7.4	
SVE-3	18	3.0	20.6	0.0	0.0	0	1.8	0.020	7.8	
SVE-4	13	3.9	20.6	0.1	0.0	0	1.2	0.019	7.0	
SVE-5	14	3.1	20.6	0.1	0.0	0	3.0	0.009	5.2	Valve fully open.
SVE-6	15	3	20.6	0.0	0.0	0	2.2	0.020	7.8	
SVE-7	10	2.8	20.7	0.1	0.0	0	3.2	0.019	7.6	
SVE-8	11	2.7	20.6	0.1	0.0	0	3.2	0.019	7.6	
SVE-9	12	3	20.6	0.1	0.0	0	1.4	0.019	7.6	
SVE-10	7	2.5	20.8	0.1	0.0	0	2.2	0.019	7.6	
SVE-11	8	2.7	20.5	0.1	0.0	0	2.5	0.019	7.6	
SVE-12	9	2.8	20.7	0.0	0.0	0	3.8	0.021	7.9	
SVE-13	22	3.6	20.7	0.0	0.0	0	2.0	0.019	7.6	
SVE-14	23	4	20.7	0.0	0.0	0	2.0	0.020	7.8	
SVE-15	4	3.6	20.7	0.1	0.0	0	0.7	0.018	7.4	
SVE-16	3	3	20.8	0.0	0.0	0	2.5	0.019	7.6	
SSVW-1	19	2.7	20.7	0.0	0.0	0	0.8	0.020	7.8	
SSVW-2	20	2.7	20.6	0.0	0.0	0	1.5	0.020	7.8	
SSVW-3	21	2.8	20.6	0.0	0.0	0	1.4	0.019	7.6	
SSVW-4	6	2.1	20.6	0.0	0.0	0	1.0	0.020	7.8	
SSVW-5	5	1.9	20.7	0.1	0.0	0	1.0	0.018	7.4	
SSVW-6	2	1.3	20.7	0.0	0.0	0	0.2	0.020	7.8	
SSVW-7	1	2.9	20.7	0.1	0.0	0	1.5	0.019	7.6	
Combine (BD)		2.7	20.7	0.0	0.0	0	9.1	--	--	
Combine (DH)		--	--	--	--	--	18.0	--	--	
Combine (AD)		--	--	--	--	--	24.1	--	--	
Combine (AB)		--	--	--	--	--	19.2	--	155.0	
Effluent 1st drum		3.7	--	--	--	--	--	--	--	
Effluent 2nd drum		3.3	--	--	--	--	--	--	--	

Combined 155 scfm per 23 wells = 6.8 scfm per well = 0.019 inches DP per well.

Baselines: Landtec: O2 = 20.6, CO2 = 0.0, CH4 = 0, LEL = 0.0%
OVM: 98.6 ppmv

Name: Angela Harvey
Date: 4/24/2009
Hour meter: 10501.5

TABLE 2

EXTERIOR SVE SYSTEM
Charbert Facility
Alton, Rhode Island

Location	Order	TVOC (ppm)	O2 (%)	CO2 (%)	CH4 (%)	LEL (%)	Vacuum (in.)	Diff Pressure (in of water)	Flow (ft^3/min)	Notes:
SVE-17	1	0.7	20.4	0.1	0.0	0	NM	0.012	6.0	
SVE-18	2	4.5	20.2	0.1	0.0	0	NM	0.004	4.0	Valve fully open.
SVE-19	3	6.8	20.1	0.2	0.0	0	NM	0.000	7.1*	Valve fully open.
SVE-20	4	4.3	20.0	0.1	0.0	0	NM	0.013	6.2	
SVE-21	5	3.6	19.5	0.1	0.0	0	NM	0.000	7.1*	Valve fully open.
SVE-22	6	9.4	19.6	0.1	0.0	0	NM	0.006	4.6	
SVE-23	7	5.7	19.7	0.1	0.0	0	NM	0.010	5.6	Valve fully open.
SVE-24	8	4.5	19.9	0.1	0.0	0	NM	0.014	6.4	
SVE-25	9	2.5	19.9	0.1	0.0	0	NM	0.004	4.0	Valve fully open.
SVE-26	10	2.1	20.0	0.1	0.0	0	NM	0.012	6.0	
SVE-27	11	3.2	20.1	0.1	0.0	0	NM	0.013	6.2	
SVE-28	12	1.9	20.1	0.0	0.0	0	NM	0.010	5.6	Valve fully open.
SVE-29	13	2.1	20.3	0.1	0.0	0	NM	0.004	4.0	Valve fully open.
SVE-30	14	2.4	20.3	0.1	0.0	0	NM	0.000	7.1*	Valve fully open.
Combine (BD)		3.9	20.7	0.1	0.0	0	8.1	--	--	
Combine (DH)		--	--	--	--	--	10.0	--	--	
Combine (AD)		--	--	--	--	--	17.5	--	--	
Combine (AB)		--	--	--	--	--	5.2	--	80	
Effluent 1st drum		5.0	--	--	--	--	--	--	--	
Effluent 2nd drum		1.2	--	--	--	--	--	--	--	

Combined 80 scfm per 14 wells = 5.714 scfm per well = 0.0.012 inches DP per well.
*Estimated flow rate
NM = Not measured due to equipment failure.

Name: Angela Harvey
Date: 4/24/2009

TABLE 3

INTERIOR AS SYSTEM

Charbert Facility
Alton, Rhode Island

Location	Pressure (psi)	Diff Pressure (in of water)	Flow (ft^3/min)	Notes:
AS-1	15	1.7	2.0	
AS-2		1.6	2.1	
AS-3		1.8	2.1	
AS-4	16	1.5	2.1	
AS-5		1.5	2.1	
AS-6		1.5	2.1	
AS-7	16	1.6	2.2	
AS-8		1.6	2.2	
AS-9		1.6	2.2	
AS-10	15	1.6	2.2	
AS-11		1.6	2.2	
AS-12		1.8	2.3	
AS-13	16	1.7	2.2	
AS-14		1.6	2.2	
AS-15	16	1.6	2.2	
AS-16	16	1.5	2.1	
Combine	19	7.7	32	

Combined 7.7 inches DP @ 19 psi = 32 scfm per 16 wells = 2 scfm per well = 1.6 inches DP per well.

Name: Angela Harvey
Date: 4/24/2009

TABLE 4

EXTERIOR AS SYSTEM

Charbert Facility
Alton, Rhode Island

Location	Pressure (psi)	Diff Pressure (in of water)	Flow (ft^3/min)	Notes:
AS-17	14	1.9	2.3	
AS-18		2.0	2.3	
AS-19		1.9	2.3	
AS-20		2.1	2.4	
AS-21	12	2.0	2.3	
AS-22		2.0	2.3	
AS-23		2.1	2.3	
AS-24		2.2	2.4	
AS-25		2.1	2.3	
AS-26	13	2.0	2.3	
AS-27		2.1	2.3	
AS-28		1.9	2.2	
AS-29		2.1	2.3	
AS-30		1.9	2.2	
Combine	18	10.6	34	

Combined 10.6 inches DP @ 18 psi = 34 scfm per 14 wells = 2.42 scfm per well = 2.0 inches DP per well.

Name: Angela Harvey
Date: 5/22/2009
Hour meter: 11737

TABLE 1

INTERIOR SVE SYSTEM
Charbert Facility
Alton, Rhode Island

Location	Order	TVOC (ppm)	O2 (%)	CO2 (%)	CH4 (%)	LEL (%)	Vacuum (in.)	Diff Pressure (in of water)	Flow (ft^3/min)	Notes:
SVE-1	16	1.5	20.0	0.0	0.0	0	1.8	0.019	7.6	
SVE-2	17	2.0	20.0	0.0	0.0	0	1.0	0.022	7.9	
SVE-3	18	1.9	20.1	0.0	0.0	0	1.8	0.020	7.8	
SVE-4	13	1.6	19.8	0.0	0.0	0	1.2	0.018	7.4	
SVE-5	14	2.1	20.8	0.0	0.0	0	3.5	0.014	6.4	Valve fully open.
SVE-6	15	1.9	19.8	0.0	0.0	0	2.2	0.019	7.6	
SVE-7	10	1.2	19.7	0.0	0.0	0	2.99	0.020	7.8	
SVE-8	11	1.2	19.6	0.0	0.0	0	3.0	0.020	7.8	
SVE-9	12	1.0	19.7	0.0	0.0	0	1.38	0.020	7.8	
SVE-10	7	1.2	20.7	0.0	0.0	0	2.6	0.020	7.8	
SVE-11	8	1.3	19.6	0.1	0.0	0	2.2	0.021	7.9	
SVE-12	9	1.3	19.7	0.0	0.0	0	3.7	0.020	7.8	
SVE-13	22	0.3	19.4	0.0	0.0	0	2.1	0.020	7.8	
SVE-14	23	0.1	19.6	0.1	0.0	0	2.1	0.018	7.4	
SVE-15	4	1.9	19.7	0.0	0.0	0	0.9	0.018	7.4	
SVE-16	3	1.8	20.3	0.0	0.0	0	2.0	0.019	7.6	
SSVW-1	19	0.7	20.3	0.0	0.0	0	0.8	0.020	7.8	
SSVW-2	20	0.3	20.1	0.0	0.0	0	1.8	0.019	7.6	
SSVW-3	21	1.1	20.1	0.0	0.0	0	0.4	0.020	7.8	
SSVW-4	6	0.9	20.2	0.0	0.0	0	1.6	0.020	7.8	
SSVW-5	5	0.5	19.7	0.0	0.0	0	1.1	0.020	7.8	
SSVW-6	2	1.9	19.7	0.0	0.0	0	0.2	0.020	7.8	
SSVW-7	1	0.8	20.2	0.0	0.0	0	0.3	0.020	7.8	
Combine (BD)		1.2	19.5	0.0	0.0	0	20.2	--	--	
Combine (DH)		--	--	--	--	--	20.0	--	--	
Combine (AD)		--	--	--	--	--	45.2	--	--	
Combine (AB)		--	--	--	--	--	1.8	--	155.0	
Effluent 1st drum		1.6	--	--	--	--	--	--	--	
Effluent 2nd drum		6.9	--	--	--	--	--	--	--	

Combined 155 scfm per 23 wells = 6.8 scfm per well = 0.019 inches DP per well.

Baselines: Landtec: O2 = 20.6, CO2 = 0.0, CH4 = 0, LEL = 0.0%
OVM: 99.4 ppmv

Name: Angela Harvey
Date: 5/22/2009
Hour meter: 11173

TABLE 2

EXTERIOR SVE SYSTEM
Charbert Facility
Alton, Rhode Island

Location	Order	TVOC (ppm)	O2 (%)	CO2 (%)	CH4 (%)	LEL (%)	Vacuum (in.)	Diff Pressure (in of water)	Flow (ft^3/min)	Notes:
SVE-17	1	2.2	20.3	0.2	0.0	0	1.7	0.010	5.6	
SVE-18	2	2.3	19.9	0.2	0.0	0	2.7	0.000	4.6*	Valve fully open.
SVE-19	3	2.3	19.9	0.3	0.0	0	2.6	0.000	4.6*	Valve fully open.
SVE-20	4	2.2	19.8	0.2	0.0	0	2.7	0.010	5.6	
SVE-21	5	1.2	19.6	0.1	0.0	0	2.4	0.000	4.6*	Valve fully open.
SVE-22	6	2.2	19.4	0.2	0.0	0	2.3	0.000	4.6*	Valve fully open.
SVE-23	7	2.8	19.4	0.1	0.0	0	2.2	0.010	5.6	
SVE-24	8	2.2	19.2	0.0	0.0	0	2.2	0.009	5.2	
SVE-25	9	0.1	19.3	0.1	0.0	0	0.9	0.000	4.6*	
SVE-26	10	1.2	19.3	0.2	0.0	0	0.6	0.010	5.6	
SVE-27	11	1.0	19.3	0.1	0.0	0	1.4	0.010	5.6	
SVE-28	12	0.9	19.5	0.1	0.0	0	2.0	0.000	4.6*	Valve fully open.
SVE-29	13	0.8	19.4	0.1	0.0	0	2.0	0.000	4.6*	Valve fully open.
SVE-30	14	0.8	19.5	0.1	0.0	0	2.3	0.000	4.6*	Valve fully open.
Combine (BD)		2.8	19.5	0.1	0.0	0	3.8	--	--	
Combine (DH)		--	--	--	--	--	20.0	--	--	
Combine (AD)		--	--	--	--	--	13.7	--	--	
Combine (AB)		--	--	--	--	--	4.8	--	80	
Effluent 1st drum		2.3	--	--	--	--	--	--	--	
Effluent 2nd drum		5.3	--	--	--	--	--	--	--	

Combined 80 scfm per 16 wells = 5 scfm per well = 0.0.009 inches DP per well.
*Estimated flow rate

Name: Angela Harvey
Date: 5/22/09

TABLE 3

INTERIOR AS SYSTEM

Charbert Facility
Alton, Rhode Island

Location	Pressure (psi)	Diff Pressure (in of water)	Flow (ft^3/min)	Notes:
AS-1	15	NM		
AS-2		NM		
AS-3		NM		
AS-4	16	NM		
AS-5		NM		
AS-6		NM		
AS-7	16	NM		
AS-8		NM		
AS-9		NM		
AS-10	14	NM		
AS-11		NM		
AS-12		NM		
AS-13	14	NM		
AS-14		NM		
AS-15	14	NM		
AS-16	14	NM		
Combine	19	7.6	32	

Combined 7.6 inches DP @ 19 psi = 32 scfm per 16 wells = 2 scfm per well = 1.6 inches DP per well.
NM = Not measured due to equipment malfunction.

Name: Angela Harvey
Date: 5/22/2009

TABLE 4

EXTERIOR AS SYSTEM

Charbert Facility
Alton, Rhode Island

Location	Pressure (psi)	Diff Pressure (in of water)	Flow (ft^3/min)	Notes:
AS-17	14	2.1	2.4	
AS-18		2.2	2.4	
AS-19		2.0	2.3	
AS-20		1.9	2.3	
AS-21	14	1.9	2.3	
AS-22		2.2	2.4	
AS-23		2.1	2.4	
AS-24		2.0	2.3	
AS-25		2.0	2.3	
AS-26	13	2.1	2.3	
AS-27		2.0	2.3	
AS-28		2.0	2.3	
AS-29		2.1	2.3	
AS-30		2.0	2.3	
Combine	18	10.5	34	

Combined 10.5 inches DP @ 18 psi = 34 scfm per 14 wells = 2.42 scfm per well = 2.0 inches DP per well.

Name: Angela Harvey
Date: 6/30/2009
Hour meter: 12673

TABLE 1

INTERIOR SVE SYSTEM
Charbert Facility
Alton, Rhode Island

Location	Order	TVOC (ppm)	O2 (%)	CO2 (%)	CH4 (%)	LEL (%)	Vacuum (in.)	Diff Pressure (in of water)	Flow (ft^3/min)	Notes:
SVE-1	16	NM	20.1	0.0	0.0	0	1.8	0.020	7.8	
SVE-2	17	NM	20.2	0.0	0.0	0	2.6	0.017	7.2	
SVE-3	18	NM	20.1	0.0	0.0	0	2.0	0.021	7.9	
SVE-4	13	NM	20.1	0.1	0.0	0	1.3	0.019	7.6	
SVE-5	14	NM	20.0	0.0	0.0	0	2.9	0.004	3.4	Valve fully open.
SVE-6	15	NM	20.1	0.0	0.0	0	2.4	0.021	7.9	
SVE-7	10	NM	20.3	0.0	0.0	0	3.1	0.017	7.2	
SVE-8	11	NM	20.1	0.0	0.0	0	3.0	0.018	7.4	
SVE-9	12	NM	20.2	0.0	0.0	0	2.48	0.018	7.4	
SVE-10	7	NM	20.3	0.0	0.0	0	1.4	0.017	7.2	
SVE-11	8	NM	20.2	0.1	0.0	0	3.3	0.019	7.6	
SVE-12	9	NM	20.3	0.0	0.0	0	1.9	0.018	7.4	
SVE-13	22	NM	20.0	0.0	0.0	0	1.9	0.018	7.4	
SVE-14	23	NM	20.1	0.0	0.0	0	2.3	0.018	7.4	
SVE-15	4	NM	19.4	0.0	0.0	0	0.9	0.019	7.6	
SVE-16	3	NM	20.0	0.0	0.0	0	1.9	0.017	7.2	
SSVW-1	19	NM	19.9	0.0	0.0	0	1.0	0.019	7.6	
SSVW-2	20	NM	19.9	0.0	0.0	0	2.5	0.019	7.6	
SSVW-3	21	NM	20.1	0.0	0.0	0	1.4	0.020	7.8	
SSVW-4	6	NM	20.1	0.0	0.0	0	1.8	0.020	7.8	
SSVW-5	5	NM	20.0	0.0	0.0	0	0.3	0.018	7.4	
SSVW-6	2	NM	20.4	0.0	0.0	0	1.3	0.017	7.2	
SSVW-7	1	NM	20.4	0.0	0.0	0	0.2	0.017	7.2	
Combine (BD)		NM	20.3	0.0	0.0	0	1.1	--	--	
Combine (DH)		--	--	--	--	--	20.0	--	--	
Combine (AD)		--	--	--	--	--	25.7	--	--	
Combine (AB)		--	--	--	--	--	17.2	--	155.0	
Effluent 1st drum		NM	--	--	--	--	--	--	--	
Effluent 2nd drum		NM	--	--	--	--	--	--	--	

Combined 155 scfm per 23 wells = 6.8 scfm per well = 0.019 inches DP per well.

Baselines: Landtec: O2 = 20.1, CO2 = 0.0, CH4 = 0, LEL = 0.0%
OVM: 93.2 ppmv

Name: Angela Harvey
Date: June 30, 2009
Hour meter: 12109

TABLE 2

EXTERIOR SVE SYSTEM
Charbert Facility
Alton, Rhode Island

Location	Order	TVOC (ppm)	O2 (%)	CO2 (%)	CH4 (%)	LEL (%)	Vacuum (in.)	Diff Pressure (in of water)	Flow (ft^3/min)	Notes:
SVE-17	1	1.8	18.8	0.3	0.0	0	1.9	0.009	5.2	
SVE-18	2	2.6	18.6	0.4	0.0	0	2.4	0.006	4.4	Valve fully open.
SVE-19	3	3.6	18.4	0.6	0.0	0	2.4	0.003	0.3	Valve fully open.
SVE-20	4	1.7	18.8	0.3	0.0	0	2.4	0.010	5.6	
SVE-21	5	0.7	18.6	0.2	0.0	0	2.1	0.008	5.0	Valve fully open.
SVE-22	6	9.6	18.4	0.3	0.0	0	2.0		7.8*	Valve fully open.
SVE-23	7	2.5	18.4	0.3	0.0	0	2.1	0.005	3.9	Valve fully open.
SVE-24	8	2.4	18.5	0.2	0.0	0	1.4	0.008	5.0	
SVE-25	9	1.4	18.3	0.2	0.0	0	2.1		7.8*	Valve fully open.
SVE-26	10	1.7	18.2	0.2	0.0	0	0.4	0.012	5.9	
SVE-27	11	1.3	18.1	0.1	0.0	0	1.7	0.010	5.6	
SVE-28	12	1.4	18.1	0.1	0.0	0	2.1	0.012	5.9	
SVE-29	13	1.5	18.1	0.1	0.0	0	1.9	0.009	5.2	Valve fully open.
SVE-30	14	1.7	18.0	0.0	0.0	0	1.9	0.006	4.4	Valve fully open.
Combine (BD)		1.0	20.2	0.2	0.0	0	5.8	--	--	
Combine (DH)		--	--	--	--	--	8.0	--	--	
Combine (AD)		--	--	--	--	--	14.5	--	--	
Combine (AB)		--	--	--	--	--	14.9	--	80	
Effluent 1st drum		9.8	--	--	--	--	--	--	--	
Effluent 2nd drum		1.0	--	--	--	--	--	--	--	

Combined 80 scfm per 16 wells = 5 scfm per well = 0.009 inches DP per well.
*Estimated flow rate

Name: Angela Harvey
Date: 6/30/09

TABLE 3

INTERIOR AS SYSTEM

Charbert Facility
Alton, Rhode Island

Location	Pressure (psi)	Diff Pressure (in of water)	Flow (ft^3/min)	Notes:
AS-1	14	1.3	1.8	
AS-2		1.3	1.8	
AS-3		1.2	1.8	
AS-4	14	1.3	1.8	
AS-5		1.2	1.8	
AS-6		1.4	2.0	
AS-7	14	1.2	1.8	
AS-8		1.2	1.8	
AS-9		1.2	1.8	
AS-10	14	1.1	1.7	
AS-11		1.3	1.8	
AS-12		1.4	2.0	
AS-13	16	1.1	1.8	
AS-14		1.3	2	
AS-15	14	1.2	2.0	
AS-16	14	1.4	2.1	
Combine	19	6.8	27	

Combined 6.8 inches DP @ 19 psi = 27 scfm per 16 wells = 1.7 scfm per well = 1.3 inches DP per well.

Name: Angela Harvey
Date: 6/30/09

TABLE 4

EXTERIOR AS SYSTEM

Charbert Facility
Alton, Rhode Island

Location	Pressure (psi)	Diff Pressure (in of water)	Flow (ft^3/min)	Notes:
AS-17	17	1.7	2.3	
AS-18		1.9	2.4	
AS-19		1.8	2.4	
AS-20		1.8	2.4	
AS-21	12	1.9	2.2	
AS-22		2.0	2.3	
AS-23		1.7	2.1	
AS-24		1.8	2.2	
AS-25		1.8	2.2	
AS-26	14	1.8	2.3	
AS-27		1.7	2.2	
AS-28		1.8	2.3	
AS-29		1.7	2.2	
AS-30		1.9	2.3	
Combine	18	6.4	30	

Combined 6.4 inches DP @ 18 psi = 30 scfm per 14 wells = 2.14 scfm per well = 1.8 inches DP per well.

APPENDIX D

SECOND QUARTER 2009 UIC REPORT

GZA
GeoEnvironmental, Inc.

Engineers and Scientists

July 2, 2009
File No. 32795.33

Mr. Craig Roy
Senior Environmental Scientist
RI Department of Environmental Management
Office of Water Resources
235 Promenade Street
Providence, Rhode Island 02908

Re: Second Quarter 2009 UIC Monitoring Report
Charbert, Division of N.F.A.
Richmond, Rhode Island
(UIC Order of Approval # 1108)

530 Broadway
Providence
Rhode Island
02909
401-421-4140
FAX 401-751-8613
www.gza.net

Dear Mr. Roy:

This letter with attachments serves as the second Quarterly UIC Monitoring Report of 2009, in compliance with the above referenced UIC Order of Approval for the Charbert facility located at 299 Church Street in Richmond (Alton), Rhode Island. It was prepared by GZA GeoEnvironmental, Inc., on behalf of our client Charbert, a Division of N.F.A. As you are aware, the Charbert facility stopped production in late February of 2008. Thus, there is no wastewater to sample in the pump house and no wastewater volume to report. This report includes the following information:

- Analytical test results from the six monitoring wells (designated MW-1A, MW-2A, MW-3, MW-4A, MW-5B and MW-6), which were analyzed for total and dissolved chromium, volatile organic compounds (VOCs), the semi-volatile organic compound bis(2-Ethylhexyl) phthalate, and total petroleum hydrocarbons (TPH). The detected analytes have been summarized and compared to RIDEM's GA Groundwater Objectives and Groundwater Quality Preventative Action Limits (PALs) in Table 1, attached.
- Disposal system usage and monitoring well maintenance activities are summarized in Table 2.
- Static groundwater elevation measurements and field screening logs for each monitoring well are provided in Attachment A.
- Laboratory Certificates of Analysis are provided in Attachment B.

The groundwater results have been compared to the applicable groundwater standards for Rhode Island and there are no VOC, SVOC, TPH or chromium exceedances.

We trust that this information fulfills your present needs. If you have any questions please call Angela Harvey or Edward Summerly at (401) 421-4140.

Very truly yours,

GZA GEOENVIRONMENTAL, INC.

Angela L. Harvey, E.I.T.
Project Engineer

Stephen Andrus, E.I.T.
Assistant Project Manager

Edward A. Summerly, P.G.
Principal

EAS/ALH:mac

CC: Tracy Nelson Hay, Richmond Town Clerk
Clark Memorial Library – Charbert Repository

Attachments: Tables - Table 1 Detected Constituents
Table 2 Lagoon Influent Schedule and Maintenance Schedules
Attachment A - Low Flow Sampling Logs
Attachment B - Laboratory Certificates of Analysis

TABLES

TABLE 1
UIC MONITORING DETECTED CONSTITUENTS
JUNE 2009

Charbert Facility
Richmond, Rhode Island

	RIDEM GA Groundwater Objectives	RIDEM Groundwater Quality PALs	UNITS	MW-1A (GP-29)		MW-2A		MW-3 (RIZ-15)		MW-4A		MW-5B (GP-30)		MW-6 (RIZ-20)	
				12/02/2008		12/02/2008		12/02/2008		12/02/2008		12/02/2008		12/02/2008	
				Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit
VOLATILE ORGANICS:															
Acetone	NS	NS	ug/L (ppb)	<	25	<	25	<	25	<	25	<	25	<	25
SEMI-VOLATILE ORGANICS:															
bis(2-Ethylhexyl)Phthalate	NS	NS	ug/L (ppb)	<	10	<	10	<	10	<	10	<	10.0	<	10.0
TOTAL PETROLEUM HYDROCARBONS:															
Hydrocarbon Content	NS	NS	ug/L (ppb)	**360**	200	**3700**	200	**300**	200	**2800**	200	<	200	<	200
TOTAL METALS:															
Chromium	100	50	ug/L (ppb)	**19**	5	**10**	5	<	5	**11**	5	<	5	<	5
DISSOLVED METALS:															
Chromium	NS	NS	ug/L (ppb)	**14.0**	5	**7.9**	5	<	5	**9.5**	5	<	5	<	5

PAL = RIDEMs Preventative Action Limit
DETECTED ANALYTES ARE IN BOLD AND HIGHLIGHTED
< = NOT DETECTED
NT = NOT TESTED
NS = NO STANDARD

INDICATES DETECTED CONSTITUANT

INDICATES RIDEM GA EXCEEDANCE

INDICATES RIDEM PAL EXCEEDANCE

TABLE 2
UIC MONITORING
LAGOON INFLUENT SCHEDULE AND MAINTENANCE SCHEDULES
JUNE 2009

Charbert Facility
Richmond, Rhode Island

LAGOON INFLUENT SCHEDULE			
DATE	RECEIVING LAGOON	CHANGED TO LAGOON	REMARKS
March 2008 to June 2009	None	Cessation of Discharge	Facility closed February 24, 2008.
January 2006 to March 2008	1	No Change	All industrial waste water is discharged to Lagoon 1. Lagoon 1 is used as a settling pond, waste water is then transferred by an electric powered pump from Lagoon 1 to Lagoon 2. A second electric powered pump transfers waste water from Lagoon 2 to Lagoon 3.

LAGOON MAINTENANCE SCHEDULE		
	Date	Remarks
Lagoon 1		There was no significant lagoon maintenance performed this quarter.
Lagoon 2		There was no significant lagoon maintenance performed this quarter.
Lagoon 3		There was no significant lagoon maintenance performed this quarter.

MONITORING WELL MAINTENANCE		
Well ID	Date	Remarks
MW-1A (GP-29)		Required No Maintenance
MW-2A		Required No Maintenance
MW-3 (RIZ-15)		Required No Maintenance
MW-4A		Required No Maintenance
MW-5B		Required No Maintenance
MW-6 (RIZ-20)		Required No Maintenance

ATTACHEMENT A
LOW FLOW LOGS

LOW FLOW GROUNDWATER SAMPLING LOG

Charbert Facility
Richmond, Rhode Island

LOCATION: Charbert
DATE: Monday, June 1, 2009
GZA JOB NO.: 32795.33
WELL ID: MW-1A (GP-29)
WEATHER: Sunny
AIR TEMP (°F): 32
PUMP TYPE: Bailed
DATUM: 66.90 TOP OF PVC ELEVATION
SAMPLED BY: EMB
_____ TOP OF CASING ELEVATION

WELL DEPTH (FT): 31.34
LENGTH OF WATER COLUMN (FT): 8.52
WATER DEPTH (FT): 22.82
WELL DIAMETER: 2"
UPPER PRODUCT LAYER (FT): NA
WELL VOLUME: LITERS 5.26
LOWER PRODUCT LAYER (FT): NA

2" WELL = 0.163 GALLONS /FT WATER = 0.617 LITERS/FT
1" WELL = 0.013 GALLONS /FT WATER = 0.0492 LITERS/FT

FLOW RATE CALCULATIONS:
START FLOW _____
VOLUME: _____ Liters
SAMPLE TIME: 1:55 p.m.
START TIME _____
DELTA TIME (MIN): _____
END TIME _____ Seconds
FLOW RATE: (L/min) _____
MINIMUM PURGE TIME (MINUTES): _____
WELL DRAW DOWN (FT): _____ Flow Depth
VOLUME PURGED (Liters): 16.2
_____ Drawdown

TIME	ORP (mV)	pH (SU)	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (°C)
1:55 p.m.	66	5.5	0.462	5.0	2.5	13.9

COLOR: Pinkish
WELL LOCKED YES X
ODOR: Slight chem
NO _____
NOTES:

Sampled for VOCS, bis(2-Ethylhexyl)Phthalate, TPH, Total Chromium, and Dissolved Chromium

Samples collected with disposable polyethylene bailer.

GUIDELINES:
TURBIDITY < 5NTU AND +/-10 %
ORP +/- 10 mV
DO 10%
TEMP 3%
SPEC COND 3%
pH +/- 0.10 UNITS

LOW FLOW GROUNDWATER SAMPLING LOG

Charbert Facility
Richmond, Rhode Island

LOCATION: Charbert
DATE: Monday, June 1, 2009
GZA JOB NO.: 32795.33
WELL ID: MW-2A
WEATHER: Sunny
AIR TEMP (°F): 25
PUMP TYPE: Peristaltic
DATUM: 63.59 TOP OF PVC ELEVATION
SAMPLED BY: EMB
TOP OF CASING ELEVATION

WELL DEPTH (FT): 19.72
LENGTH OF WATER COLUMN (FT): 5.59
WATER DEPTH (FT): 14.13
WELL DIAMETER: 2"
UPPER PRODUCT LAYER (FT): NA
WELL VOLUME: LITERS 3.45
LOWER PRODUCT LAYER (FT): NA

2" WELL = 0.163 GALLONS /FT WATER = 0.617 LITERS/FT
1" WELL = 0.013 GALLONS /FT WATER = 0.0492 LITERS/FT

FLOW RATE CALCULATIONS:
START FLOW 11:15
VOLUME: 0.4 Liters
SAMPLE TIME: 12:25
START TIME 0.0
DELTA TIME (MIN): 70
END TIME 60 Seconds
FLOW RATE: (L/min) 0.40
MINIMUM PURGE TIME (MINUTES): 8.6
WELL DRAW DOWN (FT): 14.17 Flow Depth
VOLUME PURGED (Liters): 28.0
0.04 Drawdown

TIME	ORP (mV)	pH (SU)	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (°C)
12:21	16	6.0	1.360	55	2.4	15.5
12:22	16	6.0	1.360	56	2.4	15.5
12:23	16	6.0	1.360	55	2.4	15.5

COLOR: bluish / purple
WELL LOCKED YES
ODOR: Chemical
NO X

NOTES: Sampled for VOCS, bis(2-Ethylhexyl)Phthalate, TPH, Total Chromium, and Dissolved Chromium

GUIDELINES:
TURBIDITY <5 NTU AND +/-10 %
ORP +/- 10 mV
DO 10%
TEMP 3%
SPEC COND 3%
pH +/- 0.10 UNITS

LOW FLOW GROUNDWATER SAMPLING LOG

Charbert Facility
Richmond, Rhode Island

LOCATION: Charbert
DATE: Monday, June 1, 2009
GZA JOB NO.: 32795.33
WELL ID: MW-3 (RIZ-15)
WEATHER: Sunny
AIR TEMP (°F): 25
PUMP TYPE: Peristaltic
DATUM: 62.51 TOP OF PVC ELEVATION
SAMPLED BY: EMB
TOP OF CASING ELEVATION

WELL DEPTH (FT): 21.55
LENGTH OF WATER COLUMN (FT): 7.26
WATER DEPTH (FT): 14.29
WELL DIAMETER: 2"
UPPER PRODUCT LAYER (FT): NA
WELL VOLUME: LITERS 4.48
LOWER PRODUCT LAYER (FT): NA

2" WELL = 0.163 GALLONS /FT WATER = 0.617 LITERS/FT
1" WELL = 0.013 GALLONS /FT WATER = 0.0492 LITERS/FT

FLOW RATE CALCULATIONS:
START FLOW 8:45
VOLUME: 0.4 Liters
SAMPLE TIME: 9:55
START TIME 0
DELTA TIME (MIN): 75
END TIME 60 Seconds
FLOW RATE: (L/min) 0.40
MINIMUM PURGE TIME (MINUTES): 11.2
WELL DRAW DOWN (FT): 14.31 Flow Depth
VOLUME PURGED (Liters): 30.0
0.02 Drawdown

TIME	ORP (mV)	pH (SU)	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (°C)
9:51	85	5.3	0.278	2	3.3	12.9
9:52	85	5.3	0.278	2	3.4	12.9
9:53	86	5.3	0.279	2	3.4	12.9

COLOR: None
WELL LOCKED YES X
ODOR: Slight chemical
NO

NOTES: Sampled for VOCS, bis(2-Ethylhexyl)Phthalate, TPH, Total Chromium, and Dissolved Chromium

GUIDELINES:
TURBIDITY <5 NTU AND +/-10 %
ORP +/- 10 mV
DO 10%
TEMP 3%
SPEC COND 3%
pH +/- 0.10 UNITS

LOW FLOW GROUNDWATER SAMPLING LOG

Charbert Facility
Richmond, Rhode Island

LOCATION: Charbert
DATE: Monday, June 1, 2009
GZA JOB NO.: 32795.33
WELL ID: MW-4A
WEATHER: Sunny
AIR TEMP (°F): 25
PUMP TYPE: Peristaltic
DATUM: 58.43 TOP OF PVC ELEVATION
SAMPLED BY: EMB
TOP OF CASING ELEVATION

WELL DEPTH (FT): 14.10
LENGTH OF WATER COLUMN (FT): 4.72
WATER DEPTH (FT): 9.38
WELL DIAMETER: 2"
UPPER PRODUCT LAYER (FT): NA
WELL VOLUME: LITERS 2.91
LOWER PRODUCT LAYER (FT): NA

2" WELL = 0.163 GALLONS /FT WATER = 0.617 LITERS/FT
1" WELL = 0.013 GALLONS /FT WATER = 0.0492 LITERS/FT

FLOW RATE CALCULATIONS:
START FLOW 9:25
VOLUME: 0.4 Liters
SAMPLE TIME: 10:45
START TIME 0
DELTA TIME (MIN): 80
END TIME 60 Seconds
FLOW RATE: (L/min) 0.40
MINIMUM PURGE TIME (MINUTES): 7.3
WELL DRAW DOWN (FT): 9.4 Flow Depth
VOLUME PURGED (Liters): 32.0
0.02 Drawdown

TIME	ORP (mV)	pH (SU)	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (°C)
10:41	20	5.9	0.605	14.0	3.5	13.5
10:42	20	5.9	0.605	13.0	4.6	13.5
10:43	20	5.9	0.605	14.0	3.6	13.5

COLOR: Very Slight Pink
WELL LOCKED YES x
ODOR: Very Slight Chemical Odor
NO

NOTES: Sampled for VOCS, bis(2-Ethylhexyl)Phthalate, TPH, Total Chromium, and Dissolved Chromium

GUIDELINES:
TURBIDITY <5 NTU AND +/-10 %
ORP +/- 10 mV
DO 10%
TEMP 3%
SPEC COND 3%
pH +/- 0.10 UNITS

LOW FLOW GROUNDWATER SAMPLING LOG

Charbert Facility
Richmond, Rhode Island

LOCATION: Charbert
GZA JOB NO.: 32795.33
WEATHER: Sunny
PUMP TYPE: Peristaltic
SAMPLED BY: EMB

DATE: Monday, June 1, 2009
WELL ID: MW-5B (GP-30)
AIR TEMP (°F): 25
DATUM: 63.16 TOP OF PVC ELEVATION
_____ TOP OF CASING ELEVATION

WELL DEPTH (FT): 22.83
WATER DEPTH (FT): 12.03
UPPER PRODUCT LAYER (FT): NA
LOWER PRODUCT LAYER (FT): NA

LENGTH OF WATER COLUMN (FT): 10.8
WELL DIAMETER: 2"
WELL VOLUME: LITERS 6.66

2" WELL = 0.163 GALLONS /FT WATER = 0.617 LITERS/FT
1" WELL = 0.013 GALLONS /FT WATER = 0.0492 LITERS/FT

FLOW RATE CALCULATIONS:
VOLUME: 0.5 Liters
START TIME 0
END TIME 60 Seconds
MINIMUM PURGE TIME (MINUTES): 13.3
VOLUME PURGED (Liters): 42.5

START FLOW 10:35
SAMPLE TIME: 11:55
DELTA TIME (MIN): 85
FLOW RATE: (L/min) 0.50
WELL DRAW DOWN (FT): 12.07 Flow Depth
0.04 Drawdown

TIME	ORP (mV)	pH (SU)	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (oC)
11:51	105	5.7	0.086	4	6.1	12.2
11:52	105	5.6	0.086	4	6.1	12.2
11:53	105	5.6	0.086	4	6.1	12.2

COLOR: None observed
ODOR: None observed

WELL LOCKED YES X
NO _____

NOTES: Sampled for VOCS, bis(2-Ethylhexyl)Phthalate, TPH, Total Chromium, and Dissolved Chromium

GUIDELINES:
TURBIDITY <5 NTU AND +/-10 %
ORP +/- 10 mV
DO 10%
TEMP 3%
SPEC COND 3%
pH +/- 0.10 UNITS

LOW FLOW GROUNDWATER SAMPLING LOG

Charbert Facility
Richmond, Rhode Island

LOCATION: Charbert
DATE: Monday, June 1, 2009
GZA JOB NO.: 32795.33
WELL ID: MW-6 (RIZ-20)
WEATHER: Sunny
AIR TEMP (°F): 25
PUMP TYPE: Peristaltic
DATUM: 60.79 TOP OF PVC ELEVATION
SAMPLED BY: EMB
TOP OF CASING ELEVATION

WELL DEPTH (FT): 20.85
LENGTH OF WATER COLUMN (FT): 6.65
WATER DEPTH (FT): 14.2
WELL DIAMETER: 2"
UPPER PRODUCT LAYER (FT): NA
WELL VOLUME: LITERS 4.10
LOWER PRODUCT LAYER (FT): NA

2" WELL = 0.163 GALLONS /FT WATER = 0.617 LITERS/FT
1" WELL = 0.013 GALLONS /FT WATER = 0.0492 LITERS/FT

FLOW RATE CALCULATIONS:
START FLOW 8:00
VOLUME: 0.5 Liters
SAMPLE TIME: 9:05
START TIME 0
DELTA TIME (MIN): 65
END TIME 60 Seconds
FLOW RATE: (L/min) 0.50
MINIMUM PURGE TIME (MINUTES): 8.2
WELL DRAW DOWN (FT): 14.26 Flow Depth
VOLUME PURGED (Liters): 32.5
0.06 Drawdown

TIME	ORP (mV)	pH (SU)	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (°C)
9:01	202	4.9	0.414	2.0	0.3	12.7
9:02	204	4.9	0.389	1.0	0.3	12.7
9:03	204	4.9	0.383	2.0	0.4	12.7

COLOR: None
WELL LOCKED YES X
ODOR: Slight chemical
NO

NOTES: Sampled for VOCS, bis(2-Ethylhexyl)Phthalate, TPH, Total Chromium, and Dissolved Chromium

GUIDELINES:
TURBIDITY <5 NTU AND +/- 10 %
ORP +/- 10 mV
DO 10%
TEMP 3%
SPEC COND 3%
pH +/- 0.10 UNITS

ATTACHEMENT B
LABORATORY CERTIFICATES

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

Laboratory Identification Numbers:
MA and ME: **MA092** NH: **2028**
CT: **PH0579** RI: **LAO00236**
NELAC - NYS DOH: **11063**

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project No.: **03.0032795.33**
Work Order No.: **0906-00017**
Date Received: **06/02/2009**
Date Reported: **06/10/2009**

SAMPLE INFORMATION

Date Sampled	Matrix	Laboratory ID	Sample ID
06/01/2009	Aqueous	0906-00017 001	MW - 4A
06/01/2009	Aqueous	0906-00017 002	MW - 4A / Dissolved Metal
06/01/2009	Aqueous	0906-00017 003	MW - 2A
06/01/2009	Aqueous	0906-00017 004	MW - 2A / Dissolved Metal
06/01/2009	Aqueous	0906-00017 005	MW - 1A
06/01/2009	Aqueous	0906-00017 006	MW - 1A / Dissolved Metal
06/01/2009	Aqueous	0906-00017 007	MW - 5B
06/01/2009	Aqueous	0906-00017 008	MW - 5B / Dissolved Metal
06/01/2009	Aqueous	0906-00017 009	MW - 3
06/01/2009	Aqueous	0906-00017 010	MW - 3 / Dissolved Metal
06/01/2009	Aqueous	0906-00017 011	MW - 6
06/01/2009	Aqueous	0906-00017 012	MW - 6 / Dissolved Metal
06/01/2009	Aqueous	0906-00017 013	TBLK 060109

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ANALYTICAL REPORT

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Stephen Andrus

Project Name.:	**Charbert UIC Quarterly Testing**	Date Received:	**06/02/2009**
Project No.:	**03.0032795.33**	Date Reported:	**06/10/2009**
		Work Order No.:	**0906-00017**

PROJECT NARRATIVE:

1. Sample Receipt

The samples were received on 06/02/09 via _x_GZA courier, __EC, __FEDEX, or ___hand delivered. The temperature of the _x_temperature blank/__cooler air, was 4.2 & 3.9 degrees C. The temperature requirement for most analyses is above freezing to 6 degrees C. The samples were received intact for all requested analyses.

The chain of custody indicates that the samples, when required, were chemically preserved in accordance with the method they reference.

2. EPA Method 6010B - Metals

Attach QC 6010B 06/03/09 - Aqueous

3. Total Petroleum Hydrocarbons

The surrogate recovery for sample 0906-00017-009 (MW-3) exceeded the acceptance criteria of 40-130 at 35.0% due to matrix interference. The results were not confirmed by reextraction and reanalysis as the entire sample was consumed during the extraction process.

4. EPA Method 8270 - SVOCs

Per the Project Manager report bis(2-ethylhexyl)phthalate only.

* The low surrogate recoveries could not be confirmed by re-extraction and analysis as the entire sample was consumed during the extraction process.

Attach QC 8270 06/04/09 - Aqueous

5. EPA Method 8260 - VOCs

The continuing calibration verification standard (CCV) (06/09/09) had an analyte outside of the 30%D QC acceptance limit. The outlier includes carbon disulfide (35%).

The Laboratory Control Sample (LCS) (06/09/09 S) had an 8260 list analyte outside of the 70-130% QC acceptance limits. Specific outlier includes carbon disulfide (135%). This analyte was not detected in the associated samples.

Attach QC 8260 06/09/09 S - Aqueous

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Data Authorized By:

NELAC certification, as indicated by the NELAC Lab ID Number, is per analyte. For a complete list of NELAC validated analytes, please contact the laboratory.

Abbreviations:
% R = % Recovery
DF = Dilution Factor
DFS = Dilution Factor Solids
CF = Calculation Factor
DO = Diluted Out

Method Key:
Method 8260: The current version of the method is 8260B.
Method 8270: The current version of the method is 8270D.
Method 6010: The current version of the method is 6010B.

Please note that the laboratory signed copy of the chain of custody record is an integral part of the data report.

Soil data is reported on a dry weight basis unless otherwise specified.
Matrix Spike / Matrix Spike Duplicate sets are performed as per method and are reported at the end of the analytical report if assigned on the Chain of Custody.

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Project Name.: **Charbert UIC Quarterly Testing**
Project No.: **03.0032795.33**

Date Received: **06/02/2009**
Date Reported: **06/10/2009**
Work Order No.: **0906-00017**

Sample ID: **MW - 4A** Sample No.: **001**

Sample Date: **06/01/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MQS	06/09/2009
Dichlorodifluoromethane	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Chloromethane	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Vinyl Chloride	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Bromomethane	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Chloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Trichlorofluoromethane	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Diethylether	EPA 8260	<5.0	ug/L	MQS	06/09/2009
Acetone	EPA 8260	<25	ug/L	MQS	06/09/2009
1,1-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Dichloromethane	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	ug/L	MQS	06/09/2009
trans-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,1-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
2-Butanone	EPA 8260	<25	ug/L	MQS	06/09/2009
2,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
cis-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Chloroform	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Bromochloromethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Tetrahydrofuran	EPA 8260	<10	ug/L	MQS	06/09/2009
1,1,1-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,1-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Carbon Tetrachloride	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Benzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Trichloroethene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Bromodichloromethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Dibromomethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
4-Methyl-2-Pentanone	EPA 8260	<25	ug/L	MQS	06/09/2009
cis-1,3-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Toluene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
trans-1,3-Dichloropropene	EPA 8260	<2.0	ug/L	MQS	06/09/2009
1,1,2-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
2-Hexanone	EPA 8260	<25	ug/L	MQS	06/09/2009
1,3-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Tetrachloroethene	EPA 8260	<1.0	ug/L	MQS	06/09/2009

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Project No.: **03.0032795.33**

Date Received: **06/02/2009**
Date Reported: **06/10/2009**
Work Order No.: **0906-00017**

Sample ID: **MW - 4A** Sample No.: **001**

Sample Date: **06/01/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
Dibromochloromethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Chlorobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Ethylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
m&p-Xylene	EPA 8260	<2.0	ug/L	MQS	06/09/2009
o-Xylene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Styrene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Bromoform	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Isopropylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2,3-Trichloropropane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Bromobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
N-Propylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
2-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,3,5-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
4-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
tert-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2,4-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
sec-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
p-Isopropyltoluene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,3-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,4-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
n-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	ug/L	MQS	06/09/2009
1,2,4-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Hexachlorobutadiene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Naphthalene	EPA 8260	<2.0	ug/L	MQS	06/09/2009
1,2,3-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	88.4	% R	MQS	06/09/2009
***Toluene-D8	EPA 8260	98.5	% R	MQS	06/09/2009
***4-Bromofluorobenzene	EPA 8260	98.1	% R	MQS	06/09/2009
Preparation	EPA 5030B	1.0	CF	MQS	06/09/2009
SEMI-VOLATILE ORGANICS	EPA 8270			CMG	06/05/2009
bis(2-Ethylhexyl)Phthalate	EPA 8270	<10	ug/L	CMG	06/05/2009

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Stephen Andrus

Project Name.: **Charbert UIC Quarterly Testing**
Project No.: **03.0032795.33**

Date Received: **06/02/2009**
Date Reported: **06/10/2009**
Work Order No.: **0906-00017**

Sample ID: **MW - 4A** Sample No.: **001**

Sample Date: **06/01/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
Surrogates:	EPA 8270				
***Nitrobenzene-D5	EPA 8270	44.9	% R	CMG	06/05/2009
***2-Fluorobiphenyl	EPA 8270	46.3	% R	CMG	06/05/2009
***P-Terphenyl-D14	EPA 8270	39.7	% R	CMG	06/05/2009
Extraction	EPA 3510C	1.0	DF	KEF	06/04/2009
TOTAL PETROLEUM HYDROCARBON	Mod. EPA 8100			RJD	06/04/2009
Hydrocarbon Content		2800	ug/L	RJD	06/04/2009
Surrogate:					
***p-Terphenyl		52.2	% R	RJD	06/04/2009
Extraction	EPA 3510C	1.0	DF	KEF	06/03/2009
TOTAL METALS					
Chromium	EPA 6010B	0.011	mg/L	LLZ	06/03/2009

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Date Received: **06/02/2009**
Date Reported: **06/10/2009**
Work Order No.: **0906-00017**

Sample ID: **MW - 4A / Dissolved Metal**
Sample No.: **002**
Sample Date: **06/01/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
DISSOLVED METALS					
Chromium	EPA 6010B	0.0095	mg/L	LLZ	06/03/2009

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Date Received: **06/02/2009**
Date Reported: **06/10/2009**
Work Order No.: **0906-00017**

Sample ID: **MW - 2A** Sample No.: **003**

Sample Date: **06/01/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MQS	06/09/2009
Dichlorodifluoromethane	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Chloromethane	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Vinyl Chloride	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Bromomethane	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Chloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Trichlorofluoromethane	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Diethylether	EPA 8260	<5.0	ug/L	MQS	06/09/2009
Acetone	EPA 8260	<25	ug/L	MQS	06/09/2009
1,1-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Dichloromethane	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	ug/L	MQS	06/09/2009
trans-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,1-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
2-Butanone	EPA 8260	<25	ug/L	MQS	06/09/2009
2,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
cis-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Chloroform	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Bromochloromethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Tetrahydrofuran	EPA 8260	<10	ug/L	MQS	06/09/2009
1,1,1-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,1-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Carbon Tetrachloride	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Benzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Trichloroethene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Bromodichloromethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Dibromomethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
4-Methyl-2-Pentanone	EPA 8260	<25	ug/L	MQS	06/09/2009
cis-1,3-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Toluene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
trans-1,3-Dichloropropene	EPA 8260	<2.0	ug/L	MQS	06/09/2009
1,1,2-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
2-Hexanone	EPA 8260	<25	ug/L	MQS	06/09/2009
1,3-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Tetrachloroethene	EPA 8260	<1.0	ug/L	MQS	06/09/2009

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Date Received: **06/02/2009**
Date Reported: **06/10/2009**
Work Order No.: **0906-00017**

Sample ID: **MW - 2A** Sample No.: **003**

Sample Date: **06/01/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
Dibromochloromethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Chlorobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Ethylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
m&p-Xylene	EPA 8260	<2.0	ug/L	MQS	06/09/2009
o-Xylene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Styrene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Bromoform	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Isopropylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2,3-Trichloropropane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Bromobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
N-Propylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
2-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,3,5-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
4-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
tert-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2,4-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
sec-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
p-Isopropyltoluene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,3-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,4-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
n-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	ug/L	MQS	06/09/2009
1,2,4-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Hexachlorobutadiene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Naphthalene	EPA 8260	<2.0	ug/L	MQS	06/09/2009
1,2,3-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	89.0	% R	MQS	06/09/2009
***Toluene-D8	EPA 8260	99.5	% R	MQS	06/09/2009
***4-Bromofluorobenzene	EPA 8260	94.5	% R	MQS	06/09/2009
Preparation	EPA 5030B	1.0	CF	MQS	06/09/2009
SEMI-VOLATILE ORGANICS	EPA 8270			CMG	06/05/2009
bis(2-Ethylhexyl)Phthalate	EPA 8270	<10	ug/L	CMG	06/05/2009

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Date Received: **06/02/2009**
Date Reported: **06/10/2009**
Work Order No.: **0906-00017**

Sample ID: **MW - 2A** Sample No.: **003**

Sample Date: **06/01/2009**

Test Performed	Method	Results		Units	Tech	Analysis Date
Surrogates:	EPA 8270					
***Nitrobenzene-D5	EPA 8270	6.00	*	% R	CMG	06/05/2009
***2-Fluorobiphenyl	EPA 8270	46.1		% R	CMG	06/05/2009
***P-Terphenyl-D14	EPA 8270	35.7		% R	CMG	06/05/2009
Extraction	EPA 3510C	1.0		DF	KEF	06/04/2009
TOTAL PETROLEUM HYDROCARBON	Mod. EPA 8100				RJD	06/04/2009
Hydrocarbon Content		3700		ug/L	RJD	06/04/2009
Surrogate:						
***p-Terphenyl		50.7		% R	RJD	06/04/2009
Extraction	EPA 3510C	1.0		DF	KEF	06/03/2009
TOTAL METALS						
Chromium	EPA 6010B	0.010		mg/L	LLZ	06/03/2009

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Date Received: **06/02/2009**
Date Reported: **06/10/2009**
Work Order No.: **0906-00017**

Sample ID: **MW - 2A / Dissolved Metal**
Sample No.: **004**
Sample Date: **06/01/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
DISSOLVED METALS					
Chromium	EPA 6010B	0.0079	mg/L	LLZ	06/03/2009

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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert UIC Quarterly Testing**
Project No.: **03.0032795.33**

Date Received: **06/02/2009**
Date Reported: **06/10/2009**
Work Order No.: **0906-00017**

Sample ID: **MW - 1A**
Sample No.: **005**
Sample Date: **06/01/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MQS	06/09/2009
Dichlorodifluoromethane	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Chloromethane	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Vinyl Chloride	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Bromomethane	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Chloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Trichlorofluoromethane	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Diethylether	EPA 8260	<5.0	ug/L	MQS	06/09/2009
Acetone	EPA 8260	<25	ug/L	MQS	06/09/2009
1,1-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Dichloromethane	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	ug/L	MQS	06/09/2009
trans-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,1-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
2-Butanone	EPA 8260	<25	ug/L	MQS	06/09/2009
2,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
cis-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Chloroform	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Bromochloromethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Tetrahydrofuran	EPA 8260	<10	ug/L	MQS	06/09/2009
1,1,1-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,1-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Carbon Tetrachloride	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Benzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Trichloroethene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Bromodichloromethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Dibromomethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
4-Methyl-2-Pentanone	EPA 8260	<25	ug/L	MQS	06/09/2009
cis-1,3-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Toluene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
trans-1,3-Dichloropropene	EPA 8260	<2.0	ug/L	MQS	06/09/2009
1,1,2-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
2-Hexanone	EPA 8260	<25	ug/L	MQS	06/09/2009
1,3-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Tetrachloroethene	EPA 8260	<1.0	ug/L	MQS	06/09/2009

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Stephen Andrus

Project Name.: **Charbert UIC Quarterly Testing**
Project No.: **03.0032795.33**

Date Received: **06/02/2009**
Date Reported: **06/10/2009**
Work Order No.: **0906-00017**

Sample ID: **MW - 1A** Sample No.: **005**

Sample Date: **06/01/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
Dibromochloromethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Chlorobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Ethylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
m&p-Xylene	EPA 8260	<2.0	ug/L	MQS	06/09/2009
o-Xylene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Styrene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Bromoform	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Isopropylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2,3-Trichloropropane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Bromobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
N-Propylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
2-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,3,5-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
4-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
tert-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2,4-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
sec-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
p-Isopropyltoluene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,3-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,4-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
n-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	ug/L	MQS	06/09/2009
1,2,4-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Hexachlorobutadiene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Naphthalene	EPA 8260	<2.0	ug/L	MQS	06/09/2009
1,2,3-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	78.9	% R	MQS	06/09/2009
***Toluene-D8	EPA 8260	97.9	% R	MQS	06/09/2009
***4-Bromofluorobenzene	EPA 8260	95.7	% R	MQS	06/09/2009
Preparation	EPA 5030B	1.0	CF	MQS	06/09/2009
TOTAL PETROLEUM HYDROCARBON	Mod. EPA 8100			RJD	06/04/2009
Hydrocarbon Content		360	ug/L	RJD	06/04/2009

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Project Name.: **Charbert UIC Quarterly Testing**
Project No.: **03.0032795.33**

Date Received: **06/02/2009**
Date Reported: **06/10/2009**
Work Order No.: **0906-00017**

Sample ID: **MW - 1A** Sample No.: **005**

Sample Date: **06/01/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
Surrogate:					
***p-Terphenyl		44.5	% R	RJD	06/04/2009
Extraction	EPA 3510C	1.0	DF	KEF	06/03/2009
TOTAL METALS					
Chromium	EPA 6010B	0.019	mg/L	LLZ	06/03/2009
SEMI-VOLATILE ORGANICS	EPA 8270			CMG	06/05/2009
bis(2-Ethylhexyl)Phthalate	EPA 8270	<10	ug/L	CMG	06/05/2009
Surrogates:	EPA 8270				
***Nitrobenzene-D5	EPA 8270	45.1	% R	CMG	06/05/2009
***2-Fluorobiphenyl	EPA 8270	45.3	% R	CMG	06/05/2009
***P-Terphenyl-D14	EPA 8270	40.3	% R	CMG	06/05/2009
Extraction	EPA 3510C	1.0	DF	KEF	06/04/2009

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Date Received: **06/02/2009**
Date Reported: **06/10/2009**
Work Order No.: **0906-00017**

Sample ID: **MW - 1A / Dissolved Metal** Sample No.: **006**

Sample Date: **06/01/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
DISSOLVED METALS					
Chromium	EPA 6010B	0.014	mg/L	LLZ	06/03/2009

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Project Name.: **Charbert UIC Quarterly Testing**
Project No.: **03.0032795.33**

Date Received: **06/02/2009**
Date Reported: **06/10/2009**
Work Order No.: **0906-00017**

Sample ID: **MW - 5B** Sample No.: **007**

Sample Date: **06/01/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MQS	06/09/2009
Dichlorodifluoromethane	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Chloromethane	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Vinyl Chloride	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Bromomethane	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Chloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Trichlorofluoromethane	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Diethylether	EPA 8260	<5.0	ug/L	MQS	06/09/2009
Acetone	EPA 8260	<25	ug/L	MQS	06/09/2009
1,1-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Dichloromethane	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	ug/L	MQS	06/09/2009
trans-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,1-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
2-Butanone	EPA 8260	<25	ug/L	MQS	06/09/2009
2,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
cis-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Chloroform	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Bromochloromethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Tetrahydrofuran	EPA 8260	<10	ug/L	MQS	06/09/2009
1,1,1-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,1-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Carbon Tetrachloride	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Benzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Trichloroethene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Bromodichloromethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Dibromomethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
4-Methyl-2-Pentanone	EPA 8260	<25	ug/L	MQS	06/09/2009
cis-1,3-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Toluene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
trans-1,3-Dichloropropene	EPA 8260	<2.0	ug/L	MQS	06/09/2009
1,1,2-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
2-Hexanone	EPA 8260	<25	ug/L	MQS	06/09/2009
1,3-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Tetrachloroethene	EPA 8260	<1.0	ug/L	MQS	06/09/2009

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Project Name.: **Charbert UIC Quarterly Testing**
Project No.: **03.0032795.33**

Date Received: **06/02/2009**
Date Reported: **06/10/2009**
Work Order No.: **0906-00017**

Sample ID: **MW - 5B** Sample No.: **007**

Sample Date: **06/01/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
Dibromochloromethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Chlorobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Ethylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
m&p-Xylene	EPA 8260	<2.0	ug/L	MQS	06/09/2009
o-Xylene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Styrene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Bromoform	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Isopropylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2,3-Trichloropropane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Bromobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
N-Propylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
2-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,3,5-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
4-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
tert-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2,4-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
sec-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
p-Isopropyltoluene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,3-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,4-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
n-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	ug/L	MQS	06/09/2009
1,2,4-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Hexachlorobutadiene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Naphthalene	EPA 8260	<2.0	ug/L	MQS	06/09/2009
1,2,3-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	89.0	% R	MQS	06/09/2009
***Toluene-D8	EPA 8260	99.2	% R	MQS	06/09/2009
***4-Bromofluorobenzene	EPA 8260	94.8	% R	MQS	06/09/2009
Preparation	EPA 5030B	1.0	CF	MQS	06/09/2009
SEMI-VOLATILE ORGANICS	EPA 8270			CMG	06/05/2009
bis(2-Ethylhexyl)Phthalate	EPA 8270	<10	ug/L	CMG	06/05/2009

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Project No.: **03.0032795.33**

Date Received: **06/02/2009**
Date Reported: **06/10/2009**
Work Order No.: **0906-00017**

Sample ID: **MW - 5B** Sample No.: **007**

Sample Date: **06/01/2009**

Test Performed	Method	Results		Units	Tech	Analysis Date
Surrogates:	EPA 8270					
***Nitrobenzene-D5	EPA 8270	25.6	*	% R	CMG	06/05/2009
***2-Fluorobiphenyl	EPA 8270	26.9	*	% R	CMG	06/05/2009
***P-Terphenyl-D14	EPA 8270	29.6	*	% R	CMG	06/05/2009
Extraction	EPA 3510C	1.0		DF	KEF	06/04/2009
TOTAL PETROLEUM HYDROCARBON	Mod. EPA 8100				RJD	06/04/2009
Hydrocarbon Content		<200		ug/L	RJD	06/04/2009
Surrogate:						
***p-Terphenyl		45.1		% R	RJD	06/04/2009
Extraction	EPA 3510C	1.0		DF	KEF	06/03/2009
TOTAL METALS						
Chromium	EPA 6010B	<0.0050		mg/L	LLZ	06/03/2009

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Date Received: **06/02/2009**
Date Reported: **06/10/2009**
Work Order No.: **0906-00017**

Sample ID: **MW - 5B / Dissolved Metal** Sample No.: **008**

Sample Date: **06/01/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
DISSOLVED METALS					
Chromium	EPA 6010B	<0.0050	mg/L	LLZ	06/03/2009

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Project Name.: **Charbert UIC Quarterly Testing**
Project No.: **03.0032795.33**

Date Received: **06/02/2009**
Date Reported: **06/10/2009**
Work Order No.: **0906-00017**

Sample ID: **MW - 3**
Sample No.: **009**
Sample Date: **06/01/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MQS	06/09/2009
Dichlorodifluoromethane	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Chloromethane	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Vinyl Chloride	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Bromomethane	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Chloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Trichlorofluoromethane	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Diethylether	EPA 8260	<5.0	ug/L	MQS	06/09/2009
Acetone	EPA 8260	<25	ug/L	MQS	06/09/2009
1,1-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Dichloromethane	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	ug/L	MQS	06/09/2009
trans-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,1-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
2-Butanone	EPA 8260	<25	ug/L	MQS	06/09/2009
2,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
cis-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Chloroform	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Bromochloromethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Tetrahydrofuran	EPA 8260	<10	ug/L	MQS	06/09/2009
1,1,1-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,1-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Carbon Tetrachloride	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Benzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Trichloroethene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Bromodichloromethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Dibromomethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
4-Methyl-2-Pentanone	EPA 8260	<25	ug/L	MQS	06/09/2009
cis-1,3-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Toluene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
trans-1,3-Dichloropropene	EPA 8260	<2.0	ug/L	MQS	06/09/2009
1,1,2-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
2-Hexanone	EPA 8260	<25	ug/L	MQS	06/09/2009
1,3-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Tetrachloroethene	EPA 8260	<1.0	ug/L	MQS	06/09/2009

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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert UIC Quarterly Testing**
Project No.: **03.0032795.33**

Date Received: **06/02/2009**
Date Reported: **06/10/2009**
Work Order No.: **0906-00017**

Sample ID: **MW - 3**
Sample No.: **009**
Sample Date: **06/01/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
Dibromochloromethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Chlorobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Ethylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
m&p-Xylene	EPA 8260	<2.0	ug/L	MQS	06/09/2009
o-Xylene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Styrene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Bromoform	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Isopropylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2,3-Trichloropropane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Bromobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
N-Propylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
2-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,3,5-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
4-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
tert-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2,4-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
sec-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
p-Isopropyltoluene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,3-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,4-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
n-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	ug/L	MQS	06/09/2009
1,2,4-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Hexachlorobutadiene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Naphthalene	EPA 8260	<2.0	ug/L	MQS	06/09/2009
1,2,3-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	84.7	% R	MQS	06/09/2009
***Toluene-D8	EPA 8260	101	% R	MQS	06/09/2009
***4-Bromofluorobenzene	EPA 8260	96.3	% R	MQS	06/09/2009
Preparation	EPA 5030B	1.0	CF	MQS	06/09/2009
SEMI-VOLATILE ORGANICS	EPA 8270			CMG	06/05/2009
bis(2-Ethylhexyl)Phthalate	EPA 8270	<10	ug/L	CMG	06/05/2009

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Project Name.: **Charbert UIC Quarterly Testing**
Project No.: **03.0032795.33**

Date Received: **06/02/2009**
Date Reported: **06/10/2009**
Work Order No.: **0906-00017**

Sample ID: **MW - 3** Sample No.: **009**

Sample Date: **06/01/2009**

Test Performed	Method	Results		Units	Tech	Analysis Date
Surrogates:	EPA 8270					
***Nitrobenzene-D5	EPA 8270	39.6		% R	CMG	06/05/2009
***2-Fluorobiphenyl	EPA 8270	38.9		% R	CMG	06/05/2009
***P-Terphenyl-D14	EPA 8270	32.9		% R	CMG	06/05/2009
Extraction	EPA 3510C	1.0		DF	KEF	06/04/2009
TOTAL PETROLEUM HYDROCARBON	Mod. EPA 8100				RJD	06/04/2009
Hydrocarbon Content		300		ug/L	RJD	06/04/2009
Surrogate:						
***p-Terphenyl		35.0	*	% R	RJD	06/04/2009
Extraction	EPA 3510C	1.0		DF	KEF	06/03/2009
TOTAL METALS						
Chromium	EPA 6010B	<0.0050		mg/L	LLZ	06/03/2009

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Project Name.: **Charbert UIC Quarterly Testing**
Project No.: **03.0032795.33**

Date Received: **06/02/2009**
Date Reported: **06/10/2009**
Work Order No.: **0906-00017**

Sample ID: **MW - 3 / Dissolved Metal** Sample No.: **010**

Sample Date: **06/01/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
DISSOLVED METALS					
Chromium	EPA 6010B	<0.0050	mg/L	LLZ	06/03/2009

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Project Name.: **Charbert UIC Quarterly Testing**
Project No.: **03.0032795.33**

Date Received: **06/02/2009**
Date Reported: **06/10/2009**
Work Order No.: **0906-00017**

Sample ID: **MW - 6**
Sample No.: **011**
Sample Date: **06/01/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MQS	06/09/2009
Dichlorodifluoromethane	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Chloromethane	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Vinyl Chloride	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Bromomethane	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Chloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Trichlorofluoromethane	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Diethylether	EPA 8260	<5.0	ug/L	MQS	06/09/2009
Acetone	EPA 8260	<25	ug/L	MQS	06/09/2009
1,1-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Dichloromethane	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	ug/L	MQS	06/09/2009
trans-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,1-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
2-Butanone	EPA 8260	<25	ug/L	MQS	06/09/2009
2,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
cis-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Chloroform	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Bromochloromethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Tetrahydrofuran	EPA 8260	<10	ug/L	MQS	06/09/2009
1,1,1-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,1-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Carbon Tetrachloride	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Benzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Trichloroethene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Bromodichloromethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Dibromomethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
4-Methyl-2-Pentanone	EPA 8260	<25	ug/L	MQS	06/09/2009
cis-1,3-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Toluene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
trans-1,3-Dichloropropene	EPA 8260	<2.0	ug/L	MQS	06/09/2009
1,1,2-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
2-Hexanone	EPA 8260	<25	ug/L	MQS	06/09/2009
1,3-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Tetrachloroethene	EPA 8260	<1.0	ug/L	MQS	06/09/2009

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Date Received: **06/02/2009**
Date Reported: **06/10/2009**
Work Order No.: **0906-00017**

Sample ID: **MW - 6** Sample No.: **011**

Sample Date: **06/01/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
Dibromochloromethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Chlorobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Ethylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
m&p-Xylene	EPA 8260	<2.0	ug/L	MQS	06/09/2009
o-Xylene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Styrene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Bromoform	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Isopropylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2,3-Trichloropropane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Bromobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
N-Propylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
2-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,3,5-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
4-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
tert-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2,4-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
sec-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
p-Isopropyltoluene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,3-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,4-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
n-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	ug/L	MQS	06/09/2009
1,2,4-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Hexachlorobutadiene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Naphthalene	EPA 8260	<2.0	ug/L	MQS	06/09/2009
1,2,3-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	84.6	% R	MQS	06/09/2009
***Toluene-D8	EPA 8260	101	% R	MQS	06/09/2009
***4-Bromofluorobenzene	EPA 8260	95.4	% R	MQS	06/09/2009
Preparation	EPA 5030B	1.0	CF	MQS	06/09/2009
SEMI-VOLATILE ORGANICS	EPA 8270			CMG	06/05/2009
bis(2-Ethylhexyl)Phthalate	EPA 8270	<10	ug/L	CMG	06/05/2009

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Work Order No.: **0906-00017**

Sample ID: **MW - 6** Sample No.: **011**

Sample Date: **06/01/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
Surrogates:	EPA 8270				
***Nitrobenzene-D5	EPA 8270	35.0	% R	CMG	06/05/2009
***2-Fluorobiphenyl	EPA 8270	35.7	% R	CMG	06/05/2009
***P-Terphenyl-D14	EPA 8270	31.8	% R	CMG	06/05/2009
Extraction	EPA 3510C	1.0	DF	KEF	06/04/2009
TOTAL PETROLEUM HYDROCARBON	Mod. EPA 8100			RJD	06/04/2009
Hydrocarbon Content		<200	ug/L	RJD	06/04/2009
Surrogate:					
***p-Terphenyl		45.0	% R	RJD	06/04/2009
Extraction	EPA 3510C	1.0	DF	KEF	06/03/2009
TOTAL METALS					
Chromium	EPA 6010B	<0.0050	mg/L	LLZ	06/03/2009

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Date Received: **06/02/2009**
Date Reported: **06/10/2009**
Work Order No.: **0906-00017**

Sample ID: **MW - 6 / Dissolved Metal** Sample No.: **012**

Sample Date: **06/01/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
DISSOLVED METALS					
Chromium	EPA 6010B	<0.0050	mg/L	LLZ	06/03/2009

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Date Received: **06/02/2009**
Date Reported: **06/10/2009**
Work Order No.: **0906-00017**

Sample ID: **TBLK 060109** Sample No.: **013**

Sample Date: **06/01/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MQS	06/09/2009
Dichlorodifluoromethane	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Chloromethane	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Vinyl Chloride	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Bromomethane	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Chloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Trichlorofluoromethane	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Diethylether	EPA 8260	<5.0	ug/L	MQS	06/09/2009
Acetone	EPA 8260	<25	ug/L	MQS	06/09/2009
1,1-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Dichloromethane	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	ug/L	MQS	06/09/2009
trans-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,1-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
2-Butanone	EPA 8260	<25	ug/L	MQS	06/09/2009
2,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
cis-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Chloroform	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Bromochloromethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Tetrahydrofuran	EPA 8260	<10	ug/L	MQS	06/09/2009
1,1,1-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,1-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Carbon Tetrachloride	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Benzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Trichloroethene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Bromodichloromethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Dibromomethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
4-Methyl-2-Pentanone	EPA 8260	<25	ug/L	MQS	06/09/2009
cis-1,3-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Toluene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
trans-1,3-Dichloropropene	EPA 8260	<2.0	ug/L	MQS	06/09/2009
1,1,2-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
2-Hexanone	EPA 8260	<25	ug/L	MQS	06/09/2009
1,3-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Tetrachloroethene	EPA 8260	<1.0	ug/L	MQS	06/09/2009

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Project No.: **03.0032795.33**

Date Received: **06/02/2009**
Date Reported: **06/10/2009**
Work Order No.: **0906-00017**

Sample ID: **TBLK 060109** Sample No.: **013**

Sample Date: **06/01/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
Dibromochloromethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Chlorobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Ethylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
m&p-Xylene	EPA 8260	<2.0	ug/L	MQS	06/09/2009
o-Xylene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Styrene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Bromoform	EPA 8260	<2.0	ug/L	MQS	06/09/2009
Isopropylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2,3-Trichloropropane	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Bromobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
N-Propylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
2-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,3,5-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
4-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
tert-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2,4-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
sec-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
p-Isopropyltoluene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,3-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,4-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
n-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	ug/L	MQS	06/09/2009
1,2,4-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Hexachlorobutadiene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Naphthalene	EPA 8260	<2.0	ug/L	MQS	06/09/2009
1,2,3-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	06/09/2009
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	82.6	% R	MQS	06/09/2009
***Toluene-D8	EPA 8260	100	% R	MQS	06/09/2009
***4-Bromofluorobenzene	EPA 8260	94.6	% R	MQS	06/09/2009
Preparation	EPA 5030B	1.0	CF	MQS	06/09/2009

GZA GEOENVIRONMENTAL, INC.
ENVIRONMENTAL CHEMISTRY LABORATORY
106 SOUTH ST, HOPKINTON, MA 01748
MASSACHUSETTS LABORATORY I.D. NO. MA092

EPA METHOD 6010B ANALYSIS
Metals by ICP

QUALITY CONTROL - AQUEOUS

DATE PREPARED: 6/3/2009

QC Sample	Method Blank	Lab Control Sample	LC Duplicate	LC/LCD Diff.
Units	mg/L	% Recovery	% Recovery	RPD
Acceptance Limits	Results	80-120	80-120	20%
Analyte				
Silver (Ag)	NA	NA	NA	NA
Aluminum (Al)	NA	NA	NA	NA
Arsenic (As)	NA	NA	NA	NA
Boron (B)	NA	NA	NA	NA
Barium (Ba)	NA	NA	NA	NA
Beryllium (Be)	NA	NA	NA	NA
Calcium (Ca)	NA	NA	NA	NA
Cadmium (Cd)	NA	NA	NA	NA
Cobalt (Co)	NA	NA	NA	NA
Chromium (Cr)	<0.0050	101	99.9	0.68
Copper (Cu)	NA	NA	NA	NA
Iron (Fe)	<0.025	104	104	0.13
Magnesium (Mg)	NA	NA	NA	NA
Manganese (Mn)	NA	NA	NA	NA
Molybdenum (Mo)	NA	NA	NA	NA
Nickel (Ni)	<0.010	103	103	0.61
Lead (Pb)	<0.010	101	101	0.10
Antimony (Sb)	<0.025	103	103	0.31
Selenium (Se)	NA	NA	NA	NA
Strontium (Sr)	NA	NA	NA	NA
Titanium (Ti)	NA	NA	NA	NA
Thallium (Tl)	NA	NA	NA	NA
Vanadium (V)	NA	NA	NA	NA
Zinc (Zn)	<0.010	106	105	1.00
Zirconium (Zr)	NA	NA	NA	NA
Tin (Sn)	NA	NA	NA	NA

Matrix Spike / Duplicate Spike performed as per method and reported if assigned on Chain of Custody.

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
MA062

EPA Method 8270/625 Aqueous Method Blank (MB) and Laboratory Control Sample (LCS) Data

Method Blank

Date Extracted:	**06/04/09**
Date Analyzed:	**06/05/09**
File Name:	**M1358**

Semi-Volatile Organics	Result	Reporting Limit (ug/L)
n-nitrosodimethylamine	ND	10
pyridine	ND	100
phenol	ND	10
bis(2-chloroethyl)ether	ND	10
2-chlorophenol	ND	10
1,3-dichlorobenzene	ND	10
1,4-dichlorobenzene	ND	10
benzyl alchohol	ND	20
1,2-dichlorobenzene	ND	10
2-methylphenol	ND	10
bis(2-chloroisopropyl)ether	ND	10
3&4-methylphenol	ND	10
n-nitrosodi-n-propylamine	ND	10
acetophenone	ND	10
hexachloroethane	ND	10
nitrobenzene	ND	10
isophrone	ND	10
2-nitrophenol	ND	10
2,4-dimethylphenol	ND	10
benzoic acid	ND	10
bis(2-chloroethoxy)methane	ND	10
2,4-dichlorophenol	ND	10
1,2,4-trichlorobenzene	ND	10
naphthalene	ND	2.0
4-chloroaniline	ND	10
hexachlorobutadiene	ND	10
4-chloro-3-methylphenol	ND	20
2-methylnaphthalene	ND	2.0
1,2,4,5-Tetrachlorobenzene	ND	10
aniline	ND	10
hexachlorocyclopentadiene	ND	50
2,4,6-trichlorophenol	ND	10
2,4,5-trichlorophenol	ND	10
2-chloronaphthalene	ND	10
2-nitroaniline	ND	50
dimethylphthalate	ND	10
acenaphthylene	ND	2.0
2,6-dinitrotoluene	ND	10
3-nitroaniline	ND	50
acenaphthene	ND	2.0
2,4-dinitrophenol	ND	100
dibenzofuran	ND	10
4-nitrophenol	ND	50
2,4-dinitrotoluene	ND	10
diethylphthalate	ND	10
fluorene	ND	2.0
4-chlorophenyl phenyl ether	ND	10
4-nitroaniline	ND	20
4,6-dinitro-2-methylphenol	ND	50
n-nitrosodiphenylamine	ND	10
azobenzene	ND	10
4-bromophenyl phenyl ether	ND	10
Pentachloronitrobenzene	ND	10
hexachlorobenzene	ND	10
pentachlorophenol	ND	50
phenanthrene	ND	2.0
anthracene	ND	2.0
carbazole	ND	10
di-n-butylphthalate	ND	15
fluoranthene	ND	2.0
benzidine	ND	10
pyrene	ND	2.0
butylbenzylphthalate	ND	10
benz [a] anthracene	ND	2.0
3,3'-dichlorobenzidine	ND	20
chrysene	ND	2.0
bis(2-ethylhexyl)phthalate	ND	10
di-n-octylphthalate	ND	10
benzo [b] fluoranthene	ND	2.0
benzo [k] fluoranthene	ND	2.0
benzo [a] pyrene	ND	2.0
indeno [1,2,3-cd] pyrene	ND	2.0
dibenz [a,h] anthracene	ND	2.0
benzo [ghi] perylene	ND	2.0

Surrogates:	Recovery (%)	Acceptance Limits
2-FLUOROPHENOL	43.6	15-110
PHENOL-D6	35.7	15-110
NITROBENZENE-D5	57.4	30-130
2-FLUOROBIPHENYL	57.9	30-130
2,4,6-TRIBROMOPHENOL	60.4	15-100
p-TERPHENYL-D14	60.3	30-130

Laboratory Control Sample

Date Extracted:	**06/04/09**
Date Analyzed:	**06/05/09**
File Name:	**M1359**

Spike Concentration = 20ug/L	% Recovery	Acceptance Limits	Verdict
n-nitrosodimethylamine	50.2	40-140	ok
pyridine	33.2	40-140	out
phenol	48.4	30-130	ok
bis(2-chloroethyl)ether	67.6	40-140	ok
2-chlorophenol	64.4	30-130	ok
1,3-dichlorobenzene	59.3	40-140	ok
1,4-dichlorobenzene	56.4	40-140	ok
benzyl alchohol	73.9	40-140	ok
1,2-dichlorobenzene	60.3	40-140	ok
2-methylphenol	66.5	30-130	ok
bis(2-chloroisopropyl)ether	62.1	40-140	ok
3&4-methylphenol	69.4	30-130	ok
n-nitrosodi-n-propylamine	70.1	40-140	ok
acetophenone	64.3	40-140	ok
hexachloroethane	57.4	40-140	ok
nitrobenzene	63.5	40-140	ok
isophrone	66.1	40-140	ok
2-nitrophenol	69.2	30-130	ok
2,4-dimethylphenol	73.3	30-130	ok
benzoic acid	30.3	40-140	out
bis(2-chloroethoxy)methane	72.9	40-140	ok
2,4-dichlorophenol	70.7	30-130	ok
1,2,4-trichlorobenzene	60.3	40-140	ok
naphthalene	65.8	40-140	ok
4-chloroaniline	72.7	40-140	ok
hexachlorobutadiene	57.8	40-140	ok
4-chloro-3-methylphenol	74.7	30-130	ok
2-methylnaphthalene	60.4	40-140	ok
1,2,4,5-Tetrachlorobenzene	62.2	40-140	ok
aniline	66.9	40-140	ok
hexachlorocyclopentadiene	52.8	40-140	ok
2,4,6-trichlorophenol	69.2	30-130	ok
2,4,5-trichlorophenol	71.9	30-130	ok
2-chloronaphthalene	68.5	40-140	ok
2-nitroaniline	71.5	40-140	ok
dimethylphthalate	73.4	40-140	ok
acenaphthylene	69.6	40-140	ok
2,6-dinitrotoluene	72.7	40-140	ok
3-nitroaniline	75.6	40-140	ok
acenaphthene	68.3	40-140	ok
2,4-dinitrophenol	53.4	30-130	ok
dibenzofuran	68.7	40-140	ok
4-nitrophenol	48.6	30-130	ok
2,4-dinitrotoluene	73.1	40-140	ok
diethylphthalate	72.9	40-140	ok
fluorene	70.1	40-140	ok
4-chlorophenyl phenyl ether	66.9	40-140	ok
4-nitroaniline	74.8	30-130	ok
4,6-dinitro-2-methylphenol	65.5	30-130	ok
n-nitrosodiphenylamine	71.6	40-140	ok
azobenzene	68.7	40-140	ok
4-bromophenyl phenyl ether	67.6	40-140	ok
Pentachloronitrobenzene	71.3	40-140	ok
hexachlorobenzene	69.5	40-140	ok
pentachlorophenol	68.1	30-130	ok
phenanthrene	70.9	40-140	ok
anthracene	73.1	40-140	ok
carbazole	74.9	40-140	ok
di-n-butylphthalate	76.8	40-140	ok
fluoranthene	75.5	40-140	ok
benzidine	15.5	40-140	out
pyrene	75.6	40-140	ok
butylbenzylphthalate	78.9	40-140	ok
benz [a] anthracene	72.7	40-140	ok
3,3'-dichlorobenzidine	66.8	40-140	ok
chrysene	72.3	40-140	ok
bis(2-ethylhexyl)phthalate	77.3	40-140	ok
di-n-octylphthalate	75.6	40-140	ok
benzo [b] fluoranthene	76.0	40-140	ok
benzo [k] fluoranthene	75.4	40-140	ok
benzo [a] pyrene	76.7	40-140	ok
indeno [1,2,3-cd] pyrene	72.6	40-140	ok
dibenz [a,h] anthracene	74.5	40-140	ok
benzo [ghi] perylene	73.8	40-140	ok

CAM criteria allows 15% of analytes to exceed criteria

Surrogates:	Recovery (%)	Acceptance Limits	Verdict
2-FLUOROPHENOL	56.2	15-110	ok
PHENOL-D6	48.4	15-110	ok
NITROBENZENE-D5	64.2	30-130	ok
2-FLUOROBIPHENYL	54.5	30-130	ok
2,4,6-TRIBROMOPHENOL	73.2	15-110	ok
p-TERPHENYL-D14	69.4	30-130	ok

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748

EPA Method 8260 / 624.2 Aqueous Method Blank (MB) and Laboratory Control Sample/Duplicate (LCS/LCSD) Data

Method Blank			Laboratory Control Sample				Laboratory Control Sample Duplicate					
Date Analyzed:	6/9/2009		Date Analyzed:	6/9/2009			6/9/2009					
Volatile Organics	Conc. ug/L	Acceptance Limit	Spike Concentration = 20ug/L	% Recovery	Acceptance Limits	Verdict	% Recovery	Acceptance Limits	Verdict	RPD	Limit	Verdict
dichlorodifluoromethane	< 1.0	< 1.0	dichlorodifluoromethane	122	70-130	ok	116	70-130	ok	2.79	<25	ok
chloromethane	< 1.0	< 1.0	chloromethane	110	70-130	ok	99.3	70-130	ok	10.5	<25	ok
vinyl chloride	< 0.5	< 0.5	vinyl chloride	108	80-120	ok	104	70-130	ok	3.25	<25	ok
bromomethane	< 1.0	< 1.0	bromomethane	97.4	70-130	ok	95.2	70-130	ok	2.29	<25	ok
chloroethane	< 0.5	< 0.5	chloroethane	99.1	70-130	ok	97.0	70-130	ok	2.07	<25	ok
trichlorofluoromethane	< 1.0	< 1.0	trichlorofluoromethane	95.1	70-130	ok	93.4	70-130	ok	1.79	<25	ok
diethyl ether	< 2.5	< 2.5	diethyl ether	95.1	70-130	ok	94.2	70-130	ok	0.95	<25	ok
acetone	< 13	< 13	acetone	97.3	70-130	ok	97.1	70-130	ok	0.24	<25	ok
1,1-dichloroethene	< 0.5	< 0.5	1,1-dichloroethene	101	80-120	ok	96.8	70-130	ok	4.53	<25	ok
FREON-113	< 1.0	< 1.0	FREON-113	107	70-130	ok	105	70-130	ok	1.82	<25	ok
iodomethane	< 0.5	< 0.5	iodomethane	98.3	70-130	ok	95.2	70-130	ok	3.16	<25	ok
carbon disulfide	< 5.0	< 5.0	carbon disulfide	135	70-130	out	130	70-130	ok	3.71	<25	ok
dichloromethane	< 1.0	< 1.0	dichloromethane	96.3	70-130	ok	94.3	70-130	ok	2.11	<25	ok
tert-butyl alcohol (TBA)	< 13	< 13	tert-butyl alcohol (TBA)	106	70-130	ok	105	70-130	ok	3.23	<25	ok
acrylonitrile	< 0.5	< 0.5	acrylonitrile	101	70-130	ok	98.9	70-130	ok	2.51	<25	ok
methyl-tert-butyl-ether	< 0.5	< 0.5	methyl-tert-butyl-ether	91.3	70-130	ok	90.7	70-130	ok	0.65	<25	ok
trans-1,2-dichloroethene	< 0.5	< 0.5	trans-1,2-dichloroethene	109	70-130	ok	107	70-130	ok	2.08	<25	ok
1,1-dichloroethane	< 0.5	< 0.5	1,1-dichloroethane	97.3	70-130	ok	95.5	70-130	ok	1.88	<25	ok
di-isopropyl ether (DIPE)	< 1.0	< 1.0	di-isopropyl ether (DIPE)	96.6	70-130	ok	97.0	70-130	ok	0.42	<25	ok
ethyl tert-butyl ether (EtBE)	< 1.0	< 1.0	ethyl tert-butyl ether (EtBE)	92.3	70-130	ok	93.4	70-130	ok	1.18	<25	ok
vinyl acetate	< 13	< 13	vinyl acetate	88.9	70-130	ok	90.2	70-130	ok	1.46	<25	ok
2-butanone	< 13	< 13	2-butanone	98.3	70-130	ok	101	70-130	ok	2.42	<25	ok
2,2-dichloropropane	< 0.5	< 0.5	2,2-dichloropropane	94.2	70-130	ok	91.5	70-130	ok	2.95	<25	ok
cis-1,2-dichloroethene	< 0.5	< 0.5	cis-1,2-dichloroethene	90.3	70-130	ok	88.7	70-130	ok	1.73	<25	ok
chloroform	< 0.5	< 0.5	chloroform	90.2	80-120	ok	89.2	70-130	ok	1.09	<25	ok
bromochloromethane	< 0.5	< 0.5	bromochloromethane	96.7	70-130	ok	95.8	70-130	ok	0.87	<25	ok
tetrahydrofuran	< 5.0	< 5.0	tetrahydrofuran	117	70-130	ok	122	70-130	ok	4.16	<25	ok
1,1,1-trichloroethane	< 0.5	< 0.5	1,1,1-trichloroethane	89.9	70-130	ok	88.6	70-130	ok	1.55	<25	ok
1,1-dichloropropene	< 0.5	< 0.5	1,1-dichloropropene	96.1	70-130	ok	94.0	70-130	ok	4.35	<25	ok
carbon tetrachloride	< 0.5	< 0.5	carbon tetrachloride	91.3	70-130	ok	89.6	70-130	ok	1.89	<25	ok
1,2-dichloroethane	< 0.5	< 0.5	1,2-dichloroethane	86.7	70-130	ok	85.5	70-130	ok	1.38	<25	ok
benzene	< 0.5	< 0.5	benzene	103	70-130	ok	102	70-130	ok	0.96	<25	ok
tert-amyl methyl ether (TAME)	< 1.0	< 1.0	tert-amyl methyl ether (TAME)	93.0	70-130	ok	95.0	70-130	ok	2.12	<25	ok
trichloroethene	< 0.5	< 0.5	trichloroethene	99.7	70-130	ok	98.0	70-130	ok	1.77	<25	ok
1,2-dichloropropane	< 0.5	< 0.5	1,2-dichloropropane	99.3	80-120	ok	98.5	70-130	ok	0.73	<25	ok
bromodichloromethane	< 0.5	< 0.5	bromodichloromethane	87.6	70-130	ok	86.8	70-130	ok	1.16	<25	ok
1,4-Dioxane	< 50	< 50	1,4-Dioxane	117	70-130	ok	114	70-130	ok	2.50	<25	ok
dibromomethane	< 0.6	< 0.6	dibromomethane	93.5	70-130	ok	95.4	70-130	ok	1.96	<25	ok
4-methyl-2-pentanone	< 13	< 13	4-methyl-2-pentanone	90.4	70-130	ok	91.7	70-130	ok	1.41	<25	ok
cis-1,3-dichloropropene	< 0.5	< 0.5	cis-1,3-dichloropropene	96.5	70-130	ok	95.9	70-130	ok	0.62	<25	ok
toluene	< 0.5	< 0.5	toluene	99.0	80-120	ok	99.0	70-130	ok	0.01	<25	ok
trans-1,3-dichloropropene	< 1.0	< 1.0	trans-1,3-dichloropropene	87.3	70-130	ok	89.8	70-130	ok	2.68	<25	ok
1,1,2-trichloroethane	< 0.5	< 0.5	1,1,2-trichloroethane	94.0	70-130	ok	87.0	70-130	ok	7.77	<25	ok
2-hexanone	< 13	< 13	2-hexanone	99.1	70-130	ok	95.5	70-130	ok	3.70	<25	ok
1,3-dichloropropane	< 0.5	< 0.5	1,3-dichloropropane	101	70-130	ok	98.2	70-130	ok	3.09	<25	ok
tetrachloroethene	< 0.5	< 0.5	tetrachloroethene	107	70-130	ok	99.4	70-130	ok	7.83	<25	ok
dibromochloromethane	< 0.5	< 0.5	dibromochloromethane	99.4	70-130	ok	94.8	70-130	ok	4.93	<25	ok
1,2-dibromoethane (EDB)	< 1.0	< 1.0	1,2-dibromoethane (EDB)	102	70-130	ok	94.5	70-130	ok	7.31	<25	ok
chlorobenzene	< 0.5	< 0.5	chlorobenzene	103	70-130	ok	95.7	70-130	ok	6.88	<25	ok
1,1,1,2-tetrachloroethane	< 0.5	< 0.5	1,1,1,2-tetrachloroethane	97.6	70-130	ok	90.8	70-130	ok	7.20	<25	ok
ethylbenzene	< 0.5	< 0.5	ethylbenzene	106	80-120	ok	99.8	70-130	ok	6.32	<25	ok
1,1,2,2-tetrachloroethane	< 0.5	< 0.5	1,1,2,2-tetrachloroethane	95.4	70-130	ok	92.3	70-130	ok	3.27	<25	ok
m&p-xylene	< 1.0	< 1.0	m&p-xylene	101	70-130	ok	94.8	70-130	ok	6.64	<25	ok
o-xylene	< 0.5	< 0.5	o-xylene	96.4	70-130	ok	92.0	70-130	ok	4.69	<25	ok
styrene	< 0.5	< 0.5	styrene	103	70-130	ok	98.8	70-130	ok	3.73	<25	ok
bromoform	< 1.0	< 1.0	bromoform	96.6	70-130	ok	95.5	70-130	ok	0.06	<25	ok
isopropylbenzene	< 0.5	< 0.5	isopropylbenzene	118	70-130	ok	114	70-130	ok	3.66	<25	ok
1,2,3-trichloropropane	< 0.5	< 0.5	1,2,3-trichloropropane	94.1	70-130	ok	88.0	70-130	ok	6.73	<25	ok
bromobenzene	< 0.5	< 0.5	bromobenzene	98.7	70-130	ok	94.7	70-130	ok	4.14	<25	ok
n-propylbenzene	< 0.5	< 0.5	n-propylbenzene	106	70-130	ok	102	70-130	ok	3.61	<25	ok
2-chlorotoluene	< 0.5	< 0.5	2-chlorotoluene	96.7	70-130	ok	91.9	70-130	ok	5.10	<25	ok
1,3,5-trimethylbenzene	< 0.5	< 0.5	1,3,5-trimethylbenzene	102	70-130	ok	97.4	70-130	ok	5.12	<25	ok
trans-1,4-dichloro-2-butene	< 1.0	< 1.0	trans-1,4-dichloro-2-butene	90.2	70-130	ok	90.8	70-130	ok	0.73	<25	ok
4-chlorotoluene	< 0.5	< 0.5	4-chlorotoluene	98.2	70-130	ok	94.8	70-130	ok	3.56	<25	ok
tert-butyl-benzene	< 0.5	< 0.5	tert-butyl-benzene	119	70-130	ok	113	70-130	ok	4.83	<25	ok
1,2,4-trimethylbenzene	< 0.5	< 0.5	1,2,4-trimethylbenzene	96.0	70-130	ok	91.9	70-130	ok	4.43	<25	ok
sec-butyl-benzene	< 0.5	< 0.5	sec-butyl-benzene	101	70-130	ok	96.9	70-130	ok	4.75	<25	ok
p-isopropyltoluene	< 0.5	< 0.5	p-isopropyltoluene	99.7	70-130	ok	95.2	70-130	ok	4.60	<25	ok
1,3-dichlorobenzene	< 0.5	< 0.5	1,3-dichlorobenzene	100	70-130	ok	94.0	70-130	ok	6.23	<25	ok
1,4-dichlorobenzene	< 0.5	< 0.5	1,4-dichlorobenzene	98.1	70-130	ok	98.2	70-130	ok	0.11	<25	ok
n-butylbenzene	< 0.5	< 0.5	n-butylbenzene	99.1	70-130	ok	95.2	70-130	ok	4.01	<25	ok
1,2-dichlorobenzene	< 0.5	< 0.5	1,2-dichlorobenzene	95.3	70-130	ok	92.2	70-130	ok	3.33	<25	ok
1,2-dibromo-3-chloropropane	< 2.5	< 2.5	1,2-dibromo-3-chloropropane	97.2	70-130	ok	96.9	70-130	ok	0.24	<25	ok
1,3,5-trichlorobenzene	< 0.5	< 0.5	1,3,5-trichlorobenzene	96.0	70-130	ok	92.5	70-130	ok	3.86	<25	ok
1,2,4-trichlorobenzene	< 0.5	< 0.5	1,2,4-trichlorobenzene	100	70-130	ok	99.0	70-130	ok	1.07	<25	ok
hexachlorobutadiene	< 0.5	< 0.5	hexachlorobutadiene	101	70-130	ok	96.9	70-130	ok	4.49	<25	ok
naphthalene	< 1.0	< 1.0	naphthalene	91.0	70-130	ok	92.7	70-130	ok	1.81	<25	ok
1,2,3-trichlorobenzene	< 0.5	< 0.5	1,2,3-trichlorobenzene	94.6	70-130	ok	93.7	70-130	ok	0.95	<25	ok

Surrogates:	Recovery (%)	Acceptance Limits	Surrogates:	Recovery (%)	Acceptance Limits	Verdict	Recovery (%)	Acceptance Limits	Verdict	RPD	Acceptance Limits	Verdict
DIBROMOFLUOROMETHANE	94.4	70-130	DIBROMOFLUOROMETHANE	95.2	70-130	ok	94.4	70-130	ok	0.84	<25	ok
1,2-DICHLOROETHANE-D4	86.2	70-130	1,2-DICHLOROETHANE-D4	92.3	70-130	ok	95.6	70-130	ok	3.56	<25	ok
TOLUENE-D8	103	70-130	TOLUENE-D8	97.7	70-130	ok	102	70-130	ok	4.23	<25	ok
4-BROMOFLUOROBENZENE	94.9	70-130	4-BROMOFLUOROBENZENE	100	70-130	ok	98.1	70-130	ok	2.00	<25	ok
1,2-DICHLOROBENZENE-D4	99.4	70-130	1,2-DICHLOROBENZENE-D4	94.3	70-130	ok	95.3	70-130	ok	1.06	<25	ok

Instrument: HP GC/MS "S"

CHAIN-OF-CUSTODY RECORD

W.O. # 0906-00017 (for lab use only)

Sample I.D.	Date/Time Sampled	Matrix (A=Air, S=Soil, GW=Ground W., SW=Surface W., WW=Waste W., DW=Drinking W., P=Product, Other (specify))	pH / Cond.	GC Methane, Ethane, Ethene	EPA 8260	EPA 8260 – 8010 List (Chlor)	EPA 8260 – 8021 list	EPA 8021 – 8020 List (BTEX)	EPA 524.2 DW VOCs	EPA 624 WW VOCs	601 / 602 WW VOCs	EPA 8270 FULL SVOCs	EPA 8270 PAH / A / BN	EPA 625 WW SVOCs	EPA 8082–PCBs	EPA 8081–Pest	TPH-GC (Mod. 8100)	TPH-GC w/FING.	EPH (MA DEP)	VPH (MA DEP)	Metals PPM-13 / R-8	MCP 14 Metals (MA)	Metals (List Below)**	TCLP – Specify Below	SPLP – Specify Below	EPA 300 Cl / SO4	EPA 300 NO2 / NO3	Total Chromium	Dissolved Chromium	Total # of Cont.	Note #
MW-4A	6-1-09	GW			X							X					X											X	X		①
MW-2A	↓	↓			X							X					X											X	X		①
MW-1A	↓	↓			X							X					X											X	X		①
MW-~~5A~~ B	↓	↓			X							X					X											X	X		① ③
MW-3	↓	↓			X							X					X											X	X		①
MW-6	↓	↓			X							X					X											X	X		①
TBLK060109	↓	↓			X																										
PRESERVATIVE (Cl - HCl, M=Methanol, N - HNO3, S - H2SO4, Na - NaOH, O - Other)*					Cl							—					—											N	N		
CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, T-Teflon, O-Other)*					V							G					G											P	P		

RELINQUISHED BY: (AFFILIATION) [signature] DATE/TIME 6-2-09 0700 RECEIVED BY: (AFFILIATION) Bill Brisson 6/2/09 0700

RELINQUISHED BY: (AFFILIATION) Bill Brisson DATE/TIME 6/2/09 1050 RECEIVED BY: (AFFILIATION) [signature] 6/2/09 1530

RELINQUISHED BY: (AFFILIATION) DATE/TIME RECEIVED BY: (AFFILIATION)

NOTES: (Unless otherwise noted, all samples have been refrigerated to 4° C)
*Specify "Other" preservatives and containers types in this space.

① Please only analyze for the SVOC 2-bis-ethylhexylphthalate.
② only analyze for Total and Dissolved Chromium.
③ ID change per S.A. [initials] 6/4/09

PROJECT MANAGER: Steve Andrus EXT: 2740

TURNAROUND TIME: (Standard) Rush __ Days, Approved by ________

LAB USE: TEMP. OF COOLER 4.2 °C 3.9 (Temp Blank) 0709 Cooler Air ____ 6/2/09 1115 [initials]

6/2 [initials] GZA FILE NO: 03.0032795 33 TASK NO: ________ P.O. NO. ________

PROJECT Charbert, UIC Sampling

LOCATION Alton, RI

COLLECTOR(S) Erik Beliff SHEET 1 OF 1

GZA GeoEnvironmental, Inc.
Labaratory Division

106 South Street
Hopkinton, MA 01748
(781) 278-4700
FAX (508) 435-9912

APPENDIX E

SIXTH QUARTERLY PERIMETER WELL MONITORING RESULTS

DRAFT FOR CLIENT REVIEW

August 13, 2009
File No. 32795.29

Mr. Gary Jablonski
Rhode Island Department of Environmental Management
Office of Waste Management
235 Promenade Street
Providence, Rhode Island 02908

Re: Sixth Quarterly (April-June 2009) Perimeter Well Monitoring Report
Charbert, Division of N.F.A.
Richmond, Rhode Island
RIDEM Case # 99-037

Dear Mr. Jablonski:

This letter with attachments serves as the sixth quarterly Perimeter Well Monitoring Report for the Charbert facility located at 299 Church Street in Richmond (Alton), Rhode Island. It was prepared by GZA GeoEnvironmental, Inc., on behalf of our client Charbert, Division of N.F.A.

In accordance with discussions during the conference call on April 23, 2008 between RIDEM and Charbert, it was agreed that, as part of the environmental monitoring, additional groundwater samples would be collected from perimeter wells located between the Charbert facility and nearby private wells and analyzed for VOCs, see Figure 1, attached. Perimeter monitoring wells included RIZ-1, GP-22, RIZ-21, GZ-1 and RIZ-14. Sample results from these wells were received on May 1, 2008. Based on previous results and the results of the Piezometric Monitoring Report dated May 2, 2008, RIDEM concurred with Charbert's recommendation (received via email 5/9/08) to sample these wells for a total of eight quarters, following which the need for any future monitoring will be assessed.

Groundwater Sampling

GZA personnel were on site on July 9, 2009 and collected samples from five monitoring wells, RIZ-1, RIZ-14, RIZ-21, GP-22 and GZ-1. Groundwater sampling was performed in general accordance with EPA's July 30, 1996 *Low Stress (low flow) Purging and Sampling Procedure* (Low Flow SOP). Low flow sampling equipment (exclusive of tubing which was dedicated to the wells) was decontaminated prior to use on-site and between each location following EPA's required protocols. Water quality monitoring for stabilization was conducted utilizing a Horiba multi-meter in a flow through cell.

Analysis

As agreed upon, groundwater was analyzed for volatile organic compounds (VOCs) via EPA Method 8260B in samples from all five monitoring wells. The detected analytes have been summarized and compared to RIDEM's Method 1 GA Groundwater Objectives and Groundwater Quality Preventative Action Limits (PALs) in the attached Table 1. The low flow field screening results are provided in Table 2, attached, and the laboratory certificates of analysis are provided in Attachment A.

Results

The July 9, 2009 groundwater results have been compared to the applicable groundwater standards for Rhode Island and there are GA Groundwater Objectives exceedances for VOCs in one of the five wells. The remaining four wells had no VOCs detected above the method detection limit.

The sample from monitoring well GZ-1 has five VOCs detected with cis-1,2-dichloroethene present at 50 µg/L, (above the PAL of 35 µg/L), and trichloroethene present at 10.0 µg/L, (above the GA Groundwater Objectives of 5 µg/L). The three other detects were 1,1-dichloroethane at 2.3 µg/L, tetrachloroethene at 2.1 µg/L, and 1,2,4-trichlorobenzene at 4.3 µg/L. These results are consistent with prior contaminant levels observed in samples from GZ-1. For reference, all previous analytical testing results for the five wells tested on July 9, 2009 have been included in Table 1.

At this time, we do not see any significant change in the pattern of migration of contaminants from the previously delineated areas of concern, and no changes in groundwater elevations that would suggest that a deleterious change in contaminant distribution is occurring. The perimeter wells will be sampled and analyzed on a quarterly basis for the next two quarters, after which the need to continue sampling these monitoring wells will be re-evaluated in conjunction with RIDEM.

Please feel free to call Ed, Steve or Angela at (401) 421-4140 (or via email at *esummerly@gza.com, stephen.andrus@gza.com, or angela.harvey@gza.com*) with any questions or comments.

Very truly yours,

GZA GEOENVIRONMENTAL, INC.

Angela L. Harvey, E.I.T.
Project Engineer

Stephen Andrus, P.E.
Assistant Project Manager

Edward A. Summerly, P.G.
Principal

ALH/EAS:mac

CC: Tracy Nelson Hay, Richmond Town Clerk
Clark Memorial Library – Charbert Repository

Attachments: Tables - Table 1 - Detected Constituents
Table 2 - Low Flow Field Screening Readings
Figure 1- Monitoring Well Locations
Attachment A – Laboratory Certification Sheets

TABLE 1
DETECTED CONSTITUENTS SUMMARY

July 2009 Perimeter Wells
Charbert Facility
Richmond, Rhode Island

GZ-1	UNITS	RIDEM GA Groundwater Objectives	RIDEM Groundwater Quality PALs	DATE															
				8/6/2004		2/15/2005		4/25/2008		7/7/2008		10/3/2008		1/6/2009		4/1/2009		7/9/2009	
				Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit
VOLATILE ORGANICS																			
1,2,4-Trimethylbenzene	ug/L (ppb)	NS	NS	<	1	<	1	<	1	4.2	1	4.2	1	3.9	1	<	1	<	1
1,1-Dichloroethane	ug/L (ppb)	---	---	2.2	1	2.0	1	1.0	1	<	1	1.5	1	1.8	1	1.8	1	2.3	1
1,2,3-Trichlorobenzene	ug/L (ppb)	---	---	<	1	8.3	1	<	1	<	1	<	1	<	1	<	1	<	1
1,2,4-Trichlorobenzene	ug/L (ppb)	70	35	9.5	1	<	1	3.0	1	<	1	<	1	<	1	3.6	1	4.3	1
cis-1,2-Dichloroethene	ug/L (ppb)	70	35	**73**	1	**68**	1	**29**	1	**20**	1	**39**	1	**45**	1	**41**	1	**50**	1
Tetrachloroethene	ug/L (ppb)	5	2.5	2.2	1	2.0	1	<	1	**1.2**	1	**1.6**	1	**2.0**	1	**2.1**	1	**2.1**	1
trans-1,2-Dichloroethene	ug/L (ppb)	100	50	<	1	1.0	1	<	1	<	1	<	1	<	1	<	1	<	1
Trichloroethene	ug/L (ppb)	5	2.5	**12**	1	**8.6**	1	**5.0**	1	**4.2**	1	**8.0**	1	**10**	1	**9.6**	1	**10**	1
Vinyl Chloride	ug/L (ppb)	2	1	**1.1**	1	**1.4**	1	<	1	<	1	<	1	<	1	<	1	<	1

RIZ-1	UNITS	RIDEM GA Groundwater Objectives	RIDEM Groundwater Quality PALs	DATE															
				01/02//2008		4/1/2008		4/25/2008		7/7/2008		10/3/2008		1/6/2009		4/1/2009		7/9/2009	
				Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit
VOLATILE ORGANICS	ug/L (ppb)			ND		ND		ND		ND		ND		ND		ND		ND	

RIZ-14	UNITS	RIDEM GA Groundwater Objectives	RIDEM Groundwater Quality PALs	DATE											
				4/25/2008		7/7/2008		10/3/2008		1/6/2009		4/1/2009		7/9/2009	
				Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit
VOLATILE ORGANICS															
Tetrachloroethene	ug/L (ppb)	5	2.5	<	1.0	**4.4**	1.0	ND	1	ND	1	ND	1	ND	1

RIZ-21	UNITS	RIDEM GA Groundwater Objectives	RIDEM Groundwater Quality PALs	DATE											
				4/25/2008		7/7/2008		10/3/2008		1/6/2009		4/1/2009		7/9/2009	
				Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit
VOLATILE ORGANICS	ug/L (ppb)			ND		ND		ND		ND		ND		ND	

GP-22	UNITS	RIDEM GA Groundwater Objectives	RIDEM Groundwater Quality PALs	DATE															
				2/15/2005		4/25/2008		7/7/2008		10/3/2008		10/28/2008		1/6/2009		4/1/2009		7/9/2009	
				Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit
VOLATILE ORGANICS																			
Tetrachloroethene	ug/L (ppb)	5	2.5	<		<		<		**12**	1	<	1	<	1	<	1	<	1

Notes:
1. Cells shaded yellow have results above the method detection limit.
2. Cells shaded green are above RIDEM GA Groundwater Objective.
3. Cells shaded blueare above RIDEM Preventative Action Limit.
ND= Not Detected

TABLE 2
LOW FLOW SCREENING RESULTS

July 2009 Perimeter Wells
Charbert Facility
Richmond, RI

APRIL 2009 GROUNDWATER SAMPLING FIELD DATA								
WELL ID	pH	CONDUCTIVITY	TURBIDITY	DISSOLVED OXYGEN	TEMPERATURE	ORP	DEPTH TO GWT	GW ELEV.
	SU	mS/cm	NTU	mg/l	^{o}C	mV	FT	FT
RIZ-1	5.3	0.962	3.4	7.1	16.1	222	3.5	46.7
RIZ-14	4.4	0.034	5.1	8.0	13.2	303	13.7	49.0
RIZ-21	5.8	0.225	3.0	7.2	9.4	44	8.8	44.1
GZ-1	8.3	0.375	3.9	NT	13.1	-144	12.3	44.2
GP-22	6.5	0.276	23.4	6.8	16.2	119	3.8	44.8

Notes:
1. Field screening parameters were collected using a Horiba Model U-22 Water Quality Monitor.

GENERAL NOTES

1 BASE MAP DEVELOPED FROM ELECTRONIC CAD FILES PROVIDED BY AEROTECH INTERNATIONAL DIGITAL PHOTOGRAMMETRIC MAPPING DATED 12-01-04, DATE FLOWN MARCH 26, 1999. THE TOPOGRAPHY OF THE LAGOONS, THE 1998, 2001 AND 2004 SOIL STOCK PILES WERE UPDATED BY INSTRUMENT SURVEY CONDUCTED BY GZA PERSONNEL IN SEPTEMBER 2004 THROUGH FEBRUARY 2005.

2 THE LOCATIONS AND ELEVATIONS OF MONITORING WELLS AND EXPLORATIONS WERE APPROXIMATELY DETERMINED BY SURVEY. THIS DATA SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.

WOOD RIVER
GP-28
RIZ-5
GZ-20
WATER TOWER
GZ-19
RIZ-7
INDUSTRIAL WASTE PUMP HOUSE
GZ-23
GZ-21
GZ-22
OIL BUNKER
DRUM STORAGE AREA
FORMER (LAGOON 5)
RIZ-6
GZ-ML-3
RIZ-13
GZ-3
GZ-7
GP-26
GP-25
RIZ-3
EXTERIOR SVE/AS AREA
CHARBERT MILL BUILDING
GZ-6
CB-9
EW-4
PT-5
PT-4
EW-3
PT-1
EW-2
EW-1
RIZ-21
GP-22
GP-27B
GP-27A
GZ-8
INTERIOR SVE/AS AREA
WETLANDS BOUNDARY
RIVER EDGE
PT-2
GZ-1
RIZ-1
RIVER STREET
#18
#16
#14
#12
#10
GZ-ML-2
CHARBERT EMPLOYEE PARKING LOT
PSFM
JIC-MW6
SFM
IWW

REV. NO.	DESCRIPTION	BY	DATE

PROJ MGR: SMA
DESIGNED BY: SMA
REVIEWED BY: EAS
OPERATOR: DL
DATE: AUG., 2008

1 INCH = 80 FEET
0 40 80 160

GZA
GeoEnvironmental, Inc.
Engineers and Scientists
530 BROADWAY
PROVIDENCE, RI 02909
(401) 421-4140
(401) 751-8613

CHARBERT FACILITY
ALTON, RHODE ISLAND

INTERIM COMPLIANCE MONITORING REPORT
MONITORING WELL LOCATIONS

JOB NO.
32795.29

FIGURE NO.
1

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

Laboratory Identification Numbers:
MA and ME: **MA092** NH: **2028**
CT: **PH0579** RI: **LAO00236**
NELAC - NYS DOH: **11063**

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus / Angela Harvey

Project No.: **03.0032795.29**
Work Order No.: **0907-00069**
Date Received: **07/10/2009**
Date Reported: **07/17/2009**

SAMPLE INFORMATION

Date Sampled	Matrix	Laboratory ID	Sample ID
07/09/2009	Aqueous	0907-00069 001	GP-22
07/09/2009	Aqueous	0907-00069 002	RIZ-21
07/09/2009	Aqueous	0907-00069 003	GZ-1
07/09/2009	Aqueous	0907-00069 004	RIZ-1
07/09/2009	Aqueous	0907-00069 005	RIZ-14
07/09/2009	Aqueous	0907-00069 006	Trip Blank

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(781) 278-4700

A N A L Y T I C A L R E P O R T

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus / Angela Harvey

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **07/10/2009**
Date Reported: **07/17/2009**
Work Order No.: **0907-00069**

PROJECT NARRATIVE:

1. Sample Receipt

The samples were received on 07/10/09 via _x_GZA courier, __EC, __FEDEX, or ___hand delivered. The temperature of the __temperature blank/_x_cooler air, was 1.3 degrees C. The temperature requirement for most analyses is above freezing to 6 degrees C. The samples were received intact for all requested analyses.

The chain of custody indicates that the samples, when required, were chemically preserved in accordance with the method they reference.

2. EPA Method 8260 - VOCs

Attach QC 8260 07/16/09 S - Aqueous

GZA GeoEnvironmental, Inc.
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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus / Angela Harvey

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **07/10/2009**
Date Reported: **07/17/2009**
Work Order No.: **0907-00069**

Data Authorized By: _____

NELAC certification, as indicated by the NELAC Lab ID Number, is per analyte. For a complete list of NELAC validated analytes, please contact the laboratory.

Abbreviations:
% R = % Recovery
DF = Dilution Factor
DFS = Dilution Factor Solids
CF = Calculation Factor
DO = Diluted Out

Method Key:
Method 8260: The current version of the method is 8260B.
Method 8270: The current version of the method is 8270D.
Method 6010: The current version of the method is 6010B.

Please note that the laboratory signed copy of the chain of custody record is an integral part of the data report.

Soil data is reported on a dry weight basis unless otherwise specified.
Matrix Spike / Matrix Spike Duplicate sets are performed as per method and are reported at the end of the analytical report if assigned on the Chain of Custody.

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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus / Angela Harvey

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **07/10/2009**
Date Reported: **07/17/2009**
Work Order No.: **0907-00069**

Sample ID: **GP-22** Sample No.: **001**

Sample Date: **07/09/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260				MQS	07/16/2009
Dichlorodifluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
Chloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
Vinyl Chloride	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Bromomethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
Chloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Trichlorofluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
Diethylether	EPA 8260	<5.0	5.0	ug/L	MQS	07/16/2009
Acetone	EPA 8260	<25	25	ug/L	MQS	07/16/2009
1,1-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Dichloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
trans-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,1-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
2-Butanone	EPA 8260	<25	25	ug/L	MQS	07/16/2009
2,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
cis-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Chloroform	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Bromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Tetrahydrofuran	EPA 8260	<10	10	ug/L	MQS	07/16/2009
1,1,1-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,1-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Carbon Tetrachloride	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,2-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Benzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Trichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Bromodichloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Dibromomethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
4-Methyl-2-Pentanone	EPA 8260	<25	25	ug/L	MQS	07/16/2009
cis-1,3-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Toluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
trans-1,3-Dichloropropene	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
1,1,2-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
2-Hexanone	EPA 8260	<25	25	ug/L	MQS	07/16/2009

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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus / Angela Harvey

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **07/10/2009**
Date Reported: **07/17/2009**
Work Order No.: **0907-00069**

Sample ID: **GP-22** Sample No.: **001**
Sample Date: **07/09/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,3-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Tetrachloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Dibromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
Chlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Ethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
m&p-Xylene	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
o-Xylene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Styrene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Bromoform	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
Isopropylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,2,3-Trichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Bromobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
N-Propylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
2-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,3,5-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
4-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
tert-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,2,4-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
sec-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
p-Isopropyltoluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,3-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,4-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
n-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,2-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	5.0	ug/L	MQS	07/16/2009
1,2,4-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Hexachlorobutadiene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Naphthalene	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
1,2,3-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	94.2	70-130	% R	MQS	07/16/2009
***Toluene-D8	EPA 8260	101	70-130	% R	MQS	07/16/2009

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A N A L Y T I C A L R E P O R T

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Stephen Andrus / Angela Harvey

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **07/10/2009**
Date Reported: **07/17/2009**
Work Order No.: **0907-00069**

Sample ID: **GP-22** Sample No.: **001**

Sample Date: **07/09/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
***4-Bromofluorobenzene	EPA 8260	104	70-130	% R	MQS	07/16/2009
Preparation	EPA 5030B	1.0		CF	MQS	07/16/2009

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ANALYTICAL REPORT

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Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **07/10/2009**
Date Reported: **07/17/2009**
Work Order No.: **0907-00069**

Sample ID: **RIZ-21** Sample No.: **002**

Sample Date: **07/09/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260				MQS	07/16/2009
Dichlorodifluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
Chloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
Vinyl Chloride	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Bromomethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
Chloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Trichlorofluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
Diethylether	EPA 8260	<5.0	5.0	ug/L	MQS	07/16/2009
Acetone	EPA 8260	<25	25	ug/L	MQS	07/16/2009
1,1-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Dichloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
trans-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,1-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
2-Butanone	EPA 8260	<25	25	ug/L	MQS	07/16/2009
2,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
cis-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Chloroform	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Bromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Tetrahydrofuran	EPA 8260	<10	10	ug/L	MQS	07/16/2009
1,1,1-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,1-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Carbon Tetrachloride	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,2-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Benzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Trichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Bromodichloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Dibromomethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
4-Methyl-2-Pentanone	EPA 8260	<25	25	ug/L	MQS	07/16/2009
cis-1,3-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Toluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
trans-1,3-Dichloropropene	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
1,1,2-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
2-Hexanone	EPA 8260	<25	25	ug/L	MQS	07/16/2009

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ANALYTICAL REPORT

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Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **07/10/2009**
Date Reported: **07/17/2009**
Work Order No.: **0907-00069**

Sample ID: **RIZ-21** Sample No.: **002**
Sample Date: **07/09/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,3-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Tetrachloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Dibromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
Chlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Ethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
m&p-Xylene	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
o-Xylene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Styrene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Bromoform	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
Isopropylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,2,3-Trichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Bromobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
N-Propylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
2-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,3,5-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
4-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
tert-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,2,4-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
sec-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
p-Isopropyltoluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,3-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,4-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
n-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,2-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	5.0	ug/L	MQS	07/16/2009
1,2,4-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Hexachlorobutadiene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Naphthalene	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
1,2,3-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	96.3	70-130	% R	MQS	07/16/2009
***Toluene-D8	EPA 8260	99.5	70-130	% R	MQS	07/16/2009

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A N A L Y T I C A L R E P O R T

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Stephen Andrus / Angela Harvey

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **07/10/2009**
Date Reported: **07/17/2009**
Work Order No.: **0907-00069**

Sample ID: **RIZ-21** Sample No.: **002**

Sample Date: **07/09/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
***4-Bromofluorobenzene	EPA 8260	102	70-130	% R	MQS	07/16/2009
Preparation	EPA 5030B	1.0		CF	MQS	07/16/2009

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Project No.: **03.0032795.29**

Date Received: **07/10/2009**
Date Reported: **07/17/2009**
Work Order No.: **0907-00069**

Sample ID: **GZ-1** Sample No.: **003**

Sample Date: **07/09/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260				MQS	07/16/2009
Dichlorodifluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
Chloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
Vinyl Chloride	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Bromomethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
Chloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Trichlorofluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
Diethylether	EPA 8260	<5.0	5.0	ug/L	MQS	07/16/2009
Acetone	EPA 8260	<25	25	ug/L	MQS	07/16/2009
1,1-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Dichloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
trans-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,1-Dichloroethane	EPA 8260	2.3	1.0	ug/L	MQS	07/16/2009
2-Butanone	EPA 8260	<25	25	ug/L	MQS	07/16/2009
2,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
cis-1,2-Dichloroethene	EPA 8260	50	1.0	ug/L	MQS	07/16/2009
Chloroform	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Bromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Tetrahydrofuran	EPA 8260	<10	10	ug/L	MQS	07/16/2009
1,1,1-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,1-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Carbon Tetrachloride	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,2-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Benzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Trichloroethene	EPA 8260	10	1.0	ug/L	MQS	07/16/2009
1,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Bromodichloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Dibromomethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
4-Methyl-2-Pentanone	EPA 8260	<25	25	ug/L	MQS	07/16/2009
cis-1,3-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Toluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
trans-1,3-Dichloropropene	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
1,1,2-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
2-Hexanone	EPA 8260	<25	25	ug/L	MQS	07/16/2009

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ANALYTICAL REPORT

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Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **07/10/2009**
Date Reported: **07/17/2009**
Work Order No.: **0907-00069**

Sample ID: **GZ-1** Sample No.: **003**

Sample Date: **07/09/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,3-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Tetrachloroethene	EPA 8260	2.1	1.0	ug/L	MQS	07/16/2009
Dibromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
Chlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Ethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
m&p-Xylene	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
o-Xylene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Styrene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Bromoform	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
Isopropylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,2,3-Trichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Bromobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
N-Propylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
2-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,3,5-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
4-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
tert-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,2,4-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
sec-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
p-Isopropyltoluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,3-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,4-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
n-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,2-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	5.0	ug/L	MQS	07/16/2009
1,2,4-Trichlorobenzene	EPA 8260	4.3	1.0	ug/L	MQS	07/16/2009
Hexachlorobutadiene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Naphthalene	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
1,2,3-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	91.4	70-130	% R	MQS	07/16/2009
***Toluene-D8	EPA 8260	100	70-130	% R	MQS	07/16/2009

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Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **07/10/2009**
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Work Order No.: **0907-00069**

Sample ID: **GZ-1** Sample No.: **003**

Sample Date: **07/09/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
***4-Bromofluorobenzene	EPA 8260	104	70-130	% R	MQS	07/16/2009
Preparation	EPA 5030B	1.0		CF	MQS	07/16/2009

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ANALYTICAL REPORT

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Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **07/10/2009**
Date Reported: **07/17/2009**
Work Order No.: **0907-00069**

Sample ID: **RIZ-1** Sample No.: **004**

Sample Date: **07/09/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260				MQS	07/16/2009
Dichlorodifluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
Chloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
Vinyl Chloride	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Bromomethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
Chloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Trichlorofluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
Diethylether	EPA 8260	<5.0	5.0	ug/L	MQS	07/16/2009
Acetone	EPA 8260	<25	25	ug/L	MQS	07/16/2009
1,1-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Dichloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
trans-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,1-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
2-Butanone	EPA 8260	<25	25	ug/L	MQS	07/16/2009
2,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
cis-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Chloroform	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Bromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Tetrahydrofuran	EPA 8260	<10	10	ug/L	MQS	07/16/2009
1,1,1-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,1-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Carbon Tetrachloride	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,2-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Benzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Trichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Bromodichloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Dibromomethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
4-Methyl-2-Pentanone	EPA 8260	<25	25	ug/L	MQS	07/16/2009
cis-1,3-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Toluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
trans-1,3-Dichloropropene	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
1,1,2-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
2-Hexanone	EPA 8260	<25	25	ug/L	MQS	07/16/2009

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ANALYTICAL REPORT

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Stephen Andrus / Angela Harvey

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **07/10/2009**
Date Reported: **07/17/2009**
Work Order No.: **0907-00069**

Sample ID: **RIZ-1** Sample No.: **004**

Sample Date: **07/09/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,3-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Tetrachloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Dibromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
Chlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Ethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
m&p-Xylene	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
o-Xylene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Styrene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Bromoform	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
Isopropylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,2,3-Trichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Bromobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
N-Propylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
2-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,3,5-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
4-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
tert-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,2,4-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
sec-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
p-Isopropyltoluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,3-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,4-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
n-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,2-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	5.0	ug/L	MQS	07/16/2009
1,2,4-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Hexachlorobutadiene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Naphthalene	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
1,2,3-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	94.9	70-130	% R	MQS	07/16/2009
***Toluene-D8	EPA 8260	100	70-130	% R	MQS	07/16/2009

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A N A L Y T I C A L R E P O R T

GZA GeoEnvironmental, Inc.
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Stephen Andrus / Angela Harvey

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **07/10/2009**
Date Reported: **07/17/2009**
Work Order No.: **0907-00069**

Sample ID: **RIZ-1** Sample No.: **004**

Sample Date: **07/09/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
***4-Bromofluorobenzene	EPA 8260	103	70-130	% R	MQS	07/16/2009
Preparation	EPA 5030B	1.0		CF	MQS	07/16/2009

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Stephen Andrus / Angela Harvey

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **07/10/2009**
Date Reported: **07/17/2009**
Work Order No.: **0907-00069**

Sample ID: **RIZ-14** Sample No.: **005**

Sample Date: **07/09/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260				MQS	07/16/2009
Dichlorodifluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
Chloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
Vinyl Chloride	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Bromomethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
Chloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Trichlorofluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
Diethylether	EPA 8260	<5.0	5.0	ug/L	MQS	07/16/2009
Acetone	EPA 8260	<25	25	ug/L	MQS	07/16/2009
1,1-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Dichloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
trans-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,1-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
2-Butanone	EPA 8260	<25	25	ug/L	MQS	07/16/2009
2,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
cis-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Chloroform	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Bromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Tetrahydrofuran	EPA 8260	<10	10	ug/L	MQS	07/16/2009
1,1,1-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,1-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Carbon Tetrachloride	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,2-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Benzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Trichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Bromodichloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Dibromomethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
4-Methyl-2-Pentanone	EPA 8260	<25	25	ug/L	MQS	07/16/2009
cis-1,3-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Toluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
trans-1,3-Dichloropropene	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
1,1,2-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
2-Hexanone	EPA 8260	<25	25	ug/L	MQS	07/16/2009

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Stephen Andrus / Angela Harvey

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **07/10/2009**
Date Reported: **07/17/2009**
Work Order No.: **0907-00069**

Sample ID: **RIZ-14** Sample No.: **005**

Sample Date: **07/09/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,3-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Tetrachloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Dibromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
Chlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Ethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
m&p-Xylene	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
o-Xylene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Styrene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Bromoform	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
Isopropylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,2,3-Trichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Bromobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
N-Propylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
2-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,3,5-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
4-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
tert-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,2,4-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
sec-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
p-Isopropyltoluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,3-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,4-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
n-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,2-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	5.0	ug/L	MQS	07/16/2009
1,2,4-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Hexachlorobutadiene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Naphthalene	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
1,2,3-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	96.3	70-130	% R	MQS	07/16/2009
***Toluene-D8	EPA 8260	101	70-130	% R	MQS	07/16/2009

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Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **07/10/2009**
Date Reported: **07/17/2009**
Work Order No.: **0907-00069**

Sample ID: **RIZ-14** Sample No.: **005**

Sample Date: **07/09/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
***4-Bromofluorobenzene	EPA 8260	102	70-130	% R	MQS	07/16/2009
Preparation	EPA 5030B	1.0		CF	MQS	07/16/2009

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ANALYTICAL REPORT

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Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **07/10/2009**
Date Reported: **07/17/2009**
Work Order No.: **0907-00069**

Sample ID: **Trip Blank** Sample No.: **006**

Sample Date: **07/09/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260				MQS	07/16/2009
Dichlorodifluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
Chloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
Vinyl Chloride	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Bromomethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
Chloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Trichlorofluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
Diethylether	EPA 8260	<5.0	5.0	ug/L	MQS	07/16/2009
Acetone	EPA 8260	<25	25	ug/L	MQS	07/16/2009
1,1-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Dichloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
trans-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,1-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
2-Butanone	EPA 8260	<25	25	ug/L	MQS	07/16/2009
2,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
cis-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Chloroform	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Bromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Tetrahydrofuran	EPA 8260	<10	10	ug/L	MQS	07/16/2009
1,1,1-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,1-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Carbon Tetrachloride	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,2-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Benzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Trichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Bromodichloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Dibromomethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
4-Methyl-2-Pentanone	EPA 8260	<25	25	ug/L	MQS	07/16/2009
cis-1,3-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Toluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
trans-1,3-Dichloropropene	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
1,1,2-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
2-Hexanone	EPA 8260	<25	25	ug/L	MQS	07/16/2009

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ANALYTICAL REPORT

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Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **07/10/2009**
Date Reported: **07/17/2009**
Work Order No.: **0907-00069**

Sample ID: **Trip Blank** Sample No.: **006**

Sample Date: **07/09/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,3-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Tetrachloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Dibromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
Chlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Ethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
m&p-Xylene	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
o-Xylene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Styrene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Bromoform	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
Isopropylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,2,3-Trichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Bromobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
N-Propylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
2-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,3,5-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
4-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
tert-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,2,4-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
sec-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
p-Isopropyltoluene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,3-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,4-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
n-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,2-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	5.0	ug/L	MQS	07/16/2009
1,2,4-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Hexachlorobutadiene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Naphthalene	EPA 8260	<2.0	2.0	ug/L	MQS	07/16/2009
1,2,3-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	07/16/2009
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	96.9	70-130	% R	MQS	07/16/2009
***Toluene-D8	EPA 8260	100	70-130	% R	MQS	07/16/2009

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Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **07/10/2009**
Date Reported: **07/17/2009**
Work Order No.: **0907-00069**

Sample ID: **Trip Blank** Sample No.: **006**

Sample Date: **07/09/2009**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
***4-Bromofluorobenzene	EPA 8260	102	70-130	% R	MQS	07/16/2009
Preparation	EPA 5030B	1.0		CF	MQS	07/16/2009

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748

EPA Method 8260 / 524.2 Aqueous Method Blank (MB) and Laboratory Control Sample/Duplicate (LCS/LCSD) Data

Method Blank			Laboratory Control Sample				Laboratory Control Sample Duplicate					
Date Analyzed:	7/16/2009		Date Analyzed:	7/16/2009			7/16/2009					
Volatile Organics	Conc. ug/L	Acceptance Limit	Spike Concentration = 20ug/L	% Recovery	Acceptance Limits	Verdict	% Recovery	Acceptance Limits	Verdict	RPD	Limit	Verdict
dichlorodifluoromethane	< 1.0	< 1.0	dichlorodifluoromethane	82.5	70-130	ok	84.9	70-130	ok	2.84	<25	ok
chloromethane	< 1.0	< 1.0	chloromethane	107	70-130	ok	111	70-130	ok	3.83	<25	ok
vinyl chloride	< 0.5	< 0.5	vinyl chloride	94.0	80-120	ok	95.0	70-130	ok	1.08	<25	ok
bromomethane	< 1.0	< 1.0	bromomethane	85.0	70-130	ok	84.1	70-130	ok	1.05	<25	ok
chloroethane	< 0.5	< 0.5	chloroethane	89.3	70-130	ok	89.2	70-130	ok	0.04	<25	ok
trichlorofluoromethane	< 1.0	< 1.0	trichlorofluoromethane	74.3	70-130	ok	75.9	70-130	ok	2.12	<25	ok
diethyl ether	< 2.5	< 2.5	diethyl ether	91.4	70-130	ok	95.8	70-130	ok	4.70	<25	ok
acetone	< 13	< 13	acetone	107	70-130	ok	107	70-130	ok	0.50	<25	ok
1,1-dichloroethene	< 0.5	< 0.5	1,1-dichloroethene	88.5	80-120	ok	91.8	70-130	ok	3.68	<25	ok
FREON-113	< 1.0	< 1.0	FREON-113	79.7	70-130	ok	81.3	70-130	ok	1.90	<25	ok
iodomethane	< 0.5	< 0.5	iodomethane	73.7	70-130	ok	74.8	70-130	ok	1.40	<25	ok
carbon disulfide	< 5.0	< 5.0	carbon disulfide	102	70-130	ok	105	70-130	ok	2.96	<25	ok
dichloromethane	< 1.0	< 1.0	dichloromethane	97.4	70-130	ok	101	70-130	ok	3.23	<25	ok
tert-butyl alcohol (TBA)	< 13	< 13	tert-butyl alcohol (TBA)	90.8	70-130	ok	93.2	70-130	ok	2.58	<25	ok
acrylonitrile	< 0.5	< 0.5	acrylonitrile	115	70-130	ok	111	70-130	ok	3.18	<25	ok
methyl-tert-butyl-ether	< 0.5	< 0.5	methyl-tert-butyl-ether	88.4	70-130	ok	92.5	70-130	ok	4.54	<25	ok
trans-1,2-dichloroethene	< 0.5	< 0.5	trans-1,2-dichloroethene	101	70-130	ok	102	70-130	ok	0.53	<25	ok
1,1-dichloroethane	< 0.5	< 0.5	1,1-dichloroethane	96.4	70-130	ok	96.1	70-130	ok	0.34	<25	ok
di-isopropyl ether (DIPE)	< 1.0	< 1.0	di-isopropyl ether (DIPE)	107	70-130	ok	110	70-130	ok	2.27	<25	ok
ethyl tert-butyl ether (EtBE)	< 1.0	< 1.0	ethyl tert-butyl ether (EtBE)	89.3	70-130	ok	91.3	70-130	ok	2.20	<25	ok
vinyl acetate	< 13	< 13	vinyl acetate	93.3	70-130	ok	92.0	70-130	ok	1.37	<25	ok
2-butanone	< 13	< 13	2-butanone	113	70-130	ok	116	70-130	ok	2.51	<25	ok
2,2-dichloropropane	< 0.5	< 0.5	2,2-dichloropropane	89.4	70-130	ok	89.4	70-130	ok	0.00	<25	ok
cis-1,2-dichloroethene	< 0.5	< 0.5	cis-1,2-dichloroethene	91.0	70-130	ok	89.2	70-130	ok	2.03	<25	ok
chloroform	< 0.5	< 0.5	chloroform	83.6	80-120	ok	82.4	70-130	ok	1.43	<25	ok
bromochloromethane	< 0.5	< 0.5	bromochloromethane	79.2	70-130	ok	78.7	70-130	ok	0.60	<25	ok
tetrahydrofuran	< 5.0	< 5.0	tetrahydrofuran	114	70-130	ok	117	70-130	ok	2.33	<25	ok
1,1,1-trichloroethane	< 0.5	< 0.5	1,1,1-trichloroethane	75.8	70-130	ok	77.1	70-130	ok	1.67	<25	ok
1,1-dichloropropene	< 0.5	< 0.5	1,1-dichloropropene	94.2	70-130	ok	92.6	70-130	ok	1.68	<25	ok
carbon tetrachloride	< 0.5	< 0.5	carbon tetrachloride	74.8	70-130	ok	75.1	70-130	ok	0.39	<25	ok
1,2-dichloroethane	< 0.5	< 0.5	1,2-dichloroethane	74.9	70-130	ok	76.2	70-130	ok	1.73	<25	ok
benzene	< 0.5	< 0.5	benzene	107	70-130	ok	107	70-130	ok	0.05	<25	ok
tert-amyl methyl ether (TAME)	< 1.0	< 1.0	tert-amyl methyl ether (TAME)	88.4	70-130	ok	92.5	70-130	ok	4.51	<25	ok
trichloroethene	< 0.5	< 0.5	trichloroethene	78.8	70-130	ok	80.1	70-130	ok	1.57	<25	ok
1,2-dichloropropane	< 0.5	< 0.5	1,2-dichloropropane	107	80-120	ok	108	70-130	ok	1.00	<25	ok
bromodichloromethane	< 0.5	< 0.5	bromodichloromethane	80.7	70-130	ok	81.0	70-130	ok	0.42	<25	ok
1,4-Dioxane	< 50	< 50	1,4-Dioxane	107	70-130	ok	114	70-130	ok	6.80	<25	ok
dibromomethane	< 0.5	< 0.5	dibromomethane	82.4	70-130	ok	82.9	70-130	ok	0.57	<25	ok
4-methyl-2-pentanone	< 13	< 13	4-methyl-2-pentanone	105	70-130	ok	109	70-130	ok	3.42	<25	ok
cis-1,3-dichloropropene	< 0.5	< 0.5	cis-1,3-dichloropropene	95.6	70-130	ok	95.1	70-130	ok	0.46	<25	ok
toluene	< 0.5	< 0.5	toluene	96.6	80-120	ok	97.8	70-130	ok	1.19	<25	ok
trans-1,3-dichloropropene	< 1.0	< 1.0	trans-1,3-dichloropropene	87.3	70-130	ok	89.3	70-130	ok	2.23	<25	ok
1,1,2-trichloroethane	< 0.5	< 0.5	1,1,2-trichloroethane	86.2	70-130	ok	85.8	70-130	ok	0.45	<25	ok
2-hexanone	< 13	< 13	2-hexanone	101	70-130	ok	102	70-130	ok	1.34	<25	ok
1,3-dichloropropane	< 0.5	< 0.5	1,3-dichloropropane	94.2	70-130	ok	95.1	70-130	ok	0.87	<25	ok
tetrachloroethene	< 0.5	< 0.5	tetrachloroethene	76.0	70-130	ok	75.2	70-130	ok	1.01	<25	ok
dibromochloromethane	< 0.5	< 0.5	dibromochloromethane	72.8	70-130	ok	72.2	70-130	ok	0.81	<25	ok
1,2-dibromoethane (EDB)	< 1.0	< 1.0	1,2-dibromoethane (EDB)	82.3	70-130	ok	82.7	70-130	ok	0.49	<25	ok
chlorobenzene	< 0.5	< 0.5	chlorobenzene	78.7	70-130	ok	78.5	70-130	ok	0.23	<25	ok
1,1,1,2-tetrachloroethane	< 0.5	< 0.5	1,1,1,2-tetrachloroethane	70.2	70-130	ok	69.4	70-130	out	1.12	<25	ok
ethylbenzene	< 0.5	< 0.5	ethylbenzene	85.8	80-120	ok	83.7	70-130	ok	2.55	<25	ok
1,1,2,2-tetrachloroethane	< 0.5	< 0.5	1,1,2,2-tetrachloroethane	94.0	70-130	ok	96.6	70-130	ok	2.71	<25	ok
m&p-xylene	< 1.0	< 1.0	m&p-xylene	84.9	70-130	ok	82.5	70-130	ok	2.87	<25	ok
o-xylene	< 0.5	< 0.5	o-xylene	113	70-130	ok	111	70-130	ok	1.58	<25	ok
styrene	< 0.5	< 0.5	styrene	113	70-130	ok	110	70-130	ok	2.30	<25	ok
bromoform	< 1.0	< 1.0	bromoform	102	70-130	ok	99.6	70-130	ok	2.14	<25	ok
isopropylbenzene	< 0.5	< 0.5	isopropylbenzene	125	70-130	ok	124	70-130	ok	0.51	<25	ok
1,2,3-trichloropropane	< 0.5	< 0.5	1,2,3-trichloropropane	105	70-130	ok	104	70-130	ok	1.71	<25	ok
bromobenzene	< 0.5	< 0.5	bromobenzene	96.5	70-130	ok	97.1	70-130	ok	0.58	<25	ok
n-propylbenzene	< 0.5	< 0.5	n-propylbenzene	123	70-130	ok	120	70-130	ok	2.84	<25	ok
2-chlorotoluene	< 0.5	< 0.5	2-chlorotoluene	113	70-130	ok	112	70-130	ok	0.93	<25	ok
1,3,5-trimethylbenzene	< 0.5	< 0.5	1,3,5-trimethylbenzene	107	70-130	ok	106	70-130	ok	1.05	<25	ok
trans-1,4-dichloro-2-butene	< 1.0	< 1.0	trans-1,4-dichloro-2-butene	114	70-130	ok	117	70-130	ok	2.45	<25	ok
4-chlorotoluene	< 0.5	< 0.5	4-chlorotoluene	113	70-130	ok	113	70-130	ok	0.45	<25	ok
tert-butyl-benzene	< 0.5	< 0.5	tert-butyl-benzene	94.0	70-130	ok	91.6	70-130	ok	2.55	<25	ok
1,2,4-trimethylbenzene	< 0.5	< 0.5	1,2,4-trimethylbenzene	105	70-130	ok	105	70-130	ok	0.19	<25	ok
sec-butyl-benzene	< 0.5	< 0.5	sec-butyl-benzene	106	70-130	ok	104	70-130	ok	1.26	<25	ok
p-isopropyltoluene	< 0.5	< 0.5	p-isopropyltoluene	97.3	70-130	ok	96.8	70-130	ok	0.51	<25	ok
1,3-dichlorobenzene	< 0.5	< 0.5	1,3-dichlorobenzene	97.2	70-130	ok	97.5	70-130	ok	0.30	<25	ok
1,4-dichlorobenzene	< 0.5	< 0.5	1,4-dichlorobenzene	97.6	70-130	ok	97.6	70-130	ok	0.04	<25	ok
n-butylbenzene	< 0.5	< 0.5	n-butylbenzene	117	70-130	ok	114	70-130	ok	2.20	<25	ok
1,2-dichlorobenzene	< 0.5	< 0.5	1,2-dichlorobenzene	94.4	70-130	ok	95.3	70-130	ok	0.90	<25	ok
1,2-dibromo-3-chloropropane	< 2.5	< 2.5	1,2-dibromo-3-chloropropane	97.7	70-130	ok	99.9	70-130	ok	2.23	<25	ok
1,3,5-trichlorobenzene	< 0.5	< 0.5	1,3,5-trichlorobenzene	104	70-130	ok	106	70-130	ok	2.56	<25	ok
1,2,4-trichlorobenzene	< 0.5	< 0.5	1,2,4-trichlorobenzene	106	70-130	ok	109	70-130	ok	3.23	<25	ok
hexachlorobutadiene	< 0.5	< 0.5	hexachlorobutadiene	106	70-130	ok	105	70-130	ok	1.07	<25	ok
naphthalene	< 1.0	< 1.0	naphthalene	87.4	70-130	ok	92.0	70-130	ok	5.15	<25	ok
1,2,3-trichlorobenzene	< 0.5	< 0.5	1,2,3-trichlorobenzene	97.3	70-130	ok	98.6	70-130	ok	1.37	<25	ok

Surrogates:	Recovery (%)	Acceptance Limits	Surrogates:	Recovery (%)	Acceptance Limits	Verdict	Recovery (%)	Acceptance Limits	Verdict	RPD	Acceptance Limits	Verdict
DIBROMOFLUOROMETHANE	83.9	70-130	DIBROMOFLUOROMETHANE	85.7	70-130	ok	86.5	70-130	ok	0.99	<25	ok
1,2-DICHLOROETHANE-D4	91.7	70-130	1,2-DICHLOROETHANE-D4	97.5	70-130	ok	91.9	70-130	ok	5.93	<25	ok
TOLUENE-D8	96.6	70-130	TOLUENE-D8	97.6	70-130	ok	97.7	70-130	ok	0.04	<25	ok
4-BROMOFLUOROBENZENE	103	70-130	4-BROMOFLUOROBENZENE	107	70-130	ok	107	70-130	ok	0.52	<25	ok
1,2-DICHLOROBENZENE-D4	92.6	70-130	1,2-DICHLOROBENZENE-D4	99.6	70-130	ok	100.0	70-130	ok	0.38	<25	ok

Instrument: HP GC/MS "S"

CHAIN-OF-CUSTODY RECORD

W.O. # 0907-00069 (for lab use only)

Sample I.D.	Date/Time Sampled	Matrix (A=Air, S=Soil, GW=Ground W., SW=Surface W., WW=Waste W., DW=Drinking W., P=Product, Other (specify))	pH / Cond.	GC Methane, Ethane, Ethene	EPA 8260	EPA 8260 – 6010 List (Chlor.)	EPA 8260 – 8021 list	EPA 8021 – 8020 List (BTEX)	EPA 524.2 DW VOCs	EPA 624 WW VOCs	601 / 602 WW VOCs	EPA 8270 FULL SVOCs	EPA 8270 PAH / BN	EPA 625 WW SVOCs	EPA 8082–PCBs	EPA 8081–Pest	TPH–GC (Mod. 8100)	TPH–GC w/FING.	EPH (MA DEP)	VPH (MA DEP)	Metals / PPM–13 / R–8	MCP 14 Metals (MA)	Metals (List Below)**	TCLP – Specify Below	SPLP – Specify Below	EPA 300 / Cl / SO4	EPA 300 / NO2 / NO3	Total # of Cont.	Note #
gp-22	7-9-09 0935	GW			X																							3	
RIZ 21	7-9-09 1022				X																							3	
GZ 1	7-9-09 1214				X																							3	
RIZ 1	7-9-09 1330				X																							3	
RIZ 14	7-9-09 1520				X																							3	
Trip blank	7-9-09 ~~1520~~				X																							3	
PRESERVATIVE (Cl - HCl, M=Methanol, N - HNO3, S - H2SO4, Na - NaOH, O - Other)*					Cl																								
CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, T-Teflon, O-Other)*					V																								

RELINQUISHED BY: (AFFILIATION) DATE/TIME RECEIVED BY: (AFFILIATION)

7-10-09 / mid 7/10/09

RELINQUISHED BY: (AFFILIATION) DATE/TIME RECEIVED BY: (AFFILIATION)

mid 7/10/09 1215 / 7/10/09 1530

RELINQUISHED BY: (AFFILIATION) DATE/TIME RECEIVED BY: (AFFILIATION)

NOTES: (Unless otherwise noted, all samples have been refrigerated to 4° C)
*Specify "Other" preservatives and containers types in this space.

Please send receipt + report to Angela + Steve Andrus

PROJECT MANAGER: Angela Harvey EXT: 2739

TURNAROUND TIME: (Standard) Rush ___ Days, Approved by ___

LAB USE: TEMP. OF COOLER 1.3 °C Temp Blank ___ Cooler Air OK

GZA GeoEnvironmental, Inc.
Labaratory Division

106 South Street
Hopkinton, MA 01748
(781) 278-4700
FAX (508) 435-9912

GZA FILE NO: 03.0032795, 29 TASK NO: ___ P.O. NO. ___

PROJECT Chabert ICMP (Perimeter)

LOCATION Alton RI

COLLECTOR(S) Angela Harvey @gza.com SHEET 1 OF 1