TECHNICAL MEMORANDUM #2

TO: Joan Taylor and Cynthia Gianfrancesco/RIDEM

FROM: Stephen Andrus (GZA) and Edward Summerly (GZA)

DATE: May 12, 2009

FILE NO: 32795.16-C

SUBJECT: Remedial Activities Progress Report for Lagoon 5 Remediation, Passive Petroleum Recovery Trench Installation and Oil Line Rupture Area Soil Removal

The purpose of this memorandum is to present the progress of remedial activities associated with Lagoon 5 at the Charbert Facility in Alton, Rhode Island and to present recommendations for additional investigations for discussion with RIDEM. This progress report also addresses the status of the passive oil recovery trench installation, and oil line rupture area soil removal.

At this time, the dredging work has been completed, bathymetry has been performed, the passive petroleum recovery trench has been installed and soils contaminated by the 2005 oil line rupture have been partially removed. Each of these items is discussed in detail below.

LAGOON 5 SLUICEWAY REMEDIATION

The following sections summarized remedial work task and additional investigations performed between December 23, 2008 and February 28, 2009.

Surface Water Treatment

TFord, Charbert's remediation contractor, completed dredging activities on December 17, 2008 and initiated the construction and operation of the proposed water treatment system, as described in GZA's August 22, 2008, Revised Remedial Work Plan. The water treatment system was constructed with staked hay bales, cribbing mats, a 40 mil PVC liner, bag filtering pad and gravity / stepped aeration process. The system was constructed on the southeastern edge of Lagoon 5 with an extraction submersible pump installed within the north end of the sluiceway as shown on attached Figure A-1.

The system operated for approximately 14 days at an average flow rate of approximately 60 to 70 gallons per minute approximately 1,210,000 gallons of water was treated by the system. This volume is equivalent to approximately 2.25 pond volumes. After 14 days of operation, surface water samples were collected from the sluiceway area and from the western portion of the lagoon (outside the work area) for volatile organic compounds testing (VOCs), via EPA Method 8260, semi-volatile organics (SVOCs), via EPA Method 8270, total petroleum hydrocarbon (TPH), via

EPA Method 8100 and priority pollutant metals (PP13), via EPA Method 6010B. The results are summarized and compared to the pre-remedial Lagoon 5 water characterization performed on July 23, 2008; RIDEM's Ambient Water Quality Criteria and to RIDEM's Method 1 GA Groundwater Objectives are provided on attached Table 1. The Laboratory certificates of analysis are included as Attachment A.

The results of the post-remedial surface water analysis identified the VOCs listed below and TPH at greater concentrations than the pre-remedial water characterization results. Metals and SVOC concentrations observed in the post remedial analysis are at similar pre-remedial concentrations. The post remedial VOC contamination distribution is as follows:

POST REMEDIAL SURFACE WATER ANALYSIS SUMMARY				
ANALYTE	UNITS	Lagoon 5 Sluiceway 12/30/2008	Lagoon 5 Shelf 12/30/2008	Lagoon 5 Sluiceway 01/30/2009
Vinyl Chloride	µg/L	34	24	12
trans-1,2-Dichloroethene	µg/L	4.4	3.3	NOT DETECTED
cis-1,2-Dichloroethene	µg/L	380	300	280
Trichloroethene	µg/L	130	97	100
Tetrachloroethene	µg/L	1200	940	930

The pre-remedial surface water sample taken in July 23, 2008 detected vinyl chloride at 5 µg/L and cis-1,2-dichloroethene at 22 µg/L, with remaining VOC compounds not detected above the method detection limits. Historically surface water samples collected at locations designated SW-1 and SW-2 within Lagoon 5 and reported by GZA in the January 9, 2006 *Supplemental Site Investigation Report* only detected cis-1,2-dichloroethene at 1.9 µg/L and 2.6 µg/L, respectively.

Excavated Sediment Disposal Characterization

Approximately 400 yards of oily sediment was removed from Lagoon 5, and placed directly into a bermed and lined storage area, and covered with 10-mil polyethylene. The pile has been configured to shed stormwater runoff which comes in contact with the 10 mil polyethylene, beyond and outside of the lined containment berm. On January 5, 2009 two composite samples, DRSTPL-1 and DRSTPL-2 consisting of 8 to 10 aliquots each were collected and characterized for disposal. Analysis included VOCs, via EPA Method 8260, SVOCs, via EPA Method 8270, TPH, via EPA Method 8100, RCRA 8 Metals, and TCLP-RCRA 8 Metals. The results of the analysis are summarized in attached Table 2 and have been compared to the RIDEM's Industrial Commercial Direct Exposure criteria (DEC). Laboratory data sheets are provided in Attachment A.

The characterization analysis identified several VOCs and SVOCs associated with weathered petroleum products, chlorinated solvents, and various metals. Tetrachloroethene (240 mg/kg and 250 mg/kg) was the only compound that exceeded the Industrial / commercial DEC which is used by Rhode Island Resource Recovery Corporation to screen soils proposed for use as alternate cover material.

Note: During the site investigations phase of the project, GZA collected two (2) sediment samples on October 26, 2005 identified as SED-1 and SED-2 from the Lagoon 5 sluiceway area, which were analyzed for VOCs via EPA Method 8260 among other parameters. The results of the analysis did not detect any VOCs above the method detection limits. The sampling locations associated with SED-1 and SED-2 are shown on Figure A-1, attached.

Lagoon 5 Bottom Stabilization

After reviewing the results of the surface water and sediment analysis it was suspected that volatile organic solvents had been discharged to Lagoon 5 in the past, and a source area was present in the Lagoon 5 sluiceway bottom area. To stabilize the lagoon bottom and provide a barrier above the exposed bottom sediments, a 6-ounce geotextile was installed and a 12-inch thick sand barrier placed above the geotextile. The sand placed above the geotextile was transported from the on-site gravel borrow pit. Prior to placement the sand was analyzed in accordance with the sampling plan presented in the approved Lagoon 5 remedial plan and was confirmed "clean". The geotextile was installed with an approximately 2-foot overlap at panel joints.

Lagoon 5 Shallow Groundwater Investigation & Wood River Surface Water Sampling

To further evaluate the VOC contaminant distribution below the exposed Lagoon 5 bottom, GZA installed 7-micro wells through the bottom of the lagoon sluiceway, in pre-remedial topographic low points on January 20, 2009. The micro wells were hand driven ½-inch interior diameter (ID) cast iron pipe with a 2-foot screen section and were installed in three clusters. The installation logs for each well are included as Attachment B. For each of the three clusters, GZA was able to install 1 well, screened approximately 3 to 5 feet below the pond bottom and 1 well screened approximately 8 to 10 feet below the pond bottom. In addition, one well was installed with screen depths ranging from approximately 13 to 15 feet below the pond bottom. The micro well locations and identifications are shown on Figure A-1. Attempts to install a 13 to 15 foot deep well at the other locations failed due to subsurface obstructions, likely cobbles or a gravel layer.

Each well was purged of approximately 1 gallon of groundwater and a sample was collected for VOC analysis, via EPA Method 8260. The detected analytes have been summarized and compared to RIDEM's Method 1 GA Groundwater Objectives and Groundwater Quality Preventative Action Limits (PALs) in attached Table 3. A summery of the contaminant distribution is as follows:

MICRO WELL VOC ANALYSIS SUMMARY				
ANALYTE	UNITS	**Micro-1** SCREEN 8-10 FT BPB 01/20/2009	**Micro-3** SCREEN 3-5 FT BPB 01/20/2009	**Micro-4** SCREEN 8-10 FT BPB 01/20/2009
Vinyl Chloride	µg/L	**6,000**	**3,200**	**220**
trans-1,2-Dichloroethene	µg/L	ND	**530**	ND
cis-1,2-Dichloroethene	µg/L	**85,000**	**38,000**	**1,000**
Trichloroethene	µg/L	**12,000**	**16,000**	**370**
Tetrachloroethene	µg/L	**170,000**	**11,000**	**2,000**
TOTAL CHLORINATED SOLVENTS	µg/L	**273,000**	**68,730**	**3,590**
ANALYTE	UNITS	**Micro-5** SCREEN 4-6-FT BPB 01/20/2009	**Micro-6** SCREEN 13-15-FT BPB 01/20/2009	**Micro-7** SCREEN 8-10-FT BPB 01/20/2009
Vinyl Chloride	µg/L	**190**	ND	**1,800**
trans-1,2-Dichloroethene	µg/L	ND	ND	ND
cis-1,2-Dichloroethene	µg/L	**1,400**	**5**	**6,700**
Trichloroethene	µg/L	**580**	**6**	**440**
Tetrachloroethene	µg/L	**1,000**	**94**	**710**
TOTAL CHLORINATED SOLVENTS	µg/L	**3,170**	**105**	**9,650**
ANALYTE	UNITS	**Micro-8** SCREEN 3-5 FT BPB 01/20/2009		
Vinyl Chloride	µg/L	**2,200**		
trans-1,2-Dichloroethene	µg/L	ND		
cis-1,2-Dichloroethene	µg/L	**7,600**		
Trichloroethene	µg/L	**1,300**		
Tetrachloroethene	µg/L	**5,000**		
TOTAL CHLORINATED SOLVENTS	µg/L	**16,100**		

The results of the groundwater sampling identified elevated levels of chlorinated solvents in each of the seven wells with five contaminants exceeding the GA Groundwater Objectives. The total detected levels of chlorinated solvents in the seven well samples range from 105 µg/L in the sample from Micro Well 6 (13 to 15 feet below pond bottom) to 273,000 µg/L in the sample from Micro Well-1 (8 to 10 feet below pond bottom). Tetrachloroethene concentrations identified at Micro Well-1 are at or slightly above solubility limits (+/-140,000 ppb) for the compound.

To assess the potential impact of the elevated concentrations of VOCs identified in the Lagoon 5 surface water and shallow groundwater underlying Lagoon 5 on the adjacent river, three surface water samples identified as WR-1, WR-2 and WR-3, were collected from the Wood River on January 30, 2009. These samples were analyzed for VOCs via EPA Method 8260. In addition, one surface water sample identified as LAG 5 CHNL, was collected from the Lagoon 5 sluiceway area and analyzed for VOCs, via EPA Method 8260. The approximate sample locations are shown on Figure A-1.

The three surface water samples collected from the Wood River on January 30, 2009 did not contain any volatile organic compounds above the method detection limits and the surface water sample collected from the Lagoon 5 sluiceway contained contaminants similar to those observed in the December 30, 2008 post-remedial surface water sample analysis.

Additional Proposed Investigations

GZA proposes the following possible actions that we can discuss with RIDEM to further delineate the VOC contaminant distribution around the perimeter of Lagoon 5 as follows. It should be noted that data will be evaluated as the investigation proceeds and the field investigation will be adjusted as needed.

1. Further investigate VOC contaminant distribution and migration to delineate the horizontal extent of groundwater contamination between Lagoon 5 and the Wood River: GZA proposes to install 3 deep aquifer groundwater monitoring wells to the top of the underlying till layer, approximately 35 to 40 feet deep below the existing ground surface elevation. Two monitoring wells would be located to the south of Lagoon 5 between the fence and the Wood River. The third monitoring well will be installed to the west of Lagoon 5 between the fence and the wetland area adjacent to the Wood River.

   The wells will be drilled using standard wash and drive drilling techniques and 3- to 4-inch steel casing. Continuous soil sampling using 2- or 3-inch ID split-spoon samplers employing Standard Penetration Test methods will be employed during the drilling process to access the presents of potential confining layers. A 2-inch ID PVC monitoring well with a 10-foot well screen (0.01-inch slot size) will be installed in each boring. Filter sand will be installed around the screen section and extend approximately 2 feet above the screen section. A two foot long bentonite seal will be installed directly above the filter sand and a high solids bentonite grout will be tremied into place from the bentonite seal to the ground surface. Each monitoring well will be developed by purging the equivalent volume of wash water utilized to install the well. The purge water will be pumped directly into 55-gallon drums for characterization. The wells will be allowed to stabilize for 5 days prior to conducting piezometric measurements and collecting groundwater samples. Each well will be sampled utilizing low flow / low stress methods with VOC sampling receptacles for VOCs via EPA Method 8260.

   We estimate that this drilling and sampling program will require 10 to 14 days to complete. Figure A-2 shows the approximate locations of the proposed groundwater monitoring wells. Please note these locations represent our best initial estimate as to the placement of monitoring wells; the locations may be adjusted in the field based on site-specific observations and access considerations. A GZA geologist/engineer will be

present during the field program to collect and screen soil and water samples, and prepare boring/well logs describing subsurface conditions.

2. The detected levels of tetrachloroethene (PCE) in the dredged material exceed the acceptance criteria for disposal at the Rhode Island Resource Recovery's Central Landfill (RIRRC). Currently the material has been stockpiled within a containment cell underlain with a 40-mil PVC liner and covered with 10-mil polyethylene. To reduce the PCE concentrations to acceptable levels for disposal at Central Landfill, GZA recommends installing a temporary soil vapor extraction system equipped with a mechanical blower and activated carbon filters to recover volatile organics. In anticipation of implementing a temporary soil vapor extraction system, four-4-inch diameter perforated SCH-40 PVC lines were installed horizontally within the pile for venting. A pilot test will be performed to determine required blower capacity and approximate contaminant mass within the air stream to size the activated carbon vessel. The material will be treated until the VOC concentrations are within RIRRC's acceptable disposal criteria. The proposed location of the temporary soil vapor extraction system is shown on Figure A-2.

PASSIVE PETROLEUM RECOVERY TRENCH

As part of the Lagoon 5 remedial activities, the proposed petroleum interceptor trench and passive product recovery wells have been installed parallel to the eastern channel of Lagoon 5, see Figure A-1. The recovery trench configuration has been installed in accordance with GZA's August 22, 2008 *Revised Remedial Work Plan* (Work Plan). The recovery system was installed in January of 2009 and the monitoring program proposed in the Work Plan will be incorporated into the monthly air sparge and soil vapor extraction monitoring program. The monitoring results will be summarized in a table and included as an appendix to the Interim Compliance Monitor Program quarterly and yearly reports. A passive petroleum recovery system consisting of the ORS Filter Bucket, 4-Inch GeoSorb sock or similar equipment will be installed in each recovery well based on our ongoing evaluation of the volume and viscosity of the oil present in the wells.

OIL LINE RUPTURE AREA

The remediation of the southern end of the oil line (which was inadvertently broken by the contractor during the installation of the piping to the new ISDS system in 2005) was conducted in accordance with GZA's August 22, 2008 Work Plan. In accordance with the procedures presented in the October 15, 2007 RAWP; Section 5.12 "Oil Line Rupture Area".

On December 22, 2008 the area of the oil line was excavated and the soils segregated by using visual and olfactory evidence of petroleum contamination. The soils suspected of containing contaminates were loaded on a truck and placed in the lined containment berm for off-site disposal. Clean soils were stockpiled adjacent to the excavation for backfill. Approximately 10 cubic yards of clean soil and 10 cubic yards of contaminated soil were removed from the area. Based on visual evidence, the area of oil contamination appeared to be more extensive than initially delineated. The excavation was extended to the east and to the west across the northern end of the oil tank bunker and to the driveway located approximately 20 feet to the north to a depth of approximately 2-feet below the driveway elevation. The oil contamination appeared to extend under the oil tank bunker and the old fill station concrete pad. At that time the excavation was halted to further evaluate the extent of contamination. The exposed area was covered with 10-mil polyethylene sheeting to prevent stormwater infiltration.

On January 5, 2009 a track mounted geoprobe was brought to the site and a grid pattern of soil explorations was conducted in the vicinity of the oil tank bunker. A total of 13 explorations (GP-101 to 113) were conducted to a depth of 10 to 15-feet below the ground surface and sample tubes were opened and observed on-site for visual and olfactory evidence of petroleum contamination and field screened with a Thermo Environmental Instruments Model 580B photoionization detector with a 10.6 eV bulb. One sample was collected from each soil exploration just above the groundwater table. Three soil samples were also collected from the bottom of the excavation. The samples taken in the remedial excavation were taken 6 to 12-inches below the oil lines in the center of the excavation (BOT EX-1 and 2) and one approximately 2-feet under the oil bunker, approximately 1-foot below the oil line (CNTR BNKR). The boring logs are attached as Appendix B and the soil exploration locations are shown on Figure A-1.

The laboratory analysis consisted of total petroleum hydrocarbons (TPH) via EPA Method 8100M. The samples collected from GP-104 and the CNTR BNKR area were also evaluated using Petroleum Hydrocarbon Fingerprint (PHCF) techniques to evaluate the type and approximate age of the oil release. The results have been summarized and compared to RIDEM's residential direct exposure criteria (RDEC) and RIDEM's industrial/commercial direct exposure criteria (I/CDEC) in Table 4. The results of the geoprobe grid soil analysis did not detect any TPH levels above the RDEC limit of 500 mg/kg. Two of the samples taken from within the excavation did exceeded the I/CDEC of 2,500 for TPH with the sample CNTR BNKR at 3,700 mg/kg and the sample BOT EX-2 at 3,000 mg/kg. The fingerprint analysis of sample GP-104 S-2 estimated the oil was weathered fuel oil/diesel or machine/cutting oil. The fingerprint analysis of sample CNTR BNKR indicated that the petroleum was #2 fuel oil/diesel and that weathering had occurred.

Based on these findings, on January 22, 2009, soil excavations resumed with the intent to excavate the oil contaminated soils within the open excavation that exceeded the I/CDEC for TPH and collect confirmatory samples.

The excavation was expanded to the groundwater table and to the north and south to the extents possible. Approximately 50 cubic yards of additional soil was removed. Excavation was limited in three directions: to the south, excavation was limited by the oil bunker foundation, to the west, excavation was limited by existing underground utilities including the active oil line and to the north, and excavation was limited by a large concrete pad that was historically used as a fill pad for the petroleum distribution. The pad could not be removed with the 40-ton excavator used for the excavation. The excavation extended approximately 6.5 feet below the driveway grade with groundwater at approximately 5.0 feet below the driveway grade.

One confirmatory sample was collected from each of the sidewalls at 3 to 6 feet below the driveway grade for laboratory analysis. The excavation was backfilled with clean sand from the on-Site gravel borrow to the top of the existing oil lines. The remaining excavation was left open as Charbert had contracted with Eastern Piping to install a new double walled oil line from the oil bunker, under the driveway to the main building. The new line was installed and placed in service on February 26, 2009 and the old oil lines running under the driveway were cut, drained and capped in place.

Laboratory analysis results of the four sidewall samples have been summarized and compared to RIDEM's residential direct exposure criteria (RDEC) and RIDEM's industrial/commercial direct exposure criteria (I/CDEC) in Table 4 and the sample locations are shown on Figure A-1. As shown in the summary table below, three of the four sidewall samples contained TPH at levels that

exceed RIDEM's I/CDEC and require alternative remedial methods due to the obstructions discussed above.

OIL LINE SOIL TPH ANALYSIS SUMMARY					
	UNITS	South SW 3-6ft. BGS	West SW 3-6ft. BGS	East SW 3-6ft. BGS	North SW 3-6ft. BGS
		01/22/2009	01/22/2009	01/22/2009	01/22/2009
Hydrocarbon Content	mg/kg	7,300	5,800	48	14,000

In accordance with GZA's January 9, 2006 *Supplemental Site Investigation Report*, remediation of contaminants in the area of the former underground storage tanks (UST) were to be conducted concurrent with the oil line rupture remediation work. Geoprobes conducted in October of 2005 showed three samples (GP-39, 40 and 45) which had detectable levels of tetrachloroethene that were below RIDEM's RDEC, but exceeded the GA-Leachability criterion and one sample that contained TPH above the RDEC. The sample taken from GP-40 contained 1,500 mg/kg of TPH. The October 2005 Geoprobe locations are shown on Figure A-1.

At this time GZA proposes the following remedial action for the oil tank bunker and the former UST area:

1. As excavation of additional soil in the oil tank bunker area is limited by the obstructions described above, two 10-foot horizontal vent lines were installed to the north of the bunker, see Figure A-2 for locations. To remediate the chlorinated solvents and petroleum identified in the area of the former UST's, GZA also installed three additional 10-foot horizontal vent lines, two just south of the existing waste oil containment area and one under the center of the driveway, see Figure A-2 for locations.

2. After the remaining components required to operate the new vent lines have been installed (vent line installation was completed on February 26, 2009), pilot testing to determine the radius of influence and effectiveness of the vent lines will be conducted with RIDEM's approval. The new vents will then be tied into the existing exterior soil vapor extraction system. The blower currently servicing the exterior SVE/air sparge system will be replaced for increased capacity.

GZA would like to arrange for a meeting to discuss the items covered in this technical memorandum at your earliest convenience.

Attachments: Figures A-1 and A-2
Tables 1 to 4
Appendix A- Boring logs
Appendix B- Laboratory Certificates of Analysis

TABLES

TABLE 1
LAGOON 5 REMEDIATION
SURFACE WATER
ANALYTICAL RESULTS SUMMARY

Charbert Facility
Alton, Rhode Island

	RIDEM AWQC STANDARDS		RIDEM GA Groundwater Objectives	UNITS	Lagoon 5 Sluiceway PRE-REMEDIAL 07/23/2008		Lagoon 5 Sluiceway POST REMEDIAL 12/30/2008		Lagoon 5 Sluiceway POST REMEDIAL 12/30/2008		Lagoon 5 Shelf POST REMEDIAL 12/30/2008		Trip Blank PRE-REMEDIAL 07/23/2008		Trip Blank POST REMEDIAL 12/30/2008	
	ACUTE	CHRONIC			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
EPA 8260 VOLATILE ORGANICS																
Vinyl Chloride	NC	NC	2	µg/L	5	1.0	34	1.0	NT		24	1.0	<	1.0	<	1.0
trans-1,2-Dichloroethene	NC	NC	100	µg/L	ND	1.0	4.4	1.0	NT		3.3	1.0	<	1.0	<	1.0
cis-1,2-Dichloroethene	--	--	70	µg/L	22	25	380	25	NT		300	25	<	1.0	<	1.0
Trichloroethene	1950*	43*	5	µg/L	ND	25	130	25	NT		97	1.0	<	1.0	<	1.0
Tetrachloroethene	240*	5.3*	5	µg/L	ND	25	1200	25	NT		940	25	<	1.0	<	1.0
EPA 8270 SEMI-VOLATILE ORGANICS																
ACID FRACTION:					ND		ND		ND		ND		NT		NT	
BASE-NEUTRAL FRACTION:					ND		ND		ND		ND		NT		NT	
Mod. EPA 8100 TOTAL PETROLEUM HYDROCARBON																
Hydrocarbon Content			NS	µg/L	ND	200	NT		510	100	270	200	NT		NT	
EPA 6010B PRIORITY POLLUTANT METALS																
Barium	--	--	2	mg/L	0.016	0.005	0.015	0.015	NT	0.015	<	0.015	NT		NT	
Copper	0.005	0.004	NS	mg/L	0.015	0.015	0.015	0.015	NT	0.015	<	0.015	NT		NT	
Zinc	0.035	0.032	NS	mg/L	0.059	0.010	0.059	0.010	NT	0.010	0.069	0.010	NT		NT	

	RIDEM AWQC STANDARDS		RIDEM GA Groundwater Objectives	UNITS	WR-1 POST REMEDIAL 01/30/2009		WR-2 POST REMEDIAL 01/30/2009		WR-3 POST REMEDIAL 01/30/2009		LAG 5 CHNL POST REMEDIAL 01/30/2009		Trip Blank POST REMEDIAL 01/30/2009	
	ACUTE	CHRONIC			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
EPA 8260 VOLATILE ORGANICS														
Vinyl Chloride	NC	NC	2	µg/L	ND	1	ND	1	ND	1	12	10	ND	1
trans-1,2-Dichloroethene	NC	NC	100	µg/L	ND	1	ND	1	ND	1	ND	10	ND	1
cis-1,2-Dichloroethene	--	--	70	µg/L	ND	1	ND	1	ND	1	280	10	ND	1
Trichloroethene	1950*	43*	5	µg/L	ND	1	ND	1	ND	1	100	10	ND	1
Tetrachloroethene	240*	5.3*	5	µg/L	ND	1	ND	1	ND	1	930	10	ND	1

ND = NOT DETECTED
NT = NOT TESTED
NS = NO STANDARD
ANALYTE DETECTED ABOVE MDL
ANALYTE DETECTED ABOVE RIDEM GA GROUNDWATER STANDARD

SURFACE WATER STANDARDS NOTES
* = RIDEM Minimum Database Guidelines

$ = The aquatic life criteria for these compounds were issued in 1980 utilizing the 1980 Guidelines for criteria development. The acute values shown are final acute values which, by the 1980 Guidelines, are instantaneous values as contrasted with a Criteria Maximum Concentration (CMC) which is a one-hour average.

NC = Parameter is Listed in RIDEM Ambient Water Criteria Regulations with no criteria given.
-- = Parameter is not listed in RIDEM Ambient Water Criteria Regulations.
Note: Actual hardness is not known. A hardness of 25 mg/L as $CaCO_3$ was used for metals criteria calculations.

TABLE 3
LAGOON 5 REMEDIATION
MICRO WELL ANALYTICAL RESULTS SUMMARY

Charbert Facility
Alton, Rhode Island

	RIDEM GA Groundwater Objectives	UNITS	TB		Micro-1 SCREEN 8-10-FT BPB		Micro-3 SCREEN 3-5-FT BPB	
			01/16/2009		01/20/2009		01/20/2009	
			Result	RL	Result	RL	Result	RL
VOLATILE ORGANICS EPA 8260								
Vinyl Chloride	2	µg/L	ND	1	**6,000**	1,000	**3,200**	500
trans-1,2-Dichloroethene	100	µg/L	ND	1	ND	1,000	**530**	500
cis-1,2-Dichloroethene	70	µg/L	ND	1	**85,000**	1,000	**38,000**	500
Trichloroethene	5	µg/L	ND	1	**12,000**	1,000	**16,000**	500
Tetrachloroethene	5	µg/L	ND	1	**170,000**	1,000	**11,000**	500
TOTAL CHLORINATED SOLVENTS	NS	µg/L	ND		**273,000**		**68,730**	

	RIDEM GA Groundwater Objectives	UNITS	Micro-4 SCREEN 8-10-FT BPB		Micro-5 SCREEN 4-6-FT BPB		Micro-6 SCREEN 13-15-FT BPB	
			01/20/2009		01/20/2009		01/20/2009	
			Result	RL	Result	RL	Result	RL
VOLATILE ORGANICS EPA 8260								
Vinyl Chloride	2	µg/L	**220**	50	**190**	25	ND	1
trans-1,2-Dichloroethene	100	µg/L	ND	50	ND	25	ND	1
cis-1,2-Dichloroethene	70	µg/L	**1,000**	50	**1,400**	25	**5**	1
Trichloroethene	5	µg/L	**370**	50	**580**	25	**6**	1
Tetrachloroethene	5	µg/L	**2,000**	50	**1,000**	25	**94**	1
TOTAL CHLORINATED SOLVENTS	NS	µg/L	**3,590**		**3,170**		**105**	

	RIDEM GA Groundwater Objectives	UNITS	Micro-7 SCREEN 8-10-FT BPB		Micro-8 SCREEN 3-5-FT BPB	
			01/20/2009		01/20/2009	
			Result	RL	Result	RL
VOLATILE ORGANICS EPA 8260						
Vinyl Chloride	2	µg/L	**1,800**	100	**2,200**	100
trans-1,2-Dichloroethene	100	µg/L	ND	100	ND	100
cis-1,2-Dichloroethene	70	µg/L	**6,700**	100	**7,600**	100
Trichloroethene	5	µg/L	**440**	100	**1,300**	100
Tetrachloroethene	5	µg/L	**710**	100	**5,000**	100
TOTAL CHLORINATED SOLVENTS	NS	µg/L	**9,650**		**16,100**	

ND = NOT DETECTED
NS = NO STANDARD
BPB = BELOW POND BOTTOM
ANALYTE DETECTED ABOVE MDL
ANALYTE DETECTED ABOVE RIDEM GA GROUNDWATER STANDARD

TABLE 2
LAGOON 5 REMEDIATION
DREDGE STOCKPILE
ANALYTICAL RESULTS SUMMARY

Charbert Facility
Alton, Rhode Island

	RIDEM DIRECT EXPOSURE CRITERIA INDUSTRIAL/ COMMERCIAL	UNITS	DRSTPL-1		DRSTPL-2	
			01/05/2009		12/30/2008	
			Result	RL	Result	RL
EPA 8260 VOLATILE ORGANICS						
1,2,4-Trimethylbenzene	NS	mg/kg	0.07	0.03	0.08	0.03
1,3,5-Trimethylbenzene	NS	mg/kg	0.05	0.03	0.05	0.03
2-Chlorotoluene	NS	mg/kg	0.12	0.03	0.17	0.03
cis-1,2-Dichloroethene	10,000	mg/kg	5.4	1.30	5.8	1.30
Isopropyl benzene	10,000	mg/kg	0.06	0.03	0.06	0.03
m,p-Xylene	NS	mg/kg	0.05	0.03	0.07	0.03
Total Xylene	10,000	mg/kg	0.05	0.03	0.07	0.03
Naphthalene	NS	mg/kg	0.40	0.03	0.38	0.03
p-Isopropyl toluene	NS	mg/kg	0.08	0.03	0.09	0.03
Sec-butylbenzene	NS	mg/kg	0.06	0.03	0.06	0.03
Tetrachloroethene	110	mg/kg	240	1.30	250	1.30
trans-1,2-Dichloroethylene	10,000	mg/kg	0.10	0.03	0.1	0.03
Trichloroethene	520	mg/kg	6.2	1.30	6.7	1.30
Vinyl Chloride	3	mg/kg	0.13	0.026	0.12	0.027
EPA 8270 SEMI-VOLATILE ORGANICS						
Benzo(b)fluoranthene	7.8	mg/kg	ND	0.36	0.5	0.38
Benzo(k)fluoranthene	78	mg/kg	ND	0.36	0.41	0.38
Benzo(a)pyrene	0.8	mg/kg	ND	0.36	0.44	0.38
Bis(2-ethylhexyl)phthalate	410	mg/kg	0.38	0.36	0.6	0.38
Chrysene	780	mg/kg	ND	0.36	0.81	0.38
Fluoranthene	10,000	mg/kg	0.56	0.36	1.4	0.38
Phenanthrene	10,000	mg/kg	0.95	0.36	2	0.38
Pyrene	10,000	mg/kg	0.36	0.36	1.9	0.38
Mod. EPA 8100 TOTAL PETROLEUM HYDROCARBON						
Hydrocarbon Content	2,500	mg/kg	560	11	1,000	11

TABLE 2
LAGOON 5 REMEDIATION
DREDGE STOCKPILE
ANALYTICAL RESULTS SUMMARY

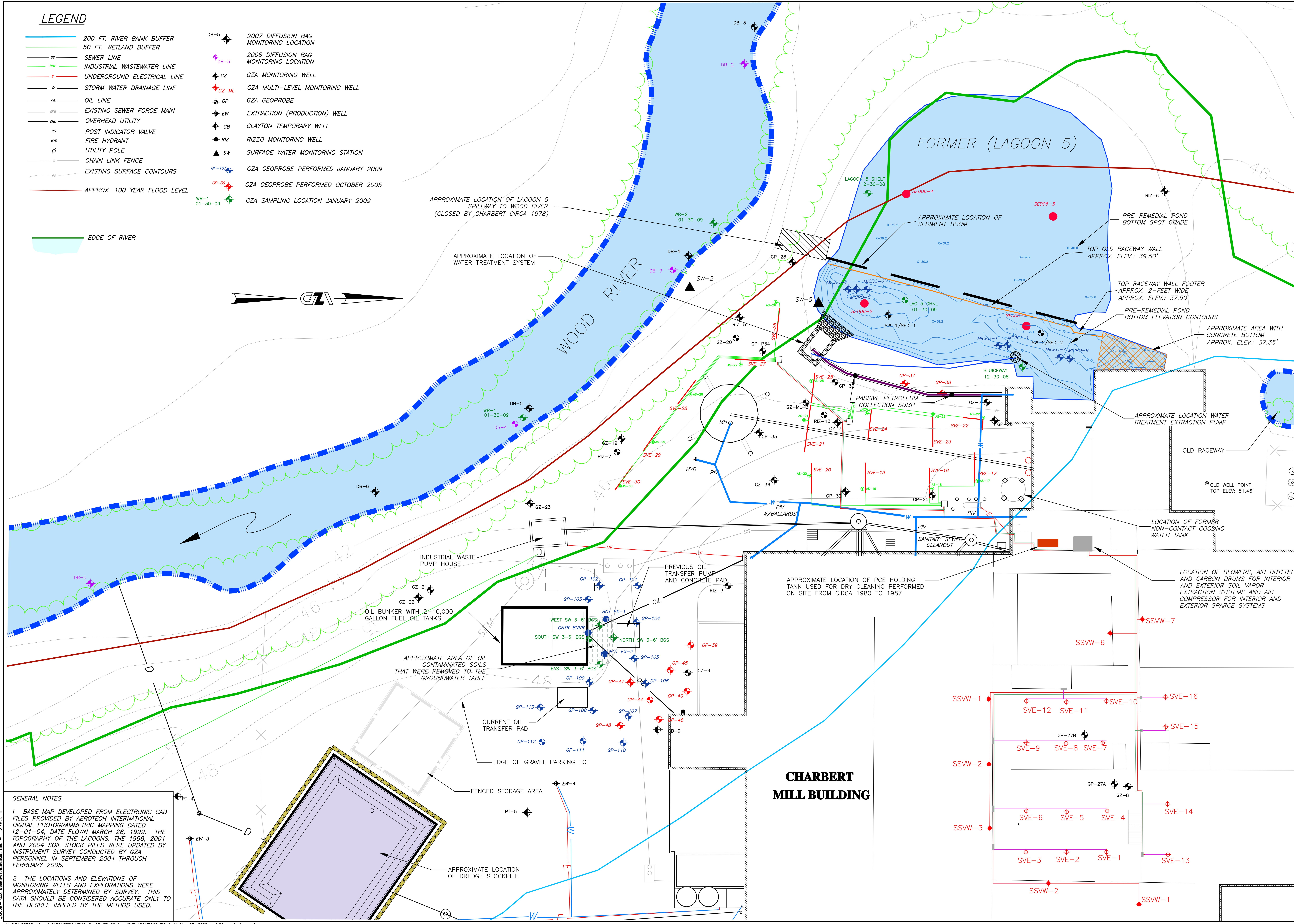
Charbert Facility
Alton, Rhode Island

	RIDEM DIRECT EXPOSURE CRITERIA INDUSTRIAL/ COMMERCIAL	UNITS	DRSTPL-1		DRSTPL-2	
			01/05/2009		12/30/2008	
			Result	RL	Result	RL
TOTAL 8 RCRA METALS						
Arsenic	7	mg/kg	4.8	1.600	3.7	1.700
Barium	10,000	mg/kg	32	0.54	49	0.56
Cadmium	1,000	mg/kg	ND	0.27	ND	0.28
Chromium	10,000	mg/kg	16	1.6	18	1.7
Lead	500	mg/kg	38	2.2	55	2.3
Mercury	610	mg/kg	0.38	0.11	0.38	0.11
Selenium	10,000	mg/kg	ND	11	ND	11
Silver	10,000	mg/kg	ND	1	ND	1.1
TCLP-8 RCRA METALS						
Arsenic	NS	mg/kg	ND	1	ND	1
Barium	NS	mg/kg	ND	2	ND	2
Cadmium	NS	mg/kg	ND	0.05	ND	0.05
Chromium	NS	mg/kg	ND	0.3	ND	0.3
Lead	NS	mg/kg	ND	0.4	ND	0.4
Mercury	NS	mg/kg	ND	0.0005	ND	0.0005
Selenium	NS	mg/kg	ND	1	ND	1
Silver	NS	mg/kg	ND	0.20	ND	0.20

ND = NOT DETECTED
NS = NO STANDARD

ANALYTE DETECTED ABOVE MDL
ANALYTE DETECTED ABOVE RIDEM RESIDENTIAL DIRECT EXPOSURE CRITERIA
ANALYTE DETECTED ABOVE RIDEM INDUSTRIAL/COMMERCIAL DIRECT EXPOSURE CRITERIA

FIGURES


LEGEND
200 FT. RIVER BANK BUFFER
50 FT. WETLAND BUFFER
SEWER LINE
INDUSTRIAL WASTEWATER LINE
UNDERGROUND ELECTRICAL LINE
STORM WATER DRAINAGE LINE
OIL LINE
EXISTING SEWER FORCE MAIN
OVERHEAD UTILITY
POST INDICATOR VALVE
FIRE HYDRANT
UTILITY POLE
CHAIN LINK FENCE
EXISTING SURFACE CONTOURS
APPROX. 100 YEAR FLOOD LEVEL
EDGE OF RIVER
2007 DIFFUSION BAG MONITORING LOCATION
2008 DIFFUSION BAG MONITORING LOCATION
GZA MONITORING WELL
GZA MULTI-LEVEL MONITORING WELL
GZA GEOPROBE
EXTRACTION (PRODUCTION) WELL
CLAYTON TEMPORARY WELL
RIZZO MONITORING WELL
SURFACE WATER MONITORING STATION
GZA GEOPROBE PERFORMED JANUARY 2009
GZA GEOPROBE PERFORMED OCTOBER 2005
GZA SAMPLING LOCATION JANUARY 2009
WOOD RIVER
FORMER (LAGOON 5)
APPROXIMATE LOCATION OF LAGOON 5 SPILLWAY TO WOOD RIVER (CLOSED BY CHARBERT CIRCA 1978)
APPROXIMATE LOCATION OF WATER TREATMENT SYSTEM
APPROXIMATE LOCATION OF SEDIMENT BOOM
PRE-REMEDIAL POND BOTTOM SPOT GRADE
TOP OLD RACEWAY WALL APPROX. ELEV.: 39.50'
TOP RACEWAY WALL FOOTER APPROX. 2-FEET WIDE APPROX. ELEV.: 37.50'
PRE-REMEDIAL POND BOTTOM ELEVATION CONTOURS
APPROXIMATE AREA WITH CONCRETE BOTTOM APPROX. ELEV.: 37.35'
APPROXIMATE LOCATION WATER TREATMENT EXTRACTION PUMP
OLD RACEWAY
OLD WELL POINT TOP ELEV: 51.46'
LOCATION OF FORMER NON-CONTACT COOLING WATER TANK
LOCATION OF BLOWERS, AIR DRYERS AND CARBON DRUMS FOR INTERIOR AND EXTERIOR SOIL VAPOR EXTRACTION SYSTEMS AND AIR COMPRESSOR FOR INTERIOR AND EXTERIOR SPARGE SYSTEMS
PASSIVE PETROLEUM COLLECTION SUMP
SLUICEWAY 12-30-08
LAGOON 5 SHELF 12-30-08
LAG 5 CHNL 01-30-09
INDUSTRIAL WASTE PUMP HOUSE
PREVIOUS OIL TRANSFER PUMP AND CONCRETE PAD
APPROXIMATE LOCATION OF PCE HOLDING TANK USED FOR DRY CLEANING PERFORMED ON SITE FROM CIRCA 1980 TO 1987
OIL BUNKER WITH 2-10,000 GALLON FUEL OIL TANKS
APPROXIMATE AREA OF OIL CONTAMINATED SOILS THAT WERE REMOVED TO THE GROUNDWATER TABLE
CURRENT OIL TRANSFER PAD
EDGE OF GRAVEL PARKING LOT
FENCED STORAGE AREA
APPROXIMATE LOCATION OF DREDGE STOCKPILE
SANITARY SEWER CLEANOUT
PIV W/BALLARDS
CHARBERT MILL BUILDING

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.

SCALE: 1" = 20'

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

REV. NO.	DESCRIPTION	BY	DATE

PROJ MGR: SMA
DESIGNED BY:
REVIEWED BY: EAS
OPERATOR: SMA
CHECKER: TRG
DATE: FEB., 2009

CHARBERT FACILITY
ALTON, RHODE ISLAND

TECHNICAL MEMO #2
EXPLORATION AND LOCATION PLAN

PROJECT NO. 32795.16

FIGURE NO. A-1

LEGEND

- 200 FT. RIVER BANK BUFFER
- 50 FT. WETLAND BUFFER
- SS — SEWER LINE
- IWW — INDUSTRIAL WASTEWATER LINE
- E — UNDERGROUND ELECTRICAL LINE
- D — STORM WATER DRAINAGE LINE
- OIL — OIL LINE
- SFM — EXISTING SEWER FORCE MAIN
- OHU — OVERHEAD UTILITY
- PIV — POST INDICATOR VALVE
- HYD — FIRE HYDRANT
- UTILITY POLE
- CHAIN LINK FENCE
- 60 — EXISTING SURFACE CONTOURS
- APPROX. 100 YEAR FLOOD LEVEL
- EDGE OF RIVER

- DB–5 — 2007 DIFFUSION BAG MONITORING LOCATION
- DB–5 — 2008 DIFFUSION BAG MONITORING LOCATION
- GZ — GZA MONITORING WELL
- GZ–ML — GZA MULTI–LEVEL MONITORING WELL
- GP — GZA GEOPROBE
- EW — EXTRACTION (PRODUCTION) WELL
- CB — CLAYTON TEMPORARY WELL
- RIZ — RIZZO MONITORING WELL
- SW — SURFACE WATER MONITORING STATION
- GP–103 — GZA GEOPROBE PERFORMED JANUARY 2009
- GP–39 — GZA GEOPROBE PERFORMED OCTOBER 2005
- WR–1 01–30–09 — GZA SURFACE WATER SAMPLING LOCATION
- PR–GZ–25 35 TO 40 FEET — GZA PROPOSED DEEP AQUIFER MONITORING WELL

GZA

WOOD RIVER

DB–1 DB–2 DB–3 DB–4 DB–5 DB–6 DB–7 DB–8 DB–9

FORMER (LAGOON 5)

APPROXIMATE LOCATION OF LAGOON 5 SPILLWAY TO WOOD RIVER (CLOSED BY CHARBERT CIRCA 1978)

APPROXIMATE LOCATION OF WATER TREATMENT SYSTEM

APPROXIMATE LOCATION OF SEDIMENT BOOM

PRE-REMEDIAL POND BOTTOM SPOT GRADE

TOP OLD RACEWAY WALL APPROX. ELEV.: 39.50'

TOP RACEWAY WALL FOOTER APPROX. 2-FEET WIDE, APPROX. ELEV.: 37.50'

PRE-REMEDIAL POND BOTTOM ELEVATION CONTOURS

APPROXIMATE AREA WITH CONCRETE BOTTOM APPROX. ELEV.: 37.35'

PASSIVE PETROLEUM COLLECTION SUMP

APPROXIMATE LOCATION WATER TREATMENT EXTRACTION PUMP

OLD RACEWAY

OLD WELL POINT TOP ELEV: 51.46'

LOCATION OF FORMER NON-CONTACT COOLING WATER TANK

LOCATION OF BLOWERS, AIR DRYERS AND CARBON DRUMS FOR INTERIOR AND EXTERIOR SOIL VAPOR EXTRACTION SYSTEMS AND AIR COMPRESSOR FOR INTERIOR AND EXTERIOR SPARGE SYSTEMS

INDUSTRIAL WASTE PUMP HOUSE

OIL BUNKER WITH 2–10,000 GALLON FUEL OIL TANKS

APPROXIMATE AREA OF OIL CONTAMINATED SOILS THAT WERE REMOVED TO THE GROUNDWATER TABLE

PREVIOUS OIL TRANSFER PUMP AND CONCRETE PAD

APPROXIMATE LOCATION OF PCE HOLDING TANK USED FOR DRY CLEANING PERFORMED ON SITE FROM CIRCA 1980 TO 1987

PROPOSED EXTERIOR SVE EXPANSION CONTROL BOX AND VENT LINES

CURRENT OIL TRANSFER PAD

EDGE OF GRAVEL PARKING LOT

AREA FOR PROPOSED TEMPORARY SVE EQUIPMENT IN SHED

FENCED STORAGE AREA

APPROXIMATE LOCATION OF DREDGE STOCKPILE

4–INCH PERFORATED SCH–40–PVC VAPOR EXTRACTION LINES FOR TEMPORARY DREDGE STOCKPILE REMEDIATION

CHARBERT MILL BUILDING

SSVW–1 SSVW–2 SSVW–3 SSVW–4 SSVW–5 SSVW–6 SSVW–7

SVE–1 SVE–2 SVE–3 SVE–4 SVE–5 SVE–6 SVE–7 SVE–8 SVE–9 SVE–10 SVE–11 SVE–12 SVE–13 SVE–14 SVE–15 SVE–16 SVE–17 SVE–18 SVE–19 SVE–20 SVE–21 SVE–22 SVE–23 SVE–24 SVE–25 SVE–26 SVE–27 SVE–28 SVE–29 SVE–30

NECO–4–3 U/P 1657 U/P 3435 U/P 5

RIZ–1 RIZ–2 RIZ–3 RIZ–4 RIZ–5 RIZ–6 RIZ–7 RIZ–8 RIZ–9 RIZ–10 RIZ–11 RIZ–12 RIZ–13 RIZ–14 RIZ–15 RIZ–16 RIZ–17 RIZ–18 RIZ–19 RIZ–20 RIZ–21

GZ–1 GZ–2 GZ–3 GZ–4 GZ–5 GZ–6 GZ–7 GZ–8 GZ–9 GZ–10 GZ–11 GZ–12 GZ–13 GZ–14 GZ–15 GZ–16 GZ–17 GZ–18 GZ–19 GZ–20 GZ–21 GZ–22 GZ–23

GP–1 GP–2 GP–3 GP–4 GP–5 GP–6 GP–7 GP–8 GP–9 GP–10 GP–11 GP–12 GP–13 GP–14 GP–15 GP–16 GP–17 GP–18 GP–19 GP–20 GP–21 GP–22 GP–23 GP–24 GP–25 GP–26 GP–27 GP–27A GP–27B GP–28 GP–29 GP–30 GP–31 GP–32 GP–33 GP–34 GP–35 GP–36 GP–37 GP–38 GP–39 GP–40 GP–41 GP–42 GP–43 GP–44 GP–45 GP–46 GP–47 GP–48 GP–101 GP–102 GP–103 GP–104 GP–105 GP–106 GP–107 GP–108 GP–109 GP–110 GP–111 GP–112 GP–113 GP–114 GP–115 GP–116 GP–117 GP–118

MICRO–1 MICRO–2 MICRO–3 MICRO–4 MICRO–5 MICRO–6 MICRO–7 MICRO–8

SEDO6–1 SEDO6–2 SEDO6–3 SEDO6–4

SW–1/SED–1 SW–2/SED–2 SW–2 SW–5

PT–1 PT–2 PT–3 PT–4 PT–5

EW–1 EW–2 EW–3 EW–4

LAGOON 5 SHELF 12–30–08

LAG 5 CHNL 01–30–09

SLUICEWAY 12–30–08

WR–1 01–30–09 WR–2 01–30–09

WEST SW 3–6' BGS CNTR BNDRY SOUTH SW 3–6' BGS NORTH SW 3–6' BGS EAST SW 3–6' BGS

BOT EX–1 BOT EX–2

SANITARY SEWER CLEANOUT

W/BALLARDS

MH

HYD

PIV

SCALE: 1" = 30'

0 15 30 60

GZA GeoEnvironmental, Inc. Engineers and Scientists

530 BROADWAY PROVIDENCE, RHODE ISLAND 02909

(401) 421-4140 (401) 751-8613

REV. NO.	DESCRIPTION	BY	DATE

CHARBERT FACILITY
ALTON, RHODE ISLAND

TECHNICAL MEMO #2 PROPOSED EXPLORATION LOCATION AND REMEDIAL ACTIONS PLAN

PROJ MGR: SMA
DESIGNED BY:
REVIEWED BY: EAS
OPERATOR: SMA
CHECKER: TRG
DATE: FEB., 2009

PROJECT NO. 32795.16

FIGURE NO. A–2

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.

J:\ENV\32795-16.ea\CADD\TECH MEMO-2.-05-07-09.dwg [EXP LOCATIONS FIG A-2] May 07, 2009 – 1:07pm stephen.andrus

APPENDIX A

LABORATORY CERTIFICATES

LAGOON 5 SW PRE-REMEDIAL

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

Todd Greene

Project No.: **03.0032795.26**
Work Order No.: **0901-00002**
Date Received: **01/02/2009**
Date Reported: **01/09/2009**

SAMPLE INFORMATION

Date Sampled	Matrix	Laboratory ID	Sample ID
12/30/2008	Aqueous	0901-00002 001	Lagoon 5 Sluceway
12/30/2008	Aqueous	0901-00002 002	Lagoon 5 Shelf
12/30/2008	Aqueous	0901-00002 003	Trip Blank

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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
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Providence, RI 02903

Todd Greene

Project Name.: **Charbert UIC Closure**
Project No.: **03.0032795.26**

Date Received: **01/02/2009**
Date Reported: **01/09/2009**
Work Order No.: **0901-00002**

PROJECT NARRATIVE:

1. Sample Receipt

The samples were received on 01/02/09 via _x_GZA courier, __EC, __FEDEX, or ___hand delivered. The temperature of the __temperature blank/_x_cooler air, was 0.7 degrees C. The temperature requirement for most analyses is above freezing to 6 degrees C. The samples were received intact for all requested analyses except for sample "Lagoon 5 Sluceway" assigned for TPH which was broken when inspected on arrival at the lab.

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

The continuing calibration verification standard (CCV) (01/02/09) had an analyte outside of the 30%D QC acceptance limit. The outlier includes tert-butyl alcohol (TBA) (36%).

The Laboratory Control Sample (LCS) (01/02/09 A) had a method 8260 list analyte outside of the 70-130% QC acceptance limits. Specific outlier includes tert-butyl alcohol (TBA) (136%). This analyte was not found in the associated samples

The continuing calibration verification standard (CCV) (01/05/09) had analytes outside of the 30%D QC acceptance limit. The outliers include dichlorodifluoromethane (31%) and tert-butyl alcohol (TBA) (34%).

The Laboratory Control Sample (LCS) (01/05/09 A) had method 8260 list analytes outside of the 70-130% QC acceptance limits. Specific outliers include dichlorodifluoromethane (131%) and tert-butyl alcohol (TBA) (136%). These analytes were not found in the associated samples.

Samples Lagoon 5 Sluceway (0901-0002-001) and Lagoon 5 Shelf (0901-0002-002) were analyzed without dilution with analytes detected above the instrument calibration range. The samples were analyzed again at a 1/25 dilution. The results for both analyses are reported.

The percent recoveries for the surrogates in the diluted runs are as follows:

Lagoon 5 Sluceway: 1,2- Dichloroethane-D4 - 91.0%, Toluene-D8 - 103%, 4-Bromofluorobenzene - 103%
Lagoon 5 Shelf: 1,2- Dichloroethane-D4 - 91.8%, Toluene-D8 - 103%, 4-Bromofluorobenzene - 103%

Attach QC 8260 01/02/09 A - Aqueous
Attach QC 8260 01/05/09 A - Aqueous

3. EPA Method 6010B/7470A - Metals

Attach QC 6010B 01/06/09 - Aqueous
Attach QC 7570A 01/05/09 - Aqueous

4. EPA Method 8270 - SVOCs

The Laboratory Control Spike (LCS) (01/05/09) had a method 8270 list acid analyte outside of the 30-130% QC acceptance limits . Specific outlier includes benzoic acid (3.50%).

Attach QC 8270 01/05/09 - Aqueous

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ANALYTICAL REPORT

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Project Name.:	**Charbert UIC Closure**	Date Received:	**01/02/2009**
Project No.:	**03.0032795.26**	Date Reported:	**01/09/2009**
		Work Order No.:	**0901-00002**

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.
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Providence, RI 02903

Todd Greene

Project Name.: **Charbert UIC Closure**
Project No.: **03.0032795.26**

Date Received: **01/02/2009**
Date Reported: **01/09/2009**
Work Order No.: **0901-00002**

Sample ID: **Lagoon 5 Sluceway** Sample No.: **001**

Sample Date: **12/30/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MQS	01/02/2009
Dichlorodifluoromethane	EPA 8260	<2.0	ug/L	MQS	01/02/2009
Chloromethane	EPA 8260	<2.0	ug/L	MQS	01/02/2009
Vinyl Chloride	EPA 8260	34	ug/L	MQS	01/02/2009
Bromomethane	EPA 8260	<2.0	ug/L	MQS	01/02/2009
Chloroethane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Trichlorofluoromethane	EPA 8260	<2.0	ug/L	MQS	01/02/2009
Diethylether	EPA 8260	<5.0	ug/L	MQS	01/02/2009
Acetone	EPA 8260	<25	ug/L	MQS	01/02/2009
1,1-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Dichloromethane	EPA 8260	<2.0	ug/L	MQS	01/02/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	ug/L	MQS	01/02/2009
trans-1,2-Dichloroethene	EPA 8260	4.4	ug/L	MQS	01/02/2009
1,1-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
2-Butanone	EPA 8260	<25	ug/L	MQS	01/02/2009
2,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
cis-1,2-Dichloroethene	EPA 8260	380	ug/L	MQS	01/05/2009
Chloroform	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Bromochloromethane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Tetrahydrofuran	EPA 8260	<10	ug/L	MQS	01/02/2009
1,1,1-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,1-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Carbon Tetrachloride	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,2-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Benzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Trichloroethene	EPA 8260	130	ug/L	MQS	01/05/2009
1,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Bromodichloromethane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Dibromomethane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
4-Methyl-2-Pentanone	EPA 8260	<25	ug/L	MQS	01/02/2009
cis-1,3-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Toluene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
trans-1,3-Dichloropropene	EPA 8260	<2.0	ug/L	MQS	01/02/2009
1,1,2-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
2-Hexanone	EPA 8260	<25	ug/L	MQS	01/02/2009
1,3-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Tetrachloroethene	EPA 8260	1200	ug/L	MQS	01/05/2009

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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
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Providence, RI 02903

Todd Greene

Project Name.: **Charbert UIC Closure**
Project No.: **03.0032795.26**

Date Received: **01/02/2009**
Date Reported: **01/09/2009**
Work Order No.: **0901-00002**

Sample ID: **Lagoon 5 Sluceway** Sample No.: **001**

Sample Date: **12/30/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
Dibromochloromethane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	ug/L	MQS	01/02/2009
Chlorobenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Ethylbenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
m&p-Xylene	EPA 8260	<2.0	ug/L	MQS	01/02/2009
o-Xylene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Styrene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Bromoform	EPA 8260	<2.0	ug/L	MQS	01/02/2009
Isopropylbenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,2,3-Trichloropropane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Bromobenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
N-Propylbenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
2-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,3,5-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
4-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
tert-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,2,4-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
sec-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
p-Isopropyltoluene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,3-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,4-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
n-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,2-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	ug/L	MQS	01/02/2009
1,2,4-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Hexachlorobutadiene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Naphthalene	EPA 8260	<2.0	ug/L	MQS	01/02/2009
1,2,3-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	98.6	% R	MQS	01/02/2009
***Toluene-D8	EPA 8260	104	% R	MQS	01/02/2009
***4-Bromofluorobenzene	EPA 8260	104	% R	MQS	01/02/2009
Preparation	EPA 5030B	1.0	CF	MQS	01/02/2009
SEMI-VOLATILE ORGANICS	EPA 8270			CMG	01/05/2009
ACID FRACTION:	EPA 8270				

GZA GeoEnvironmental, Inc.
106 South Street
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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Todd Greene

Project Name.: **Charbert UIC Closure**
Project No.: **03.0032795.26**

Date Received: **01/02/2009**
Date Reported: **01/09/2009**
Work Order No.: **0901-00002**

Sample ID: **Lagoon 5 Sluceway** Sample No.: **001**

Sample Date: **12/30/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
Phenol	EPA 8270	<10	ug/L	CMG	01/05/2009
2-Chlorophenol	EPA 8270	<10	ug/L	CMG	01/05/2009
2-Methylphenol	EPA 8270	<10	ug/L	CMG	01/05/2009
3&4-Methylphenol	EPA 8270	<10	ug/L	CMG	01/05/2009
2-Nitrophenol	EPA 8270	<10	ug/L	CMG	01/05/2009
2,4-Dimethylphenol	EPA 8270	<10	ug/L	CMG	01/05/2009
Benzoic Acid	EPA 8270	<10	ug/L	CMG	01/05/2009
2,4-Dichlorophenol	EPA 8270	<10	ug/L	CMG	01/05/2009
4-Chloro-3-Methylphenol	EPA 8270	<20	ug/L	CMG	01/05/2009
2,4,6-Trichlorophenol	EPA 8270	<10	ug/L	CMG	01/05/2009
2,4,5-Trichlorophenol	EPA 8270	<10	ug/L	CMG	01/05/2009
2,4-Dinitrophenol	EPA 8270	<100	ug/L	CMG	01/05/2009
4-Nitrophenol	EPA 8270	<50	ug/L	CMG	01/05/2009
4,6-Dinitro-2-Methylphenol	EPA 8270	<50	ug/L	CMG	01/05/2009
Pentachlorophenol	EPA 8270	<50	ug/L	CMG	01/05/2009
BASE-NEUTRAL FRACTION:					
n-Nitrosodimethylamine	EPA 8270	<10	ug/L	CMG	01/05/2009
bis(2-Chloroethyl)Ether	EPA 8270	<10	ug/L	CMG	01/05/2009
1,3-Dichlorobenzene	EPA 8270	<10	ug/L	CMG	01/05/2009
1,4-Dichlorobenzene	EPA 8270	<10	ug/L	CMG	01/05/2009
Benzyl Alcohol	EPA 8270	<20	ug/L	CMG	01/05/2009
1,2-Dichlorobenzene	EPA 8270	<10	ug/L	CMG	01/05/2009
bis(2-Chloroisopropyl)Ether	EPA 8270	<10	ug/L	CMG	01/05/2009
n-Nitrosodi-n-Propylamine	EPA 8270	<10	ug/L	CMG	01/05/2009
Hexachloroethane	EPA 8270	<10	ug/L	CMG	01/05/2009
Nitrobenzene	EPA 8270	<10	ug/L	CMG	01/05/2009
Isophorone	EPA 8270	<10	ug/L	CMG	01/05/2009
bis(2-Chloroethoxy)Methane	EPA 8270	<10	ug/L	CMG	01/05/2009
1,2,4-Trichlorobenzene	EPA 8270	<10	ug/L	CMG	01/05/2009
Naphthalene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
4-Chloroaniline	EPA 8270	<20	ug/L	CMG	01/05/2009
Hexachlorobutadiene	EPA 8270	<10	ug/L	CMG	01/05/2009
2-Methylnaphthalene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
Hexachlorocyclopentadiene	EPA 8270	<50	ug/L	CMG	01/05/2009
2-Chloronaphthalene	EPA 8270	<10	ug/L	CMG	01/05/2009
2-Nitroaniline	EPA 8270	<50	ug/L	CMG	01/05/2009
Dimethylphthalate	EPA 8270	<10	ug/L	CMG	01/05/2009

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Project Name.: **Charbert UIC Closure**
Project No.: **03.0032795.26**

Date Received: **01/02/2009**
Date Reported: **01/09/2009**
Work Order No.: **0901-00002**

Sample ID: **Lagoon 5 Sluceway** Sample No.: **001**

Sample Date: **12/30/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
Acenaphthylene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
2,6-Dinitrotoluene	EPA 8270	<10	ug/L	CMG	01/05/2009
3-Nitroaniline	EPA 8270	<50	ug/L	CMG	01/05/2009
Acenaphthene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
Dibenzofuran	EPA 8270	<10	ug/L	CMG	01/05/2009
2,4-Dinitrotoluene	EPA 8270	<10	ug/L	CMG	01/05/2009
Diethylphthalate	EPA 8270	<10	ug/L	CMG	01/05/2009
Fluorene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
4-Chlorophenyl Phenyl Ether	EPA 8270	<10	ug/L	CMG	01/05/2009
4-Nitroaniline	EPA 8270	<20	ug/L	CMG	01/05/2009
n-Nitrosodiphenylamine	EPA 8270	<10	ug/L	CMG	01/05/2009
4-Bromophenyl Phenyl Ether	EPA 8270	<10	ug/L	CMG	01/05/2009
Hexachlorobenzene	EPA 8270	<10	ug/L	CMG	01/05/2009
Phenanthrene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
Anthracene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
Carbazole	EPA 8270	<10	ug/L	CMG	01/05/2009
di-n-Butylphthalate	EPA 8270	<15	ug/L	CMG	01/05/2009
Fluoranthene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
Pyrene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
Butylbenzylphthalate	EPA 8270	<10	ug/L	CMG	01/05/2009
Benzo [a] Anthracene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
3,3'-Dichlorobenzidine	EPA 8270	<20	ug/L	CMG	01/05/2009
Chrysene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
bis(2-Ethylhexyl)Phthalate	EPA 8270	<10	ug/L	CMG	01/05/2009
di-n-Octylphthalate	EPA 8270	<10	ug/L	CMG	01/05/2009
Benzo [b] Fluoranthene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
Benzo [k] Fluoranthene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
Benzo [a] Pyrene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
Indeno [1,2,3-cd] Pyrene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
Dibenzo [a,h] Anthracene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
Benzo [g,h,i] Perylene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
Surrogates:	EPA 8270				
***2-Fluorophenol	EPA 8270	26.3	% R	CMG	01/05/2009
***Phenol-D6	EPA 8270	17.7	% R	CMG	01/05/2009
***Nitrobenzene-D5	EPA 8270	67.5	% R	CMG	01/05/2009
***2-Fluorobiphenyl	EPA 8270	66.4	% R	CMG	01/05/2009
***2,4,6-Tribromophenol	EPA 8270	63.1	% R	CMG	01/05/2009

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Project No.: **03.0032795.26**

Date Received: **01/02/2009**
Date Reported: **01/09/2009**
Work Order No.: **0901-00002**

Sample ID: **Lagoon 5 Sluceway** Sample No.: **001**

Sample Date: **12/30/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
***P-Terphenyl-D14	EPA 8270	64.1	% R	CMG	01/05/2009
Extraction	EPA 3510C	1.0	DF	JMB	01/05/2009
PRIORITY POLLUTANT METALS				LLZ	01/08/2009
Silver	EPA 6010B	<0.0050	mg/L	LLZ	01/08/2009
Arsenic	EPA 6010B	<0.010	mg/L	LLZ	01/08/2009
Beryllium	EPA 6010B	<0.0040	mg/L	LLZ	01/08/2009
Cadmium	EPA 6010B	<0.0050	mg/L	LLZ	01/08/2009
Chromium	EPA 6010B	<0.0050	mg/L	LLZ	01/08/2009
Copper	EPA 6010B	0.015	mg/L	LLZ	01/08/2009
Mercury	EPA 7470A	<0.00040	mg/L	TN	01/06/2009
Nickel	EPA 6010B	<0.010	mg/L	LLZ	01/08/2009
Lead	EPA 6010B	<0.010	mg/L	LLZ	01/08/2009
Antimony	EPA 6010B	<0.025	mg/L	LLZ	01/08/2009
Selenium	EPA 6010B	<0.025	mg/L	LLZ	01/08/2009
Thallium	EPA 6010B	<0.025	mg/L	LLZ	01/08/2009
Zinc	EPA 6010B	0.059	mg/L	LLZ	01/08/2009

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Date Received: **01/02/2009**
Date Reported: **01/09/2009**
Work Order No.: **0901-00002**

Sample ID: **Lagoon 5 Shelf** Sample No.: **002**

Sample Date: **12/30/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MQS	01/02/2009
Dichlorodifluoromethane	EPA 8260	<2.0	ug/L	MQS	01/02/2009
Chloromethane	EPA 8260	<2.0	ug/L	MQS	01/02/2009
Vinyl Chloride	EPA 8260	24	ug/L	MQS	01/02/2009
Bromomethane	EPA 8260	<2.0	ug/L	MQS	01/02/2009
Chloroethane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Trichlorofluoromethane	EPA 8260	<2.0	ug/L	MQS	01/02/2009
Diethylether	EPA 8260	<5.0	ug/L	MQS	01/02/2009
Acetone	EPA 8260	<25	ug/L	MQS	01/02/2009
1,1-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Dichloromethane	EPA 8260	<2.0	ug/L	MQS	01/02/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	ug/L	MQS	01/02/2009
trans-1,2-Dichloroethene	EPA 8260	3.3	ug/L	MQS	01/02/2009
1,1-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
2-Butanone	EPA 8260	<25	ug/L	MQS	01/02/2009
2,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
cis-1,2-Dichloroethene	EPA 8260	300	ug/L	MQS	01/05/2009
Chloroform	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Bromochloromethane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Tetrahydrofuran	EPA 8260	<10	ug/L	MQS	01/02/2009
1,1,1-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,1-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Carbon Tetrachloride	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,2-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Benzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Trichloroethene	EPA 8260	97	ug/L	MQS	01/02/2009
1,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Bromodichloromethane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Dibromomethane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
4-Methyl-2-Pentanone	EPA 8260	<25	ug/L	MQS	01/02/2009
cis-1,3-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Toluene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
trans-1,3-Dichloropropene	EPA 8260	<2.0	ug/L	MQS	01/02/2009
1,1,2-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
2-Hexanone	EPA 8260	<25	ug/L	MQS	01/02/2009
1,3-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Tetrachloroethene	EPA 8260	940	ug/L	MQS	01/05/2009

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Project Name.: **Charbert UIC Closure**
Project No.: **03.0032795.26**

Date Received: **01/02/2009**
Date Reported: **01/09/2009**
Work Order No.: **0901-00002**

Sample ID: **Lagoon 5 Shelf** Sample No.: **002**

Sample Date: **12/30/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
Dibromochloromethane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	ug/L	MQS	01/02/2009
Chlorobenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Ethylbenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
m&p-Xylene	EPA 8260	<2.0	ug/L	MQS	01/02/2009
o-Xylene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Styrene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Bromoform	EPA 8260	<2.0	ug/L	MQS	01/02/2009
Isopropylbenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,2,3-Trichloropropane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Bromobenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
N-Propylbenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
2-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,3,5-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
4-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
tert-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,2,4-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
sec-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
p-Isopropyltoluene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,3-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,4-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
n-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,2-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	ug/L	MQS	01/02/2009
1,2,4-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Hexachlorobutadiene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Naphthalene	EPA 8260	<2.0	ug/L	MQS	01/02/2009
1,2,3-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	94.3	% R	MQS	01/02/2009
***Toluene-D8	EPA 8260	102	% R	MQS	01/02/2009
***4-Bromofluorobenzene	EPA 8260	105	% R	MQS	01/02/2009
Preparation	EPA 5030B	1.0	CF	MQS	01/02/2009
SEMI-VOLATILE ORGANICS	EPA 8270			CMG	01/05/2009
ACID FRACTION:	EPA 8270				

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Date Received: **01/02/2009**
Date Reported: **01/09/2009**
Work Order No.: **0901-00002**

Sample ID: **Lagoon 5 Shelf** Sample No.: **002**

Sample Date: **12/30/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
Phenol	EPA 8270	<10	ug/L	CMG	01/05/2009
2-Chlorophenol	EPA 8270	<10	ug/L	CMG	01/05/2009
2-Methylphenol	EPA 8270	<10	ug/L	CMG	01/05/2009
3&4-Methylphenol	EPA 8270	<10	ug/L	CMG	01/05/2009
2-Nitrophenol	EPA 8270	<10	ug/L	CMG	01/05/2009
2,4-Dimethylphenol	EPA 8270	<10	ug/L	CMG	01/05/2009
Benzoic Acid	EPA 8270	<10	ug/L	CMG	01/05/2009
2,4-Dichlorophenol	EPA 8270	<10	ug/L	CMG	01/05/2009
4-Chloro-3-Methylphenol	EPA 8270	<20	ug/L	CMG	01/05/2009
2,4,6-Trichlorophenol	EPA 8270	<10	ug/L	CMG	01/05/2009
2,4,5-Trichlorophenol	EPA 8270	<10	ug/L	CMG	01/05/2009
2,4-Dinitrophenol	EPA 8270	<100	ug/L	CMG	01/05/2009
4-Nitrophenol	EPA 8270	<50	ug/L	CMG	01/05/2009
4,6-Dinitro-2-Methylphenol	EPA 8270	<50	ug/L	CMG	01/05/2009
Pentachlorophenol	EPA 8270	<50	ug/L	CMG	01/05/2009
BASE-NEUTRAL FRACTION:					
n-Nitrosodimethylamine	EPA 8270	<10	ug/L	CMG	01/05/2009
bis(2-Chloroethyl)Ether	EPA 8270	<10	ug/L	CMG	01/05/2009
1,3-Dichlorobenzene	EPA 8270	<10	ug/L	CMG	01/05/2009
1,4-Dichlorobenzene	EPA 8270	<10	ug/L	CMG	01/05/2009
Benzyl Alcohol	EPA 8270	<20	ug/L	CMG	01/05/2009
1,2-Dichlorobenzene	EPA 8270	<10	ug/L	CMG	01/05/2009
bis(2-Chloroisopropyl)Ether	EPA 8270	<10	ug/L	CMG	01/05/2009
n-Nitrosodi-n-Propylamine	EPA 8270	<10	ug/L	CMG	01/05/2009
Hexachloroethane	EPA 8270	<10	ug/L	CMG	01/05/2009
Nitrobenzene	EPA 8270	<10	ug/L	CMG	01/05/2009
Isophorone	EPA 8270	<10	ug/L	CMG	01/05/2009
bis(2-Chloroethoxy)Methane	EPA 8270	<10	ug/L	CMG	01/05/2009
1,2,4-Trichlorobenzene	EPA 8270	<10	ug/L	CMG	01/05/2009
Naphthalene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
4-Chloroaniline	EPA 8270	<20	ug/L	CMG	01/05/2009
Hexachlorobutadiene	EPA 8270	<10	ug/L	CMG	01/05/2009
2-Methylnaphthalene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
Hexachlorocyclopentadiene	EPA 8270	<50	ug/L	CMG	01/05/2009
2-Chloronaphthalene	EPA 8270	<10	ug/L	CMG	01/05/2009
2-Nitroaniline	EPA 8270	<50	ug/L	CMG	01/05/2009
Dimethylphthalate	EPA 8270	<10	ug/L	CMG	01/05/2009

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Project Name.: **Charbert UIC Closure**
Project No.: **03.0032795.26**

Date Received: **01/02/2009**
Date Reported: **01/09/2009**
Work Order No.: **0901-00002**

Sample ID: **Lagoon 5 Shelf** Sample No.: **002**

Sample Date: **12/30/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
Acenaphthylene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
2,6-Dinitrotoluene	EPA 8270	<10	ug/L	CMG	01/05/2009
3-Nitroaniline	EPA 8270	<50	ug/L	CMG	01/05/2009
Acenaphthene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
Dibenzofuran	EPA 8270	<10	ug/L	CMG	01/05/2009
2,4-Dinitrotoluene	EPA 8270	<10	ug/L	CMG	01/05/2009
Diethylphthalate	EPA 8270	<10	ug/L	CMG	01/05/2009
Fluorene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
4-Chlorophenyl Phenyl Ether	EPA 8270	<10	ug/L	CMG	01/05/2009
4-Nitroaniline	EPA 8270	<20	ug/L	CMG	01/05/2009
n-Nitrosodiphenylamine	EPA 8270	<10	ug/L	CMG	01/05/2009
4-Bromophenyl Phenyl Ether	EPA 8270	<10	ug/L	CMG	01/05/2009
Hexachlorobenzene	EPA 8270	<10	ug/L	CMG	01/05/2009
Phenanthrene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
Anthracene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
Carbazole	EPA 8270	<10	ug/L	CMG	01/05/2009
di-n-Butylphthalate	EPA 8270	<15	ug/L	CMG	01/05/2009
Fluoranthene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
Pyrene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
Butylbenzylphthalate	EPA 8270	<10	ug/L	CMG	01/05/2009
Benzo [a] Anthracene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
3,3'-Dichlorobenzidine	EPA 8270	<20	ug/L	CMG	01/05/2009
Chrysene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
bis(2-Ethylhexyl)Phthalate	EPA 8270	<10	ug/L	CMG	01/05/2009
di-n-Octylphthalate	EPA 8270	<10	ug/L	CMG	01/05/2009
Benzo [b] Fluoranthene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
Benzo [k] Fluoranthene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
Benzo [a] Pyrene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
Indeno [1,2,3-cd] Pyrene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
Dibenzo [a,h] Anthracene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
Benzo [g,h,i] Perylene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
Surrogates:	EPA 8270				
***2-Fluorophenol	EPA 8270	25.1	% R	CMG	01/05/2009
***Phenol-D6	EPA 8270	16.6	% R	CMG	01/05/2009
***Nitrobenzene-D5	EPA 8270	67.2	% R	CMG	01/05/2009
***2-Fluorobiphenyl	EPA 8270	70.2	% R	CMG	01/05/2009
***2,4,6-Tribromophenol	EPA 8270	67.9	% R	CMG	01/05/2009

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Project Name.: **Charbert UIC Closure**
Project No.: **03.0032795.26**

Date Received: **01/02/2009**
Date Reported: **01/09/2009**
Work Order No.: **0901-00002**

Sample ID: **Lagoon 5 Shelf**
Sample No.: **002**
Sample Date: **12/30/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
***P-Terphenyl-D14	EPA 8270	66.8	% R	CMG	01/05/2009
Extraction	EPA 3510C	1.0	DF	JMB	01/05/2009
TOTAL PETROLEUM HYDROCARBON	Mod. EPA 8100			RJD	01/06/2009
Hydrocarbon Content		270	ug/L	RJD	01/06/2009
Surrogate:					
***p-Terphenyl		80.8	% R	RJD	01/06/2009
Extraction	EPA 3510C	1.0	DF	JMB	01/06/2009
PRIORITY POLLUTANT METALS				LLZ	01/08/2009
Silver	EPA 6010B	<0.0050	mg/L	LLZ	01/08/2009
Arsenic	EPA 6010B	<0.010	mg/L	LLZ	01/08/2009
Beryllium	EPA 6010B	<0.0040	mg/L	LLZ	01/08/2009
Cadmium	EPA 6010B	<0.0050	mg/L	LLZ	01/08/2009
Chromium	EPA 6010B	<0.0050	mg/L	LLZ	01/08/2009
Copper	EPA 6010B	<0.015	mg/L	LLZ	01/08/2009
Mercury	EPA 7470A	<0.00040	mg/L	TN	01/06/2009
Nickel	EPA 6010B	<0.010	mg/L	LLZ	01/08/2009
Lead	EPA 6010B	<0.010	mg/L	LLZ	01/08/2009
Antimony	EPA 6010B	<0.025	mg/L	LLZ	01/08/2009
Selenium	EPA 6010B	<0.025	mg/L	LLZ	01/08/2009
Thallium	EPA 6010B	<0.025	mg/L	LLZ	01/08/2009
Zinc	EPA 6010B	0.069	mg/L	LLZ	01/08/2009

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Date Received: **01/02/2009**
Date Reported: **01/09/2009**
Work Order No.: **0901-00002**

Sample ID: **Trip Blank** Sample No.: **003**

Sample Date: **12/30/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MQS	01/02/2009
Dichlorodifluoromethane	EPA 8260	<2.0	ug/L	MQS	01/02/2009
Chloromethane	EPA 8260	<2.0	ug/L	MQS	01/02/2009
Vinyl Chloride	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Bromomethane	EPA 8260	<2.0	ug/L	MQS	01/02/2009
Chloroethane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Trichlorofluoromethane	EPA 8260	<2.0	ug/L	MQS	01/02/2009
Diethylether	EPA 8260	<5.0	ug/L	MQS	01/02/2009
Acetone	EPA 8260	<25	ug/L	MQS	01/02/2009
1,1-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Dichloromethane	EPA 8260	<2.0	ug/L	MQS	01/02/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	ug/L	MQS	01/02/2009
trans-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,1-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
2-Butanone	EPA 8260	<25	ug/L	MQS	01/02/2009
2,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
cis-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Chloroform	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Bromochloromethane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Tetrahydrofuran	EPA 8260	<10	ug/L	MQS	01/02/2009
1,1,1-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,1-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Carbon Tetrachloride	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,2-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Benzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Trichloroethene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Bromodichloromethane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Dibromomethane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
4-Methyl-2-Pentanone	EPA 8260	<25	ug/L	MQS	01/02/2009
cis-1,3-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Toluene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
trans-1,3-Dichloropropene	EPA 8260	<2.0	ug/L	MQS	01/02/2009
1,1,2-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
2-Hexanone	EPA 8260	<25	ug/L	MQS	01/02/2009
1,3-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Tetrachloroethene	EPA 8260	<1.0	ug/L	MQS	01/02/2009

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Date Received: **01/02/2009**
Date Reported: **01/09/2009**
Work Order No.: **0901-00002**

Sample ID: **Trip Blank** Sample No.: **003**

Sample Date: **12/30/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
Dibromochloromethane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	ug/L	MQS	01/02/2009
Chlorobenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Ethylbenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
m&p-Xylene	EPA 8260	<2.0	ug/L	MQS	01/02/2009
o-Xylene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Styrene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Bromoform	EPA 8260	<2.0	ug/L	MQS	01/02/2009
Isopropylbenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,2,3-Trichloropropane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Bromobenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
N-Propylbenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
2-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,3,5-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
4-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
tert-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,2,4-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
sec-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
p-Isopropyltoluene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,3-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,4-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
n-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,2-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	ug/L	MQS	01/02/2009
1,2,4-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Hexachlorobutadiene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Naphthalene	EPA 8260	<2.0	ug/L	MQS	01/02/2009
1,2,3-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	97.5	% R	MQS	01/02/2009
***Toluene-D8	EPA 8260	104	% R	MQS	01/02/2009
***4-Bromofluorobenzene	EPA 8260	103	% R	MQS	01/02/2009
Preparation	EPA 5030B	1.0	CF	MQS	01/02/2009

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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:	1/3/2006		Date Analyzed:	1/3/2006			1/3/2006					
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	114	70-130	ok	121	70-130	ok	5.57	<25	ok
chloromethane	< 1.0	< 1.0	chloromethane	102	70-130	ok	105	70-130	ok	3.27	<25	ok
vinyl chloride	< 0.5	< 0.5	vinyl chloride	104	80-120	ok	110	70-130	ok	5.17	<25	ok
bromomethane	< 1.0	< 1.0	bromomethane	100	70-130	ok	107	70-130	ok	6.42	<25	ok
chloroethane	< 0.5	< 0.5	chloroethane	102	70-130	ok	108	70-130	ok	5.70	<25	ok
trichlorofluoromethane	< 1.0	< 1.0	trichlorofluoromethane	103	70-130	ok	110	70-130	ok	6.09	<25	ok
diethyl ether	< 2.5	< 2.5	diethyl ether	99.4	70-130	ok	104	70-130	ok	4.63	<25	ok
acetone	< 13	< 13	acetone	102	70-130	ok	109	70-130	ok	5.98	<25	ok
1,1-dichloroethene	< 0.5	< 0.5	1,1-dichloroethene	102	80-120	ok	109	70-130	ok	6.36	<25	ok
FREON-113	< 1.0	< 1.0	FREON-113	110	70-130	ok	117	70-130	ok	6.55	<25	ok
iodomethane	< 0.5	< 0.5	iodomethane	93.4	70-130	ok	99.3	70-130	ok	6.14	<25	ok
carbon disulfide	< 5.0	< 5.0	carbon disulfide	113	70-130	ok	119	70-130	ok	5.53	<25	ok
dichloromethane	< 1.0	< 1.0	dichloromethane	97.1	70-130	ok	104	70-130	ok	6.88	<25	ok
tert-butyl alcohol (TBA)	< 13	< 13	tert-butyl alcohol (TBA)	136	70-130	out	131	70-130	out	4.22	<25	ok
acrylonitrile	< 0.5	< 0.5	acrylonitrile	90.3	70-130	ok	98.2	70-130	ok	8.00	<25	ok
methyl-tert-butyl-ether	< 0.5	< 0.5	methyl-tert-butyl-ether	105	70-130	ok	112	70-130	ok	6.52	<25	ok
trans-1,2-dichloroethene	< 0.5	< 0.5	trans-1,2-dichloroethene	99.9	70-130	ok	108	70-130	ok	7.64	<25	ok
1,1-dichloroethane	< 0.5	< 0.5	1,1-dichloroethane	94.9	70-130	ok	100	70-130	ok	5.67	<25	ok
di-isopropyl ether (DIPE)	< 1.0	< 1.0	di-isopropyl ether (DIPE)	95.8	70-130	ok	99.8	70-130	ok	4.00	<25	ok
ethyl tert-butyl ether (EtBE)	< 1.0	< 1.0	ethyl tert-butyl ether (EtBE)	99.7	70-130	ok	108	70-130	ok	7.81	<25	ok
vinyl acetate	< 13	< 13	vinyl acetate	88.4	70-130	ok	90.4	70-130	ok	2.25	<25	ok
2-butanone	< 13	< 13	2-butanone	124	70-130	ok	136	70-130	out	9.27	<25	ok
2,2-dichloropropane	< 0.5	< 0.5	2,2-dichloropropane	97.0	70-130	ok	100	70-130	ok	3.13	<25	ok
cis-1,2-dichloroethene	< 0.5	< 0.5	cis-1,2-dichloroethene	97.0	70-130	ok	105	70-130	ok	7.81	<25	ok
chloroform	< 0.5	< 0.5	chloroform	90.2	80-120	ok	96.6	70-130	ok	6.81	<25	ok
bromochloromethane	< 0.5	< 0.5	bromochloromethane	96.6	70-130	ok	103	70-130	ok	7.49	<25	ok
tetrahydrofuran	< 5.0	< 5.0	tetrahydrofuran	111	70-130	ok	127	70-130	ok	13.8	<25	ok
1,1,1-trichloroethane	< 0.5	< 0.5	1,1,1-trichloroethane	93.0	70-130	ok	100	70-130	ok	7.34	<25	ok
1,1-dichloropropene	< 0.5	< 0.5	1,1-dichloropropene	91.6	70-130	ok	98.5	70-130	ok	7.22	<25	ok
carbon tetrachloride	< 0.5	< 0.5	carbon tetrachloride	95.0	70-130	ok	102	70-130	ok	7.53	<25	ok
1,2-dichloroethane	< 0.5	< 0.5	1,2-dichloroethane	91.5	70-130	ok	98.5	70-130	ok	7.31	<25	ok
benzene	< 0.5	< 0.5	benzene	94.6	70-130	ok	101	70-130	ok	6.35	<25	ok
tert-amyl methyl ether (TAME)	< 1.0	< 1.0	tert-amyl methyl ether (TAME)	104	70-130	ok	110	70-130	ok	5.59	<25	ok
trichloroethene	< 0.5	< 0.5	trichloroethene	97.6	70-130	ok	105	70-130	ok	7.46	<25	ok
1,2-dichloropropane	< 0.5	< 0.5	1,2-dichloropropane	92.0	80-120	ok	98.4	70-130	ok	6.67	<25	ok
bromodichloromethane	< 0.5	< 0.5	bromodichloromethane	91.1	70-130	ok	96.3	70-130	ok	7.61	<25	ok
1,4-Dioxane	< 50	< 50	1,4-Dioxane	90.6	70-130	ok	109	70-130	ok	18.5	<25	ok
dibromomethane	< 0.5	< 0.5	dibromomethane	99.2	70-130	ok	107	70-130	ok	7.68	<25	ok
4-methyl-2-pentanone	< 13	< 13	4-methyl-2-pentanone	112	70-130	ok	126	70-130	ok	11.8	<25	ok
cis-1,3-dichloropropene	< 0.5	< 0.5	cis-1,3-dichloropropene	97.3	70-130	ok	105	70-130	ok	7.61	<25	ok
toluene	< 0.5	< 0.5	toluene	91.7	80-120	ok	98.5	70-130	ok	7.13	<25	ok
trans-1,3-dichloropropene	< 1.0	< 1.0	trans-1,3-dichloropropene	91.7	70-130	ok	99.9	70-130	ok	8.59	<25	ok
1,1,2-trichloroethane	< 0.5	< 0.5	1,1,2-trichloroethane	103	70-130	ok	107	70-130	ok	3.90	<25	ok
2-hexanone	< 13	< 13	2-Hexanone	115	70-130	ok	127	70-130	ok	10.4	<25	ok
1,3-dichloropropane	< 0.5	< 0.5	1,3-dichloropropane	95.8	70-130	ok	101	70-130	ok	5.58	<25	ok
tetrachloroethene	< 0.5	< 0.5	tetrachloroethene	104	70-130	ok	110	70-130	ok	5.28	<25	ok
dibromochloromethane	< 0.5	< 0.5	dibromochloromethane	103	70-130	ok	110	70-130	ok	6.14	<25	ok
1,2-dibromoethane (EDB)	< 1.0	< 1.0	1,2-dibromoethane (EDB)	103	70-130	ok	108	70-130	ok	5.45	<25	ok
chlorobenzene	< 0.5	< 0.5	chlorobenzene	102	70-130	ok	108	70-130	ok	5.81	<25	ok
1,1,1,2-tetrachloroethane	< 0.5	< 0.5	1,1,1,2-tetrachloroethane	102	70-130	ok	108	70-130	ok	5.98	<25	ok
ethylbenzene	< 0.5	< 0.5	ethylbenzene	105	80-120	ok	110	70-130	ok	4.69	<25	ok
1,1,2,2-tetrachloroethane	< 0.5	< 0.5	1,1,2,2-tetrachloroethane	100.0	70-130	ok	109	70-130	ok	8.43	<25	ok
m&p-xylene	< 1.0	< 1.0	m&p-xylene	98.1	70-130	ok	104	70-130	ok	5.60	<25	ok
o-xylene	< 0.5	< 0.5	o-xylene	92.1	70-130	ok	97.5	70-130	ok	5.73	<25	ok
styrene	< 0.5	< 0.5	styrene	109	70-130	ok	116	70-130	ok	5.75	<25	ok
bromoform	< 1.0	< 1.0	bromoform	97.2	70-130	ok	106	70-130	ok	9.01	<25	ok
isopropylbenzene	< 0.5	< 0.5	isopropylbenzene	114	70-130	ok	120	70-130	ok	5.45	<25	ok
1,2,3-trichloropropane	< 0.5	< 0.5	1,2,3-trichloropropane	102	70-130	ok	111	70-130	ok	8.02	<25	ok
bromobenzene	< 0.5	< 0.5	bromobenzene	99.8	70-130	ok	106	70-130	ok	6.48	<25	ok
n-propylbenzene	< 0.5	< 0.5	n-propylbenzene	99.9	70-130	ok	105	70-130	ok	5.05	<25	ok
2-chlorotoluene	< 0.5	< 0.5	2-chlorotoluene	96.6	70-130	ok	92.6	70-130	ok	6.88	<25	ok
1,3,5-trimethylbenzene	< 0.5	< 0.5	1,3,5-trimethylbenzene	102	70-130	ok	108	70-130	ok	5.84	<25	ok
trans-1,4-dichloro-2-butene	< 1.0	< 1.0	trans-1,4-dichloro-2-butene	93.2	70-130	ok	101	70-130	ok	8.11	<25	ok
4-chlorotoluene	< 0.5	< 0.5	4-chlorotoluene	94.2	70-130	ok	101	70-130	ok	6.77	<25	ok
tert-butyl-benzene	< 0.5	< 0.5	tert-butyl-benzene	110	70-130	ok	120	70-130	ok	5.75	<25	ok
1,2,4-trimethylbenzene	< 0.5	< 0.5	1,2,4-trimethylbenzene	97.7	70-130	ok	104	70-130	ok	6.50	<25	ok
sec-butyl-benzene	< 0.5	< 0.5	sec-butyl-benzene	98.7	70-130	ok	104	70-130	ok	5.07	<25	ok
p-isopropyltoluene	< 0.5	< 0.5	p-isopropyltoluene	101	70-130	ok	107	70-130	ok	5.78	<25	ok
1,3-dichlorobenzene	< 0.5	< 0.5	1,3-dichlorobenzene	93.9	70-130	ok	100	70-130	ok	6.78	<25	ok
1,4-dichlorobenzene	< 0.5	< 0.5	1,4-dichlorobenzene	96.9	70-130	ok	104	70-130	ok	5.92	<25	ok
n-butylbenzene	< 0.5	< 0.5	n-butylbenzene	94.1	70-130	ok	99.8	70-130	ok	5.87	<25	ok
1,2-dichlorobenzene	< 0.5	< 0.5	1,2-dichlorobenzene	92.1	70-130	ok	98.8	70-130	ok	6.98	<25	ok
1,2-dibromo-3-chloropropane	< 2.5	< 2.5	1,2-dibromo-3-chloropropane	87.1	70-130	ok	97.2	70-130	ok	10.9	<25	ok
1,2,4-trichlorobenzene	< 0.5	< 0.5	1,2,4-trichlorobenzene	104	70-130	ok	112	70-130	ok	7.56	<25	ok
hexachlorobutadiene	< 0.5	< 0.5	hexachlorobutadiene	98.4	70-130	ok	104	70-130	ok	5.43	<25	ok
naphthalene	< 1.0	< 1.0	naphthalene	95.0	70-130	ok	110	70-130	ok	14.2	<25	ok
1,2,3-trichlorobenzene	< 0.5	< 0.5	1,2,3-trichlorobenzene	98.6	70-130	ok	108	70-130	ok	9.31	<25	ok

Surrogates:	Recovery (%)	Acceptance Limits	Surrogates:	Recovery (%)	Acceptance Limits	Verdict	Recovery (%)	Acceptance Limits	Verdict	RPD	Limit	Verdict
DIBROMOFLUOROMETHANE	98.8	70-130	DIBROMOFLUOROMETHANE	97.9	70-130	ok	98.8	70-130	ok	0.96	<25	ok
1,2-DICHLOROETHANE-D4	99.4	70-130	1,2-DICHLOROETHANE-D4	108	70-130	ok	108	70-130	ok	0.33	<25	ok
TOLUENE-D8	99.3	70-130	TOLUENE-D8	103	70-130	ok	104	70-130	ok	1.33	<25	ok
4-BROMOFLUOROBENZENE	102	70-130	4-BROMOFLUOROBENZENE	103	70-130	ok	103	70-130	ok	0.48	<25	ok
1,2-DICHLOROBENZENE-D4	97.9	70-130	1,2-DICHLOROBENZENE-D4	99.7	70-130	ok	102	70-130	ok	1.79	<25	ok

Instrument: HP GC/MS "A"

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:	1/5/2009		Date Analyzed:	1/5/2009			1/5/2009					
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	131	70-130	out	131	70-130	out	0.18	<25	ok
chloromethane	< 1.0	< 1.0	chloromethane	111	70-130	ok	112	70-130	ok	1.19	<25	ok
vinyl chloride	< 0.5	< 0.5	vinyl chloride	112	80-120	ok	114	70-130	ok	1.72	<25	ok
bromomethane	< 1.0	< 1.0	bromomethane	106	70-130	ok	108	70-130	ok	1.66	<25	ok
chloroethane	< 0.5	< 0.5	chloroethane	103	70-130	ok	107	70-130	ok	0.80	<25	ok
trichlorofluoromethane	< 1.0	< 1.0	trichlorofluoromethane	107	70-130	ok	110	70-130	ok	2.91	<25	ok
diethyl ether	< 2.5	< 2.5	diethyl ether	99.2	70-130	ok	104	70-130	ok	5.13	<25	ok
acetone	< 13	< 13	acetone	103	70-130	ok	108	70-130	ok	4.91	<25	ok
1,1-dichloroethene	< 0.5	< 0.5	1,1-dichloroethene	109	80-120	ok	109	70-130	ok	2.07	<25	ok
FREON-113	< 1.0	< 1.0	FREON-113	114	70-130	ok	118	70-130	ok	3.44	<25	ok
iodomethane	< 0.5	< 0.5	iodomethane	97.1	70-130	ok	100	70-130	ok	3.17	<25	ok
carbon disulfide	< 5.0	< 5.0	carbon disulfide	117	70-130	ok	121	70-130	ok	3.25	<25	ok
dichloromethane	< 1.0	< 1.0	dichloromethane	97.7	70-130	ok	102	70-130	ok	4.58	<25	ok
tert-butyl alcohol (TBA)	< 13	< 13	tert-butyl alcohol (TBA)	134	70-130	out	132	70-130	out	1.95	<25	ok
acrylonitrile	< 0.5	< 0.5	acrylonitrile	95.7	70-130	ok	96.1	70-130	ok	0.00	<25	ok
methyl-tert-butyl-ether	< 0.5	< 0.5	methyl-tert-butyl-ether	104	70-130	ok	110	70-130	ok	5.47	<25	ok
trans-1,2-dichloroethene	< 0.5	< 0.5	trans-1,2-dichloroethene	103	70-130	ok	107	70-130	ok	4.49	<25	ok
1,1-dichloroethane	< 0.5	< 0.5	1,1-dichloroethane	94.3	70-130	ok	99.2	70-130	ok	5.03	<25	ok
di-isopropyl ether (DIPE)	< 1.0	< 1.0	di-isopropyl ether (DIPE)	94.5	70-130	ok	97.8	70-130	ok	3.37	<25	ok
ethyl tert-butyl ether (ETBE)	< 1.0	< 1.0	ethyl tert-butyl ether (ETBE)	98.8	70-130	ok	105	70-130	ok	6.87	<25	ok
vinyl acetate	< 13	< 13	vinyl acetate	87.9	70-130	ok	91.7	70-130	ok	4.23	<25	ok
2-butanone	< 13	< 13	2-butanone	122	70-130	ok	135	70-130	out	9.93	<25	ok
2,2-dichloropropane	< 0.5	< 0.5	2,2-dichloropropane	99.9	70-130	ok	101	70-130	ok	0.80	<25	ok
cis-1,2-dichloroethene	< 0.5	< 0.5	cis-1,2-dichloroethene	96.9	70-130	ok	104	70-130	ok	4.99	<25	ok
chloroform	< 0.5	< 0.5	chloroform	90.1	80-120	ok	95.2	70-130	ok	5.48	<25	ok
bromochloromethane	< 0.5	< 0.5	bromochloromethane	96.0	70-130	ok	103	70-130	ok	8.71	<25	ok
tetrahydrofuran	< 5.0	< 5.0	tetrahydrofuran	95.8	70-130	ok	110	70-130	ok	15.3	<25	ok
1,1,1-trichloroethane	< 0.5	< 0.5	1,1,1-trichloroethane	94.8	70-130	ok	98.8	70-130	ok	4.15	<25	ok
1,1-dichloropropene	< 0.5	< 0.5	1,1-dichloropropene	92.7	70-130	ok	97.6	70-130	ok	5.08	<25	ok
carbon tetrachloride	< 0.5	< 0.5	carbon tetrachloride	96.8	70-130	ok	102	70-130	ok	4.87	<25	ok
1,2-dichloroethane	< 0.5	< 0.5	1,2-dichloroethane	89.3	70-130	ok	96.3	70-130	ok	7.54	<25	ok
benzene	< 0.5	< 0.5	benzene	95.8	70-130	ok	100	70-130	ok	4.84	<25	ok
tert-amyl methyl ether (TAME)	< 1.0	< 1.0	tert-amyl methyl ether (TAME)	103	70-130	ok	109	70-130	ok	5.82	<25	ok
trichloroethene	< 0.5	< 0.5	trichloroethene	100	70-130	ok	105	70-130	ok	4.91	<25	ok
1,2-dichloropropane	< 0.5	< 0.5	1,2-dichloropropane	92.1	80-120	ok	97.0	70-130	ok	5.18	<25	ok
bromodichloromethane	< 0.5	< 0.5	bromodichloromethane	91.4	70-130	ok	96.4	70-130	ok	5.31	<25	ok
1,4-Dioxane	< 50	< 50	1,4-Dioxane	91.7	70-130	ok	98.5	70-130	ok	7.12	<25	ok
dibromomethane	< 0.5	< 0.5	dibromomethane	96.0	70-130	ok	100	70-130	ok	6.29	<25	ok
4-methyl-2-pentanone	< 13	< 13	4-methyl-2-pentanone	110	70-130	ok	123	70-130	ok	10.9	<25	ok
cis-1,3-dichloropropene	< 0.5	< 0.5	cis-1,3-dichloropropene	97.9	70-130	ok	104	70-130	ok	6.10	<25	ok
toluene	< 0.5	< 0.5	toluene	93.0	80-120	ok	97.7	70-130	ok	4.98	<25	ok
trans-1,3-dichloropropene	< 1.0	< 1.0	trans-1,3-dichloropropene	91.5	70-130	ok	97.5	70-130	ok	6.36	<25	ok
1,1,2-trichloroethane	< 0.5	< 0.5	1,1,2-trichloroethane	96.5	70-130	ok	104	70-130	ok	7.59	<25	ok
2-hexanone	< 13	< 13	2-hexanone	109	70-130	ok	124	70-130	ok	12.8	<25	ok
1,3-dichloropropane	< 0.5	< 0.5	1,3-dichloropropane	92.4	70-130	ok	99.7	70-130	ok	7.57	<25	ok
tetrachloroethene	< 0.5	< 0.5	tetrachloroethene	102	70-130	ok	108	70-130	ok	5.54	<25	ok
dibromochloromethane	< 0.5	< 0.5	dibromochloromethane	101	70-130	ok	110	70-130	ok	8.55	<25	ok
1,2-dibromoethane (EDB)	< 1.0	< 1.0	1,2-dibromoethane (EDB)	98.9	70-130	ok	109	70-130	ok	9.22	<25	ok
chlorobenzene	< 0.5	< 0.5	chlorobenzene	101	70-130	ok	108	70-130	ok	6.88	<25	ok
1,1,1,2-tetrachloroethane	< 0.5	< 0.5	1,1,1,2-tetrachloroethane	100	70-130	ok	107	70-130	ok	6.40	<25	ok
ethylbenzene	< 0.5	< 0.5	ethylbenzene	105	80-120	ok	111	70-130	ok	5.60	<25	ok
1,1,2,2-tetrachloroethane	< 0.5	< 0.5	1,1,2,2-tetrachloroethane	96.2	70-130	ok	107	70-130	ok	10.7	<25	ok
m&p-xylene	< 1.0	< 1.0	m&p-xylene	97.3	70-130	ok	103	70-130	ok	5.58	<25	ok
o-xylene	< 0.5	< 0.5	o-xylene	91.6	70-130	ok	96.1	70-130	ok	4.81	<25	ok
styrene	< 0.5	< 0.5	styrene	109	70-130	ok	116	70-130	ok	4.75	<25	ok
bromoform	< 1.0	< 1.0	bromoform	95.5	70-130	ok	104	70-130	ok	8.79	<25	ok
Isopropylbenzene	< 0.5	< 0.5	Isopropylbenzene	114	70-130	ok	120	70-130	ok	4.80	<25	ok
1,2,3-trichloropropane	< 0.5	< 0.5	1,2,3-trichloropropane	98.3	70-130	ok	108	70-130	ok	9.29	<25	ok
bromobenzene	< 0.5	< 0.5	bromobenzene	98.7	70-130	ok	105	70-130	ok	6.37	<25	ok
n-propylbenzene	< 0.5	< 0.5	n-propylbenzene	98.1	70-130	ok	104	70-130	ok	6.08	<25	ok
2-chlorotoluene	< 0.5	< 0.5	2-chlorotoluene	98.0	70-130	ok	98.0	70-130	ok	6.68	<25	ok
1,3,5-trimethylbenzene	< 0.5	< 0.5	1,3,5-trimethylbenzene	103	70-130	ok	107	70-130	ok	4.01	<25	ok
trans-1,4-dichloro-2-butene	< 1.0	< 1.0	trans-1,4-dichloro-2-butene	94.6	70-130	ok	100.0	70-130	ok	5.50	<25	ok
4-chlorotoluene	< 0.5	< 0.5	4-chlorotoluene	93.5	70-130	ok	98.0	70-130	ok	4.61	<25	ok
tert-butyl-benzene	< 0.5	< 0.5	tert-butyl-benzene	119	70-130	ok	125	70-130	ok	5.11	<25	ok
1,2,4-trimethylbenzene	< 0.5	< 0.5	1,2,4-trimethylbenzene	98.8	70-130	ok	103	70-130	ok	4.34	<25	ok
sec-butyl-benzene	< 0.5	< 0.5	sec-butyl-benzene	98.8	70-130	ok	103	70-130	ok	4.51	<25	ok
p-Isopropyltoluene	< 0.5	< 0.5	p-Isopropyltoluene	102	70-130	ok	107	70-130	ok	4.44	<25	ok
1,3-dichlorobenzene	< 0.5	< 0.5	1,3-dichlorobenzene	92.5	70-130	ok	99.0	70-130	ok	6.83	<25	ok
1,4-dichlorobenzene	< 0.5	< 0.5	1,4-dichlorobenzene	97.0	70-130	ok	103	70-130	ok	6.22	<25	ok
n-butylbenzene	< 0.5	< 0.5	n-butylbenzene	93.9	70-130	ok	98.8	70-130	ok	5.11	<25	ok
1,2-dichlorobenzene	< 0.5	< 0.5	1,2-dichlorobenzene	90.4	70-130	ok	97.6	70-130	ok	7.57	<25	ok
1,2-dibromo-3-chloropropane	< 2.5	< 2.5	1,2-dibromo-3-chloropropane	82.6	70-130	ok	94.2	70-130	ok	13.2	<25	ok
1,2,4-trichlorobenzene	< 0.5	< 0.5	1,2,4-trichlorobenzene	103	70-130	ok	111	70-130	ok	7.56	<25	ok
hexachlorobutadiene	< 0.5	< 0.5	hexachlorobutadiene	98.6	70-130	ok	103	70-130	ok	3.95	<25	ok
naphthalene	< 1.0	< 1.0	naphthalene	91.5	70-130	ok	107	70-130	ok	15.6	<25	ok
1,2,3-trichlorobenzene	< 0.5	< 0.5	1,2,3-trichlorobenzene	96.5	70-130	ok	106	70-130	ok	10.4	<25	ok

Surrogates:	Recovery (%)	Acceptance Limits	Surrogates:	Recovery (%)	Acceptance Limits	Verdict	Recovery (%)	Acceptance Limits	Verdict	RPD	Limit	Verdict
DIBROMOFLUOROMETHANE	97.5	70-130	DIBROMOFLUOROMETHANE	99.0	70-130	ok	99.5	70-130	ok	0.48	<25	ok
1,2-DICHLOROETHANE-D4	97.0	70-130	1,2-DICHLOROETHANE-D4	109	70-130	ok	113	70-130	ok	2.82	<25	ok
TOLUENE-D8	100	70-130	TOLUENE-D8	104	70-130	ok	104	70-130	ok	0.20	<25	ok
4-BROMOFLUOROBENZENE	102	70-130	4-BROMOFLUOROBENZENE	103	70-130	ok	105	70-130	ok	1.35	<25	ok
1,2-DICHLORCBENZENE-D4	98.0	70-130	1,2-DICHLOROBENZENE-D4	101	70-130	ok	102	70-130	ok	0.91	<25	ok

Instrument: HP GC/MS "A"

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: 1/6/2009

QC Sample	Method Blank	Lab Control Sample	LC Duplicate	LCS/LCD Diff.
Units	mg/L	% Recovery	% Recovery	RPD
Acceptance Limits	Results	80-120	80-120	20%
Analyte				
Silver (Ag)	<0.0050	92.4	91.9	0.54
Aluminum (Al)	NA	NA	NA	NA
Arsenic (As)	<0.010	103	104	1.79
Boron (B)	NA	NA	NA	NA
Barium (Ba)	NA	NA	NA	NA
Beryllium (Be)	<0.0040	102	102	0.58
Calcium (Ca)	NA	NA	NA	NA
Cadmium (Cd)	<0.0050	103	104	0.76
Cobalt (Co)	NA	NA	NA	NA
Chromium (Cr)	<0.0050	100	101	0.74
Copper (Cu)	<0.015	105	106	0.75
Iron (Fe)	<0.025	105	106	0.66
Magnesium (Mg)	NA	NA	NA	NA
Manganese (Mn)	NA	NA	NA	NA
Molybdenum (Mo)	NA	NA	NA	NA
Nickel (Ni)	<0.010	103	104	0.88
Lead (Pb)	<0.010	101	103	1.61
Antimony (Sb)	<0.025	101	104	2.48
Selenium (Se)	<0.025	106	107	1.20
Strontium (Sr)	NA	NA	NA	NA
Titanium (Ti)	NA	NA	NA	NA
Thallium (Tl)	<0.025	97.8	99.8	2.00
Vanadium (V)	NA	NA	NA	NA
Zinc (Zn)	<0.010	104	105	1.00
Zirconium (Zr)	NA	NA	NA	NA

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

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

EPA METHOD 7470A ANALYSIS
Mercury by Cold Vapor Atomic Absorption

QUALITY CONTROL - AQUEOUS

Date Prepared: 01/05/09

QC Sample	Method Blank	Lab Control Sample	Lab Control Sample Duplicate	LC/LCD Difference
Units	mg/L	% Recovery	% Recovery	RPD
Acceptance Limits	Results	80-120	80-120	20%
Analyte				
Mercury (Hg)	<0.00040	105	105	0.76

RPD = Relative Percent Difference

GZA GeoEnvironmental, Inc
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MA092

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

Method Blank

Date Extracted:	01/05/09
Date Analyzed:	01/05/09
File Name:	L4805

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	44.5	15-110
PHENOL-D6	30.4	15-110
NITROBENZENE-D5	78.3	30-130
2-FLUOROBIPHENYL	68.7	30-130
2,4,6-TRIBROMOPHENOL	87.5	15-100
p-TERPHENYL-D14	83.0	30-130

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
MA092

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

Laboratory Control Sample

Date Extracted:	01/05/09
Date Analyzed:	01/05/09
File Name:	L9806

Spike Concentration = 20ug/L	% Recovery	Acceptance Limits	Verdict
n-nitrosodimethylamine	57.9	40-140	ok
pyridine	37.5	40-140	out
phenol	42.5	30-130	ok
bis(2-chloroethyl)ether	102	40-140	ok
2-chlorophenol	97.5	30-130	ok
1,3-dichlorobenzene	70.0	40-140	ok
1,4-dichlorobenzene	70.7	40-140	ok
benzyl alcohol	75.8	40-140	ok
1,2-dichlorobenzene	74.3	40-140	ok
2-methylphenol	82.4	30-130	ok
bis(2-chloroisopropyl)ether	93.7	40-140	ok
3&4-methylphenol	76.6	30-130	ok
n-nitroso-di-n-propylamine	94.0	40-140	ok
acetophenone	96.7	40-140	ok
hexachloroethane	66.0	40-140	ok
nitrobenzene	99.2	40-140	ok
isophorone	99.7	40-140	ok
2-nitrophenol	102	30-130	ok
2,4-dimethylphenol	91.1	30-130	ok
benzoic acid	3.50	40-140	out
bis(2-chloroethoxy)methane	99.5	40-140	ok
2,4-dichlorophenol	99.7	30-130	ok
1,2,4-trichlorobenzene	61.7	40-140	ok
naphthalene	65.6	40-140	ok
4-chloroaniline	79.0	40-140	ok
hexachlorobutadiene	60.4	40-140	ok
4-chloro-3-methylphenol	96.8	30-130	ok
2-methylnaphthalene	66.2	40-140	ok
1,2,4,5-Tetrachlorobenzene	92.5	40-140	ok
aniline	55.5	40-140	ok
hexachlorocyclopentadiene	66.8	40-140	ok
2,4,6-trichlorophenol	113	30-130	ok
2,4,5-trichlorophenol	99.0	30-130	ok
2-chloronaphthalene	96.4	40-140	ok
2-nitroaniline	113	40-140	ok
dimethylphthalate	105	40-140	ok
acenaphthylene	106	40-140	ok
2,6-dinitrotoluene	106	40-140	ok
3-nitroaniline	95.6	40-140	ok
acenaphthene	93.1	40-140	ok
2,4-dinitrophenol	118	30-130	ok
dibenzofuran	97.6	40-140	ok
4-nitrophenol	44.5	30-130	ok
2,4-dinitrotoluene	109	40-140	ok
diethylphthalate	96.1	40-140	ok
fluorene	100	40-140	ok
4-chlorophenyl phenyl ether	91.7	40-140	ok
4-nitroaniline	96.1	30-130	ok
4,6-dinitro-2-methylphenol	110	30-130	ok
n-nitrosodiphenylamine	98.2	40-140	ok
azobenzene	107	40-140	ok
4-bromophenyl phenyl ether	93.5	40-140	ok
Pentachloronitrobenzene	107	40-140	ok
hexachlorobenzene	103	40-140	ok
pentachlorophenol	101	30-130	ok
phenanthrene	93.2	40-140	ok
anthracene	96.4	40-140	ok
carbazole	97.6	40-140	ok
di-n-butylphthalate	95.2	40-140	ok
fluoranthene	104	40-140	ok
benzidine	2.50	40-140	out
pyrene	102	40-140	ok
butylbenzylphthalate	94.3	40-140	ok
benz [a] anthracene	91.3	40-140	ok
3,3'-dichlorobenzidine	101	40-140	ok
chrysene	94.9	40-140	ok
bis(2-ethylhexyl)phthalate	95.2	40-140	ok
di-n-octylphthalate	92.0	40-140	ok
benzo [b] fluoranthene	95.9	40-140	ok
benzo [k] fluoranthene	87.4	40-140	ok
benzo [a] pyrene	91.7	40-140	ok
indeno [1,2,3-cd] pyrene	90.5	40-140	ok
dibenz [a,h] anthracene	90.7	40-140	ok
benzo [ghi] perylene	87.8	40-140	ok

CAM criteria allows 15% of analytes to exceed criteria.

Surrogates:	Recovery (%)	Acceptance Limits	Verdict
2-FLUOROPHENOL	57.8	15-110	ok
PHENOL-D6	38.4	15-110	ok
NITROBENZENE-D5	97.3	30-130	ok
2-FLUOROBIPHENYL	91.9	30-130	ok
2,4,6-TRIBROMOPHENOL	88.4	15-110	ok
p-TERPHENYL-D14	83.4	30-130	ok

CHAIN-OF-CUSTODY RECORD

W.O. # 0901-00002 (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	Total # of Cont.	Note #
Lagoon 5 sluiceway	12/30/08	SW	EPA 8260 X; EPA 8270 (LL) SVOCs X; TPH-GC (Mod. 8100) X; Metals (RCRA-13 + 8) X	6	(1)
Lagoon 5 shelf	12/30/08		EPA 8260 X; EPA 8270 (LL) SVOCs X; TPH-GC (Mod. 8100) X; Metals (RCRA-13 + 8) X	6	(2) (3)
Trip Blank	12/30/08		EPA 8260 X; EPA 8270 (LL) SVOCs 9; TPH-GC (Mod. 8100) 12	3	
PRESERVATIVE (Cl - HCl, M=Methanol, N - HNO3, S - H2SO4, Na - NaOH, O - Other)*			EPA 8260 a; EPA 8270 (LL) SVOCs; TPH-GC (Mod. 8100); Metals (RCRA-13 + 8) N		
CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, T-Teflon, O-Other)*			EPA 8260 V; EPA 8270 (LL) SVOCs 6; TPH-GC (Mod. 8100) 6; Metals (RCRA-13 + 8) P		

RELINQUISHED BY: (AFFILIATION) DATE/TIME RECEIVED BY: (AFFILIATION)
12/31/08 7:55 AM Bill Burcom 12/31/08

RELINQUISHED BY: (AFFILIATION) DATE/TIME RECEIVED BY: (AFFILIATION)
Bill Burcom 1/2/09 0730 / WAlwin

RELINQUISHED BY: (AFFILIATION) DATE/TIME RECEIVED BY: (AFFILIATION)
WAlwin 1/2/09 1000

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

(1) Received amber bottle broken 1/2 (LL)

(2) ~~Lagoon 5 bottle~~

2 Baggie Ice

PROJECT MANAGER: Todd Greene EXT: 2714

TURNAROUND TIME: Standard (Rush) Days, Approved by _____ LAB USE: 0819 BB TEMP. OF COOLER 0.7 °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: 03.00327955-26 TASK NO: _____ P.O. NO. _____

PROJECT Lagoon 5 RAWP

LOCATION Charlton, MA

COLLECTOR(S) TRG/RAC

SHEET 1 OF 1

LAGOON 5 POST REMEDIAL

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

Project No.: **03.0032795.26**
Work Order No.: **0807-00176**
Date Received: **07/28/2008**
Date Reported: **08/05/2008**

SAMPLE INFORMATION

Date Sampled	Matrix	Laboratory ID	Sample ID
07/23/2008	Aqueous	0807-00176 001	Trip Blank
07/23/2008	Aqueous	0807-00176 002	D Blank
07/23/2008	Aqueous	0807-00176 003	Lagoons Initial

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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Project Name.: **Charbert UIC Closure**
Project No.: **03.0032795.26**

Date Received: **07/28/2008**
Date Reported: **08/05/2008**
Work Order No.: **0807-00176**

PROJECT NARRATIVE:

1. Sample Receipt

The samples were received on 07/25/08 via _x_GZA courier, __EC, __FEDEX, or ___hand delivered. The temperature of the _x_temperature blank/__cooler air, was 3.1 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/7470A - Metals

Attach QC 6010B 07/29/08 - Aqueous
Attach QC 7470A 07/29/08 - Aqueous

3. EPA Method 8270 - SVOCs

Attach QC 8270 07/30/08 - Aqueous

4. EPA Method 8260 - VOCs

Attach QC 8260 08/01/08 S - Aqueous

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ANALYTICAL REPORT

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Project Name.: **Charbert UIC Closure**
Project No.: **03.0032795.26**

Date Received: **07/28/2008**
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Work Order No.: **0807-00176**

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 8021: The current version of the method is 8021B.
Method 8270: The current version of the method is 8270C.
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

Project Name.: **Charbert UIC Closure**
Project No.: **03.0032795.26**

Date Received: **07/28/2008**
Date Reported: **08/05/2008**
Work Order No.: **0807-00176**

Sample ID: **Trip Blank** Sample No.: **001**
Sample Date: **07/23/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MQS	08/01/2008
Dichlorodifluoromethane	EPA 8260	<2.0	ug/L	MQS	08/01/2008
Chloromethane	EPA 8260	<2.0	ug/L	MQS	08/01/2008
Vinyl Chloride	EPA 8260	<1.0	ug/L	MQS	08/01/2008
Bromomethane	EPA 8260	<2.0	ug/L	MQS	08/01/2008
Chloroethane	EPA 8260	<1.0	ug/L	MQS	08/01/2008
Trichlorofluoromethane	EPA 8260	<2.0	ug/L	MQS	08/01/2008
Diethylether	EPA 8260	<5.0	ug/L	MQS	08/01/2008
Acetone	EPA 8260	<25	ug/L	MQS	08/01/2008
1,1-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	08/01/2008
Dichloromethane	EPA 8260	<2.0	ug/L	MQS	08/01/2008
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	ug/L	MQS	08/01/2008
trans-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	08/01/2008
1,1-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	08/01/2008
2-Butanone	EPA 8260	<25	ug/L	MQS	08/01/2008
2,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	08/01/2008
cis-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	08/01/2008
Chloroform	EPA 8260	<1.0	ug/L	MQS	08/01/2008
Bromochloromethane	EPA 8260	<1.0	ug/L	MQS	08/01/2008
Tetrahydrofuran	EPA 8260	<10	ug/L	MQS	08/01/2008
1,1,1-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	08/01/2008
1,1-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	08/01/2008
Carbon Tetrachloride	EPA 8260	<1.0	ug/L	MQS	08/01/2008
1,2-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	08/01/2008
Benzene	EPA 8260	<1.0	ug/L	MQS	08/01/2008
Trichloroethene	EPA 8260	<1.0	ug/L	MQS	08/01/2008
1,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	08/01/2008
Bromodichloromethane	EPA 8260	<1.0	ug/L	MQS	08/01/2008
Dibromomethane	EPA 8260	<1.0	ug/L	MQS	08/01/2008
4-Methyl-2-Pentanone	EPA 8260	<25	ug/L	MQS	08/01/2008
cis-1,3-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	08/01/2008
Toluene	EPA 8260	<1.0	ug/L	MQS	08/01/2008
trans-1,3-Dichloropropene	EPA 8260	<2.0	ug/L	MQS	08/01/2008
1,1,2-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	08/01/2008
2-Hexanone	EPA 8260	<25	ug/L	MQS	08/01/2008
1,3-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	08/01/2008
Tetrachloroethene	EPA 8260	<1.0	ug/L	MQS	08/01/2008

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Hopkinton, MA 01748
(781) 278-4700

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Project Name.: **Charbert UIC Closure**
Project No.: **03.0032795.26**

Date Received: **07/28/2008**
Date Reported: **08/05/2008**
Work Order No.: **0807-00176**

Sample ID: **Trip Blank** Sample No.: **001**
Sample Date: **07/23/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
Dibromochloromethane	EPA 8260	<1.0	ug/L	MQS	08/01/2008
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	ug/L	MQS	08/01/2008
Chlorobenzene	EPA 8260	<1.0	ug/L	MQS	08/01/2008
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	08/01/2008
Ethylbenzene	EPA 8260	<1.0	ug/L	MQS	08/01/2008
m&p-Xylene	EPA 8260	<2.0	ug/L	MQS	08/01/2008
o-Xylene	EPA 8260	<1.0	ug/L	MQS	08/01/2008
Styrene	EPA 8260	<1.0	ug/L	MQS	08/01/2008
Bromoform	EPA 8260	<2.0	ug/L	MQS	08/01/2008
Isopropylbenzene	EPA 8260	<1.0	ug/L	MQS	08/01/2008
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	08/01/2008
1,2,3-Trichloropropane	EPA 8260	<1.0	ug/L	MQS	08/01/2008
Bromobenzene	EPA 8260	<1.0	ug/L	MQS	08/01/2008
N-Propylbenzene	EPA 8260	<1.0	ug/L	MQS	08/01/2008
2-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	08/01/2008
1,3,5-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	08/01/2008
4-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	08/01/2008
tert-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	08/01/2008
1,2,4-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	08/01/2008
sec-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	08/01/2008
p-Isopropyltoluene	EPA 8260	<1.0	ug/L	MQS	08/01/2008
1,3-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	08/01/2008
1,4-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	08/01/2008
n-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	08/01/2008
1,2-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	08/01/2008
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	ug/L	MQS	08/01/2008
1,2,4-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	08/01/2008
Hexachlorobutadiene	EPA 8260	<1.0	ug/L	MQS	08/01/2008
Naphthalene	EPA 8260	<2.0	ug/L	MQS	08/01/2008
1,2,3-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	08/01/2008
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	81.5	% R	MQS	08/01/2008
***Toluene-D8	EPA 8260	88.8	% R	MQS	08/01/2008
***4-Bromofluorobenzene	EPA 8260	89.7	% R	MQS	08/01/2008
Preparation	EPA 5030B	1.0	CF	MQS	08/01/2008

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ANALYTICAL REPORT

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140 Broadway
Providence, RI 02903

Project Name.: **Charbert UIC Closure**
Project No.: **03.0032795.26**

Date Received: **07/28/2008**
Date Reported: **08/05/2008**
Work Order No.: **0807-00176**

Sample ID: **D Blank**
Sample No.: **002**
Sample Date: **07/23/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MQS	08/02/2008
Dichlorodifluoromethane	EPA 8260	<2.0	ug/L	MQS	08/02/2008
Chloromethane	EPA 8260	<2.0	ug/L	MQS	08/02/2008
Vinyl Chloride	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Bromomethane	EPA 8260	<2.0	ug/L	MQS	08/02/2008
Chloroethane	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Trichlorofluoromethane	EPA 8260	<2.0	ug/L	MQS	08/02/2008
Diethylether	EPA 8260	<5.0	ug/L	MQS	08/02/2008
Acetone	EPA 8260	<25	ug/L	MQS	08/02/2008
1,1-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Dichloromethane	EPA 8260	<2.0	ug/L	MQS	08/02/2008
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	ug/L	MQS	08/02/2008
trans-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,1-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	08/02/2008
2-Butanone	EPA 8260	<25	ug/L	MQS	08/02/2008
2,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	08/02/2008
cis-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Chloroform	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Bromochloromethane	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Tetrahydrofuran	EPA 8260	<10	ug/L	MQS	08/02/2008
1,1,1-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,1-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Carbon Tetrachloride	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,2-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Benzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Trichloroethene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Bromodichloromethane	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Dibromomethane	EPA 8260	<1.0	ug/L	MQS	08/02/2008
4-Methyl-2-Pentanone	EPA 8260	<25	ug/L	MQS	08/02/2008
cis-1,3-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Toluene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
trans-1,3-Dichloropropene	EPA 8260	<2.0	ug/L	MQS	08/02/2008
1,1,2-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	08/02/2008
2-Hexanone	EPA 8260	<25	ug/L	MQS	08/02/2008
1,3-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Tetrachloroethene	EPA 8260	<1.0	ug/L	MQS	08/02/2008

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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Project Name.: **Charbert UIC Closure**
Project No.: **03.0032795.26**

Date Received: **07/28/2008**
Date Reported: **08/05/2008**
Work Order No.: **0807-00176**

Sample ID: **D Blank** Sample No.: **002**

Sample Date: **07/23/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
Dibromochloromethane	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	ug/L	MQS	08/02/2008
Chlorobenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Ethylbenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
m&p-Xylene	EPA 8260	<2.0	ug/L	MQS	08/02/2008
o-Xylene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Styrene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Bromoform	EPA 8260	<2.0	ug/L	MQS	08/02/2008
Isopropylbenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,2,3-Trichloropropane	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Bromobenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
N-Propylbenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
2-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,3,5-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
4-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
tert-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,2,4-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
sec-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
p-Isopropyltoluene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,3-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,4-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
n-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,2-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	ug/L	MQS	08/02/2008
1,2,4-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Hexachlorobutadiene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Naphthalene	EPA 8260	<2.0	ug/L	MQS	08/02/2008
1,2,3-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	85.3	% R	MQS	08/02/2008
***Toluene-D8	EPA 8260	89.1	% R	MQS	08/02/2008
***4-Bromofluorobenzene	EPA 8260	88.7	% R	MQS	08/02/2008
Preparation	EPA 5030B	1.0	CF	MQS	08/01/2008

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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
140 Broadway
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Project Name.: **Charbert UIC Closure**
Project No.: **03.0032795.26**

Date Received: **07/28/2008**
Date Reported: **08/05/2008**
Work Order No.: **0807-00176**

Sample ID: **Lagoons Initial**
Sample No.: **003**
Sample Date: **07/23/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MQS	08/02/2008
Dichlorodifluoromethane	EPA 8260	<2.0	ug/L	MQS	08/02/2008
Chloromethane	EPA 8260	<2.0	ug/L	MQS	08/02/2008
Vinyl Chloride	EPA 8260	5.0	ug/L	MQS	08/02/2008
Bromomethane	EPA 8260	<2.0	ug/L	MQS	08/02/2008
Chloroethane	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Trichlorofluoromethane	EPA 8260	<2.0	ug/L	MQS	08/02/2008
Diethylether	EPA 8260	<5.0	ug/L	MQS	08/02/2008
Acetone	EPA 8260	<25	ug/L	MQS	08/02/2008
1,1-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Dichloromethane	EPA 8260	<2.0	ug/L	MQS	08/02/2008
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	ug/L	MQS	08/02/2008
trans-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,1-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	08/02/2008
2-Butanone	EPA 8260	<25	ug/L	MQS	08/02/2008
2,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	08/02/2008
cis-1,2-Dichloroethene	EPA 8260	22	ug/L	MQS	08/02/2008
Chloroform	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Bromochloromethane	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Tetrahydrofuran	EPA 8260	<10	ug/L	MQS	08/02/2008
1,1,1-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,1-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Carbon Tetrachloride	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,2-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Benzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Trichloroethene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Bromodichloromethane	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Dibromomethane	EPA 8260	<1.0	ug/L	MQS	08/02/2008
4-Methyl-2-Pentanone	EPA 8260	<25	ug/L	MQS	08/02/2008
cis-1,3-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Toluene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
trans-1,3-Dichloropropene	EPA 8260	<2.0	ug/L	MQS	08/02/2008
1,1,2-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	08/02/2008
2-Hexanone	EPA 8260	<25	ug/L	MQS	08/02/2008
1,3-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Tetrachloroethene	EPA 8260	<1.0	ug/L	MQS	08/02/2008

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Project No.: **03.0032795.26**

Date Received: **07/28/2008**
Date Reported: **08/05/2008**
Work Order No.: **0807-00176**

Sample ID: **Lagoons Initial**
Sample No.: **003**
Sample Date: **07/23/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
Dibromochloromethane	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	ug/L	MQS	08/02/2008
Chlorobenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Ethylbenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
m&p-Xylene	EPA 8260	<2.0	ug/L	MQS	08/02/2008
o-Xylene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Styrene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Bromoform	EPA 8260	<2.0	ug/L	MQS	08/02/2008
Isopropylbenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,2,3-Trichloropropane	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Bromobenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
N-Propylbenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
2-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,3,5-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
4-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
tert-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,2,4-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
sec-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
p-Isopropyltoluene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,3-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,4-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
n-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,2-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	ug/L	MQS	08/02/2008
1,2,4-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Hexachlorobutadiene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Naphthalene	EPA 8260	<2.0	ug/L	MQS	08/02/2008
1,2,3-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	84.9	% R	MQS	08/02/2008
***Toluene-D8	EPA 8260	88.9	% R	MQS	08/02/2008
***4-Bromofluorobenzene	EPA 8260	89.7	% R	MQS	08/02/2008
Preparation	EPA 5030B	1.0	CF	MQS	08/01/2008
SEMI-VOLATILE ORGANICS	EPA 8270			RJD	07/31/2008
ACID FRACTION:	EPA 8270				

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Work Order No.: **0807-00176**

Sample ID: **Lagoons Initial** Sample No.: **003**
Sample Date: **07/23/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
Phenol	EPA 8270	<10	ug/L	RJD	07/31/2008
2-Chlorophenol	EPA 8270	<10	ug/L	RJD	07/31/2008
2-Methylphenol	EPA 8270	<10	ug/L	RJD	07/31/2008
3&4-Methylphenol	EPA 8270	<10	ug/L	RJD	07/31/2008
2-Nitrophenol	EPA 8270	<10	ug/L	RJD	07/31/2008
2,4-Dimethylphenol	EPA 8270	<10	ug/L	RJD	07/31/2008
Benzoic Acid	EPA 8270	<10	ug/L	RJD	07/31/2008
2,4-Dichlorophenol	EPA 8270	<10	ug/L	RJD	07/31/2008
4-Chloro-3-Methylphenol	EPA 8270	<20	ug/L	RJD	07/31/2008
2,4,6-Trichlorophenol	EPA 8270	<10	ug/L	RJD	07/31/2008
2,4,5-Trichlorophenol	EPA 8270	<10	ug/L	RJD	07/31/2008
2,4-Dinitrophenol	EPA 8270	<100	ug/L	RJD	07/31/2008
4-Nitrophenol	EPA 8270	<50	ug/L	RJD	07/31/2008
4,6-Dinitro-2-Methylphenol	EPA 8270	<50	ug/L	RJD	07/31/2008
Pentachlorophenol	EPA 8270	<50	ug/L	RJD	07/31/2008
BASE-NEUTRAL FRACTION:					
n-Nitrosodimethylamine	EPA 8270	<10	ug/L	RJD	07/31/2008
bis(2-Chloroethyl)Ether	EPA 8270	<10	ug/L	RJD	07/31/2008
1,3-Dichlorobenzene	EPA 8270	<10	ug/L	RJD	07/31/2008
1,4-Dichlorobenzene	EPA 8270	<10	ug/L	RJD	07/31/2008
Benzyl Alcohol	EPA 8270	<20	ug/L	RJD	07/31/2008
1,2-Dichlorobenzene	EPA 8270	<10	ug/L	RJD	07/31/2008
bis(2-Chloroisopropyl)Ether	EPA 8270	<10	ug/L	RJD	07/31/2008
n-Nitrosodi-n-Propylamine	EPA 8270	<10	ug/L	RJD	07/31/2008
Hexachloroethane	EPA 8270	<10	ug/L	RJD	07/31/2008
Nitrobenzene	EPA 8270	<10	ug/L	RJD	07/31/2008
Isophorone	EPA 8270	<10	ug/L	RJD	07/31/2008
bis(2-Chloroethoxy)Methane	EPA 8270	<10	ug/L	RJD	07/31/2008
1,2,4-Trichlorobenzene	EPA 8270	<10	ug/L	RJD	07/31/2008
Naphthalene	EPA 8270	<2.0	ug/L	RJD	07/31/2008
4-Chloroaniline	EPA 8270	<20	ug/L	RJD	07/31/2008
Hexachlorobutadiene	EPA 8270	<10	ug/L	RJD	07/31/2008
2-Methylnaphthalene	EPA 8270	<2.0	ug/L	RJD	07/31/2008
Hexachlorocyclopentadiene	EPA 8270	<50	ug/L	RJD	07/31/2008
2-Chloronaphthalene	EPA 8270	<10	ug/L	RJD	07/31/2008
2-Nitroaniline	EPA 8270	<50	ug/L	RJD	07/31/2008
Dimethylphthalate	EPA 8270	<10	ug/L	RJD	07/31/2008

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Sample Date: **07/23/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
Acenaphthylene	EPA 8270	<2.0	ug/L	RJD	07/31/2008
2,6-Dinitrotoluene	EPA 8270	<10	ug/L	RJD	07/31/2008
3-Nitroaniline	EPA 8270	<50	ug/L	RJD	07/31/2008
Acenaphthene	EPA 8270	<2.0	ug/L	RJD	07/31/2008
Dibenzofuran	EPA 8270	<10	ug/L	RJD	07/31/2008
2,4-Dinitrotoluene	EPA 8270	<10	ug/L	RJD	07/31/2008
Diethylphthalate	EPA 8270	<10	ug/L	RJD	07/31/2008
Fluorene	EPA 8270	<2.0	ug/L	RJD	07/31/2008
4-Chlorophenyl Phenyl Ether	EPA 8270	<10	ug/L	RJD	07/31/2008
4-Nitroaniline	EPA 8270	<20	ug/L	RJD	07/31/2008
n-Nitrosodiphenylamine	EPA 8270	<10	ug/L	RJD	07/31/2008
4-Bromophenyl Phenyl Ether	EPA 8270	<10	ug/L	RJD	07/31/2008
Hexachlorobenzene	EPA 8270	<10	ug/L	RJD	07/31/2008
Phenanthrene	EPA 8270	<2.0	ug/L	RJD	07/31/2008
Anthracene	EPA 8270	<2.0	ug/L	RJD	07/31/2008
Carbazole	EPA 8270	<10	ug/L	RJD	07/31/2008
di-n-Butylphthalate	EPA 8270	<15	ug/L	RJD	07/31/2008
Fluoranthene	EPA 8270	<2.0	ug/L	RJD	07/31/2008
Pyrene	EPA 8270	<2.0	ug/L	RJD	07/31/2008
Butylbenzylphthalate	EPA 8270	<10	ug/L	RJD	07/31/2008
Benzo [a] Anthracene	EPA 8270	<2.0	ug/L	RJD	07/31/2008
3,3'-Dichlorobenzidine	EPA 8270	<20	ug/L	RJD	07/31/2008
Chrysene	EPA 8270	<2.0	ug/L	RJD	07/31/2008
bis(2-Ethylhexyl)Phthalate	EPA 8270	<10	ug/L	RJD	07/31/2008
di-n-Octylphthalate	EPA 8270	<10	ug/L	RJD	07/31/2008
Benzo [b] Fluoranthene	EPA 8270	<2.0	ug/L	RJD	07/31/2008
Benzo [k] Fluoranthene	EPA 8270	<2.0	ug/L	RJD	07/31/2008
Benzo [a] Pyrene	EPA 8270	<2.0	ug/L	RJD	07/31/2008
Indeno [1,2,3-cd] Pyrene	EPA 8270	<2.0	ug/L	RJD	07/31/2008
Dibenzo [a,h] Anthracene	EPA 8270	<2.0	ug/L	RJD	07/31/2008
Benzo [g,h,i] Perylene	EPA 8270	<2.0	ug/L	RJD	07/31/2008
Surrogates:	EPA 8270				
***2-Fluorophenol	EPA 8270	17.0	% R	RJD	07/31/2008
***2-Chlorophenol-D4	EPA 8270	40.5	% R	RJD	07/31/2008
***Nitrobenzene-D5	EPA 8270	41.5	% R	RJD	07/31/2008
***2-Fluorobiphenyl	EPA 8270	44.6	% R	RJD	07/31/2008
***2,4,6-Tribromophenol	EPA 8270	50.4	% R	RJD	07/31/2008

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Sample Date: **07/23/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
***P-Terphenyl-D14	EPA 8270	51.8	% R	RJD	07/31/2008
Extraction	EPA 3510C	1.0	DF	DAB	07/30/2008
TOTAL PETROLEUM HYDROCARBON	Mod. EPA 8100			RJD	08/01/2008
Hydrocarbon Content		<200	ug/L	RJD	08/01/2008
Surrogate:					
***p-Terphenyl		73.3	% R	RJD	08/01/2008
Extraction	EPA 3510C	1.0	DF	RJD	07/30/2008
RCRA METALS				LLZ	07/29/2008
Silver	EPA 6010B	<0.0050	mg/L	LLZ	07/29/2008
Arsenic	EPA 6010B	<0.010	mg/L	LLZ	07/29/2008
Barium	EPA 6010B	0.016	mg/L	LLZ	07/29/2008
Cadmium	EPA 6010B	<0.0050	mg/L	LLZ	07/29/2008
Chromium	EPA 6010B	<0.0050	mg/L	LLZ	07/29/2008
Mercury	EPA 7470A	<0.00040	mg/L	TN	07/30/2008
Lead	EPA 6010B	<0.010	mg/L	LLZ	07/29/2008
Selenium	EPA 6010B	<0.025	mg/L	LLZ	07/29/2008

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: 7/29/2008

QC Sample	Method Blank	Lab Control Sample	LC Duplicate	LCS/LCD Diff.
Units	mg/L	% Recovery	% Recovery	RPD
Acceptance Limits	Results	80-120	80-120	20%
Analyte				
Silver (Ag)	<0.0050	89.0	88.3	0.78
Aluminum (Al)	<0.025	105	103	1.97
Arsenic (As)	<0.010	98.7	98.1	0.61
Boron (B)	NA	NA	NA	NA
Barium (Ba)	<0.0050	98.3	96.9	1.40
Beryllium (Be)	NA	NA	NA	NA
Calcium (Ca)	<0.025	101	100	1.12
Cadmium (Cd)	<0.0050	95.5	94.5	1.13
Cobalt (Co)	NA	NA	NA	NA
Chromium (Cr)	<0.0050	96.5	95.2	1.34
Copper (Cu)	<0.015	111	108	2.08
Iron (Fe)	<0.025	101	100	1.17
Magnesium (Mg)	<0.025	102	100	1.55
Manganese (Mn)	<0.0050	97.8	96.8	0.94
Molybdenum (Mo)	NA	NA	NA	NA
Nickel (Ni)	NA	NA	NA	NA
Lead (Pb)	<0.010	96.3	95.4	0.95
Antimony (Sb)	NA	NA	NA	NA
Selenium (Se)	<0.025	105	104	0.85
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	101	97.7	3.22
Zirconium (Zr)	NA	NA	NA	NA

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

GZA GEOENVIRONMENTAL, INC.
ENVIRONMENTAL CHEMISTRY LABORATORY
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MASSACHUSETTS LABORATORY I.D. NO. MA092

EPA METHOD 7470A ANALYSIS
Mercury by Cold Vapor Atomic Absorption

QUALITY CONTROL - AQUEOUS

Date Prepared: 07/29/08

QC Sample	Method Blank	Lab Control Sample	Lab Control Sample Duplicate	LC/LCD Difference
Units	mg/L	% Recovery	% Recovery	RPD
Acceptance Limits	Results	80-120	80-120	20%
Analyte				
Mercury (Hg)	<0.00040	95.6	93.8	1.94

RPD = Relative Percent Difference

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
MA092

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

Method Blank

Date Extracted:	07/30/08
Date Analyzed:	07/31/08
File Name:	L8281

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
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
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
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	22.8	15-110
2-CHLOROPHENOL-D4	15.4	15-110
NITROBENZENE-D5	41.4	30-130
2-FLUOROBIPHENYL	43.8	30-130
2,4,6-TRIBROMOPHENOL	54.7	15-100
p-TERPHENYL-D14	52.6	30-130

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
MA092

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

Laboratory Control Sample				Laboratory Control Sample Duplicate					
Date Extracted:	07/30/08			Date Extracted:	07/30/08				
Date Analyzed:	07/31/08			Date Analyzed:	07/31/08				
File Name:	L6283			File Name:	L6282				
Spike Concentration = 20ug/L	% Recovery	Acceptance Limits	Verdict	% Recovery	Acceptance Limits	Verdict	Relative % Diff	Limits	Verdict
n-nitrosodimethylamine	30.7	40-140	out	29.8	40-140	out	3.1	<20	ok
pyridine	7.88	40-140	out	10.0	40-140	out	24	<20	out
phenol	18.2	30-130	out	18.8	30-130	out	8.8	<20	ok
bis(2-chloroethyl)ether	45.2	40-140	ok	40.5	40-140	ok	11	<20	ok
2-chlorophenol	47.3	30-130	ok	41.8	30-130	ok	13	<20	ok
1,3-dichlorobenzene	34.8	40-140	out	28.3	40-140	out	21	<20	out
1,4-dichlorobenzene	36.5	40-140	out	29.1	40-140	out	23	<20	out
benzyl alchohol	41.3	40-140	ok	41.6	40-140	ok	0.92	<20	ok
1,2-dichlorobenzene	41.2	40-140	ok	31.4	40-140	out	27	<20	out
2-methylphenol	42.5	30-130	ok	40.7	30-130	ok	4.4	<20	ok
bis(2-chloroisopropyl)ether	41.7	40-140	ok	45.7	40-140	ok	9.2	<20	ok
3&4-methylphenol	79.9	30-140	ok	74.5	30-130	ok	7.0	<20	ok
n-nitrosodi-n-propylamine	50.3	40-140	ok	41.8	40-140	ok	19	<20	ok
acetophenone	52.0	40-140	ok	48.1	40-140	ok	7.8	<20	ok
hexachloroethane	35.2	40-140	out	52.3	40-140	ok	39	<20	out
nitrobenzene	45.6	40-140	ok	40.2	40-140	ok	15	<20	ok
isophrone	53.5	30-130	ok	45.1	30-130	ok	17	<20	ok
2-nitrophenol	53.0	30-130	ok	42.2	30-130	ok	23	<20	out
2,4-dimethylphenol	49.9	30-130	ok	43.5	30-130	ok	14	<20	ok
benzoic acid	34.8	40-140	out	29.2	40-140	out	18	<20	ok
bis(2-chloroethoxy)methane	53.0	30-130	ok	44.2	30-130	ok	18	<20	ok
2,4-dichlorophenol	53.9	40-140	ok	45.5	40-140	ok	17	<20	ok
1,2,4-trichlorobenzene	43.1	40-140	ok	33.1	40-140	out	26	<20	out
naphthalene	47.3	40-140	ok	40.2	40-140	ok	16	<20	ok
4-chloroaniline	40.5	40-140	ok	42.4	40-140	ok	4.7	<20	ok
hexachlorobutadiene	41.8	30-130	ok	31.8	30-130	ok	27	<20	out
4-chloro-3-methylphenol	56.8	40-140	ok	51.9	40-140	ok	8.7	<20	ok
2-methylnaphthalene	48.5	40-140	ok	58.4	40-140	ok	19	<20	ok
aniline	16.7	40-140	out	19.2	40-140	out	14	<20	ok
hexachlorocyclopentadiene	31.7	30-130	ok	21.0	30-130	out	41	<20	out
2,4,6-trichlorophenol	54.7	30-130	ok	47.5	30-130	ok	14	<20	ok
2,4,5-trichlorophenol	58.2	40-140	ok	49.4	40-140	ok	16	<20	ok
2-chloronaphthalene	51.1	40-140	ok	40.5	40-140	ok	23	<20	out
2-nitroaniline	53.0	40-140	ok	47.4	40-140	ok	11	<20	ok
dimethylphthalate	55.2	40-140	ok	49.2	40-140	ok	11	<20	ok
acenaphthylene	53.9	40-140	ok	43.0	40-140	ok	23	<20	out
2,6-dinitrotoluene	52.9	40-140	ok	44.8	40-140	ok	17	<20	ok
3-nitroaniline	52.6	40-140	ok	55.4	40-140	ok	5.1	<20	ok
acenaphthene	52.4	30-130	ok	41.7	30-130	ok	23	<20	out
2,4-dinitrophenol	61.0	40-140	ok	54.1	40-140	ok	12	<20	ok
dibenzofuran	54.5	30-130	ok	44.6	30-130	ok	20	<20	out
4-nitrophenol	18.6	40-140	out	16.8	40-140	out	10	<20	ok
2,4-dinitrotoluene	53.6	40-140	ok	45.3	40-140	ok	17	<20	ok
diethylphthalate	56.7	40-140	ok	49.2	40-140	ok	14	<20	ok
fluorene	55.8	40-140	ok	46.1	40-140	ok	19	<20	ok
4-chlorophenyl phenyl ether	53.1	40-140	ok	42.6	40-140	ok	22	<20	out
4-nitroaniline	50.9	30-130	ok	50.6	30-130	ok	0.59	<20	ok
4,6-dinitro-2-methylphenol	53.2	40-140	ok	48.2	40-140	ok	9.7	<20	ok
n-nitrosodiphenylamine	45.3	40-140	ok	40.5	40-140	ok	11	<20	ok
azobenzene	48.7	40-140	ok	41.7	40-140	ok	15	<20	ok
4-bromophenyl phenyl ether	53.0	40-140	ok	43.3	40-140	ok	20	<20	out
hexachlorobenzene	52.5	40-140	ok	43.1	40-140	ok	20	<20	ok
pentachlorophenol	52.5	40-140	ok	44.8	40-140	ok	16	<20	ok
phenanthrene	53.9	40-140	ok	45.8	40-140	ok	17	<20	ok
anthracene	56.9	40-140	ok	48.2	40-140	ok	17	<20	ok
carbazole	53.6	40-140	ok	45.3	40-140	ok	17	<20	ok
di-n-butylphthalate	57.0	40-140	ok	48.3	40-140	ok	17	<20	ok
fluoranthene	55.5	40-140	ok	47.2	40-140	ok	16	<20	ok
pyrene	52.8	40-140	ok	44.8	40-140	ok	17	<20	ok
butylbenzylphthalate	55.0	40-140	ok	46.5	40-140	ok	17	<20	ok
benz [a] anthracene	51.0	40-140	ok	44.7	40-140	ok	13	<20	ok
3,3'-dichlorobenzidine	39.0	40-140	out	35.8	40-140	out	8.4	<20	ok
chrysene	45.3	40-140	ok	39.1	40-140	out	17	<20	ok
bis(2-ethylhexyl)phthalate	54.4	40-140	ok	45.2	40-140	ok	18	<20	ok
di-n-octylphthalate	53.0	40-140	ok	43.5	40-140	ok	20	<20	ok
benzo [b] fluoranthene	51.0	40-140	ok	46.3	40-140	ok	9.6	<20	ok
benzo [k] fluoranthene	45.5	40-140	ok	41.8	40-140	ok	8.9	<20	ok
benzo [a] pyrene	44.8	40-140	ok	40.5	40-140	ok	10	<20	ok
indeno [1,2,3-cd] pyrene	58.7	40-140	ok	47.8	40-140	ok	21	<20	out
dibenz [a,h] anthracene	55.9	40-140	ok	46.8	40-141	ok	20	<20	ok
benzo [ghi] perylene	57.5	40-140	ok	47.0	40-142	ok	20	<20	out

CAM criteria allows 15% of analytes to exceed criteria.

Surrogates:	Recovery (%)	Acceptance Limits	Verdict	Recovery (%)	Acceptance Limits	Verdict	Relative % Diff.	Limits	Verdict
2-FLUOROPHENOL	26.8	15-110	ok	23.4	10-100	ok	13	<20	ok
2-CHLOROPHENOL-D4	49.0	15-110	ok	42.2	15-110	ok	15	<20	ok
NITROBENZENE-D5	45.0	30-130	ok	37.8	10-130	ok	19	<20	ok
2-FLUOROBIPHENYL	48.2	30-130	ok	39.9	10-105	ok	19	<20	ok
2,4,6-TRIBROMOPHENOL	58.0	15-110	ok	49.49	14-134	ok	16	<20	ok
p-TERPHENYL-D14	58.2	30-130	ok	51.58	11-102	ok	12	<20	ok

GZA GeoEnvironmental, Inc.
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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:	8/1/2008		Date Analyzed:	8/1/2008			8/1/2008					
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	118	70-130	ok	114	70-130	ok	1.54	<25	ok
chloromethane	< 1.0	< 1.0	chloromethane	101	70-130	ok	101	70-130	ok	0.51	<25	ok
vinyl chloride	< 0.5	< 0.5	vinyl chloride	96.0	80-120	ok	94.9	80-120	ok	1.10	<25	ok
bromomethane	< 1.0	< 1.0	bromomethane	95.5	70-130	ok	93.9	70-130	ok	1.78	<25	ok
chloroethane	< 0.5	< 0.5	chloroethane	96.4	70-130	ok	95.5	70-130	ok	0.96	<25	ok
trichlorofluoromethane	< 1.0	< 1.0	trichlorofluoromethane	89.7	70-130	ok	90.2	70-130	ok	0.54	<25	ok
diethyl ether	< 2.5	< 2.5	diethyl ether	85.1	70-130	ok	84.8	70-130	ok	0.35	<25	ok
acetone	< 13	< 13	acetone	87.2	70-130	ok	87.9	70-130	ok	0.80	<25	ok
1,1-dichloroethene	< 0.5	< 0.5	1,1-dichloroethene	82.0	80-120	ok	83.2	80-120	ok	1.45	<25	ok
FREON-113	< 1.0	< 1.0	FREON-113	88.3	70-130	ok	89.8	70-130	ok	1.67	<25	ok
iodomethane	< 0.5	< 0.5	iodomethane	81.8	70-130	ok	81.9	70-130	ok	0.12	<25	ok
carbon disulfide	< 5.0	< 5.0	carbon disulfide	87.1	70-130	ok	86.3	70-130	ok	0.91	<25	ok
dichloromethane	< 1.0	< 1.0	dichloromethane	79.4	70-130	ok	79.8	70-130	ok	0.58	<25	ok
tert-butyl alcohol (TBA)	< 13	< 13	tert-butyl alcohol (TBA)	107	70-130	ok	116	70-130	ok	9.38	<25	ok
acrylonitrile	< 0.5	< 0.5	acrylonitrile	82.5	70-130	ok	85.7	70-130	ok	3.72	<25	ok
methyl-tert-butyl-ether	< 0.5	< 0.5	methyl-tert-butyl-ether	84.6	70-130	ok	88.3	70-130	ok	3.99	<25	ok
trans-1,2-dichloroethene	< 0.5	< 0.5	trans-1,2-dichloroethene	82.4	70-130	ok	84.2	70-130	ok	2.09	<25	ok
1,1-dichloroethane	< 0.5	< 0.5	1,1-dichloroethane	85.9	70-130	ok	86.4	70-130	ok	0.64	<25	ok
di-isopropyl ether (DIPE)	< 1.0	< 1.0	di-isopropyl ether (DIPE)	83.5	70-130	ok	85.0	70-130	ok	1.72	<25	ok
ethyl tert-butyl ether (EtBE)	< 1.0	< 1.0	ethyl tert-butyl ether (EtBE)	89.5	70-130	ok	90.6	70-130	ok	1.16	<25	ok
vinyl acetate	< 13	< 13	vinyl acetate	81.2	70-130	ok	82.0	70-130	ok	1.02	<25	ok
2-butanone	< 13	< 13	2-butanone	87.8	70-130	ok	87.5	70-130	ok	0.37	<25	ok
2,2-dichloropropane	< 0.5	< 0.5	2,2-dichloropropane	89.4	70-130	ok	88.7	70-130	ok	0.82	<25	ok
cis-1,2-dichloroethene	< 0.5	< 0.5	cis-1,2-dichloroethene	80.6	70-130	ok	82.2	70-130	ok	1.88	<25	ok
chloroform	< 0.5	< 0.5	chloroform	81.9	80-120	ok	82.7	80-120	ok	0.91	<25	ok
bromochloromethane	< 0.5	< 0.5	bromochloromethane	89.7	70-130	ok	89.8	70-130	ok	0.06	<25	ok
tetrahydrafuran	< 5.0	< 5.0	tetrahydrafuran	87.9	70-130	ok	91.8	70-130	ok	4.43	<25	ok
1,1,1-trichloroethane	< 0.5	< 0.5	1,1,1-trichloroethane	83.6	70-130	ok	84.4	70-130	ok	1.00	<25	ok
1,1-dichloropropene	< 0.5	< 0.5	1,1-dichloropropene	84.1	70-130	ok	83.7	70-130	ok	0.49	<25	ok
carbon tetrachloride	< 0.5	< 0.5	carbon tetrachloride	86.6	70-130	ok	86.7	70-130	ok	0.10	<25	ok
1,2-dichloroethane	< 0.5	< 0.5	1,2-dichloroethane	88.4	70-130	ok	88.3	70-130	ok	0.12	<25	ok
benzene	< 0.5	< 0.5	benzene	83.1	70-130	ok	83.4	70-130	ok	0.30	<25	ok
tert-amyl methyl ether (TAME)	< 1.0	< 1.0	tert-amyl methyl ether (TAME)	85.9	70-130	ok	89.2	70-130	ok	3.79	<25	ok
trichloroethene	< 0.5	< 0.5	trichloroethene	87.2	70-130	ok	87.8	70-130	ok	0.70	<25	ok
1,2-dichloropropane	< 0.5	< 0.5	1,2-dichloropropane	86.3	80-120	ok	86.5	80-120	ok	0.24	<25	ok
bromodichloromethane	< 0.5	< 0.5	bromodichloromethane	83.8	70-130	ok	84.6	70-130	ok	0.89	<25	ok
1,4-Dioxane	< 50	< 50	1,4-Dioxane	86.9	70-130	ok	81.2	70-130	ok	6.85	<25	ok
dibromomethane	< 0.5	< 0.5	dibromomethane	87.4	70-130	ok	86.3	70-130	ok	1.02	<25	ok
4-methyl-2-pentanone	< 13	< 13	4-methyl-2-pentanone	89.2	70-130	ok	89.8	70-130	ok	0.68	<25	ok
cis-1,3-dichloropropene	< 0.5	< 0.5	cis-1,3-dichloropropene	89.4	70-130	ok	89.2	70-130	ok	0.24	<25	ok
toluene	< 0.5	< 0.5	toluene	83.8	80-120	ok	84.0	80-120	ok	0.23	<25	ok
trans-1,3-dichloropropene	< 1.0	< 1.0	trans-1,3-dichloropropene	91.7	70-130	ok	90.4	70-130	ok	1.41	<25	ok
1,1,2-trichloroethane	< 0.5	< 0.5	1,1,2-trichloroethane	90.0	70-130	ok	87.8	70-130	ok	2.69	<25	ok
2-hexanone	< 13	< 13	2-hexanone	101	70-130	ok	97.5	70-130	ok	3.51	<25	ok
1,3-dichloropropane	< 0.5	< 0.5	1,3-dichloropropane	89.2	70-130	ok	89.2	70-130	ok	0.04	<25	ok
tetrachloroethene	< 0.5	< 0.5	tetrachloroethene	95.1	70-130	ok	95.2	70-130	ok	0.16	<25	ok
dibromochloromethane	< 0.5	< 0.5	dibromochloromethane	96.5	70-130	ok	95.8	70-130	ok	0.76	<25	ok
1,2-dibromoethane (EDB)	< 1.0	< 1.0	1,2-dibromoethane (EDB)	93.7	70-130	ok	92.9	70-130	ok	0.83	<25	ok
chlorobenzene	< 0.5	< 0.5	chlorobenzene	95.9	70-130	ok	95.5	70-130	ok	0.43	<25	ok
1,1,1,2-tetrachloroethane	< 0.5	< 0.5	1,1,1,2-tetrachloroethane	90.8	70-130	ok	90.9	70-130	ok	0.10	<25	ok
ethylbenzene	< 0.5	< 0.5	ethylbenzene	89.8	80-120	ok	89.7	80-120	ok	0.09	<25	ok
1,1,2,2-tetrachloroethane	< 0.5	< 0.5	1,1,2,2-tetrachloroethane	84.8	70-130	ok	86.5	70-130	ok	2.00	<25	ok
m&p-xylene	< 1.0	< 1.0	m&p-xylene	87.6	70-130	ok	87.1	70-130	ok	0.56	<25	ok
o-xylene	< 0.5	< 0.5	o-xylene	92.6	70-130	ok	91.8	70-130	ok	0.88	<25	ok
styrene	< 0.5	< 0.5	styrene	99.7	70-130	ok	99.1	70-130	ok	0.56	<25	ok
bromoform	< 1.0	< 1.0	bromoform	98.9	70-130	ok	99.4	70-130	ok	0.48	<25	ok
isopropylbenzene	< 0.5	< 0.5	isopropylbenzene	111	70-130	ok	109	70-130	ok	1.52	<25	ok
1,2,3-trichloropropane	< 0.5	< 0.5	1,2,3-trichloropropane	98.9	70-130	ok	99.2	70-130	ok	0.29	<25	ok
bromobenzene	< 0.5	< 0.5	bromobenzene	97.4	70-130	ok	95.8	70-130	ok	1.66	<25	ok
n-propylbenzene	< 0.5	< 0.5	n-propylbenzene	96.9	70-130	ok	95.7	70-130	ok	1.17	<25	ok
2-chlorotoluene	< 0.5	< 0.5	2-chlorotoluene	91.4	70-130	ok	91.9	70-130	ok	0.48	<25	ok
1,3,5-trimethylbenzene	< 0.5	< 0.5	1,3,5-trimethylbenzene	93.8	70-130	ok	90.8	70-130	ok	3.16	<25	ok
trans-1,4-dichloro-2-butene	< 1.0	< 1.0	trans-1,4-dichloro-2-butene	99.0	70-130	ok	95.4	70-130	ok	3.72	<25	ok
4-chlorotoluene	< 0.5	< 0.5	4-chlorotoluene	93.0	70-130	ok	92.6	70-130	ok	0.44	<25	ok
tert-butyl-benzene	< 0.5	< 0.5	tert-butyl-benzene	115	70-130	ok	111	70-130	ok	4.03	<25	ok
1,2,4-trimethylbenzene	< 0.5	< 0.5	1,2,4-trimethylbenzene	89.1	70-130	ok	88.4	70-130	ok	0.74	<25	ok
sec-butyl-benzene	< 0.5	< 0.5	sec-butyl-benzene	94.5	70-130	ok	90.4	70-130	ok	4.34	<25	ok
p-isopropyltoluene	< 0.5	< 0.5	p-isopropyltoluene	93.0	70-130	ok	91.5	70-130	ok	1.58	<25	ok
1,3-dichlorobenzene	< 0.5	< 0.5	1,3-dichlorobenzene	93.9	70-130	ok	93.2	70-130	ok	0.75	<25	ok
1,4-dichlorobenzene	< 0.5	< 0.5	1,4-dichlorobenzene	91.9	70-130	ok	92.6	70-130	ok	0.70	<25	ok
n-butylbenzene	< 0.5	< 0.5	n-butylbenzene	93.7	70-130	ok	91.9	70-130	ok	1.94	<25	ok
1,2-dichlorobenzene	< 0.5	< 0.5	1,2-dichlorobenzene	94.1	70-130	ok	94.2	70-130	ok	0.18	<25	ok
1,2-dibromo-3-chloropropane	< 2.5	< 2.5	1,2-dibromo-3-chloropropane	83.0	70-130	ok	84.7	70-130	ok	2.03	<25	ok
1,2,4-trichlorobenzene	< 0.5	< 0.5	1,2,4-trichlorobenzene	99.2	70-130	ok	101	70-130	ok	2.06	<25	ok
hexachlorobutadiene	< 0.5	< 0.5	hexachlorobutadiene	99.3	70-130	ok	97.1	70-130	ok	2.24	<25	ok
naphthalene	< 1.0	< 1.0	naphthalene	88.8	70-130	ok	93.3	70-130	ok	4.91	<25	ok
1,2,3-trichlorobenzene	< 0.5	< 0.5	1,2,3-trichlorobenzene	95.0	70-130	ok	98.6	70-130	ok	3.72	<25	ok

SMF criteria allows 6 compounds to be outside acceptance limits

Surrogates:	Recovery (%)	Acceptance Limits	Surrogates:	Recovery (%)	Acceptance Limits	Verdict	Recovery (%)	Acceptance Limits	Verdict	RPD	Limit	Verdict
DIBROMOFLUOROMETHANE	92.1	70-130	DIBROMOFLUOROMETHANE	87.5	70-130	ok	86.6	70-130	ok	0.94	<25	ok
1,2-DICHLOROETHANE-D4	86.5	70-130	1,2-DICHLOROETHANE-D4	92.0	70-130	ok	89.4	70-130	ok	2.78	<25	ok
TOLUENE-D8	89.4	70-130	TOLUENE-D8	87.5	70-130	ok	87.7	70-130	ok	0.32	<25	ok
4-BROMOFLUOROBENZENE	88.5	70-130	4-BROMOFLUOROBENZENE	98.6	70-130	ok	97.5	70-130	ok	1.20	<25	ok
1,2-DICHLOROBENZENE-D4	89.8	70-130	1,2-DICHLOROBENZENE-D4	92.2	70-130	ok	91.6	70-130	ok	0.64	<25	ok

Instrument: HP GC/MS "S"

CHAIN-OF-CUSTODY RECORD

W.O. # 0807-00176 (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; GC Methanol, Ethanol, 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-14 ARN; 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 JPPM-13 eff-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 #
Trip Blank	7/23/08	SW	X	3	
D Blank	7/23/08	↓	X	3	
Lagoon S Inlet	7/23/08	↓	X; X; X; X	6	
PRESERVATIVE (Cl - HCl, M=Methanol, N - HNO3, S - H2SO4, Na - NaOH, O - Other)*			Cl; N		
CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, T-Teflon, O-Other)*			V; G; G; P		

RELINQUISHED BY: (AFFILIATION) DATE/TIME RECEIVED BY: (AFFILIATION)
7/23/08 1 2pm

RELINQUISHED BY: (AFFILIATION) DATE/TIME RECEIVED BY: (AFFILIATION)
7/25/08 1315 WA/GZA

RELINQUISHED BY: (AFFILIATION) DATE/TIME RECEIVED BY: (AFFILIATION)
WA/GZA 7/28/08 1030

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

PROJECT MANAGER: Steve Andrus EXT: 2740

TURNAROUND TIME: (Standard) Rush ___ Days, Approved by ___ LAB USE: TEMP. OF COOLER 3.1 °C Temp Blank 0813 Cooler Air ___

GZA GeoEnvironmental, Inc.
Labaratory Division
106 South Street
Hopkinton, MA 01748
(781) 278-4700
FAX (508) 435-9912

GZA FILE NO: 03.00 32795-12 TASK NO: P.O. NO.

PROJECT Charlert Bedrock Investigation

LOCATION Alton RI

COLLECTOR(S) RAC/SMA SHEET 1 OF 1

LAGOON 5 FILL

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

Todd Greene

Project No.: **03.0032795.26**
Work Order No.: **0809-00125**
Date Received: **09/19/2008**
Date Reported: **09/30/2008**

SAMPLE INFORMATION

Date Sampled	Matrix	Laboratory ID	Sample ID
09/18/2008	Solid	0809-00125 001	Fill 1
09/18/2008	Solid	0809-00125 002	Fill 2
09/18/2008	Solid	0809-00125 003	Trip Blank

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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
140 Broadway
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Todd Greene

Project Name.:	**Charbert UIC Closure**	Date Received:	**09/19/2008**
Project No.:	**03.0032795.26**	Date Reported:	**09/30/2008**
		Work Order No.:	**0809-00125**

PROJECT NARRATIVE:

1. Sample Receipt

The samples were received on 09/19/08 via _x_GZA courier, __EC, __FEDEX, or ___hand delivered. The temperature of the __temperature blank/_x_cooler air, was 7.6 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/7471A - Metals

Attach QC 6010B 09/22/08 - Solid
Attach QC 6010B 09/22/08 B - Solid
Attach QC 7471A 09/23/08 - Solid

3. EPA Method 8260 - VOCs

The continuing calibration verification standard (CCV) (09/24/08) had an analyte outside of the 30%D QC acceptance limit. The outlier includes dichlorodifluoromethane (37%).

The Laboratory Control Sample (LCS) (09/24/08 S) had a method 8260 list analyte outside of the 70-130% QC acceptance limits. Specific outlier includes dichlorodifluoromethane (137%). Dichlorodifluoromethane was not detected in the associated samples.

Attach QC 8260 09/24/08 S - Solid

4. EPA Method 8270 - SVOCs

The Initial Calibration (ICAL) (08/27/08) (IABN162) had analytes whose %RSD was greater than 15%. The specific outliers include benzoic acid (23.1%) and 2,4-dinitrophenol (23.5%).

The Laboratory Control Spike (LCS) (09/23/08) had method 8270 list acid analytes outside of the 30-130% QC acceptance limits and base/neutral analytes outside of the 40-140% QC acceptance limits. Specific outliers include aniline (30.5%) and 2,4-dinitrophenol (7.26%).
These analytes are considered "difficult" analytes for which the recovery ranges routinely exceed the applicable QC acceptance limits.

Attach QC 8270 09/23/08 - Solid

5. EPA Method 8082 - PCBs

Attach QC 8082 09/25/08 - Solid

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Project No.:	**03.0032795.26**	Date Reported:	**09/30/2008**
		Work Order No.:	**0809-00125**

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 Closure**
Project No.: **03.0032795.26**

Date Received: **09/19/2008**
Date Reported: **09/30/2008**
Work Order No.: **0809-00125**

Sample ID: **Fill 1**
Sample No.: **001**
Sample Date: **09/18/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
PERCENT SOLID		95.6	%	TAJ	09/23/2008
VOLATILE ORGANICS	EPA 8260			MQS	09/24/2008
Dichlorodifluoromethane	EPA 8260	<100	ug/kg	MQS	09/24/2008
Chloromethane	EPA 8260	<100	ug/kg	MQS	09/24/2008
Vinyl Chloride	EPA 8260	<50	ug/kg	MQS	09/24/2008
Bromomethane	EPA 8260	<100	ug/kg	MQS	09/24/2008
Chloroethane	EPA 8260	<50	ug/kg	MQS	09/24/2008
Trichlorofluoromethane	EPA 8260	<100	ug/kg	MQS	09/24/2008
Diethylether	EPA 8260	<250	ug/kg	MQS	09/24/2008
Acetone	EPA 8260	<1300	ug/kg	MQS	09/24/2008
1,1-Dichloroethene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Dichloromethane	EPA 8260	<100	ug/kg	MQS	09/24/2008
Methyl-Tert-Butyl-Ether	EPA 8260	<50	ug/kg	MQS	09/24/2008
trans-1,2-Dichloroethene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,1-Dichloroethane	EPA 8260	<50	ug/kg	MQS	09/24/2008
2-Butanone	EPA 8260	<1300	ug/kg	MQS	09/24/2008
2,2-Dichloropropane	EPA 8260	<50	ug/kg	MQS	09/24/2008
cis-1,2-Dichloroethene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Chloroform	EPA 8260	<50	ug/kg	MQS	09/24/2008
Bromochloromethane	EPA 8260	<50	ug/kg	MQS	09/24/2008
Tetrahydrofuran	EPA 8260	<500	ug/kg	MQS	09/24/2008
1,1,1-Trichloroethane	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,1-Dichloropropene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Carbon Tetrachloride	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,2-Dichloroethane	EPA 8260	<50	ug/kg	MQS	09/24/2008
Benzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Trichloroethene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,2-Dichloropropane	EPA 8260	<50	ug/kg	MQS	09/24/2008
Bromodichloromethane	EPA 8260	<50	ug/kg	MQS	09/24/2008
Dibromomethane	EPA 8260	<50	ug/kg	MQS	09/24/2008
4-Methyl-2-Pentanone	EPA 8260	<1300	ug/kg	MQS	09/24/2008
cis-1,3-Dichloropropene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Toluene	EPA 8260	<50	ug/kg	MQS	09/24/2008
trans-1,3-Dichloropropene	EPA 8260	<100	ug/kg	MQS	09/24/2008
1,1,2-Trichloroethane	EPA 8260	<50	ug/kg	MQS	09/24/2008
2-Hexanone	EPA 8260	<1300	ug/kg	MQS	09/24/2008
1,3-Dichloropropane	EPA 8260	<50	ug/kg	MQS	09/24/2008

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Project No.: **03.0032795.26**

Date Received: **09/19/2008**
Date Reported: **09/30/2008**
Work Order No.: **0809-00125**

Sample ID: **Fill 1** Sample No.: **001**

Sample Date: **09/18/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
Tetrachloroethene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Dibromochloromethane	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,2-Dibromoethane (EDB)	EPA 8260	<100	ug/kg	MQS	09/24/2008
Chlorobenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,1,1,2-Tetrachloroethane	EPA 8260	<50	ug/kg	MQS	09/24/2008
Ethylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
m&p-Xylene	EPA 8260	<100	ug/kg	MQS	09/24/2008
o-Xylene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Styrene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Bromoform	EPA 8260	<100	ug/kg	MQS	09/24/2008
Isopropylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,1,2,2-Tetrachloroethane	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,2,3-Trichloropropane	EPA 8260	<50	ug/kg	MQS	09/24/2008
Bromobenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
n-Propylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
2-Chlorotoluene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,3,5-Trimethylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
4-Chlorotoluene	EPA 8260	<50	ug/kg	MQS	09/24/2008
tert-Butylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,2,4-Trimethylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
sec-Butylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
p-Isopropyltoluene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,3-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,4-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
n-Butylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,2-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,2-Dibromo-3-Chloropropane	EPA 8260	<250	ug/kg	MQS	09/24/2008
1,2,4-Trichlorobenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Hexachlorobutadiene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Naphthalene	EPA 8260	<100	ug/kg	MQS	09/24/2008
1,2,3-Trichlorobenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	89.9	% R	MQS	09/24/2008
***Toluene-D8	EPA 8260	98.5	% R	MQS	09/24/2008
***4-Bromofluorobenzene	EPA 8260	95.4	% R	MQS	09/24/2008
Preparation	EPA 5035	10	CF	MQS	09/24/2008
SEMI-VOLATILE ORGANICS	EPA 8270			CMG	09/25/2008

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Date Reported: **09/30/2008**
Work Order No.: **0809-00125**

Sample ID: **Fill 1**
Sample No.: **001**
Sample Date: **09/18/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
Phenol	EPA 8270	<330	ug/kg	CMG	09/25/2008
2-Chlorophenol	EPA 8270	<330	ug/kg	CMG	09/25/2008
2-Methylphenol	EPA 8270	<330	ug/kg	CMG	09/25/2008
3&4-Methylphenol	EPA 8270	<330	ug/kg	CMG	09/25/2008
2-Nitrophenol	EPA 8270	<330	ug/kg	CMG	09/25/2008
2,4-Dimethylphenol	EPA 8270	<330	ug/kg	CMG	09/25/2008
Benzoic Acid	EPA 8270	<3300	ug/kg	CMG	09/25/2008
2,4-Dichlorophenol	EPA 8270	<330	ug/kg	CMG	09/25/2008
4-Chloro-3-Methylphenol	EPA 8270	<660	ug/kg	CMG	09/25/2008
2,4,6-Trichlorophenol	EPA 8270	<330	ug/kg	CMG	09/25/2008
2,4,5-Trichlorophenol	EPA 8270	<330	ug/kg	CMG	09/25/2008
2,4-Dinitrophenol	EPA 8270	<3300	ug/kg	CMG	09/25/2008
4-Nitrophenol	EPA 8270	<1700	ug/kg	CMG	09/25/2008
4,6-Dinitro-2-Methylphenol	EPA 8270	<1700	ug/kg	CMG	09/25/2008
Pentachlorophenol	EPA 8270	<1700	ug/kg	CMG	09/25/2008
n-Nitrosodimethylamine	EPA 8270	<330	ug/kg	CMG	09/25/2008
bis(2-Chloroethyl)Ether	EPA 8270	<330	ug/kg	CMG	09/25/2008
1,3-Dichlorobenzene	EPA 8270	<330	ug/kg	CMG	09/25/2008
1,4-Dichlorobenzene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Benzyl Alcohol	EPA 8270	<660	ug/kg	CMG	09/25/2008
1,2-Dichlorobenzene	EPA 8270	<330	ug/kg	CMG	09/25/2008
bis(2-Chloroisopropyl)Ether	EPA 8270	<330	ug/kg	CMG	09/25/2008
n-Nitrosodi-n-Propylamine	EPA 8270	<330	ug/kg	CMG	09/25/2008
Hexachloroethane	EPA 8270	<330	ug/kg	CMG	09/25/2008
Nitrobenzene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Isophorone	EPA 8270	<330	ug/kg	CMG	09/25/2008
bis(2-Chloroethoxy)Methane	EPA 8270	<330	ug/kg	CMG	09/25/2008
1,2,4-Trichlorobenzene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Naphthalene	EPA 8270	<330	ug/kg	CMG	09/25/2008
4-Chloroaniline	EPA 8270	<660	ug/kg	CMG	09/25/2008
Hexachlorobutadiene	EPA 8270	<330	ug/kg	CMG	09/25/2008
2-Methylnaphthalene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Hexachlorocyclopentadiene	EPA 8270	<1700	ug/kg	CMG	09/25/2008
2-Chloronaphthalene	EPA 8270	<330	ug/kg	CMG	09/25/2008
2-Nitroaniline	EPA 8270	<660	ug/kg	CMG	09/25/2008
Dimethylphthalate	EPA 8270	<330	ug/kg	CMG	09/25/2008
Acenaphthylene	EPA 8270	<330	ug/kg	CMG	09/25/2008

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Date Reported: **09/30/2008**
Work Order No.: **0809-00125**

Sample ID: **Fill 1** Sample No.: **001**

Sample Date: **09/18/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
2,6-Dinitrotoluene	EPA 8270	<330	ug/kg	CMG	09/25/2008
3-Nitroaniline	EPA 8270	<660	ug/kg	CMG	09/25/2008
Acenaphthene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Dibenzofuran	EPA 8270	<330	ug/kg	CMG	09/25/2008
2,4-Dinitrotoluene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Diethylphthalate	EPA 8270	<330	ug/kg	CMG	09/25/2008
Fluorene	EPA 8270	<330	ug/kg	CMG	09/25/2008
4-Chlorophenyl Phenyl Ether	EPA 8270	<330	ug/kg	CMG	09/25/2008
4-Nitroaniline	EPA 8270	<660	ug/kg	CMG	09/25/2008
n-Nitrosodiphenylamine	EPA 8270	<330	ug/kg	CMG	09/25/2008
4-Bromophenyl Phenyl Ether	EPA 8270	<330	ug/kg	CMG	09/25/2008
Hexachlorobenzene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Phenanthrene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Anthracene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Carbazole	EPA 8270	<330	ug/kg	CMG	09/25/2008
di-n-Butylphthalate	EPA 8270	<500	ug/kg	CMG	09/25/2008
Fluoranthene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Pyrene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Butylbenzylphthalate	EPA 8270	<330	ug/kg	CMG	09/25/2008
Benzo [a] Anthracene	EPA 8270	<330	ug/kg	CMG	09/25/2008
3,3'-Dichlorobenzidine	EPA 8270	<660	ug/kg	CMG	09/25/2008
Chrysene	EPA 8270	<330	ug/kg	CMG	09/25/2008
bis(2-Ethylhexyl)Phthalate	EPA 8270	<330	ug/kg	CMG	09/25/2008
di-n-Octylphthalate	EPA 8270	<330	ug/kg	CMG	09/25/2008
Benzo [b] Fluoranthene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Benzo [k] Fluoranthene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Benzo [a] Pyrene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Indeno [1,2,3-cd] Pyrene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Dibenzo [a,h] Anthracene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Benzo [g,h,i] Perylene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Surrogates:					
***2-Fluorophenol	EPA 8270	47.9	% R	CMG	09/25/2008
***Phenol-D6	EPA 8270	49.4	% R	CMG	09/25/2008
***Nitrobenzene-D5	EPA 8270	48.2	% R	CMG	09/25/2008
***2-Fluorobiphenyl	EPA 8270	48.5	% R	CMG	09/25/2008
***2,4,6-Tribromophenol	EPA 8270	57.4	% R	CMG	09/25/2008
***P-Terphenyl-D14	EPA 8270	72.2	% R	CMG	09/25/2008

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Work Order No.: **0809-00125**

Sample ID: **Fill 1** Sample No.: **001**

Sample Date: **09/18/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
Extraction	EPA 3545	1.0	DF	BAC	09/24/2008
POLYCHLORINATED BIPHENYLS	EPA 8082			TAJ	09/29/2008
Aroclor 1268	EPA 8082	<100	ug/kg	TAJ	09/29/2008
Aroclor 1262	EPA 8082	<100	ug/kg	TAJ	09/29/2008
Aroclor 1260	EPA 8082	<100	ug/kg	TAJ	09/29/2008
Aroclor 1254	EPA 8082	<100	ug/kg	TAJ	09/29/2008
Aroclor 1248	EPA 8082	<100	ug/kg	TAJ	09/29/2008
Aroclor 1242/1016	EPA 8082	<100	ug/kg	TAJ	09/29/2008
Aroclor 1232	EPA 8082	<100	ug/kg	TAJ	09/29/2008
Aroclor 1221	EPA 8082	<100	ug/kg	TAJ	09/29/2008
Surrogates:	EPA 8082				
***Tetrachloro-m-xylene	EPA 8082	47.6	% R	TAJ	09/29/2008
***Tetrachloro-m-xylene	EPA 8082	46.7	% R	TAJ	09/29/2008
***Decachlorobiphenyl	EPA 8082	91.7	% R	TAJ	09/29/2008
***Decachlorobiphenyl	EPA 8082	91.2	% R	TAJ	09/29/2008
Extraction	EPA 3545	1.0	DF	BAC	09/25/2008
TOTAL PETROLEUM HYDROCARBON	Mod. EPA 8100			RJD	09/30/2008
Hydrocarbon Content		<10	mg/kg	RJD	09/30/2008
Surrogate:					
***p-Terphenyl		54.2	% R	RJD	09/30/2008
Extraction	EPA 3545	1.0	DF	BAC	09/26/2008
PRIORITY POLLUTANT METALS				LLZ	09/22/2008
Beryllium	EPA 6010B	<0.27	mg/kg	LLZ	09/22/2008
Silver	EPA 6010B	<0.34	mg/kg	LLZ	09/22/2008
Arsenic	EPA 6010B	<0.67	mg/kg	LLZ	09/22/2008
Cadmium	EPA 6010B	<0.34	mg/kg	LLZ	09/22/2008
Chromium	EPA 6010B	3.5	mg/kg	LLZ	09/22/2008
Copper	EPA 6010B	2.0	mg/kg	LLZ	09/22/2008
Mercury	EPA 7471A	<0.0162	mg/kg	TN	09/24/2008
Nickel	EPA 6010B	0.97	mg/kg	LLZ	09/22/2008
Lead	EPA 6010B	2.4	mg/kg	LLZ	09/22/2008
Antimony	EPA 6010B	<1.7	mg/kg	LLZ	09/22/2008
Selenium	EPA 6010B	<1.7	mg/kg	LLZ	09/22/2008
Thallium	EPA 6010B	<1.7	mg/kg	LLZ	09/22/2008
Zinc	EPA 6010B	7.2	mg/kg	LLZ	09/22/2008
Metals Preparation	EPA 3051	64.3	DFS	LLZ	09/22/2008
Metals Preparation for Sb	EPA 3051	65.6	DFS	LLZ	09/22/2008

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106 South Street
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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Todd Greene

Project Name.: **Charbert UIC Closure**
Project No.: **03.0032795.26**

Date Received: **09/19/2008**
Date Reported: **09/30/2008**
Work Order No.: **0809-00125**

Sample ID: **Fill 2** Sample No.: **002**

Sample Date: **09/18/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
PERCENT SOLID		97.9	%	TAJ	09/23/2008
VOLATILE ORGANICS	EPA 8260			MQS	09/24/2008
Dichlorodifluoromethane	EPA 8260	<100	ug/kg	MQS	09/24/2008
Chloromethane	EPA 8260	<100	ug/kg	MQS	09/24/2008
Vinyl Chloride	EPA 8260	<50	ug/kg	MQS	09/24/2008
Bromomethane	EPA 8260	<100	ug/kg	MQS	09/24/2008
Chloroethane	EPA 8260	<50	ug/kg	MQS	09/24/2008
Trichlorofluoromethane	EPA 8260	<100	ug/kg	MQS	09/24/2008
Diethylether	EPA 8260	<250	ug/kg	MQS	09/24/2008
Acetone	EPA 8260	<1300	ug/kg	MQS	09/24/2008
1,1-Dichloroethene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Dichloromethane	EPA 8260	<100	ug/kg	MQS	09/24/2008
Methyl-Tert-Butyl-Ether	EPA 8260	<50	ug/kg	MQS	09/24/2008
trans-1,2-Dichloroethene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,1-Dichloroethane	EPA 8260	<50	ug/kg	MQS	09/24/2008
2-Butanone	EPA 8260	<1300	ug/kg	MQS	09/24/2008
2,2-Dichloropropane	EPA 8260	<50	ug/kg	MQS	09/24/2008
cis-1,2-Dichloroethene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Chloroform	EPA 8260	<50	ug/kg	MQS	09/24/2008
Bromochloromethane	EPA 8260	<50	ug/kg	MQS	09/24/2008
Tetrahydrofuran	EPA 8260	<500	ug/kg	MQS	09/24/2008
1,1,1-Trichloroethane	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,1-Dichloropropene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Carbon Tetrachloride	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,2-Dichloroethane	EPA 8260	<50	ug/kg	MQS	09/24/2008
Benzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Trichloroethene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,2-Dichloropropane	EPA 8260	<50	ug/kg	MQS	09/24/2008
Bromodichloromethane	EPA 8260	<50	ug/kg	MQS	09/24/2008
Dibromomethane	EPA 8260	<50	ug/kg	MQS	09/24/2008
4-Methyl-2-Pentanone	EPA 8260	<1300	ug/kg	MQS	09/24/2008
cis-1,3-Dichloropropene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Toluene	EPA 8260	<50	ug/kg	MQS	09/24/2008
trans-1,3-Dichloropropene	EPA 8260	<100	ug/kg	MQS	09/24/2008
1,1,2-Trichloroethane	EPA 8260	<50	ug/kg	MQS	09/24/2008
2-Hexanone	EPA 8260	<1300	ug/kg	MQS	09/24/2008
1,3-Dichloropropane	EPA 8260	<50	ug/kg	MQS	09/24/2008

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Date Received: **09/19/2008**
Date Reported: **09/30/2008**
Work Order No.: **0809-00125**

Sample ID: **FIII 2** Sample No.: **002**

Sample Date: **09/18/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
Tetrachloroethene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Dibromochloromethane	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,2-Dibromoethane (EDB)	EPA 8260	<100	ug/kg	MQS	09/24/2008
Chlorobenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,1,1,2-Tetrachloroethane	EPA 8260	<50	ug/kg	MQS	09/24/2008
Ethylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
m&p-Xylene	EPA 8260	<100	ug/kg	MQS	09/24/2008
o-Xylene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Styrene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Bromoform	EPA 8260	<100	ug/kg	MQS	09/24/2008
Isopropylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,1,2,2-Tetrachloroethane	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,2,3-Trichloropropane	EPA 8260	<50	ug/kg	MQS	09/24/2008
Bromobenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
n-Propylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
2-Chlorotoluene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,3,5-Trimethylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
4-Chlorotoluene	EPA 8260	<50	ug/kg	MQS	09/24/2008
tert-Butylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,2,4-Trimethylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
sec-Butylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
p-Isopropyltoluene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,3-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,4-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
n-Butylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,2-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,2-Dibromo-3-Chloropropane	EPA 8260	<250	ug/kg	MQS	09/24/2008
1,2,4-Trichlorobenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Hexachlorobutadiene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Naphthalene	EPA 8260	<100	ug/kg	MQS	09/24/2008
1,2,3-Trichlorobenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	83.6	% R	MQS	09/24/2008
***Toluene-D8	EPA 8260	98.3	% R	MQS	09/24/2008
***4-Bromofluorobenzene	EPA 8260	94.8	% R	MQS	09/24/2008
Preparation	EPA 5035	10	CF	MQS	09/24/2008
SEMI-VOLATILE ORGANICS	EPA 8270			CMG	09/25/2008

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Work Order No.: **0809-00125**

Sample ID: **Fill 2** Sample No.: **002**

Sample Date: **09/18/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
Phenol	EPA 8270	<330	ug/kg	CMG	09/25/2008
2-Chlorophenol	EPA 8270	<330	ug/kg	CMG	09/25/2008
2-Methylphenol	EPA 8270	<330	ug/kg	CMG	09/25/2008
3&4-Methylphenol	EPA 8270	<330	ug/kg	CMG	09/25/2008
2-Nitrophenol	EPA 8270	<330	ug/kg	CMG	09/25/2008
2,4-Dimethylphenol	EPA 8270	<330	ug/kg	CMG	09/25/2008
Benzoic Acid	EPA 8270	<3300	ug/kg	CMG	09/25/2008
2,4-Dichlorophenol	EPA 8270	<330	ug/kg	CMG	09/25/2008
4-Chloro-3-Methylphenol	EPA 8270	<660	ug/kg	CMG	09/25/2008
2,4,6-Trichlorophenol	EPA 8270	<330	ug/kg	CMG	09/25/2008
2,4,5-Trichlorophenol	EPA 8270	<330	ug/kg	CMG	09/25/2008
2,4-Dinitrophenol	EPA 8270	<3300	ug/kg	CMG	09/25/2008
4-Nitrophenol	EPA 8270	<1700	ug/kg	CMG	09/25/2008
4,6-Dinitro-2-Methylphenol	EPA 8270	<1700	ug/kg	CMG	09/25/2008
Pentachlorophenol	EPA 8270	<1700	ug/kg	CMG	09/25/2008
n-Nitrosodimethylamine	EPA 8270	<330	ug/kg	CMG	09/25/2008
bis(2-Chloroethyl)Ether	EPA 8270	<330	ug/kg	CMG	09/25/2008
1,3-Dichlorobenzene	EPA 8270	<330	ug/kg	CMG	09/25/2008
1,4-Dichlorobenzene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Benzyl Alcohol	EPA 8270	<660	ug/kg	CMG	09/25/2008
1,2-Dichlorobenzene	EPA 8270	<330	ug/kg	CMG	09/25/2008
bis(2-Chloroisopropyl)Ether	EPA 8270	<330	ug/kg	CMG	09/25/2008
n-Nitrosodi-n-Propylamine	EPA 8270	<330	ug/kg	CMG	09/25/2008
Hexachloroethane	EPA 8270	<330	ug/kg	CMG	09/25/2008
Nitrobenzene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Isophorone	EPA 8270	<330	ug/kg	CMG	09/25/2008
bis(2-Chloroethoxy)Methane	EPA 8270	<330	ug/kg	CMG	09/25/2008
1,2,4-Trichlorobenzene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Naphthalene	EPA 8270	<330	ug/kg	CMG	09/25/2008
4-Chloroaniline	EPA 8270	<660	ug/kg	CMG	09/25/2008
Hexachlorobutadiene	EPA 8270	<330	ug/kg	CMG	09/25/2008
2-Methylnaphthalene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Hexachlorocyclopentadiene	EPA 8270	<1700	ug/kg	CMG	09/25/2008
2-Chloronaphthalene	EPA 8270	<330	ug/kg	CMG	09/25/2008
2-Nitroaniline	EPA 8270	<660	ug/kg	CMG	09/25/2008
Dimethylphthalate	EPA 8270	<330	ug/kg	CMG	09/25/2008
Acenaphthylene	EPA 8270	<330	ug/kg	CMG	09/25/2008

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Date Received: **09/19/2008**
Date Reported: **09/30/2008**
Work Order No.: **0809-00125**

Sample ID: **Fill 2** Sample No.: **002**

Sample Date: **09/18/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
2,6-Dinitrotoluene	EPA 8270	<330	ug/kg	CMG	09/25/2008
3-Nitroaniline	EPA 8270	<660	ug/kg	CMG	09/25/2008
Acenaphthene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Dibenzofuran	EPA 8270	<330	ug/kg	CMG	09/25/2008
2,4-Dinitrotoluene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Diethylphthalate	EPA 8270	<330	ug/kg	CMG	09/25/2008
Fluorene	EPA 8270	<330	ug/kg	CMG	09/25/2008
4-Chlorophenyl Phenyl Ether	EPA 8270	<330	ug/kg	CMG	09/25/2008
4-Nitroaniline	EPA 8270	<660	ug/kg	CMG	09/25/2008
n-Nitrosodiphenylamine	EPA 8270	<330	ug/kg	CMG	09/25/2008
4-Bromophenyl Phenyl Ether	EPA 8270	<330	ug/kg	CMG	09/25/2008
Hexachlorobenzene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Phenanthrene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Anthracene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Carbazole	EPA 8270	<330	ug/kg	CMG	09/25/2008
di-n-Butylphthalate	EPA 8270	<500	ug/kg	CMG	09/25/2008
Fluoranthene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Pyrene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Butylbenzylphthalate	EPA 8270	<330	ug/kg	CMG	09/25/2008
Benzo [a] Anthracene	EPA 8270	<330	ug/kg	CMG	09/25/2008
3,3'-Dichlorobenzidine	EPA 8270	<660	ug/kg	CMG	09/25/2008
Chrysene	EPA 8270	<330	ug/kg	CMG	09/25/2008
bis(2-Ethylhexyl)Phthalate	EPA 8270	<330	ug/kg	CMG	09/25/2008
di-n-Octylphthalate	EPA 8270	<330	ug/kg	CMG	09/25/2008
Benzo [b] Fluoranthene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Benzo [k] Fluoranthene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Benzo [a] Pyrene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Indeno [1,2,3-cd] Pyrene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Dibenzo [a,h] Anthracene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Benzo [g,h,i] Perylene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Surrogates:					
***2-Fluorophenol	EPA 8270	50.7	% R	CMG	09/25/2008
***Phenol-D6	EPA 8270	52.5	% R	CMG	09/25/2008
***Nitrobenzene-D5	EPA 8270	51.2	% R	CMG	09/25/2008
***2-Fluorobiphenyl	EPA 8270	50.4	% R	CMG	09/25/2008
***2,4,6-Tribromophenol	EPA 8270	48.2	% R	CMG	09/25/2008
***P-Terphenyl-D14	EPA 8270	79.1	% R	CMG	09/25/2008

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Sample Date: **09/18/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
Extraction	EPA 3545	1.0	DF	BAC	09/24/2008
POLYCHLORINATED BIPHENYLS	EPA 8082			TAJ	09/29/2008
Aroclor 1268	EPA 8082	<50	ug/kg	TAJ	09/29/2008
Aroclor 1262	EPA 8082	<50	ug/kg	TAJ	09/29/2008
Aroclor 1260	EPA 8082	<50	ug/kg	TAJ	09/29/2008
Aroclor 1254	EPA 8082	<50	ug/kg	TAJ	09/29/2008
Aroclor 1248	EPA 8082	<50	ug/kg	TAJ	09/29/2008
Aroclor 1242/1016	EPA 8082	<50	ug/kg	TAJ	09/29/2008
Aroclor 1232	EPA 8082	<50	ug/kg	TAJ	09/29/2008
Aroclor 1221	EPA 8082	<50	ug/kg	TAJ	09/29/2008
Surrogates:	EPA 8082				
***Tetrachloro-m-xylene	EPA 8082	63.0	% R	TAJ	09/29/2008
***Tetrachloro-m-xylene	EPA 8082	62.4	% R	TAJ	09/29/2008
***Decachlorobiphenyl	EPA 8082	96.6	% R	TAJ	09/29/2008
***Decachlorobiphenyl	EPA 8082	96.4	% R	TAJ	09/29/2008
Extraction	EPA 3545	1.0	DF	BAC	09/25/2008
TOTAL PETROLEUM HYDROCARBON	Mod. EPA 8100			RJD	09/30/2008
Hydrocarbon Content		<10	mg/kg	RJD	09/30/2008
Surrogate:					
***p-Terphenyl		62.2	% R	RJD	09/30/2008
Extraction	EPA 3545	1.0	DF	BAC	09/26/2008
PRIORITY POLLUTANT METALS				LLZ	09/22/2008
Beryllium	EPA 6010B	<0.26	mg/kg	LLZ	09/22/2008
Silver	EPA 6010B	<0.33	mg/kg	LLZ	09/22/2008
Arsenic	EPA 6010B	<0.66	mg/kg	LLZ	09/22/2008
Cadmium	EPA 6010B	<0.33	mg/kg	LLZ	09/22/2008
Chromium	EPA 6010B	1.0	mg/kg	LLZ	09/22/2008
Copper	EPA 6010B	1.4	mg/kg	LLZ	09/22/2008
Mercury	EPA 7471A	<0.0156	mg/kg	TN	09/24/2008
Nickel	EPA 6010B	<0.66	mg/kg	LLZ	09/22/2008
Lead	EPA 6010B	1.1	mg/kg	LLZ	09/22/2008
Antimony	EPA 6010B	<1.7	mg/kg	LLZ	09/22/2008
Selenium	EPA 6010B	<1.7	mg/kg	LLZ	09/22/2008
Thallium	EPA 6010B	<1.7	mg/kg	LLZ	09/22/2008
Zinc	EPA 6010B	5.2	mg/kg	LLZ	09/22/2008
Metals Preparation	EPA 3051	64.7	DFS	LLZ	09/22/2008
Metals Preparation for Sb	EPA 3051	65.3	DFS	LLZ	09/22/2008

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Date Received: **09/19/2008**
Date Reported: **09/30/2008**
Work Order No.: **0809-00125**

Sample ID: **Trip Blank** Sample No.: **003**

Sample Date: **09/18/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MQS	09/24/2008
Dichlorodifluoromethane	EPA 8260	<100	ug/kg	MQS	09/24/2008
Chloromethane	EPA 8260	<100	ug/kg	MQS	09/24/2008
Vinyl Chloride	EPA 8260	<50	ug/kg	MQS	09/24/2008
Bromomethane	EPA 8260	<100	ug/kg	MQS	09/24/2008
Chloroethane	EPA 8260	<50	ug/kg	MQS	09/24/2008
Trichlorofluoromethane	EPA 8260	<100	ug/kg	MQS	09/24/2008
Diethylether	EPA 8260	<250	ug/kg	MQS	09/24/2008
Acetone	EPA 8260	<1300	ug/kg	MQS	09/24/2008
1,1-Dichloroethene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Dichloromethane	EPA 8260	<100	ug/kg	MQS	09/24/2008
Methyl-Tert-Butyl-Ether	EPA 8260	<50	ug/kg	MQS	09/24/2008
trans-1,2-Dichloroethene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,1-Dichloroethane	EPA 8260	<50	ug/kg	MQS	09/24/2008
2-Butanone	EPA 8260	<1300	ug/kg	MQS	09/24/2008
2,2-Dichloropropane	EPA 8260	<50	ug/kg	MQS	09/24/2008
cis-1,2-Dichloroethene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Chloroform	EPA 8260	<50	ug/kg	MQS	09/24/2008
Bromochloromethane	EPA 8260	<50	ug/kg	MQS	09/24/2008
Tetrahydrofuran	EPA 8260	<500	ug/kg	MQS	09/24/2008
1,1,1-Trichloroethane	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,1-Dichloropropene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Carbon Tetrachloride	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,2-Dichloroethane	EPA 8260	<50	ug/kg	MQS	09/24/2008
Benzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Trichloroethene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,2-Dichloropropane	EPA 8260	<50	ug/kg	MQS	09/24/2008
Bromodichloromethane	EPA 8260	<50	ug/kg	MQS	09/24/2008
Dibromomethane	EPA 8260	<50	ug/kg	MQS	09/24/2008
4-Methyl-2-Pentanone	EPA 8260	<1300	ug/kg	MQS	09/24/2008
cis-1,3-Dichloropropene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Toluene	EPA 8260	<50	ug/kg	MQS	09/24/2008
trans-1,3-Dichloropropene	EPA 8260	<100	ug/kg	MQS	09/24/2008
1,1,2-Trichloroethane	EPA 8260	<50	ug/kg	MQS	09/24/2008
2-Hexanone	EPA 8260	<1300	ug/kg	MQS	09/24/2008
1,3-Dichloropropane	EPA 8260	<50	ug/kg	MQS	09/24/2008
Tetrachloroethene	EPA 8260	<50	ug/kg	MQS	09/24/2008

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Work Order No.: **0809-00125**

Sample ID: **Trip Blank** Sample No.: **003**
Sample Date: **09/18/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
Dibromochloromethane	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,2-Dibromoethane (EDB)	EPA 8260	<100	ug/kg	MQS	09/24/2008
Chlorobenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,1,1,2-Tetrachloroethane	EPA 8260	<50	ug/kg	MQS	09/24/2008
Ethylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
m&p-Xylene	EPA 8260	<100	ug/kg	MQS	09/24/2008
o-Xylene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Styrene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Bromoform	EPA 8260	<100	ug/kg	MQS	09/24/2008
Isopropylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,1,2,2-Tetrachloroethane	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,2,3-Trichloropropane	EPA 8260	<50	ug/kg	MQS	09/24/2008
Bromobenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
n-Propylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
2-Chlorotoluene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,3,5-Trimethylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
4-Chlorotoluene	EPA 8260	<50	ug/kg	MQS	09/24/2008
tert-Butylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,2,4-Trimethylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
sec-Butylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
p-Isopropyltoluene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,3-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,4-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
n-Butylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,2-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,2-Dibromo-3-Chloropropane	EPA 8260	<250	ug/kg	MQS	09/24/2008
1,2,4-Trichlorobenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Hexachlorobutadiene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Naphthalene	EPA 8260	<100	ug/kg	MQS	09/24/2008
1,2,3-Trichlorobenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	82.4	% R	MQS	09/24/2008
***Toluene-D8	EPA 8260	98.1	% R	MQS	09/24/2008
***4-Bromofluorobenzene	EPA 8260	92.2	% R	MQS	09/24/2008
Preparation	EPA 5035	10	CF	MQS	09/24/2008

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 - SOLID

DATE PREPARED: 9/22/2008

QC Sample	Method Blank	Lab Control Sample	LC Duplicate	LCS/LCD Diff.
Units	mg/kg	% Recovery	% Recovery	RPD
Acceptance Limits	Results	80-120	80-120	20%
Analyte				
Silver (Ag)	<0.500	84.0	84.8	0.97
Aluminum (Al)	NA	NA	NA	NA
Arsenic (As)	<1.00	89.8	90.8	1.02
Boron (B)	NA	NA	NA	NA
Barium (Ba)	NA	NA	NA	NA
Beryllium (Be)	<0.400	93.3	94.4	1.12
Calcium (Ca)	NA	NA	NA	NA
Cadmium (Cd)	<0.500	92.5	94.0	1.54
Cobalt (Co)	NA	NA	NA	NA
Chromium (Cr)	<0.500	92.5	93.9	1.49
Copper (Cu)	<1.50	106	106	0.60
Iron (Fe)	NA	NA	NA	NA
Magnesium (Mg)	NA	NA	NA	NA
Manganese (Mn)	NA	NA	NA	NA
Molybdenum (Mo)	NA	NA	NA	NA
Nickel (Ni)	<1.00	93.6	94.9	1.38
Lead (Pb)	<1.00	93.1	94.7	1.62
Antimony (Sb)	NA	NA	NA	NA
Selenium (Se)	<2.50	89.6	91.0	1.58
Strontium (Sr)	NA	NA	NA	NA
Titanium (Ti)	NA	NA	NA	NA
Thallium (Tl)	<2.50	90.4	91.8	1.55
Vanadium (V)	NA	NA	NA	NA
Zinc (Zn)	<1.00	95.2	97.1	1.95
Zirconium (Zr)	NA	NA	NA	NA

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

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

EPA METHOD 6010B ANALYSIS
Metals by ICP

QUALITY CONTROL - SOLID

DATE PREPARED: 9/22/2008 B

QC Sample	Method Blank	Lab Control Sample	LC Duplicate	LCS/LCD Diff.
Units	mg/kg	% 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)	NA	NA	NA	NA
Copper (Cu)	NA	NA	NA	NA
Iron (Fe)	NA	NA	NA	NA
Magnesium (Mg)	NA	NA	NA	NA
Manganese (Mn)	NA	NA	NA	NA
Molybdenum (Mo)	NA	NA	NA	NA
Nickel (Ni)	NA	NA	NA	NA
Lead (Pb)	NA	NA	NA	NA
Antimony (Sb)	<2.50	94.6	89.2	5.84
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)	NA	NA	NA	NA
Zirconium (Zr)	NA	NA	NA	NA

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

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106 SOUTH ST, HOPKINTON, MA 01748
MASSACHUSETTS LABORATORY I.D. NO. MA092

EPA METHOD 7471A ANALYSIS
Mercury by Cold Vapor Atomic Absorption

QUALITY CONTROL - Solid

Date Prepared: 09/23/08

QC Sample	Method Blank	Lab Control Sample	Lab Control Sample Duplicate	LC/LCD Difference
Units	mg/kg	% Recovery	% Recovery	RPD
Acceptance Limits	Results	80-120	80-120	30%
Analyte				
Mercury (Hg)	<0.025 (Sol)	96.8	95.5	1.37

RPD = Relative Percent Difference

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

SPA Method 8260 Solid Method Blank (MB) and Laboratory Control Sample/Duplicate (LCS/LCSD) Data

Method Blank			Laboratory Control Sample				Laboratory Control Sample Duplicate						
Date Analyzed:	9/24/2008		Date Analyzed:	9/24/2008			9/24/2008						
Volatile Organics	Conc. ug/kg	Acceptance Limit	Spike Concentration = 2500 ug/kg	% Recovery	Acceptance Limits	Verdict	% Recovery	Acceptance Limits	Verdict	RPD	Limit	Verdict
dichlorodifluoromethane	< 100	< 100	dichlorodifluoromethane	137	70-130	out	138	70-130	out	1.36	<25	ok
chloromethane	< 100	< 100	chloromethane	110	70-130	ok	112	70-130	ok	3.16	<25	ok
vinyl chloride	< 50	< 50	vinyl chloride	108	70-130	ok	104	70-130	ok	3.78	<25	ok
bromomethane	< 100	< 100	bromomethane	88.3	70-130	ok	94.1	70-130	ok	1.28	<25	ok
chloroethane	< 50	< 50	chloroethane	84.7	70-130	ok	90.6	70-130	ok	4.88	<25	ok
trichlorofluoromethane	< 100	< 100	trichlorofluoromethane	97.2	70-130	ok	93.6	70-130	ok	3.80	<25	ok
diethyl ether	< 250	< 250	diethyl ether	85.3	70-130	ok	87.0	70-130	ok	1.80	<25	ok
acetone	< 1000	< 1000	acetone	88.1	70-130	ok	90.3	70-130	ok	0.84	<25	ok
1,1-dichloroethene	< 50	< 50	1,1-dichloroethene	94.8	70-130	ok	93.7	70-130	ok	1.16	<25	ok
FREON-113	< 100	< 100	FREON-113	100	70-130	ok	99.1	70-130	ok	1.20	<25	ok
iodomethane	< 50	< 50	iodomethane	92.4	70-130	ok	92.3	70-130	ok	0.14	<25	ok
carbon disulfide	< 500	< 500	carbon disulfide	124	70-130	ok	121	70-130	ok	2.14	<25	ok
dichloromethane	< 100	< 100	dichloromethane	86.1	70-130	ok	84.7	70-130	ok	0.54	<25	ok
tert-butyl alcohol (TBA)	< 1300	< 1300	tert-butyl alcohol (TBA)	111	70-130	ok	114	70-130	ok	2.04	<25	ok
acrylonitrile	< 53	< 53	acrylonitrile	90.8	70-130	ok	91.8	70-130	ok	0.61	<25	ok
methyl-tert-butyl-ether	< 53	< 53	methyl-tert-butyl-ether	92.0	70-130	ok	87.0	70-130	ok	5.59	<25	ok
trans-1,2-dichloroethene	< 50	< 50	trans-1,2-dichloroethene	99.0	70-130	ok	96.1	70-130	ok	1.43	<25	ok
1,1-dichloroethane	< 50	< 50	1,1-dichloroethane	98.1	70-130	ok	99.2	70-130	ok	1.10	<25	ok
di-isopropyl ether (DIPE)	< 100	< 100	di-isopropyl ether (DIPE)	92.9	70-130	ok	92.0	70-130	ok	0.17	<25	ok
ethyl tert-butyl ether (ETBE)	< 100	< 100	ethyl tert-butyl ether (ETBE)	94.4	70-130	ok	94.5	70-130	ok	0.08	<25	ok
vinyl acetate	< 1300	< 1300	vinyl acetate	93.4	70-130	ok	93.1	70-130	ok	0.33	<25	ok
2-butanone	< 1300	< 1300	2-butanone	89.9	70-130	ok	94.0	70-130	ok	0.73	<25	ok
2,2-dichloropropane	< 50	< 50	2,2-dichloropropane	89.4	70-130	ok	97.6	70-130	ok	1.93	<25	ok
cis-1,2-dichloroethene	< 50	< 50	cis-1,2-dichloroethene	93.8	70-130	ok	93.6	70-130	ok	0.05	<25	ok
chloroform	< 50	< 50	chloroform	88.3	70-130	ok	89.3	70-130	ok	1.17	<25	ok
bromochloromethane	< 50	< 50	bromochloromethane	87.5	70-130	ok	88.7	70-130	ok	1.24	<25	ok
tetrahydrofuran	< 500	< 500	tetrahydrofuran	113	70-130	ok	114	70-130	ok	0.51	<25	ok
1,1,1-trichloroethane	< 50	< 50	1,1,1-trichloroethane	97.3	70-130	ok	98.0	70-130	ok	1.42	<25	ok
1,1-dichloropropene	< 50	< 50	1,1-dichloropropene	98.3	70-130	ok	98.7	70-130	ok	0.87	<25	ok
carbon tetrachloride	< 50	< 50	carbon tetrachloride	99.0	70-130	ok	99.8	70-130	ok	0.80	<25	ok
1,2-dichloroethane	< 50	< 50	1,2-dichloroethane	93.1	70-130	ok	94.9	70-130	ok	3.09	<25	ok
benzene	< 50	< 50	benzene	98.6	70-130	ok	96.4	70-130	ok	0.58	<25	ok
tert-amyl methyl ether (TAME)	< 100	< 100	tert-amyl methyl ether (TAME)	94.2	70-130	ok	93.2	70-130	ok	1.16	<25	ok
trichloroethene	< 50	< 50	trichloroethene	93.6	70-130	ok	93.7	70-130	ok	0.11	<25	ok
1,2-dichloropropane	< 50	< 50	1,2-dichloropropane	94.1	70-130	ok	94.1	70-130	ok	0.06	<25	ok
bromodichloromethane	< 50	< 50	bromodichloromethane	94.9	70-130	ok	95.4	70-130	ok	0.45	<25	ok
1,4-Dioxane	< 2000	< 2000	1,4-Dioxane	99.8	70-130	ok	96.1	70-130	ok	3.80	<25	ok
dibromomethane	< 50	< 50	dibromomethane	94.4	70-130	ok	96.3	70-130	ok	2.39	<25	ok
4-methyl-2-pentanone	< 1300	< 1300	4-methyl-2-pentanone	93.0	70-130	ok	92.8	70-130	ok	0.48	<25	ok
cis-1,3-dichloropropene	< 50	< 50	cis-1,3-dichloropropene	97.1	70-130	ok	96.3	70-130	ok	1.22	<25	ok
toluene	< 50	< 50	toluene	98.3	70-130	ok	96.8	70-130	ok	0.74	<25	ok
trans-1,3-dichloropropene	< 100	< 100	trans-1,3-dichloropropene	90.6	70-130	ok	89.5	70-130	ok	1.12	<25	ok
1,1,2-trichloroethane	< 50	< 50	1,1,2-trichloroethane	91.5	70-130	ok	92.9	70-130	ok	1.13	<25	ok
2-hexanone	< 1300	< 1300	2-hexanone	96.6	70-130	ok	98.7	70-130	ok	1.99	<25	ok
1,3-dichloropropane	< 50	< 50	1,3-dichloropropane	96.9	70-130	ok	95.7	70-130	ok	2.20	<25	ok
tetrachloroethene	< 50	< 50	tetrachloroethene	102	70-130	ok	104	70-130	ok	2.04	<25	ok
dibromochloromethane	< 50	< 50	dibromochloromethane	99.6	70-130	ok	103	70-130	ok	3.34	<25	ok
1,2-dibromoethane (EDB)	< 100	< 100	1,2-dibromoethane (EDB)	98.8	70-130	ok	101	70-130	ok	2.12	<25	ok
chlorobenzene	< 50	< 50	chlorobenzene	101	70-130	ok	104	70-130	ok	3.55	<25	ok
1,1,1,2-tetrachloroethane	< 50	< 50	1,1,1,2-tetrachloroethane	98.8	70-130	ok	102	70-130	ok	3.87	<25	ok
ethylbenzene	< 50	< 50	ethylbenzene	99.4	70-130	ok	102	70-130	ok	2.45	<25	ok
1,1,2,2-tetrachloroethane	< 50	< 50	1,1,2,2-tetrachloroethane	90.1	70-130	ok	88.7	70-130	ok	0.69	<25	ok
m&p-xylene	< 100	< 100	m&p-xylene	97.7	70-130	ok	101	70-130	ok	3.03	<25	ok
o-xylene	< 50	< 50	o-xylene	93.2	70-130	ok	92.8	70-130	ok	0.48	<25	ok
styrene	< 50	< 50	styrene	97.2	70-130	ok	98.3	70-130	ok	0.84	<25	ok
bromoform	< 100	< 100	bromoform	94.2	70-130	ok	94.9	70-130	ok	0.59	<25	ok
isopropylbenzene	< 50	< 50	isopropylbenzene	112	70-130	ok	110	70-130	ok	2.09	<25	ok
1,2,3-trichloropropane	< 50	< 50	1,2,3-trichloropropane	90.6	70-130	ok	92.7	70-130	ok	3.54	<25	ok
bromobenzene	< 50	< 50	bromobenzene	93.9	70-130	ok	93.3	70-130	ok	0.86	<25	ok
n-propylbenzene	< 50	< 50	n-propylbenzene	96.2	70-130	ok	97.3	70-130	ok	0.72	<25	ok
2-chlorotoluene	< 50	< 50	2-chlorotoluene	95.9	70-130	ok	96.6	70-130	ok	0.59	<25	ok
1,3,5-trimethylbenzene	< 50	< 50	1,3,5-trimethylbenzene	97.3	70-130	ok	97.8	70-130	ok	0.51	<25	ok
trans-1,4-dichloro-2-butene	< 100	< 100	trans-1,4-dichloro-2-butene	96.5	70-130	ok	98.2	70-130	ok	1.97	<25	ok
4-chlorotoluene	< 50	< 50	4-chlorotoluene	96.9	70-130	ok	96.5	70-130	ok	0.39	<25	ok
tert-butylbenzene	< 50	< 50	tert-butylbenzene	118	70-130	ok	115	70-130	ok	0.86	<25	ok
1,2,4-trimethylbenzene	< 50	< 50	1,2,4-trimethylbenzene	93.7	70-130	ok	92.8	70-130	ok	1.16	<25	ok
sec-butylbenzene	< 50	< 50	sec-butylbenzene	98.6	70-130	ok	95.9	70-130	ok	1.89	<25	ok
p-isopropyltoluene	< 50	< 50	p-isopropyltoluene	97.0	70-130	ok	95.4	70-130	ok	1.63	<25	ok
1,3-dichlorobenzene	< 50	< 50	1,3-dichlorobenzene	93.8	70-130	ok	93.0	70-130	ok	0.56	<25	ok
1,4-dichlorobenzene	< 50	< 50	1,4-dichlorobenzene	98.6	70-130	ok	98.6	70-130	ok	1.29	<25	ok
n-butylbenzene	< 50	< 50	n-butylbenzene	94.3	70-130	ok	92.2	70-130	ok	2.13	<25	ok
1,2-dichlorobenzene	< 50	< 50	1,2-dichlorobenzene	94.3	70-130	ok	92.4	70-130	ok	1.84	<25	ok
1,2-dibromo-3-chloropropane	< 250	< 250	1,2-dibromo-3-chloropropane	96.1	70-130	ok	91.6	70-130	ok	4.41	<25	ok
1,2,4-trichlorobenzene	< 50	< 50	1,2,4-trichlorobenzene	95.8	70-130	ok	93.8	70-130	ok	1.96	<25	ok
hexachlorobutadiene	< 50	< 50	hexachlorobutadiene	87.9	70-130	ok	93.0	70-130	ok	5.66	<25	ok
naphthalene	< 100	< 100	naphthalene	93.5	70-130	ok	91.3	70-130	ok	2.29	<25	ok
1,2,3-trichlorobenzene	< 50	< 50	1,2,3-trichlorobenzene	94.1	70-130	ok	92.1	70-130	ok	2.14	<25	ok

Surrogates:	Recovery (%)	Acceptance Limits	Surrogates:	Recovery (%)	Acceptance Limits	Verdict	Recovery (%)	Acceptance Limits	Verdict	RPD	Limit	Verdict
DIBROMOFLUOROMETHANE	94.1	70-130	DIBROMOFLUOROMETHANE	101	70-130	ok	100	70-130	ok	0.10	<25	ok
1,2-DICHLOROETHANE-D4	92.2	70-130	1,2-DICHLOROETHANE-D4	93.0	70-130	ok	93.2	70-130	ok	0.29	<25	ok
TOLUENE-D4	97.2	70-130	TOLUENE-D8	98.4	70-130	ok	100	70-130	ok	0.64	<25	ok
4-BROMOFLUOROBENZENE	93.4	70-130	4-BROMOFLUOROBENZENE	97.0	70-130	ok	97.7	70-130	ok	0.67	<25	ok
1,2-DICHLOROBENZENE-D4	91.9	70-130	1,2-DICHLOROBENZENE-D4	96.1	70-130	ok	92.8	70-130	ok	3.40	<25	ok

Instrument: HP GC/MS "S"

[illegible] GeoEnvironmental, Inc.
[illegible] South Street
Hopkinton, MA 01748

EPA Method 8270 Solid Method Blank (MB) and Laboratory Control Sample (LCS) Data

Method Blank

Date Extracted:	09/23/08
Date Analyzed:	09/25/08
File Name:	LA023

Semi-Volatile Organics	Result	Reporting Limit
n-nitrosodimethylamine	ND	330
pyridine	ND	3300
phenol	ND	330
bis(2-chloroethyl) ether	ND	330
2-chlorophenol	ND	330
1,3-dichlorobenzene	ND	330
1,4-dichlorobenzene	ND	330
benzyl alcohol	ND	660
1,2-dichlorobenzene	ND	330
2-methylphenol	ND	330
bis(2-chloroisopropyl)ether	ND	330
3&4-methylphenol	ND	330
n-nitroso-di-n-propylamine	ND	330
isophorone	ND	330
2-nitrophenol	ND	330
2,4-dimethylphenol	ND	330
benzoic acid	ND	330
bis(2-chloroethoxy)methane	ND	330
2,4-dichlorophenol	ND	330
1,2,4-trichlorobenzene	ND	330
naphthalene	ND	330
4-chloroaniline	ND	660
hexachlorobutadiene	ND	330
4-chloro-3-methylphenol	ND	660
2-methylnaphthalene	ND	330
1,2,4,5-Tetrachlorobenzene	ND	330
aniline	ND	330
hexachlorocyclopentadiene	ND	1700
2,4,6-trichlorophenol	ND	330
2,4,5-trichlorophenol	ND	330
2-chloronaphthalene	ND	330
2-nitroaniline	ND	1700
dimethylphthalate	ND	330
acenaphthylene	ND	330
2,6-dinitrotoluene	ND	330
3-nitroaniline	ND	1700
acenaphthene	ND	330
2,4-dinitrophenol	ND	3300
dibenzofuran	ND	330
4-nitrophenol	ND	1700
2,4-dinitrotoluene	ND	330
diethylphthalate	ND	330
fluorene	ND	330
4-chlorophenyl phenyl ether	ND	330
4-nitroaniline	ND	660
4,6-dinitro-2-methylphenol	ND	1700
n-nitrosodiphenylamine	ND	330
azobenzene	ND	330
4-bromophenyl phenyl ether	ND	330
Pentachlorobenzene	ND	330
hexachlorobenzene	ND	330
pentachlorophenol	ND	1700
phenanthrene	ND	330
anthracene	ND	330
carbazole	ND	330
di-n-butylphthalate	ND	500
fluoranthene	ND	330
benzidine	ND	330
pyrene	ND	330
butylbenzylphthalate	ND	330
benz[a]anthracene	ND	330
3,3'-dichlorobenzidine	ND	660
chrysene	ND	330
bis(2-ethylhexyl)phthalate	ND	330
di-n-octylphthalate	ND	330
benzo [b] fluoranthene	ND	330
benzo [k] fluoranthene	ND	330
benzo [a] pyrene	ND	330
Indeno [1,2,3-cd] pyrene	ND	330
dibenz [a,h] anthracene	ND	330
benzo [ghi] perylene	ND	330

Surrogates	Recovery (%)	Acceptance Limits
2-FLUOROPHENOL	59.8	33-130
PHENOL-D6	57.2	33-130
NITROBENZENE D5	57.4	33-130
2-FLUOROBIPHENYL	58.7	33-130
2,4,6-TRIBROMOPHENOL	63.0	33-130
p-TERPHENYL-D14	62.1	33-130

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EPA Method 8270 Solid Method Blank (MB) and Laboratory Control Sample (LCS) Data

Laboratory Control Sample

Date Extracted	06/23/08		
Date Analyzed	06/25/08		
File Name	L0624		
Spike Concentration = 20ug/L	% Recovery	Acceptance Limits	Verdict
n-nitrosodimethylamine	52.0	40-140	ok
pyridine	38.6	40-140	out
phenol	47.2	30-130	ok
bis(2-chloroethyl)ether	40.6	40-140	ok
2-chlorophenol	46.9	30-130	ok
1,3-dichlorobenzene	47.6	40-140	ok
1,4-dichlorobenzene	46.2	40-140	ok
benzyl alcohol	44.3	40-140	ok
1,2-dichlorobenzene	61.4	40-140	ok
2-methylphenol	48.4	30-130	ok
bis(2-chloroisopropyl)ether	46.8	40-140	ok
3&4-methylphenol	66.2	30-130	ok
n-nitrosodi-n-propylamine	48.7	40-140	ok
acetophenone	56.8	40-140	ok
hexachloroethane	47.4	40-140	ok
nitrobenzene	47.2	40-140	ok
isophorone	43.0	40-140	ok
2-nitrophenol	44.7	30-130	ok
2,4-dimethylphenol	43.4	30-130	ok
benzoic acid	12.7	40-140	out
bis(2-chloroethoxy)methane	44.7	40-140	ok
2,4-dichlorophenol	46.9	30-130	ok
1,2,4-trichlorobenzene	46.7	40-140	ok
naphthalene	48.2	40-140	ok
4-chloroaniline	31.8	40-140	out
hexachlorobutadiene	40.6	40-140	ok
4-chloro-3-methylphenol	42.8	30-130	ok
2-methylnaphthalene	43.6	40-140	ok
1,2,4,5-Tetrachlorobenzene	43.7	40-140	ok
aniline	20.8	40-140	out
hexachlorocyclopentadiene	30.0	30-130	out
2,4,6-trichlorophenol	39.8	30-130	ok
2,4,5-trichlorophenol	43.1	30-130	ok
2-chloronaphthalene	43.7	40-140	ok
2-nitroaniline	46.4	40-140	ok
dimethylphthalate	50.3	40-140	ok
acenaphthylene	46.1	40-140	ok
2,6-dinitrotoluene	48.1	40-140	ok
3-nitroaniline	42.0	40-140	ok
acenaphthene	43.8	40-140	ok
2,4-dinitrophenol	7.30	30-130	out
dibenzofuran	48.8	40-140	ok
4-nitrophenol	56.4	30-130	ok
2,4-dinitrotoluene	48.8	40-140	ok
diethylphthalate	61.0	40-140	ok
fluorene	48.9	40-140	ok
4-chlorophenyl phenyl ether	48.6	40-140	ok
4-nitroaniline	68.5	40-140	ok
4,6-dinitro-2-methylphenol	30.8	30-130	ok
n-nitrosodiphenylamine	49.0	40-140	ok
azobenzene	60.0	40-140	ok
4-bromophenyl phenyl ether	61.4	40-140	ok
Pentachloronitrobenzene	50.8	40-140	ok
hexachlorobenzene	56.7	40-140	ok
pentachlorophenol	53.1	30-130	ok
phenanthrene	63.0	40-140	ok
anthracene	64.2	40-140	ok
carbazole	70.4	40-140	ok
di-n-butylphthalate	66.3	40-140	ok
fluoranthene	77.8	40-140	ok
benzidine	28.2	40-140	out
pyrene	73.7	40-140	ok
butylbenzylphthalate	64.7	40-140	ok
benzo [a] anthracene	75.4	40-140	ok
3,3'-dichlorobenzidine	61.5	40-140	ok
chrysene	60.3	40-140	ok
bis(2-ethylhexyl)phthalate	96.9	40-140	ok
di-n-octylphthalate	60.8	40-140	ok
benzo [b] fluoranthene	78.8	40-140	ok
benzo [k] fluoranthene	76.9	40-140	ok
benzo [a] pyrene	69.8	40-140	ok
indeno [1,2,3-cd] pyrene	82.7	40-140	ok
dibenz [a,h] anthracene	83.0	40-140	ok
benzo [ghi] perylene	81.0	40-140	ok

QAM criteria allows 10% of analytes to exceed criteria.

Surrogates:	Recovery (%)	Acceptance Limits	Verdict
2-FLUOROPHENOL	30.3	30-130	ok
PHENOL-D6	40.5	30-130	ok
NITROBENZENE-D5	45.7	30-130	ok
2-FLUOROBIPHENYL	44.1	30-130	ok
2,4,6-TRIBROMOPHENOL	57.2	30-130	ok
p-TERPHENYL-D14	80.3	30-130	ok

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

EPA METHOD 8082 ANALYSIS
QUALITY CONTROL SOLID

DATE EXTRACTED: 09/25/08
DATE ANALYZED: 09/29/08

METHOD BLANK POLYCHLORINATED BIPHENYLS as AROCLORS	Concentration ug/L-PPB		Quantitation Limit ug/L-PPB
Aroclor 1262	ND		25
Aroclor 1260	ND		25
Aroclor 1254	ND		25
Aroclor 1248	ND		25
Aroclor 1242/1016	ND		25
Aroclor 1232	ND		25
Aroclor 1268	ND		25
Aroclor 1221	ND		25
Surrogates:	(A)	(B)	
Tetrachloro-m-xylene	65.7	67.0	30-150
Decachlorobiphenyl	96.9	100	30-150

LABORATORY CONTROL SAMPLE (LCS)	% Recovery		Acceptance Limits
	(A)	(B)	
Aroclor 1016	71.9	72.9	40-140
Aroclor 1260	99.8	99.8	40-140
Surrogates:			
Tetrachloro-m-xylene	55.7	58.7	30-150
Decachlorobiphenyl	95.2	95.5	30-150

LABORATORY CONTROL DUPLICATE (LCSD)	% Recovery		Acceptance Limits
	(A)	(B)	
Aroclor 1016	77.0	82.5	40-140
Aroclor 1260	102	99.0	40-140
Surrogates:			
Tetrachloro-m-xylene	67.5	67.8	30-150
Decachlorobiphenyl	101	99.5	30-150

RELATIVE PERCENT DIFFERENCE (RPD)	RPD		Acceptance Limits
Aroclor 1016	6.85	12.4	30
Aroclor 1260	2.18	0.80	30
Surrogates:			
Tetrachloro-m-xylene	19.2	14.4	30
Decachlorobiphenyl	5.91	4.10	30

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

CHAIN-OF-CUSTODY RECORD

W.O. # 0809-00625
(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	Total # of Cont.	Note #
Fill 1	9/18/08	S	EPA 8260 X; EPA 8270 FULL SVOCs X; EPA 8082-PCBs X; TPH-GC (Mod. 8100) X; Metals (Lead Only) X	4	
Fill 2	9/18/08	S	EPA 8260 X; EPA 8270 FULL SVOCs X; EPA 8082-PCBs X; TPH-GC (Mod. 8100) X; Metals (Lead Only) X	4	
~~Trip Blank~~	~~9/18/08~~	~~W~~	~~EPA 8260 X~~	~~3~~	
Trip Blank	9/18/08	S	EPA 8260 X	1	
PRESERVATIVE (C - HCl, M-Methanol, N - HNO3, S - H2SO4, Na - NaOH, O - Other)*			M		
CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, T-Teflon, O-Other)*			V G 6 6 6 G		

RELINQUISHED BY: (AFFILIATION) DATE/TIME — RECEIVED BY: (AFFILIATION)
9/18/08 12:05 PM — [illegible] 9/18/08

RELINQUISHED BY: (AFFILIATION) DATE/TIME — RECEIVED BY: (AFFILIATION)
[illegible] 9/18/08 1540 — WALKIN

RELINQUISHED BY: (AFFILIATION) DATE/TIME — RECEIVED BY: (AFFILIATION)
WALKIN — [illegible] 9/19/08 1310

NOTES: (Unless otherwise noted, all samples have been refrigerated to 4° C)
"Specify "Other" preservatives and containers types in this space.
Note: do not test DI water Trip Blank please dispose off.

PROJECT MANAGER: Todd Greene EXT:

GZA GeoEnvironmental, Inc.
Labaratory Division
106 South Street
Hopkinton, MA 01748
(781) 278-4700
FAX (508) 435-9912

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

LAB USE:
TEMP. OF COOLER 7.6 °C
Temp Blank
Cooler Air

4/9/09

GZA FILE NO: 03.00 32795-26 TASK NO: _____ P.O. NO. _____

PROJECT Charbert – Lajan 5

LOCATION Alton RI

COLLECTOR(S) RAL/SMA

SHEET 1 OF 1

LAGOON 5 DREDGE STOCK PILE

R.I. ANALYTICAL
Specialists in Environmental Services

CERTIFICATE OF ANALYSIS

GZA / Geoenvironmental, Inc.
Attn: Mr. Steve Andrus
530 Broadway
Providence, RI 02909

Date Received: 1/6/09
Date Reported: 1/8/09
P.O. #:
Work Order #: 0901-00162

DESCRIPTION: GZA FILE# 32795.16 CHARBERT LAGOON 5 REMEDIATION ALTON, RI

Subject sample(s) has/have been analyzed by our Warwick, R.I. laboratory with the attached results.

Reference: All parameters were analyzed by U.S. EPA approved methodologies.
The specific methodologies are listed in the methods column of the Certificate Of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI-033, MA-RI015, CT-PH-0508, ME-RI015
NH-253700 A & B, USDA S-41844

If you have any questions regarding this work, or if we may be of further assistance, please contact our customer service department.

Approved by:

Data Reporting

enc: Chain of Custody

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

GZA / Geoenvironmental, Inc.
Date Received: 1/6/09
Work Order #: 0901-00162

Approved by: _____
Data Reporting

Sample # 001
SAMPLE DESCRIPTION: DRSTPL-1
SAMPLE TYPE: GRAB **SAMPLE DATE/TIME:** 1/05/2009 @ 16:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
TPH						
TPH GC/FID	560	11	mg/kg dry	SW846 8100M	1/8/09	CDC
Moisture	10		%	SM2540 G.	1/6/09	MAZ
Extraction date	Extracted			SW846 3545	1/7/09	IPP
Volatile Organic Compounds						
Benzene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Bromobenzene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Bromochloromethane	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Bromodichloromethane	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Bromoform	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Bromomethane	<0.13	0.13	mg/kg dry	5035/8260B	1/7/09	MMM
n-Butylbenzene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Sec-butylbenzene	0.06	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
tert-Butylbenzene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Carbon Tetrachloride	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Chlorobenzene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Chloroethane	<0.13	0.13	mg/kg dry	5035/8260B	1/7/09	MMM
Chloroform	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Chloromethane	<0.13	0.13	mg/kg dry	5035/8260B	1/7/09	MMM
2-Chlorotoluene	0.12	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
4-Chlorotoluene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Dibromochloromethane	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,2-Dibromo-3-Chloropropane	<0.05	0.05	mg/kg dry	5035/8260B	1/7/09	MMM
1,2-Dibromoethane(EDB)	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Dibromomethane	<0.05	0.05	mg/kg dry	5035/8260B	1/7/09	MMM
1,2-Dichlorobenzene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,3-Dichlorobenzene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,4-Dichlorobenzene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Dichlorodifluoromethane	<0.13	0.13	mg/kg dry	5035/8260B	1/7/09	MMM
1,1-Dichloroethane	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,2-Dichloroethane	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,1-Dichloroethene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
cis-1,2-Dichloroethene	5.4	1.3	mg/kg dry	5035/8260B	1/8/09	MMM
trans-1,2-Dichloroethylene	0.10	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,2-Dichloropropane	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,3-Dichloropropane	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
2,2-Dichloropropane	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

GZA / Geoenvironmental, Inc.
Date Received: 1/6/09
Work Order #: 0901-00162

Approved by: Maria Bailey
Data Reporting

Sample # 001
SAMPLE DESCRIPTION: DRSTPL-1
SAMPLE TYPE: GRAB
SAMPLE DATE/TIME: 1/05/2009 @ 16:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
1,1-Dichloropropene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Ethylbenzene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Hexachlorobutadiene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Isopropylbenzene	0.06	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
p-Isopropyltoluene	0.08	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Methylene Chloride	<0.10	0.10	mg/kg dry	5035/8260B	1/7/09	MMM
n-Propylbenzene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Naphthalene	0.40	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Styrene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,1,1,2-Tetrachloroethane	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,1,2,2-Tetrachloroethane	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Tetrachloroethene	240	1.3	mg/kg dry	5035/8260B	1/8/09	MMM
Toluene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,2,3-Trichlorobenzene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,2,4-Trichlorobenzene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,1,1-Trichloroethane	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,1,2-Trichloroethane	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Trichloroethene	6.2	1.3	mg/kg dry	5035/8260B	1/8/09	MMM
Trichlorofluoromethane	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,2,3-Trichloropropane	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,2,4-Trimethylbenzene	0.07	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,3,5-Trimethylbenzene	0.05	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Vinyl Chloride	0.13	0.026	mg/kg dry	5035/8260B	1/7/09	MMM
o-Xylene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
m,p-Xylene	0.05	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Total Xylene	0.05	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Methyl Tertiary Butyl Ether (MTBE)	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Surrogates			RANGE	5035/8260B	1/7/09	MMM
Dibromofluoromethane	92		70-130%	5035/8260B	1/7/09	MMM
Toluene-d8	94		70-130%	5035/8260B	1/7/09	MMM
4-Bromofluorobenzene	97		70-130%	5035/8260B	1/7/09	MMM
1,2 Dichloroethane-d4	94		70-130%	5035/8260B	1/7/09	MMM
Semi-Volatile Organic Compounds						
Acenaphthene	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Acenaphthylene	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Anthracene	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Benzidine	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Benzo(a)anthracene	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

GZA / Geoenvironmental, Inc.
Date Received: 1/6/09
Work Order #: 0901-00162

Approved by: _____
Data Reporting

Sample # 001
SAMPLE DESCRIPTION: DRSTPL-1
SAMPLE TYPE: GRAB
SAMPLE DATE/TIME: 1/05/2009 @ 16:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Benzo(b)fluoranthene	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Benzo(k)fluoranthene	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Benzo(g,h,i)perylene	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Benzo(a)pyrene	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Bis(2-chloroethyl)ether	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Bis(2-Chloroethoxy)methane	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Bis(2-Chloroisopropyl)Ether	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Bis(2-ethylhexyl)phthalate	0.38	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
4-Bromophenyl phenyl ether	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Butylbenzyl phthalate	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
2-Chloronaphthalene	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
4-Chlorophenyl phenyl ether	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Chrysene	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Dibenzo(a,h)anthracene	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Di-n-butyl phthalate	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
1,2-Dichlorobenzene	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
1,3-Dichlorobenzene	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
1,4-Dichlorobenzene	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
3,3'-Dichlorobenzidine	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Diethyl phthalate	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Dimethyl phthalate	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
2,4-Dinitrotoluene	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
2,6-Dinitrotoluene	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Di-n-octyl phthalate	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
1,2-Diphenylhydrazine	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Fluoranthene	0.56	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Fluorene	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Hexachlorobenzene	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Hexachlorobutadiene	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Hexachlorocyclopentadiene	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Hexachloroethane	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Indeno(1,2,3-cd)pyrene	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Isophorone	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
2-Methylnaphthalene	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Naphthalene	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Nitrobenzene	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
N-nitrosodimethylamine	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
N-nitrosodiphenylamine	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
N-nitrosodi-n-propylamine	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

GZA / Geoenvironmental, Inc.
Date Received: 1/6/09
Work Order #: 0901-00162

Approved by: _____
Data Reporting

Sample # 001
SAMPLE DESCRIPTION: DRSTPL-1
SAMPLE TYPE: GRAB
SAMPLE DATE/TIME: 1/05/2009 @ 16:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Phenanthrene	0.95	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Pyrene	0.70	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
1,2,4-Trichlorobenzene	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
4-Chloro-3-methylphenol	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
2-Chlorophenol	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
2,4-Dichlorophenol	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
2,4-Dimethylphenol	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
2-Methyl-4,6-dinitrophenol	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
2,4-Dinitrophenol	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
2-Nitrophenol	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
4-Nitrophenol	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Pentachlorophenol	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Phenol	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
2,4,5-Trichlorophenol	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
2,4,6-Trichlorophenol	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
4-Chloroaniline	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Dibenzofuran	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
2-Methyl Phenol	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
3 & 4-Methylphenols	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Aniline	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Acetophenone	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Azobenzene	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Surrogates			RANGE	SW-846 8270D	1/8/09	RGM
Phenol-d5	73		30-130%	SW-846 8270D	1/8/09	RGM
2-Fluorophenol	48		30-130%	SW-846 8270D	1/8/09	RGM
2,4,6-Tribromophenol	19		30-130%	SW-846 8270D	1/8/09	RGM
Nitrobenzene-d5	52		30-130%	SW-846 8270D	1/8/09	RGM
2-Fluorobiphenyl	57		30-130%	SW-846 8270D	1/8/09	RGM
P-Terphenyl-d14	75		30-130%	SW-846 8270D	1/8/09	RGM
Extraction date	Extracted			SW846 3545	1/7/09	JPP
Total Metals						
Arsenic	4.8	1.6	mg/kg dry	SW-846 6010	1/7/09	LW
Barium	32	0.54	mg/kg dry	SW-846 6010	1/7/09	LW
Cadmium	<0.27	0.27	mg/kg dry	SW-846 6010	1/7/09	LW
Chromium	16	1.6	mg/kg dry	SW-846 6010	1/7/09	LW
Lead	58	2.2	mg/kg dry	SW-846 6010	1/7/09	LW
Mercury	0.38	0.11	mg/kg dry	SW-846 7471A	1/7/09	LW
Selenium	<11	11	mg/kg dry	SW-846 6010	1/7/09	LW

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GZA / Geoenvironmental, Inc.
Date Received: 1/6/09
Work Order #: 0901-00162

Approved by: _____
Data Reporting

Sample # 001
SAMPLE DESCRIPTION: DRSTPL-1
SAMPLE TYPE: GRAB **SAMPLE DATE/TIME:** 1/05/2009 @ 16:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Silver	<1.1	1.1	mg/kg dry	SW-846 6010	1/7/09	LW
TCLP Metals						
Arsenic	<1.0	1.0	mg/l	SW-846 6010	1/8/09	LW
Barium	<2.0	2.0	mg/l	SW-846 6010	1/8/09	LW
Cadmium	<0.050	0.050	mg/l	SW-846 6010	1/8/09	LW
Chromium	<0.30	0.30	mg/l	SW-846 6010	1/8/09	LW
Lead	<0.40	0.40	mg/l	SW-846 6010	1/8/09	LW
Mercury	<0.0005	0.0005	mg/l	SW-846 7470A	1/8/09	LW
Selenium	<1.0	1.0	mg/l	SW-846 6010	1/8/09	LW
Silver	<0.20	0.20	mg/l	SW-846 6010	1/8/09	LW

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GZA / Geoenvironmental, Inc.
Date Received: 1/6/09
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Sample # 002
SAMPLE DESCRIPTION: DRSTPL-2
SAMPLE TYPE: GRAB **SAMPLE DATE/TIME:** 1/05/2009 @ 16:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
TPH						
TPH GC/FID	1000	11	mg/kg dry	SW846 8100M	1/8/09	CDC
Moisture	12		%	SM2540 G	1/6/09	MAZ
Extraction date	Extracted			SW846 3545	1/7/09	JPP
Volatile Organic Compounds						
Benzene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Bromobenzene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Bromochloromethane	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Bromodichloromethane	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Bromoform	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Bromomethane	<0.14	0.14	mg/kg dry	5035/8260B	1/7/09	MMM
n-Butylbenzene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Sec-butylbenzene	0.06	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
tert-Butylbenzene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Carbon Tetrachloride	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Chlorobenzene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Chloroethane	<0.14	0.14	mg/kg dry	5035/8260B	1/7/09	MMM
Chloroform	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Chloromethane	<0.14	0.14	mg/kg dry	5035/8260B	1/7/09	MMM
2-Chlorotoluene	0.17	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
4-Chlorotoluene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Dibromochloromethane	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,2-Dibromo-3-Chloropropane	<0.05	0.05	mg/kg dry	5035/8260B	1/7/09	MMM
1,2-Dibromoethane(EDB)	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Dibromomethane	<0.05	0.05	mg/kg dry	5035/8260B	1/7/09	MMM
1,2-Dichlorobenzene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,3-Dichlorobenzene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,4-Dichlorobenzene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Dichlorodifluoromethane	<0.14	0.14	mg/kg dry	5035/8260B	1/7/09	MMM
1,1-Dichloroethane	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,2-Dichloroethane	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,1-Dichloroethene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
cis-1,2-Dichloroethene	5.8	1.4	mg/kg dry	5035/8260B	1/8/09	MMM
trans-1,2-Dichloroethylene	0.10	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,2-Dichloropropane	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,3-Dichloropropane	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
2,2-Dichloropropane	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM

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Sample # 002
SAMPLE DESCRIPTION: DRSTPL-2
SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 1/05/2009 @ 16:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
1,1-Dichloropropene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Ethylbenzene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Hexachlorobutadiene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Isopropylbenzene	0.06	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
p-Isopropyltoluene	0.09	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Methylene Chloride	<0.11	0.11	mg/kg dry	5035/8260B	1/7/09	MMM
n-Propylbenzene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Naphthalene	0.38	0.027	mg/kg dry	5035/8260B	1/7/09	MMM
Styrene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,1,1,2-Tetrachloroethane	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,1,2,2-Tetrachloroethane	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Tetrachloroethene	250	5.4	mg/kg dry	5035/8260B	1/8/09	MMM
Toluene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,2,3-Trichlorobenzene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,2,4-Trichlorobenzene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,1,1-Trichloroethane	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,1,2-Trichloroethane	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Trichloroethene	6.7	1.4	mg/kg dry	5035/8260B	1/8/09	MMM
Trichlorofluoromethane	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,2,3-Trichloropropane	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,2,4-Trimethylbenzene	0.08	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,3,5-Trimethylbenzene	0.05	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Vinyl Chloride	0.12	0.027	mg/kg dry	5035/8260B	1/7/09	MMM
o-Xylene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
m,p-Xylene	0.07	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Total Xylene	0.07	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Methyl Tertiary Butyl Ether (MTBE)	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Surrogates			RANGE	5035/8260B	1/7/09	MMM
Dibromofluoromethane	96		70-130%	5035/8260B	1/7/09	MMM
Toluene-d8	97		70-130%	5035/8260B	1/7/09	MMM
4-Bromofluorobenzene	99		70-130%	5035/8260B	1/7/09	MMM
1,2 Dichloroethane-d4	96		70-130%	5035/8260B	1/7/09	MMM
Semi-Volatile Organic Compounds						
Acenaphthene	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Acenaphthylene	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Anthracene	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Benzidine	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Benzo(a)anthracene	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM

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Date Received: 1/6/09
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Sample # 002
SAMPLE DESCRIPTION: DRSTPL-2
SAMPLE TYPE: GRAB **SAMPLE DATE/TIME:** 1/05/2009 @ 16:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Benzo(b)fluoranthene	0.50	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Benzo(k)fluoranthene	0.41	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Benzo(g,h,i)perylene	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Benzo(a)pyrene	0.44	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Bis(2-chloroethyl)ether	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Bis(2-Chloroethoxy)methane	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Bis(2-Chloroisopropyl)Ether	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Bis(2-ethylhexyl)phthalate	0.60	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
4-Bromophenyl phenyl ether	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Butylbenzyl phthalate	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
2-Chloronaphthalene	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
4-Chlorophenyl phenyl ether	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Chrysene	0.81	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Dibenzo(a,h)anthracene	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Di-n-butyl phthalate	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
1,2-Dichlorobenzene	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
1,3-Dichlorobenzene	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
1,4-Dichlorobenzene	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
3,3'-Dichlorobenzidine	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Diethyl phthalate	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Dimethyl phthalate	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
2,4-Dinitrotoluene	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
2,6-Dinitrotoluene	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Di-n-octyl phthalate	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
1,2-Diphenylhydrazine	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Fluoranthene	1.4	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Fluorene	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Hexachlorobenzene	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Hexachlorobutadiene	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Hexachlorocyclopentadiene	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Hexachloroethane	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Indeno(1,2,3-cd)pyrene	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Isophorone	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
2-Methylnaphthalene	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Naphthalene	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Nitrobenzene	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
N-nitrosodimethylamine	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
N-nitrosodiphenylamine	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
N-nitrosodi-n-propylamine	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM

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GZA / Geoenvironmental, Inc.
Date Received: 1/6/09
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Sample # 002
SAMPLE DESCRIPTION: DRSTPL-2
SAMPLE TYPE: GRAB **SAMPLE DATE/TIME:** 1/05/2009 @ 16:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Phenanthrene	2.0	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Pyrene	1.9	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
1,2,4-Trichlorobenzene	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
4-Chloro-3-methylphenol	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
2-Chlorophenol	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
2,4-Dichlorophenol	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
2,4-Dimethylphenol	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
2-Methyl-4,6-dinitrophenol	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
2,4-Dinitrophenol	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
2-Nitrophenol	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
4-Nitrophenol	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Pentachlorophenol	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Phenol	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
2,4,5-Trichlorophenol	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
2,4,6-Trichlorophenol	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
4-Chloroaniline	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Dibenzofuran	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
2-Methyl Phenol	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
3 & 4-Methylphenols	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Aniline	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Acetophenone	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Azobenzene	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Surrogates			RANGE	SW-846 8270D	1/8/09	RGM
Phenol-d5	85		30-130%	SW-846 8270D	1/8/09	RGM
2-Fluorophenol	56		30-130%	SW-846 8270D	1/8/09	RGM
2,4,6-Tribromophenol	20		30-130%	SW-846 8270D	1/8/09	RGM
Nitrobenzene-d5	66		30-130%	SW-846 8270D	1/8/09	RGM
2-Fluorobiphenyl	69		30-130%	SW-846 8270D	1/8/09	RGM
P-Terphenyl-d14	83		30-130%	SW-846 8270D	1/8/09	RGM
Extraction date	Extracted			SW846 3545	1/7/09	JPP
Total Metals						
Arsenic	3.7	1.7	mg/kg dry	SW-846 6010	1/7/09	LW
Barium	49	0.56	mg/kg dry	SW-846 6010	1/7/09	LW
Cadmium	<0.28	0.28	mg/kg dry	SW-846 6010	1/7/09	LW
Chromium	18	1.7	mg/kg dry	SW-846 6010	1/8/09	LW
Lead	55	2.3	mg/kg dry	SW-846 6010	1/7/09	LW
Mercury	0.38	0.11	mg/kg dry	SW-846 7471A	1/7/09	LW
Selenium	<11	11	mg/kg dry	SW-846 6010	1/7/09	LW

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Sample # 002
SAMPLE DESCRIPTION: DRSTPL-2
SAMPLE TYPE: GRAB **SAMPLE DATE/TIME:** 1/05/2009 @ 16:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Silver	<1.1	1.1	mg/kg dry	SW-846 6010	1/7/09	LW
TCLP Metals						
Arsenic	<1.0	1.0	mg/l	SW-846 6010	1/8/09	LW
Barium	<2.0	2.0	mg/l	SW-846 6010	1/8/09	LW
Cadmium	<0.050	0.050	mg/l	SW-846 6010	1/8/09	LW
Chromium	<0.30	0.30	mg/l	SW-846 6010	1/8/09	LW
Lead	<0.40	0.40	mg/l	SW-846 6010	1/8/09	LW
Mercury	<0.0005	0.0005	mg/l	SW-846 7470A	1/8/09	LW
Selenium	<1.0	1.0	mg/l	SW-846 6010	1/8/09	LW
Silver	<0.20	0.20	mg/l	SW-846 6010	1/8/09	LW

WHITE COPY - Original YELLOW COPY - Lab Files PINK COPY - Project Manager

W.O. # _____ (for lab use only)

CHAIN-OF-CUSTODY RECORD

Sample I.D	Date/Time (Very Important)	Matrix (A-Air, S-Soil, GW-Groundwater, SW-Surface W., WW-Waste W., DW-Drinking W., Other (specify))	ANALYSES REQUIRED	Total # of Cont.	Note #
DR ST PL-1	16:30 01/05/09	S	TPH-DRO (Ext. 8100); TCLP (Spec. Below); Flashpoint; Metals (List below); 8270 Full; 8260 B	5	(1) (2) (3)
DR ST PL-2	16:30 01/05/09	S	TPH-DRO (Ext. 8100); TCLP (Spec. Below); Flashpoint; Metals (List below); 8270 Full; 8260 B	5	(1) (2) (3)
PRESERVATIVE (Cl - HCl, N - HNO_3, S - H_2SO_4, Na - NaOH, O - Other)*			HP	HP	HP	HP		
CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, T-Teflon, O-Other)*			G	G	G	G	G	G		

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

1/6/09 15:00

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

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

NOTES: Preservatives, special reporting limits, known contamination, etc.:
(Unless otherwise noted, all VOA vials have been preserved w/ 1:1 HCl.)

(3) Hold Additional Samples For now

m2 Per J. Mich/J. Blair

* 5 Day Turn, [redacted]

(1) Sample may be hit w/ TPH or VOC's

(2) TCLP Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver

PROJECT MANAGER: Steve Anders EXT: 2740

TURNAROUND TIME: ☐ Standard ☐ Rush ____ Days. Approved by: _____

GZA FILE NO. 32795.16 P.O. NO. _____

PROJECT Charles Lagoon 5 Remediation

LOCATION Alton (Richmond) Rhode Island

COLLECTOR(S) Steve Anders SHEET 1 OF 1

GZA GeoEnvironmental, Inc.
ENGINEERS AND SCIENTISTS
140 Broadway
PROVIDENCE, RI 02903
(401) 421-4140
FAX (401) 751-8613

5.2

0901-00162

LAGOON 5 MICRO WELLS

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.: **03.0032795.16**
Work Order No.: **0901-00090**
Date Received: **01/21/2009**
Date Reported: **01/23/2009**

SAMPLE INFORMATION

Date Sampled	Matrix	Laboratory ID	Sample ID
01/16/2009	Aqueous	0901-00090 001	TB
01/20/2009	Aqueous	0901-00090 002	Micro-1
01/20/2009	Aqueous	0901-00090 003	Micro-3
01/20/2009	Aqueous	0901-00090 004	Micro-4
01/20/2009	Aqueous	0901-00090 005	Micro-5
01/20/2009	Aqueous	0901-00090 006	Micro-6
01/20/2009	Aqueous	0901-00090 007	Micro-7
01/20/2009	Aqueous	0901-00090 008	Micro-8

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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.:	**Charbert/Developing RAWP**	Date Received:	**01/21/2009**
Project No.:	**03.0032795.16**	Date Reported:	**01/23/2009**
		Work Order No.:	**0901-00090**

PROJECT NARRATIVE

1. Sample Receipt

The samples were received on 01/21/09 via _x_GZA courier, __EC, __FEDEX, or ___hand delivered. The temperature of the __temperature blank/_x_cooler air, was 2.9 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 8260 - VOCs

The continuing calibration verification standard (CCV) (01/22/09) had analytes outside of the 30%D QC acceptance limit. The outliers include dichlorodifluoromethane (53%) and tert-butyl alcohol (TBA) (31%).

The Laboratory Control Sample (LCS) (01/22/09 A) had method 8260 list analytes outside of the 70-130% QC acceptance limits. Specific outliers include dichlorodifluoromethane (153%) and tert-butyl alcohol (TBA) (131%). These analytes were not detected in the associated samples.

Sample Micro-1 (0901-90-002) was analyzed at a 1/1000 dilution based upon screening information and in order to report all target analytes within the calibration range of the instrument.

Sample Micro-2 (0901-90-003) was analyzed at a 1/500 dilution based upon screening information and in order to report all target analytes within the calibration range of the instrument.

Samples Micro-7 (0901-90-007) and Micro-8 (0901-90-008) were analyzed at a 1/100 dilution based upon screening information and in order to report all target analytes within the calibration range of the instrument.

Sample Micro-4 (0901-90-004) was analyzed at a 1/50 dilution based upon screening information and in order to report all target analytes within the calibration range of the instrument.

Sample Micro-5 (0901-90-005) was 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 01/22/09 A - Aqueous

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Project Name.:	**Charbert/Developing RAWP**	Date Received:	**01/21/2009**
Project No.:	**03.0032795.16**	Date Reported:	**01/23/2009**
		Work Order No.:	**0901-00090**

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

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Stephen Andrus

Project Name: **Charbert/Developing RAWP**
Project No.: **03.0032795.16**

Date Received: **01/21/2009**
Date Reported: **01/23/2009**
Work Order No.: **0901-00090**

Sample ID: **TB** Sample No.: **001**

Sample Date: **01/16/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MQS	01/22/2009
Dichlorodifluoromethane	EPA 8260	<2.0	ug/L	MQS	01/22/2009
Chloromethane	EPA 8260	<2.0	ug/L	MQS	01/22/2009
Vinyl Chloride	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Bromomethane	EPA 8260	<2.0	ug/L	MQS	01/22/2009
Chloroethane	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Trichlorofluoromethane	EPA 8260	<2.0	ug/L	MQS	01/22/2009
Diethylether	EPA 8260	<5.0	ug/L	MQS	01/22/2009
Acetone	EPA 8260	<25	ug/L	MQS	01/22/2009
1,1-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Dichloromethane	EPA 8260	<2.0	ug/L	MQS	01/22/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	ug/L	MQS	01/22/2009
trans-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
1,1-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	01/22/2009
2-Butanone	EPA 8260	<25	ug/L	MQS	01/22/2009
2,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	01/22/2009
cis-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Chloroform	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Bromochloromethane	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Tetrahydrofuran	EPA 8260	<10	ug/L	MQS	01/22/2009
1,1,1-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	01/22/2009
1,1-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Carbon Tetrachloride	EPA 8260	<1.0	ug/L	MQS	01/22/2009
1,2-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Benzene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Trichloroethene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
1,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Bromodichloromethane	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Dibromomethane	EPA 8260	<1.0	ug/L	MQS	01/22/2009
4-Methyl-2-Pentanone	EPA 8260	<25	ug/L	MQS	01/22/2009
cis-1,3-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Toluene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
trans-1,3-Dichloropropene	EPA 8260	<2.0	ug/L	MQS	01/22/2009
1,1,2-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	01/22/2009
2-Hexanone	EPA 8260	<25	ug/L	MQS	01/22/2009
1,3-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Tetrachloroethene	EPA 8260	<1.0	ug/L	MQS	01/22/2009

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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert/Developing RAWP**
Project No.: **03.0032795.16**

Date Received: **01/21/2009**
Date Reported: **01/23/2009**
Work Order No.: **0901-00090**

Sample ID: **TB**
Sample No.: **001**
Sample Date: **01/16/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
Dibromochloromethane	EPA 8260	<1.0	ug/L	MQS	01/22/2009
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	ug/L	MQS	01/22/2009
Chlorobenzene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Ethylbenzene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
m&p-Xylene	EPA 8260	<2.0	ug/L	MQS	01/22/2009
o-Xylene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Styrene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Bromoform	EPA 8260	<2.0	ug/L	MQS	01/22/2009
Isopropylbenzene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	01/22/2009
1,2,3-Trichloropropane	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Bromobenzene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
N-Propylbenzene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
2-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
1,3,5-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
4-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
tert-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
1,2,4-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
sec-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
p-Isopropyltoluene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
1,3-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
1,4-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
n-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
1,2-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	ug/L	MQS	01/22/2009
1,2,4-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Hexachlorobutadiene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Naphthalene	EPA 8260	<2.0	ug/L	MQS	01/22/2009
1,2,3-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Surrogates:	EPA 8260				
****1,2-Dichloroethane-D4	EPA 8260	83.5	% R	MQS	01/22/2009
***Toluene-D8	EPA 8260	95.5	% R	MQS	01/22/2009
***4-Bromofluorobenzene	EPA 8260	95.4	% R	MQS	01/22/2009
Preparation	EPA 5030B	1.0	CF	MQS	01/22/2009

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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
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Stephen Andrus

Project Name: **Charbert/Developing RAWP**
Project No.: **03.0032795.16**

Date Received: **01/21/2009**
Date Reported: **01/23/2009**
Work Order No.: **0901-00090**

Sample ID: **Micro-1**
Sample No.: **002**
Sample Date: **01/20/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MQS	01/22/2009
Dichlorodifluoromethane	EPA 8260	<2000	ug/L	MQS	01/22/2009
Chloromethane	EPA 8260	<2000	ug/L	MQS	01/22/2009
Vinyl Chloride	EPA 8260	6000	ug/L	MQS	01/22/2009
Bromomethane	EPA 8260	<2000	ug/L	MQS	01/22/2009
Chloroethane	EPA 8260	<1000	ug/L	MQS	01/22/2009
Trichlorofluoromethane	EPA 8260	<2000	ug/L	MQS	01/22/2009
Diethylether	EPA 8260	<5000	ug/L	MQS	01/22/2009
Acetone	EPA 8260	<25000	ug/L	MQS	01/22/2009
1,1-Dichloroethene	EPA 8260	<1000	ug/L	MQS	01/22/2009
Dichloromethane	EPA 8260	<2000	ug/L	MQS	01/22/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<1000	ug/L	MQS	01/22/2009
trans-1,2-Dichloroethene	EPA 8260	<1000	ug/L	MQS	01/22/2009
1,1-Dichloroethane	EPA 8260	<1000	ug/L	MQS	01/22/2009
2-Butanone	EPA 8260	<25000	ug/L	MQS	01/22/2009
2,2-Dichloropropane	EPA 8260	<1000	ug/L	MQS	01/22/2009
cis-1,2-Dichloroethene	EPA 8260	85000	ug/L	MQS	01/22/2009
Chloroform	EPA 8260	<1000	ug/L	MQS	01/22/2009
Bromochloromethane	EPA 8260	<1000	ug/L	MQS	01/22/2009
Tetrahydrofuran	EPA 8260	<10000	ug/L	MQS	01/22/2009
1,1,1-Trichloroethane	EPA 8260	<1000	ug/L	MQS	01/22/2009
1,1-Dichloropropene	EPA 8260	<1000	ug/L	MQS	01/22/2009
Carbon Tetrachloride	EPA 8260	<1000	ug/L	MQS	01/22/2009
1,2-Dichloroethane	EPA 8260	<1000	ug/L	MQS	01/22/2009
Benzene	EPA 8260	<1000	ug/L	MQS	01/22/2009
Trichloroethene	EPA 8260	12000	ug/L	MQS	01/22/2009
1,2-Dichloropropane	EPA 8260	<1000	ug/L	MQS	01/22/2009
Bromodichloromethane	EPA 8260	<1000	ug/L	MQS	01/22/2009
Dibromomethane	EPA 8260	<1000	ug/L	MQS	01/22/2009
4-Methyl-2-Pentanone	EPA 8260	<25000	ug/L	MQS	01/22/2009
cis-1,3-Dichloropropene	EPA 8260	<1000	ug/L	MQS	01/22/2009
Toluene	EPA 8260	<1000	ug/L	MQS	01/22/2009
trans-1,3-Dichloropropene	EPA 8260	<2000	ug/L	MQS	01/22/2009
1,1,2-Trichloroethane	EPA 8260	<1000	ug/L	MQS	01/22/2009
2-Hexanone	EPA 8260	<25000	ug/L	MQS	01/22/2009
1,3-Dichloropropane	EPA 8260	<1000	ug/L	MQS	01/22/2009
Tetrachloroethene	EPA 8260	170000	ug/L	MQS	01/22/2009

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Project No.: **03.0032795.16**

Date Received: **01/21/2009**
Date Reported: **01/23/2009**
Work Order No.: **0901-00090**

Sample ID: **Micro-1** Sample No.: **002**
Sample Date: **01/20/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
Dibromochloromethane	EPA 8260	<1000	ug/L	MQS	01/22/2009
1,2-Dibromoethane (EDB)	EPA 8260	<2000	ug/L	MQS	01/22/2009
Chlorobenzene	EPA 8260	<1000	ug/L	MQS	01/22/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<1000	ug/L	MQS	01/22/2009
Ethylbenzene	EPA 8260	<1000	ug/L	MQS	01/22/2009
m&p-Xylene	EPA 8260	<2000	ug/L	MQS	01/22/2009
o-Xylene	EPA 8260	<1000	ug/L	MQS	01/22/2009
Styrene	EPA 8260	<1000	ug/L	MQS	01/22/2009
Bromoform	EPA 8260	<2000	ug/L	MQS	01/22/2009
Isopropylbenzene	EPA 8260	<1000	ug/L	MQS	01/22/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<1000	ug/L	MQS	01/22/2009
1,2,3-Trichloropropane	EPA 8260	<1000	ug/L	MQS	01/22/2009
Bromobenzene	EPA 8260	<1000	ug/L	MQS	01/22/2009
N-Propylbenzene	EPA 8260	<1000	ug/L	MQS	01/22/2009
2-Chlorotoluene	EPA 8260	<1000	ug/L	MQS	01/22/2009
1,3,5-Trimethylbenzene	EPA 8260	<1000	ug/L	MQS	01/22/2009
4-Chlorotoluene	EPA 8260	<1000	ug/L	MQS	01/22/2009
tert-Butylbenzene	EPA 8260	<1000	ug/L	MQS	01/22/2009
1,2,4-Trimethylbenzene	EPA 8260	<1000	ug/L	MQS	01/22/2009
sec-Butylbenzene	EPA 8260	<1000	ug/L	MQS	01/22/2009
p-Isopropyltoluene	EPA 8260	<1000	ug/L	MQS	01/22/2009
1,3-Dichlorobenzene	EPA 8260	<1000	ug/L	MQS	01/22/2009
1,4-Dichlorobenzene	EPA 8260	<1000	ug/L	MQS	01/22/2009
n-Butylbenzene	EPA 8260	<1000	ug/L	MQS	01/22/2009
1,2-Dichlorobenzene	EPA 8260	<1000	ug/L	MQS	01/22/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<5000	ug/L	MQS	01/22/2009
1,2,4-Trichlorobenzene	EPA 8260	<1000	ug/L	MQS	01/22/2009
Hexachlorobutadiene	EPA 8260	<1000	ug/L	MQS	01/22/2009
Naphthalene	EPA 8260	<2000	ug/L	MQS	01/22/2009
1,2,3-Trichlorobenzene	EPA 8260	<1000	ug/L	MQS	01/22/2009
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	85.3	% R	MQS	01/22/2009
***Toluene-D8	EPA 8260	95.2	% R	MQS	01/22/2009
***4-Bromofluorobenzene	EPA 8260	97.5	% R	MQS	01/22/2009
Preparation	EPA 5030B	1000	CF	MQS	01/22/2009

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Stephen Andrus

Project Name.: **Charbert/Developing RAWP**
Project No.: **03.0032795.16**

Date Received: **01/21/2009**
Date Reported: **01/23/2009**
Work Order No.: **0901-00090**

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

Sample Date: **01/20/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MQS	01/22/2009
Dichlorodifluoromethane	EPA 8260	<1000	ug/L	MQS	01/22/2009
Chloromethane	EPA 8260	<1000	ug/L	MQS	01/22/2009
Vinyl Chloride	EPA 8260	3200	ug/L	MQS	01/22/2009
Bromomethane	EPA 8260	<1000	ug/L	MQS	01/22/2009
Chloroethane	EPA 8260	<500	ug/L	MQS	01/22/2009
Trichlorofluoromethane	EPA 8260	<1000	ug/L	MQS	01/22/2009
Diethylether	EPA 8260	<2500	ug/L	MQS	01/22/2009
Acetone	EPA 8260	<13000	ug/L	MQS	01/22/2009
1,1-Dichloroethene	EPA 8260	<500	ug/L	MQS	01/22/2009
Dichloromethane	EPA 8260	<1000	ug/L	MQS	01/22/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<500	ug/L	MQS	01/22/2009
trans-1,2-Dichloroethene	EPA 8260	530	ug/L	MQS	01/22/2009
1,1-Dichloroethane	EPA 8260	<500	ug/L	MQS	01/22/2009
2-Butanone	EPA 8260	<13000	ug/L	MQS	01/22/2009
2,2-Dichloropropane	EPA 8260	<500	ug/L	MQS	01/22/2009
cis-1,2-Dichloroethene	EPA 8260	38000	ug/L	MQS	01/22/2009
Chloroform	EPA 8260	<500	ug/L	MQS	01/22/2009
Bromochloromethane	EPA 8260	<500	ug/L	MQS	01/22/2009
Tetrahydrofuran	EPA 8260	<5000	ug/L	MQS	01/22/2009
1,1,1-Trichloroethane	EPA 8260	<500	ug/L	MQS	01/22/2009
1,1-Dichloropropene	EPA 8260	<500	ug/L	MQS	01/22/2009
Carbon Tetrachloride	EPA 8260	<500	ug/L	MQS	01/22/2009
1,2-Dichloroethane	EPA 8260	<500	ug/L	MQS	01/22/2009
Benzene	EPA 8260	<500	ug/L	MQS	01/22/2009
Trichloroethene	EPA 8260	16000	ug/L	MQS	01/22/2009
1,2-Dichloropropane	EPA 8260	<500	ug/L	MQS	01/22/2009
Bromodichloromethane	EPA 8260	<500	ug/L	MQS	01/22/2009
Dibromomethane	EPA 8260	<500	ug/L	MQS	01/22/2009
4-Methyl-2-Pentanone	EPA 8260	<13000	ug/L	MQS	01/22/2009
cis-1,3-Dichloropropene	EPA 8260	<500	ug/L	MQS	01/22/2009
Toluene	EPA 8260	<500	ug/L	MQS	01/22/2009
trans-1,3-Dichloropropene	EPA 8260	<1000	ug/L	MQS	01/22/2009
1,1,2-Trichloroethane	EPA 8260	<500	ug/L	MQS	01/22/2009
2-Hexanone	EPA 8260	<13000	ug/L	MQS	01/22/2009
1,3-Dichloropropane	EPA 8260	<500	ug/L	MQS	01/22/2009
Tetrachloroethene	EPA 8260	11000	ug/L	MQS	01/22/2009

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ANALYTICAL REPORT

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Stephen Andrus

Project Name.: **Charbert/Developing RAWP**
Project No.: **03.0032795.16**

Date Received: **01/21/2009**
Date Reported: **01/23/2009**
Work Order No.: **0901-00090**

Sample ID: **Micro-3**
Sample No.: **003**
Sample Date: **01/20/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
Dibromochloromethane	EPA 8260	<500	ug/L	MQS	01/22/2009
1,2-Dibromoethane (EDB)	EPA 8260	<1000	ug/L	MQS	01/22/2009
Chlorobenzene	EPA 8260	<500	ug/L	MQS	01/22/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<500	ug/L	MQS	01/22/2009
Ethylbenzene	EPA 8260	<500	ug/L	MQS	01/22/2009
m&p-Xylene	EPA 8260	<1000	ug/L	MQS	01/22/2009
o-Xylene	EPA 8260	<500	ug/L	MQS	01/22/2009
Styrene	EPA 8260	<500	ug/L	MQS	01/22/2009
Bromoform	EPA 8260	<1000	ug/L	MQS	01/22/2009
Isopropylbenzene	EPA 8260	<500	ug/L	MQS	01/22/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<500	ug/L	MQS	01/22/2009
1,2,3-Trichloropropane	EPA 8260	<500	ug/L	MQS	01/22/2009
Bromobenzene	EPA 8260	<500	ug/L	MQS	01/22/2009
N-Propylbenzene	EPA 8260	<500	ug/L	MQS	01/22/2009
2-Chlorotoluene	EPA 8260	<500	ug/L	MQS	01/22/2009
1,3,5-Trimethylbenzene	EPA 8260	<500	ug/L	MQS	01/22/2009
4-Chlorotoluene	EPA 8260	<500	ug/L	MQS	01/22/2009
tert-Butylbenzene	EPA 8260	<500	ug/L	MQS	01/22/2009
1,2,4-Trimethylbenzene	EPA 8260	<500	ug/L	MQS	01/22/2009
sec-Butylbenzene	EPA 8260	<500	ug/L	MQS	01/22/2009
p-Isopropyltoluene	EPA 8260	<500	ug/L	MQS	01/22/2009
1,3-Dichlorobenzene	EPA 8260	<500	ug/L	MQS	01/22/2009
1,4-Dichlorobenzene	EPA 8260	<500	ug/L	MQS	01/22/2009
n-Butylbenzene	EPA 8260	<500	ug/L	MQS	01/22/2009
1,2-Dichlorobenzene	EPA 8260	<500	ug/L	MQS	01/22/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<2500	ug/L	MQS	01/22/2009
1,2,4-Trichlorobenzene	EPA 8260	<500	ug/L	MQS	01/22/2009
Hexachlorobutadiene	EPA 8260	<500	ug/L	MQS	01/22/2009
Naphthalene	EPA 8260	<1000	ug/L	MQS	01/22/2009
1,2,3-Trichlorobenzene	EPA 8260	<500	ug/L	MQS	01/22/2009
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	83.7	% R	MQS	01/22/2009
***Toluene-D8	EPA 8260	95.2	% R	MQS	01/22/2009
***4-Bromofluorobenzene	EPA 8260	96.1	% R	MQS	01/22/2009
Preparation	EPA 5030B	500	CF	MQS	01/22/2009

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Date Received: **01/21/2009**
Date Reported: **01/23/2009**
Work Order No.: **0901-00090**

Sample ID: **Micro-4** Sample No.: **004**

Sample Date: **01/20/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MQS	01/22/2009
Dichlorodifluoromethane	EPA 8260	<100	ug/L	MQS	01/22/2009
Chloromethane	EPA 8260	<100	ug/L	MQS	01/22/2009
Vinyl Chloride	EPA 8260	220	ug/L	MQS	01/22/2009
Bromomethane	EPA 8260	<100	ug/L	MQS	01/22/2009
Chloroethane	EPA 8260	<50	ug/L	MQS	01/22/2009
Trichlorofluoromethane	EPA 8260	<100	ug/L	MQS	01/22/2009
Diethylether	EPA 8260	<250	ug/L	MQS	01/22/2009
Acetone	EPA 8260	<1300	ug/L	MQS	01/22/2009
1,1-Dichloroethene	EPA 8260	<50	ug/L	MQS	01/22/2009
Dichloromethane	EPA 8260	<100	ug/L	MQS	01/22/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<50	ug/L	MQS	01/22/2009
trans-1,2-Dichloroethene	EPA 8260	<50	ug/L	MQS	01/22/2009
1,1-Dichloroethane	EPA 8260	<50	ug/L	MQS	01/22/2009
2-Butanone	EPA 8260	<1300	ug/L	MQS	01/22/2009
2,2-Dichloropropane	EPA 8260	<50	ug/L	MQS	01/22/2009
cis-1,2-Dichloroethene	EPA 8260	1000	ug/L	MQS	01/22/2009
Chloroform	EPA 8260	<50	ug/L	MQS	01/22/2009
Bromochloromethane	EPA 8260	<50	ug/L	MQS	01/22/2009
Tetrahydrofuran	EPA 8260	<500	ug/L	MQS	01/22/2009
1,1,1-Trichloroethane	EPA 8260	<50	ug/L	MQS	01/22/2009
1,1-Dichloropropene	EPA 8260	<50	ug/L	MQS	01/22/2009
Carbon Tetrachloride	EPA 8260	<50	ug/L	MQS	01/22/2009
1,2-Dichloroethane	EPA 8260	<50	ug/L	MQS	01/22/2009
Benzene	EPA 8260	<50	ug/L	MQS	01/22/2009
Trichloroethene	EPA 8260	370	ug/L	MQS	01/22/2009
1,2-Dichloropropane	EPA 8260	<50	ug/L	MQS	01/22/2009
Bromodichloromethane	EPA 8260	<50	ug/L	MQS	01/22/2009
Dibromomethane	EPA 8260	<50	ug/L	MQS	01/22/2009
4-Methyl-2-Pentanone	EPA 8260	<1300	ug/L	MQS	01/22/2009
cis-1,3-Dichloropropene	EPA 8260	<50	ug/L	MQS	01/22/2009
Toluene	EPA 8260	<50	ug/L	MQS	01/22/2009
trans-1,3-Dichloropropene	EPA 8260	<100	ug/L	MQS	01/22/2009
1,1,2-Trichloroethane	EPA 8260	<50	ug/L	MQS	01/22/2009
2-Hexanone	EPA 8260	<1300	ug/L	MQS	01/22/2009
1,3-Dichloropropane	EPA 8260	<50	ug/L	MQS	01/22/2009
Tetrachloroethene	EPA 8260	2000	ug/L	MQS	01/22/2009

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Date Reported: **01/23/2009**
Work Order No.: **0901-00090**

Sample ID: **Micro-4** Sample No.: **004**
Sample Date: **01/20/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
Dibromochloromethane	EPA 8260	<50	ug/L	MQS	01/22/2009
1,2-Dibromoethane (EDB)	EPA 8260	<100	ug/L	MQS	01/22/2009
Chlorobenzene	EPA 8260	<50	ug/L	MQS	01/22/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<50	ug/L	MQS	01/22/2009
Ethylbenzene	EPA 8260	<50	ug/L	MQS	01/22/2009
m&p-Xylene	EPA 8260	<100	ug/L	MQS	01/22/2009
o-Xylene	EPA 8260	<50	ug/L	MQS	01/22/2009
Styrene	EPA 8260	<50	ug/L	MQS	01/22/2009
Bromoform	EPA 8260	<100	ug/L	MQS	01/22/2009
Isopropylbenzene	EPA 8260	<50	ug/L	MQS	01/22/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<50	ug/L	MQS	01/22/2009
1,2,3-Trichloropropane	EPA 8260	<50	ug/L	MQS	01/22/2009
Bromobenzene	EPA 8260	<50	ug/L	MQS	01/22/2009
N-Propylbenzene	EPA 8260	<50	ug/L	MQS	01/22/2009
2-Chlorotoluene	EPA 8260	<50	ug/L	MQS	01/22/2009
1,3,5-Trimethylbenzene	EPA 8260	<50	ug/L	MQS	01/22/2009
4-Chlorotoluene	EPA 8260	<50	ug/L	MQS	01/22/2009
tert-Butylbenzene	EPA 8260	<50	ug/L	MQS	01/22/2009
1,2,4-Trimethylbenzene	EPA 8260	<50	ug/L	MQS	01/22/2009
sec-Butylbenzene	EPA 8260	<50	ug/L	MQS	01/22/2009
p-Isopropyltoluene	EPA 8260	<50	ug/L	MQS	01/22/2009
1,3-Dichlorobenzene	EPA 8260	<50	ug/L	MQS	01/22/2009
1,4-Dichlorobenzene	EPA 8260	<50	ug/L	MQS	01/22/2009
n-Butylbenzene	EPA 8260	<50	ug/L	MQS	01/22/2009
1,2-Dichlorobenzene	EPA 8260	<50	ug/L	MQS	01/22/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<250	ug/L	MQS	01/22/2009
1,2,4-Trichlorobenzene	EPA 8260	<50	ug/L	MQS	01/22/2009
Hexachlorobutadiene	EPA 8260	<50	ug/L	MQS	01/22/2009
Naphthalene	EPA 8260	<100	ug/L	MQS	01/22/2009
1,2,3-Trichlorobenzene	EPA 8260	<50	ug/L	MQS	01/22/2009
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	80.9	% R	MQS	01/22/2009
***Toluene-D8	EPA 8260	96.0	% R	MQS	01/22/2009
***4-Bromofluorobenzene	EPA 8260	94.4	% R	MQS	01/22/2009
Preparation	EPA 5030B	50	CF	MQS	01/22/2009

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Date Received: **01/21/2009**
Date Reported: **01/23/2009**
Work Order No.: **0901-00090**

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

Sample Date: **01/20/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MQS	01/22/2009
Dichlorodifluoromethane	EPA 8260	<50	ug/L	MQS	01/22/2009
Chloromethane	EPA 8260	<50	ug/L	MQS	01/22/2009
Vinyl Chloride	EPA 8260	190	ug/L	MQS	01/22/2009
Bromomethane	EPA 8260	<50	ug/L	MQS	01/22/2009
Chloroethane	EPA 8260	<25	ug/L	MQS	01/22/2009
Trichlorofluoromethane	EPA 8260	<50	ug/L	MQS	01/22/2009
Diethylether	EPA 8260	<130	ug/L	MQS	01/22/2009
Acetone	EPA 8260	<630	ug/L	MQS	01/22/2009
1,1-Dichloroethene	EPA 8260	<25	ug/L	MQS	01/22/2009
Dichloromethane	EPA 8260	<50	ug/L	MQS	01/22/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<25	ug/L	MQS	01/22/2009
trans-1,2-Dichloroethene	EPA 8260	<25	ug/L	MQS	01/22/2009
1,1-Dichloroethane	EPA 8260	<25	ug/L	MQS	01/22/2009
2-Butanone	EPA 8260	<630	ug/L	MQS	01/22/2009
2,2-Dichloropropane	EPA 8260	<25	ug/L	MQS	01/22/2009
cis-1,2-Dichloroethene	EPA 8260	1400	ug/L	MQS	01/22/2009
Chloroform	EPA 8260	<25	ug/L	MQS	01/22/2009
Bromochloromethane	EPA 8260	<25	ug/L	MQS	01/22/2009
Tetrahydrofuran	EPA 8260	<250	ug/L	MQS	01/22/2009
1,1,1-Trichloroethane	EPA 8260	<25	ug/L	MQS	01/22/2009
1,1-Dichloropropene	EPA 8260	<25	ug/L	MQS	01/22/2009
Carbon Tetrachloride	EPA 8260	<25	ug/L	MQS	01/22/2009
1,2-Dichloroethane	EPA 8260	<25	ug/L	MQS	01/22/2009
Benzene	EPA 8260	<25	ug/L	MQS	01/22/2009
Trichloroethene	EPA 8260	580	ug/L	MQS	01/22/2009
1,2-Dichloropropane	EPA 8260	<25	ug/L	MQS	01/22/2009
Bromodichloromethane	EPA 8260	<25	ug/L	MQS	01/22/2009
Dibromomethane	EPA 8260	<25	ug/L	MQS	01/22/2009
4-Methyl-2-Pentanone	EPA 8260	<630	ug/L	MQS	01/22/2009
cis-1,3-Dichloropropene	EPA 8260	<25	ug/L	MQS	01/22/2009
Toluene	EPA 8260	<25	ug/L	MQS	01/22/2009
trans-1,3-Dichloropropene	EPA 8260	<50	ug/L	MQS	01/22/2009
1,1,2-Trichloroethane	EPA 8260	<25	ug/L	MQS	01/22/2009
2-Hexanone	EPA 8260	<630	ug/L	MQS	01/22/2009
1,3-Dichloropropane	EPA 8260	<25	ug/L	MQS	01/22/2009
Tetrachloroethene	EPA 8260	1000	ug/L	MQS	01/22/2009

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Work Order No.: **0901-00090**

Sample ID: **Micro-5**
Sample No.: **005**
Sample Date: **01/20/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
Dibromochloromethane	EPA 8260	<25	ug/L	MQS	01/22/2009
1,2-Dibromoethane (EDB)	EPA 8260	<50	ug/L	MQS	01/22/2009
Chlorobenzene	EPA 8260	<25	ug/L	MQS	01/22/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<25	ug/L	MQS	01/22/2009
Ethylbenzene	EPA 8260	<25	ug/L	MQS	01/22/2009
m&p-Xylene	EPA 8260	<50	ug/L	MQS	01/22/2009
o-Xylene	EPA 8260	<25	ug/L	MQS	01/22/2009
Styrene	EPA 8260	<25	ug/L	MQS	01/22/2009
Bromoform	EPA 8260	<50	ug/L	MQS	01/22/2009
Isopropylbenzene	EPA 8260	<25	ug/L	MQS	01/22/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<25	ug/L	MQS	01/22/2009
1,2,3-Trichloropropane	EPA 8260	<25	ug/L	MQS	01/22/2009
Bromobenzene	EPA 8260	<25	ug/L	MQS	01/22/2009
N-Propylbenzene	EPA 8260	<25	ug/L	MQS	01/22/2009
2-Chlorotoluene	EPA 8260	<25	ug/L	MQS	01/22/2009
1,3,5-Trimethylbenzene	EPA 8260	<25	ug/L	MQS	01/22/2009
4-Chlorotoluene	EPA 8260	<25	ug/L	MQS	01/22/2009
tert-Butylbenzene	EPA 8260	<25	ug/L	MQS	01/22/2009
1,2,4-Trimethylbenzene	EPA 8260	<25	ug/L	MQS	01/22/2009
sec-Butylbenzene	EPA 8260	<25	ug/L	MQS	01/22/2009
p-Isopropyltoluene	EPA 8260	<25	ug/L	MQS	01/22/2009
1,3-Dichlorobenzene	EPA 8260	<25	ug/L	MQS	01/22/2009
1,4-Dichlorobenzene	EPA 8260	<25	ug/L	MQS	01/22/2009
n-Butylbenzene	EPA 8260	<25	ug/L	MQS	01/22/2009
1,2-Dichlorobenzene	EPA 8260	<25	ug/L	MQS	01/22/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<130	ug/L	MQS	01/22/2009
1,2,4-Trichlorobenzene	EPA 8260	<25	ug/L	MQS	01/22/2009
Hexachlorobutadiene	EPA 8260	<25	ug/L	MQS	01/22/2009
Naphthalene	EPA 8260	<50	ug/L	MQS	01/22/2009
1,2,3-Trichlorobenzene	EPA 8260	<25	ug/L	MQS	01/22/2009
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	82.1	% R	MQS	01/22/2009
***Toluene-D8	EPA 8260	96.2	% R	MQS	01/22/2009
***4-Bromofluorobenzene	EPA 8260	95.1	% R	MQS	01/22/2009
Preparation	EPA 5030B	25	CF	MQS	01/22/2009

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Date Received: **01/21/2009**
Date Reported: **01/23/2009**
Work Order No.: **0901-00090**

Sample ID: **Micro-6**
Sample No.: **006**
Sample Date: **01/20/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MQS	01/22/2009
Dichlorodifluoromethane	EPA 8260	<2.0	ug/L	MQS	01/22/2009
Chloromethane	EPA 8260	<2.0	ug/L	MQS	01/22/2009
Vinyl Chloride	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Bromomethane	EPA 8260	<2.0	ug/L	MQS	01/22/2009
Chloroethane	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Trichlorofluoromethane	EPA 8260	<2.0	ug/L	MQS	01/22/2009
Diethylether	EPA 8260	<5.0	ug/L	MQS	01/22/2009
Acetone	EPA 8260	<25	ug/L	MQS	01/22/2009
1,1-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Dichloromethane	EPA 8260	<2.0	ug/L	MQS	01/22/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	ug/L	MQS	01/22/2009
trans-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
1,1-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	01/22/2009
2-Butanone	EPA 8260	<25	ug/L	MQS	01/22/2009
2,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	01/22/2009
cis-1,2-Dichloroethene	EPA 8260	4.8	ug/L	MQS	01/22/2009
Chloroform	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Bromochloromethane	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Tetrahydrofuran	EPA 8260	<10	ug/L	MQS	01/22/2009
1,1,1-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	01/22/2009
1,1-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Carbon Tetrachloride	EPA 8260	<1.0	ug/L	MQS	01/22/2009
1,2-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Benzene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Trichloroethene	EPA 8260	6.1	ug/L	MQS	01/22/2009
1,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Bromodichloromethane	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Dibromomethane	EPA 8260	<1.0	ug/L	MQS	01/22/2009
4-Methyl-2-Pentanone	EPA 8260	<25	ug/L	MQS	01/22/2009
cis-1,3-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Toluene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
trans-1,3-Dichloropropene	EPA 8260	<2.0	ug/L	MQS	01/22/2009
1,1,2-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	01/22/2009
2-Hexanone	EPA 8260	<25	ug/L	MQS	01/22/2009
1,3-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Tetrachloroethene	EPA 8260	94	ug/L	MQS	01/22/2009

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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert/Developing RAWP**
Project No.: **03.0032795.16**

Date Received: **01/21/2009**
Date Reported: **01/23/2009**
Work Order No.: **0901-00090**

Sample ID: **Micro-6** Sample No.: **006**

Sample Date: **01/20/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
Dibromochloromethane	EPA 8260	<1.0	ug/L	MQS	01/22/2009
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	ug/L	MQS	01/22/2009
Chlorobenzene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Ethylbenzene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
m&p-Xylene	EPA 8260	<2.0	ug/L	MQS	01/22/2009
o-Xylene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Styrene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Bromoform	EPA 8260	<2.0	ug/L	MQS	01/22/2009
Isopropylbenzene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	01/22/2009
1,2,3-Trichloropropane	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Bromobenzene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
N-Propylbenzene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
2-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
1,3,5-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
4-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
tert-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
1,2,4-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
sec-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
p-Isopropyltoluene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
1,3-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
1,4-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
n-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
1,2-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	ug/L	MQS	01/22/2009
1,2,4-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Hexachlorobutadiene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Naphthalene	EPA 8260	<2.0	ug/L	MQS	01/22/2009
1,2,3-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	84.6	% R	MQS	01/22/2009
***Toluene-D8	EPA 8260	96.2	% R	MQS	01/22/2009
***4-Bromofluorobenzene	EPA 8260	96.2	% R	MQS	01/22/2009
Preparation	EPA 5030B	1.0	CF	MQS	01/22/2009

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Project Name.: **Charbert/Developing RAWP**
Project No.: **03.0032795.16**

Date Received: **01/21/2009**
Date Reported: **01/23/2009**
Work Order No.: **0901-00090**

Sample ID: **Micro-7**
Sample No.: **007**
Sample Date: **01/20/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MQS	01/22/2009
Dichlorodifluoromethane	EPA 8260	<200	ug/L	MQS	01/22/2009
Chloromethane	EPA 8260	<200	ug/L	MQS	01/22/2009
Vinyl Chloride	EPA 8260	1800	ug/L	MQS	01/22/2009
Bromomethane	EPA 8260	<200	ug/L	MQS	01/22/2009
Chloroethane	EPA 8260	<100	ug/L	MQS	01/22/2009
Trichlorofluoromethane	EPA 8260	<200	ug/L	MQS	01/22/2009
Diethylether	EPA 8260	<500	ug/L	MQS	01/22/2009
Acetone	EPA 8260	<2500	ug/L	MQS	01/22/2009
1,1-Dichloroethene	EPA 8260	<100	ug/L	MQS	01/22/2009
Dichloromethane	EPA 8260	<200	ug/L	MQS	01/22/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<100	ug/L	MQS	01/22/2009
trans-1,2-Dichloroethene	EPA 8260	<100	ug/L	MQS	01/22/2009
1,1-Dichloroethane	EPA 8260	<100	ug/L	MQS	01/22/2009
2-Butanone	EPA 8260	<2500	ug/L	MQS	01/22/2009
2,2-Dichloropropane	EPA 8260	<100	ug/L	MQS	01/22/2009
cis-1,2-Dichloroethene	EPA 8260	6700	ug/L	MQS	01/22/2009
Chloroform	EPA 8260	<100	ug/L	MQS	01/22/2009
Bromochloromethane	EPA 8260	<100	ug/L	MQS	01/22/2009
Tetrahydrofuran	EPA 8260	<1000	ug/L	MQS	01/22/2009
1,1,1-Trichloroethane	EPA 8260	<100	ug/L	MQS	01/22/2009
1,1-Dichloropropene	EPA 8260	<100	ug/L	MQS	01/22/2009
Carbon Tetrachloride	EPA 8260	<100	ug/L	MQS	01/22/2009
1,2-Dichloroethane	EPA 8260	<100	ug/L	MQS	01/22/2009
Benzene	EPA 8260	<100	ug/L	MQS	01/22/2009
Trichloroethene	EPA 8260	440	ug/L	MQS	01/22/2009
1,2-Dichloropropane	EPA 8260	<100	ug/L	MQS	01/22/2009
Bromodichloromethane	EPA 8260	<100	ug/L	MQS	01/22/2009
Dibromomethane	EPA 8260	<100	ug/L	MQS	01/22/2009
4-Methyl-2-Pentanone	EPA 8260	<2500	ug/L	MQS	01/22/2009
cis-1,3-Dichloropropene	EPA 8260	<100	ug/L	MQS	01/22/2009
Toluene	EPA 8260	<100	ug/L	MQS	01/22/2009
trans-1,3-Dichloropropene	EPA 8260	<200	ug/L	MQS	01/22/2009
1,1,2-Trichloroethane	EPA 8260	<100	ug/L	MQS	01/22/2009
2-Hexanone	EPA 8260	<2500	ug/L	MQS	01/22/2009
1,3-Dichloropropane	EPA 8260	<100	ug/L	MQS	01/22/2009
Tetrachloroethene	EPA 8260	710	ug/L	MQS	01/22/2009

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Date Received: **01/21/2009**
Date Reported: **01/23/2009**
Work Order No.: **0901-00090**

Sample ID: **Micro-7** Sample No.: **007**

Sample Date: **01/20/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
Dibromochloromethane	EPA 8260	<100	ug/L	MQS	01/22/2009
1,2-Dibromoethane (EDB)	EPA 8260	<200	ug/L	MQS	01/22/2009
Chlorobenzene	EPA 8260	<100	ug/L	MQS	01/22/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<100	ug/L	MQS	01/22/2009
Ethylbenzene	EPA 8260	<100	ug/L	MQS	01/22/2009
m&p-Xylene	EPA 8260	<200	ug/L	MQS	01/22/2009
o-Xylene	EPA 8260	<100	ug/L	MQS	01/22/2009
Styrene	EPA 8260	<100	ug/L	MQS	01/22/2009
Bromoform	EPA 8260	<200	ug/L	MQS	01/22/2009
Isopropylbenzene	EPA 8260	<100	ug/L	MQS	01/22/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<100	ug/L	MQS	01/22/2009
1,2,3-Trichloropropane	EPA 8260	<100	ug/L	MQS	01/22/2009
Bromobenzene	EPA 8260	<100	ug/L	MQS	01/22/2009
N-Propylbenzene	EPA 8260	<100	ug/L	MQS	01/22/2009
2-Chlorotoluene	EPA 8260	<100	ug/L	MQS	01/22/2009
1,3,5-Trimethylbenzene	EPA 8260	<100	ug/L	MQS	01/22/2009
4-Chlorotoluene	EPA 8260	<100	ug/L	MQS	01/22/2009
tert-Butylbenzene	EPA 8260	<100	ug/L	MQS	01/22/2009
1,2,4-Trimethylbenzene	EPA 8260	<100	ug/L	MQS	01/22/2009
sec-Butylbenzene	EPA 8260	<100	ug/L	MQS	01/22/2009
p-Isopropyltoluene	EPA 8260	<100	ug/L	MQS	01/22/2009
1,3-Dichlorobenzene	EPA 8260	<100	ug/L	MQS	01/22/2009
1,4-Dichlorobenzene	EPA 8260	<100	ug/L	MQS	01/22/2009
n-Butylbenzene	EPA 8260	<100	ug/L	MQS	01/22/2009
1,2-Dichlorobenzene	EPA 8260	<100	ug/L	MQS	01/22/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<500	ug/L	MQS	01/22/2009
1,2,4-Trichlorobenzene	EPA 8260	<100	ug/L	MQS	01/22/2009
Hexachlorobutadiene	EPA 8260	<100	ug/L	MQS	01/22/2009
Naphthalene	EPA 8260	<200	ug/L	MQS	01/22/2009
1,2,3-Trichlorobenzene	EPA 8260	<100	ug/L	MQS	01/22/2009
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	82.8	% R	MQS	01/22/2009
***Toluene-D8	EPA 8260	95.3	% R	MQS	01/22/2009
***4-Bromofluorobenzene	EPA 8260	94.4	% R	MQS	01/22/2009
Preparation	EPA 5030B	100	CF	MQS	01/22/2009

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Date Received: **01/21/2009**
Date Reported: **01/23/2009**
Work Order No.: **0901-00090**

Sample ID: **Micro-8** Sample No.: **008**

Sample Date: **01/20/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MQS	01/22/2009
Dichlorodifluoromethane	EPA 8260	<200	ug/L	MQS	01/22/2009
Chloromethane	EPA 8260	<200	ug/L	MQS	01/22/2009
Vinyl Chloride	EPA 8260	2200	ug/L	MQS	01/22/2009
Bromomethane	EPA 8260	<200	ug/L	MQS	01/22/2009
Chloroethane	EPA 8260	<100	ug/L	MQS	01/22/2009
Trichlorofluoromethane	EPA 8260	<200	ug/L	MQS	01/22/2009
Diethylether	EPA 8260	<500	ug/L	MQS	01/22/2009
Acetone	EPA 8260	<2500	ug/L	MQS	01/22/2009
1,1-Dichloroethene	EPA 8260	<100	ug/L	MQS	01/22/2009
Dichloromethane	EPA 8260	<200	ug/L	MQS	01/22/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<100	ug/L	MQS	01/22/2009
trans-1,2-Dichloroethene	EPA 8260	<100	ug/L	MQS	01/22/2009
1,1-Dichloroethane	EPA 8260	<100	ug/L	MQS	01/22/2009
2-Butanone	EPA 8260	<2500	ug/L	MQS	01/22/2009
2,2-Dichloropropane	EPA 8260	<100	ug/L	MQS	01/22/2009
cis-1,2-Dichloroethene	EPA 8260	7600	ug/L	MQS	01/22/2009
Chloroform	EPA 8260	<100	ug/L	MQS	01/22/2009
Bromochloromethane	EPA 8260	<100	ug/L	MQS	01/22/2009
Tetrahydrofuran	EPA 8260	<1000	ug/L	MQS	01/22/2009
1,1,1-Trichloroethane	EPA 8260	<100	ug/L	MQS	01/22/2009
1,1-Dichloropropene	EPA 8260	<100	ug/L	MQS	01/22/2009
Carbon Tetrachloride	EPA 8260	<100	ug/L	MQS	01/22/2009
1,2-Dichloroethane	EPA 8260	<100	ug/L	MQS	01/22/2009
Benzene	EPA 8260	<100	ug/L	MQS	01/22/2009
Trichloroethene	EPA 8260	1300	ug/L	MQS	01/22/2009
1,2-Dichloropropane	EPA 8260	<100	ug/L	MQS	01/22/2009
Bromodichloromethane	EPA 8260	<100	ug/L	MQS	01/22/2009
Dibromomethane	EPA 8260	<100	ug/L	MQS	01/22/2009
4-Methyl-2-Pentanone	EPA 8260	<2500	ug/L	MQS	01/22/2009
cis-1,3-Dichloropropene	EPA 8260	<100	ug/L	MQS	01/22/2009
Toluene	EPA 8260	<100	ug/L	MQS	01/22/2009
trans-1,3-Dichloropropene	EPA 8260	<200	ug/L	MQS	01/22/2009
1,1,2-Trichloroethane	EPA 8260	<100	ug/L	MQS	01/22/2009
2-Hexanone	EPA 8260	<2500	ug/L	MQS	01/22/2009
1,3-Dichloropropane	EPA 8260	<100	ug/L	MQS	01/22/2009
Tetrachloroethene	EPA 8260	5000	ug/L	MQS	01/22/2009

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Date Received: **01/21/2009**
Date Reported: **01/23/2009**
Work Order No.: **0901-00090**

Sample ID: **Micro-8** Sample No.: **008**

Sample Date: **01/20/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
Dibromochloromethane	EPA 8260	<100	ug/L	MQS	01/22/2009
1,2-Dibromoethane (EDB)	EPA 8260	<200	ug/L	MQS	01/22/2009
Chlorobenzene	EPA 8260	<100	ug/L	MQS	01/22/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<100	ug/L	MQS	01/22/2009
Ethylbenzene	EPA 8260	<100	ug/L	MQS	01/22/2009
m&p-Xylene	EPA 8260	<200	ug/L	MQS	01/22/2009
o-Xylene	EPA 8260	<100	ug/L	MQS	01/22/2009
Styrene	EPA 8260	<100	ug/L	MQS	01/22/2009
Bromoform	EPA 8260	<200	ug/L	MQS	01/22/2009
Isopropylbenzene	EPA 8260	<100	ug/L	MQS	01/22/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<100	ug/L	MQS	01/22/2009
1,2,3-Trichloropropane	EPA 8260	<100	ug/L	MQS	01/22/2009
Bromobenzene	EPA 8260	<100	ug/L	MQS	01/22/2009
N-Propylbenzene	EPA 8260	<100	ug/L	MQS	01/22/2009
2-Chlorotoluene	EPA 8260	<100	ug/L	MQS	01/22/2009
1,3,5-Trimethylbenzene	EPA 8260	<100	ug/L	MQS	01/22/2009
4-Chlorotoluene	EPA 8260	<100	ug/L	MQS	01/22/2009
tert-Butylbenzene	EPA 8260	<100	ug/L	MQS	01/22/2009
1,2,4-Trimethylbenzene	EPA 8260	<100	ug/L	MQS	01/22/2009
sec-Butylbenzene	EPA 8260	<100	ug/L	MQS	01/22/2009
p-Isopropyltoluene	EPA 8260	<100	ug/L	MQS	01/22/2009
1,3-Dichlorobenzene	EPA 8260	<100	ug/L	MQS	01/22/2009
1,4-Dichlorobenzene	EPA 8260	<100	ug/L	MQS	01/22/2009
n-Butylbenzene	EPA 8260	<100	ug/L	MQS	01/22/2009
1,2-Dichlorobenzene	EPA 8260	<100	ug/L	MQS	01/22/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<500	ug/L	MQS	01/22/2009
1,2,4-Trichlorobenzene	EPA 8260	<100	ug/L	MQS	01/22/2009
Hexachlorobutadiene	EPA 8260	<100	ug/L	MQS	01/22/2009
Naphthalene	EPA 8260	<200	ug/L	MQS	01/22/2009
1,2,3-Trichlorobenzene	EPA 8260	<100	ug/L	MQS	01/22/2009
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	82.9	% R	MQS	01/22/2009
***Toluene-D8	EPA 8260	95.4	% R	MQS	01/22/2009
***4-Bromofluorobenzene	EPA 8260	96.3	% R	MQS	01/22/2009
Preparation	EPA 5030B	100	CF	MQS	01/22/2009

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CTA 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:	1/22/2009		Date Analyzed:	1/22/2009			1/22/2009					
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	103	70-130	out	107	70-130	out	3.70	<25	ok
chloromethane	< 1.0	< 1.0	chloromethane	106	70-130	ok	103	70-130	ok	4.71	<25	ok
vinyl chloride	< 0.5	< 0.5	vinyl chloride	103	60-120	ok	108	70-120	ok	4.73	<25	ok
bromomethane	< 1.0	< 1.0	bromomethane	98.9	70-130	ok	94.3	70-130	ok	2.73	<25	ok
chloroethane	< 0.5	< 0.5	chloroethane	105	70-130	ok	104	70-130	ok	0.21	<25	ok
trichlorofluoromethane	< 1.0	< 1.0	trichlorofluoromethane	113	70-130	ok	109	70-130	ok	3.42	<25	ok
diethyl ether	< 2.0	< 2.0	diethyl ether	101	70-130	ok	96.9	70-130	ok	4.04	<25	ok
acetone	< 10	< 10	acetone	95.0	70-130	ok	89.1	70-130	ok	6.45	<25	ok
1,1-dichloroethene	< 0.5	< 0.5	1,1-dichloroethene	101	60-120	ok	97.3	70-120	ok	3.80	<25	ok
FREON-113	< 1.0	< 1.0	FREON-113	106	70-130	ok	103	70-130	ok	3.12	<25	ok
iodomethane	< 0.5	< 0.5	iodomethane	93.8	70-130	ok	91.1	70-130	ok	2.88	<25	ok
carbon disulfide	< 0.5	< 0.5	carbon disulfide	121	70-130	ok	118	70-130	ok	3.09	<25	ok
dichloromethane	< 1.0	< 1.0	dichloromethane	92.1	70-130	ok	90.4	70-130	ok	1.83	<25	ok
tert-butyl alcohol (TBA)	< 10	< 10	tert-butyl alcohol (TBA)	101	70-130	out	114	70-130	ok	12.9	<25	ok
acrylonitrile	< 0.5	< 0.5	acrylonitrile	89.9	70-130	ok	89.6	70-130	ok	0.00	<25	ok
methyl-tert-butyl-ether	< 0.5	< 0.5	methyl-tert-butyl-ether	97.6	70-130	ok	94.3	70-130	ok	3.49	<25	ok
trans-1,2-dichloroethene	< 0.5	< 0.5	trans-1,2-dichloroethene	99.1	70-130	ok	95.7	70-130	ok	3.40	<25	ok
1,1-dichloroethane	< 0.5	< 0.5	1,1-dichloroethane	99.7	70-130	ok	95.1	70-130	ok	1.08	<25	ok
di-isopropyl ether (DIPE)	< 1.0	< 1.0	di-isopropyl ether (DIPE)	97.4	70-130	ok	93.8	70-130	ok	3.69	<25	ok
ethyl tert-butyl ether (ETBE)	< 1.0	< 1.0	ethyl tert-butyl ether (ETBE)	97.6	70-130	ok	94.7	70-130	ok	3.03	<25	ok
vinyl acetate	< 10	< 10	vinyl acetate	90.4	70-130	ok	87.6	70-130	ok	3.18	<25	ok
2-butanone	< 10	< 10	2-butanone	104	70-130	ok	99.6	70-130	ok	3.94	<25	ok
2,2-dichloropropane	< 0.5	< 0.5	2,2-dichloropropane	101	70-130	ok	93.6	70-130	ok	7.05	<25	ok
cis-1,2-dichloroethene	< 0.5	< 0.5	cis-1,2-dichloroethene	98.2	70-130	ok	95.5	70-130	ok	2.78	<25	ok
chloroform	< 0.5	< 0.5	chloroform	91.8	60-120	ok	89.4	70-130	ok	2.63	<25	ok
bromochloromethane	< 0.5	< 0.5	bromochloromethane	93.1	70-130	ok	91.5	70-130	ok	1.79	<25	ok
tetrahydrofuran	< 5.0	< 5.0	tetrahydrofuran	100	70-130	ok	100	70-130	ok	3.14	<25	ok
1,1,1-trichloroethane	< 0.5	< 0.5	1,1,1-trichloroethane	94.7	70-130	ok	92.9	70-130	ok	2.01	<25	ok
1,1-dichloropropene	< 0.5	< 0.5	1,1-dichloropropene	98.4	70-130	ok	93.9	70-130	ok	3.43	<25	ok
carbon tetrachloride	< 0.5	< 0.5	carbon tetrachloride	96.8	70-130	ok	93.4	70-130	ok	3.60	<25	ok
1,2-dichloroethane	< 0.5	< 0.5	1,2-dichloroethane	98.8	70-130	ok	95.7	70-130	ok	3.36	<25	ok
benzene	< 0.5	< 0.5	benzene	94.2	70-130	ok	91.4	70-130	ok	2.79	<25	ok
tert-amyl methyl ether (TAME)	< 1.0	< 1.0	tert-amyl methyl ether (TAME)	99.2	70-130	ok	96.0	70-130	ok	2.75	<25	ok
trichloroethene	< 0.5	< 0.5	trichloroethene	94.1	70-130	ok	91.3	70-130	ok	3.00	<25	ok
1,2-dichloropropane	< 0.5	< 0.5	1,2-dichloropropane	94.7	60-120	ok	91.4	70-130	ok	3.52	<25	ok
dibromodichloromethane	< 0.5	< 0.5	dibromodichloromethane	94.9	70-130	ok	94.1	70-130	ok	2.04	<25	ok
1,4-Dioxane	< 50	< 50	1,4-Dioxane	94.8	70-130	ok	91.3	70-130	ok	3.78	<25	ok
dibromomethane	< 0.5	< 0.5	dibromomethane	94.2	70-130	ok	91.9	70-130	ok	2.39	<25	ok
4-methyl-2-pentanone	< 10	< 10	4-methyl-2-pentanone	93.2	70-130	ok	90.4	70-130	ok	3.06	<25	ok
cis-1,3-dichloropropene	< 0.5	< 0.5	cis-1,3-dichloropropene	99.1	70-130	ok	95.4	70-130	ok	3.80	<25	ok
toluene	< 0.5	< 0.5	toluene	96.4	60-120	ok	92.5	70-130	ok	3.99	<25	ok
trans-1,3-dichloropropene	< 1.0	< 1.0	trans-1,3-dichloropropene	98.1	70-130	ok	93.0	70-130	ok	3.21	<25	ok
1,1,2-trichloroethane	< 0.5	< 0.5	1,1,2-trichloroethane	95.7	70-130	ok	93.5	70-130	ok	2.34	<25	ok
2-hexanone	< 10	< 10	2-hexanone	91.9	70-130	ok	90.7	70-130	ok	1.18	<25	ok
1,3-dichloropropane	< 0.5	< 0.5	1,3-dichloropropane	94.9	70-130	ok	93.1	70-130	ok	1.96	<25	ok
tetrachloroethene	< 0.5	< 0.5	tetrachloroethene	96.1	70-130	ok	93.8	70-130	ok	2.34	<25	ok
dibromochloromethane	< 0.5	< 0.5	dibromochloromethane	97.0	70-130	ok	95.0	70-130	ok	2.14	<25	ok
1,2-dibromoethane (EDB)	< 1.0	< 1.0	1,2-dibromoethane (EDB)	98.1	70-130	ok	95.6	70-130	ok	2.61	<25	ok
chlorobenzene	< 0.5	< 0.5	chlorobenzene	94.3	70-130	ok	92.8	70-130	ok	1.68	<25	ok
1,1,1,2-tetrachloroethane	< 0.5	< 0.5	1,1,1,2-tetrachloroethane	95.2	70-130	ok	93.0	70-130	ok	1.78	<25	ok
ethylbenzene	< 0.5	< 0.5	ethylbenzene	98.1	60-120	ok	96.1	70-130	ok	2.07	<25	ok
1,1,2,2-tetrachloroethane	< 0.5	< 0.5	1,1,2,2-tetrachloroethane	98.4	70-130	ok	94.6	70-130	ok	4.07	<25	ok
m&p-xylene	< 1.0	< 1.0	m&p-xylene	96.8	70-130	ok	93.5	70-130	ok	3.48	<25	ok
o-xylene	< 0.5	< 0.5	o-xylene	94.0	70-130	ok	92.4	70-130	ok	1.82	<25	ok
styrene	< 0.5	< 0.5	styrene	103	70-130	ok	102	70-130	ok	0.87	<25	ok
bromoform	< 1.0	< 1.0	bromoform	95.1	70-130	ok	93.1	70-130	ok	0.94	<25	ok
isopropylbenzene	< 0.5	< 0.5	isopropylbenzene	116	70-130	ok	108	70-130	ok	1.39	<25	ok
1,2,3-trichloropropane	< 0.5	< 0.5	1,2,3-trichloropropane	96.3	70-130	ok	94.0	70-130	ok	0.30	<25	ok
bromobenzene	< 0.5	< 0.5	bromobenzene	96.5	70-130	ok	94.7	70-130	ok	1.28	<25	ok
n-propylbenzene	< 0.5	< 0.5	n-propylbenzene	101	70-130	ok	98.9	70-130	ok	1.96	<25	ok
2-chlorotoluene	< 0.5	< 0.5	2-chlorotoluene	98.2	70-130	ok	96.4	70-130	ok	0.94	<25	ok
1,3,5-trimethylbenzene	< 0.5	< 0.5	1,3,5-trimethylbenzene	96.3	70-130	ok	95.5	70-130	ok	0.84	<25	ok
trans-1,4-dichloro-2-butene	< 1.0	< 1.0	trans-1,4-dichloro-2-butene	104	70-130	ok	100	70-130	ok	3.83	<25	ok
4-chlorotoluene	< 0.5	< 0.5	4-chlorotoluene	97.8	70-130	ok	96.1	70-130	ok	1.44	<25	ok
tert-butylbenzene	< 0.5	< 0.5	tert-butylbenzene	112	70-130	ok	111	70-130	ok	1.53	<25	ok
1,2,4-trimethylbenzene	< 0.5	< 0.5	1,2,4-trimethylbenzene	95.8	70-130	ok	94.0	70-130	ok	1.49	<25	ok
sec-butylbenzene	< 0.5	< 0.5	sec-butylbenzene	99.8	70-130	ok	94.0	70-130	ok	1.64	<25	ok
p-isopropyltoluene	< 0.5	< 0.5	p-isopropyltoluene	99.1	70-130	ok	94.8	70-130	ok	1.80	<25	ok
1,3-dichlorobenzene	< 0.5	< 0.5	1,3-dichlorobenzene	93.9	70-130	ok	92.0	70-130	ok	1.79	<25	ok
1,4-dichlorobenzene	< 0.5	< 0.5	1,4-dichlorobenzene	94.4	70-130	ok	93.3	70-130	ok	1.13	<25	ok
n-butylbenzene	< 0.5	< 0.5	n-butylbenzene	98.3	70-130	ok	94.8	70-130	ok	1.54	<25	ok
1,2-dichlorobenzene	< 0.5	< 0.5	1,2-dichlorobenzene	90.5	70-130	ok	89.0	70-130	ok	0.82	<25	ok
1,2-dibromo-3-chloropropane	< 2.5	< 2.5	1,2-dibromo-3-chloropropane	101	70-130	ok	98.9	70-130	ok	0.73	<25	ok
1,3,5-trichlorobenzene	< 0.5	< 0.5	1,3,5-trichlorobenzene	99.7	70-130	ok	98.0	70-130	ok	0.72	<25	ok
1,2,4-trichlorobenzene	< 0.5	< 0.5	1,2,4-trichlorobenzene	99.1	70-130	ok	98.8	70-130	ok	0.31	<25	ok
hexachlorobutadiene	< 1.0	< 1.0	hexachlorobutadiene	101	70-130	ok	98.9	70-130	ok	1.81	<25	ok
naphthalene	< 0.5	< 0.5	naphthalene	92.7	70-130	ok	89.9	70-130	ok	0.20	<25	ok

Surrogates:	Recovery (%)	Acceptance Limits	Surrogates:	Recovery (%)	Acceptance Limits	Verdict	Recovery (%)	Acceptance Limits	Verdict	RPD	Limit	Verdict
DIBROMOFLUOROMETHANE	93.8	70-130	DIBROMOFLUOROMETHANE	94.0	70-130	ok	93.3	70-130	ok	0.79	<25	ok
1,2-DICHLOROETHANE-D4	97.8	70-130	1,2-DICHLOROETHANE-D4	96.0	70-130	ok	94.9	70-130	ok	1.27	<25	ok
TOLUENE-D8	93.2	70-130	TOLUENE-D8	97.2	70-130	ok	96.5	70-130	ok	0.73	<25	ok
4-BROMOFLUOROBENZENE	96.6	70-130	4-BROMOFLUOROBENZENE	97.2	70-130	ok	97.2	70-130	ok	0.00	<25	ok
1,2-DICHLOROBENZENE-D4	91.2	70-130	1,2-DICHLOROBENZENE-D4	94.1	70-130	ok	93.7	70-130	ok	0.43	<25	ok

Instrument: HP 5973N "A"

CHAIN OF CUSTODY RECORD

R.I. Analytical Laboratories, Inc.

41 Illinois Avenue
Warwick, RI 02888
Tel: 800-937-2580
Fax: 401-738-1970

131 Coolidge St, Bldg. 2
Hudson, MA 01749
Tel: 888-228-3334
Fax: 978-568-0078

0901-00090

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type	Preservation Code	Matrix Code	VOC's 8260B
1-16-09	17:40	TB	G	3/VI	H	GW	X
1-20-09	11:00	MICRO - 1					
~~1-20-09~~	11:00	~~MW-2~~					
1-20-09	11:00	MW-3					
1-20-09	14:00	MICRO - 4					
1-20-09	14:00	MW-5					
1-20-09	14:00	MW-6					
1-20-09	15:00	MW-7					
1-20-09	15:00	MW-8					

Client Information		Project Information	
Company Name:	GZA GeoEnvironmental	Project Name:	Chestnut
Address:	530 Broadway	P.O. Number:	Project Number: 52795.16
City / State / Zip:	Prov. Limit RI 02891	Report To:	Steve Anders Phone: Fax:
Telephone:	401-421-4140 Fax:	Sampled by:	Steve Anders
Contact Person:	Steve Anders	Quote No:	Email address:

Relinquished By	Date	Time	Received By	Date	Time
Laura McGrady	1/21/09	10:00	Bill Bacon	1/21/09	10:00
Bill Bacon	1/21/09	11:10	[illegible]	1/21/09	1130

Turn Around Time		
	Normal	EMAIL Report
X	5 Business days Possible surcharge	
	Rush ____ (business days)	

Project Comments

Circle if applicable: GW-1, GW-2, GW-3, S-1, S-2, S-3 MCP Data Enhancement/ QC Package? Yes No

+Note - Samples may be "Hot" w/ PCE, TCE

Lab Use Only	
	Sample Pick Up Only
	RIAL sampled, attach field notes
	Shipped on ice 2.9 (4.0) 2.0
Workorder No:	11e0161130

Container Types: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile

Preservation Codes: NP=None, N=HNO_3, H=HCl, S=H_2SO_4, SH=NaOH, SB=$NaHSO_4$, M=MeOH, T=$Na_2S_2O_3$ Z=ZnOAc, I=Ice

Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, Sl=Sludge, A=Air, B=Bulk/Solid, O=_____

WOOD RIVER

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.: **03.0032795.16**
Work Order No.: **0902-00004**
Date Received: **02/02/2009**
Date Reported: **02/05/2009**

SAMPLE INFORMATION

Date Sampled	Matrix	Laboratory ID	Sample ID
01/30/2009	Aqueous	0902-00004 001	WR-1
01/30/2009	Aqueous	0902-00004 002	WR-2
01/30/2009	Aqueous	0902-00004 003	WR-3
01/30/2009	Aqueous	0902-00004 004	LAG 5 CHNL
01/28/2009	Aqueous	0902-00004 005	TB

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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.:	**Charbert/Developing RAWP**	Date Received:	**02/02/2009**
Project No.:	**03.0032795.16**	Date Reported:	**02/05/2009**
		Work Order No.:	**0902-00004**

PROJECT NARRATIVE:

1. Sample Receipt

The samples were received on 02/02/09 via _x_GZA courier, __EC, __FEDEX, or ___hand delivered. The temperature of the __temperature blank/_x_cooler air, was 3.1 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

The continuing calibration verification standard (CCV) (02/03/09 S) had an analyte outside of the 30%D QC acceptance limit. The outlier includes dichlorodifluoromethane (33%).

The Laboratory Control Sample (LCS) (02/03/09 S) had an 8260 list analyte outside of the 70-130% QC acceptance limits. Specific outlier includes dichlorodifluoromethane (133%). This analyte was not detected in the associated samples.

Sample LAG 5 CHNL (0902-004-004) was 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 02/03/09 S - Aqueous

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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
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Stephen Andrus

Project Name.:	**Charbert/Developing RAWP**	Date Received:	**02/02/2009**
Project No.:	**03.0032795.16**	Date Reported:	**02/05/2009**
		Work Order No.:	**0902-00004**

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

Project Name.: **Charbert/Developing RAWP**
Project No.: **03.0032795.16**

Date Received: **02/02/2009**
Date Reported: **02/05/2009**
Work Order No.: **0902-00004**

Sample ID: **WR-1** Sample No.: **001**
Sample Date: **01/30/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MQS	02/03/2009
Dichlorodifluoromethane	EPA 8260	<2.0	ug/L	MQS	02/03/2009
Chloromethane	EPA 8260	<2.0	ug/L	MQS	02/03/2009
Vinyl Chloride	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Bromomethane	EPA 8260	<2.0	ug/L	MQS	02/03/2009
Chloroethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Trichlorofluoromethane	EPA 8260	<2.0	ug/L	MQS	02/03/2009
Diethylether	EPA 8260	<5.0	ug/L	MQS	02/03/2009
Acetone	EPA 8260	<25	ug/L	MQS	02/03/2009
1,1-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Dichloromethane	EPA 8260	<2.0	ug/L	MQS	02/03/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	ug/L	MQS	02/03/2009
trans-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,1-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
2-Butanone	EPA 8260	<25	ug/L	MQS	02/03/2009
2,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
cis-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Chloroform	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Bromochloromethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Tetrahydrofuran	EPA 8260	<10	ug/L	MQS	02/03/2009
1,1,1-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,1-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Carbon Tetrachloride	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,2-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Benzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Trichloroethene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Bromodichloromethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Dibromomethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
4-Methyl-2-Pentanone	EPA 8260	<25	ug/L	MQS	02/03/2009
cis-1,3-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Toluene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
trans-1,3-Dichloropropene	EPA 8260	<2.0	ug/L	MQS	02/03/2009
1,1,2-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
2-Hexanone	EPA 8260	<25	ug/L	MQS	02/03/2009
1,3-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Tetrachloroethene	EPA 8260	<1.0	ug/L	MQS	02/03/2009

GZA GeoEnvironmental, Inc.
106 South Street
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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert/Developing RAWP**
Project No.: **03.0032795.16**

Date Received: **02/02/2009**
Date Reported: **02/05/2009**
Work Order No.: **0902-00004**

Sample ID: **WR-1**
Sample Date: **01/30/2009**

Sample No.: **001**

Test Performed	Method	Results	Units	Tech	Analysis Date
Dibromochloromethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	ug/L	MQS	02/03/2009
Chlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Ethylbenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
m&p-Xylene	EPA 8260	<2.0	ug/L	MQS	02/03/2009
o-Xylene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Styrene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Bromoform	EPA 8260	<2.0	ug/L	MQS	02/03/2009
Isopropylbenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,2,3-Trichloropropane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Bromobenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
N-Propylbenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
2-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,3,5-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
4-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
tert-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,2,4-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
sec-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
p-Isopropyltoluene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,3-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,4-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
n-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,2-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	ug/L	MQS	02/03/2009
1,2,4-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Hexachlorobutadiene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Naphthalene	EPA 8260	<2.0	ug/L	MQS	02/03/2009
1,2,3-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	96.6	% R	MQS	02/03/2009
***Toluene-D8	EPA 8260	100	% R	MQS	02/03/2009
***4-Bromofluorobenzene	EPA 8260	102	% R	MQS	02/03/2009
Preparation	EPA 5030B	1.0	CF	MQS	02/03/2009

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

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert/Developing RAWP**
Project No.: **03.0032795.16**

Date Received: **02/02/2009**
Date Reported: **02/05/2009**
Work Order No.: **0902-00004**

Sample ID: **WR-2** Sample No.: **002**

Sample Date: **01/30/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MQS	02/03/2009
Dichlorodifluoromethane	EPA 8260	<2.0	ug/L	MQS	02/03/2009
Chloromethane	EPA 8260	<2.0	ug/L	MQS	02/03/2009
Vinyl Chloride	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Bromomethane	EPA 8260	<2.0	ug/L	MQS	02/03/2009
Chloroethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Trichlorofluoromethane	EPA 8260	<2.0	ug/L	MQS	02/03/2009
Diethylether	EPA 8260	<5.0	ug/L	MQS	02/03/2009
Acetone	EPA 8260	<25	ug/L	MQS	02/03/2009
1,1-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Dichloromethane	EPA 8260	<2.0	ug/L	MQS	02/03/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	ug/L	MQS	02/03/2009
trans-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,1-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
2-Butanone	EPA 8260	<25	ug/L	MQS	02/03/2009
2,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
cis-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Chloroform	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Bromochloromethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Tetrahydrofuran	EPA 8260	<10	ug/L	MQS	02/03/2009
1,1,1-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,1-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Carbon Tetrachloride	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,2-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Benzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Trichloroethene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Bromodichloromethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Dibromomethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
4-Methyl-2-Pentanone	EPA 8260	<25	ug/L	MQS	02/03/2009
cis-1,3-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Toluene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
trans-1,3-Dichloropropene	EPA 8260	<2.0	ug/L	MQS	02/03/2009
1,1,2-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
2-Hexanone	EPA 8260	<25	ug/L	MQS	02/03/2009
1,3-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Tetrachloroethene	EPA 8260	<1.0	ug/L	MQS	02/03/2009

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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
140 Broadway
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Stephen Andrus

Project Name.: **Charbert/Developing RAWP**
Project No.: **03.0032795.16**

Date Received: **02/02/2009**
Date Reported: **02/05/2009**
Work Order No.: **0902-00004**

Sample ID: **WR-2**
Sample No.: **002**
Sample Date: **01/30/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
Dibromochloromethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	ug/L	MQS	02/03/2009
Chlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Ethylbenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
m&p-Xylene	EPA 8260	<2.0	ug/L	MQS	02/03/2009
o-Xylene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Styrene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Bromoform	EPA 8260	<2.0	ug/L	MQS	02/03/2009
Isopropylbenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,2,3-Trichloropropane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Bromobenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
N-Propylbenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
2-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,3,5-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
4-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
tert-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,2,4-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
sec-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
p-Isopropyltoluene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,3-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,4-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
n-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,2-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	ug/L	MQS	02/03/2009
1,2,4-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Hexachlorobutadiene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Naphthalene	EPA 8260	<2.0	ug/L	MQS	02/03/2009
1,2,3-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	97.9	% R	MQS	02/03/2009
***Toluene-D8	EPA 8260	102	% R	MQS	02/03/2009
***4-Bromofluorobenzene	EPA 8260	102	% R	MQS	02/03/2009
Preparation	EPA 5030B	1.0	CF	MQS	02/03/2009

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Stephen Andrus

Project Name.: **Charbert/Developing RAWP**
Project No.: **03.0032795.16**

Date Received: **02/02/2009**
Date Reported: **02/05/2009**
Work Order No.: **0902-00004**

Sample ID: **WR-3** Sample No.: **003**
Sample Date: **01/30/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MQS	02/03/2009
Dichlorodifluoromethane	EPA 8260	<2.0	ug/L	MQS	02/03/2009
Chloromethane	EPA 8260	<2.0	ug/L	MQS	02/03/2009
Vinyl Chloride	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Bromomethane	EPA 8260	<2.0	ug/L	MQS	02/03/2009
Chloroethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Trichlorofluoromethane	EPA 8260	<2.0	ug/L	MQS	02/03/2009
Diethylether	EPA 8260	<5.0	ug/L	MQS	02/03/2009
Acetone	EPA 8260	<25	ug/L	MQS	02/03/2009
1,1-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Dichloromethane	EPA 8260	<2.0	ug/L	MQS	02/03/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	ug/L	MQS	02/03/2009
trans-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,1-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
2-Butanone	EPA 8260	<25	ug/L	MQS	02/03/2009
2,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
cis-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Chloroform	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Bromochloromethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Tetrahydrofuran	EPA 8260	<10	ug/L	MQS	02/03/2009
1,1,1-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,1-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Carbon Tetrachloride	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,2-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Benzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Trichloroethene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Bromodichloromethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Dibromomethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
4-Methyl-2-Pentanone	EPA 8260	<25	ug/L	MQS	02/03/2009
cis-1,3-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Toluene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
trans-1,3-Dichloropropene	EPA 8260	<2.0	ug/L	MQS	02/03/2009
1,1,2-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
2-Hexanone	EPA 8260	<25	ug/L	MQS	02/03/2009
1,3-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Tetrachloroethene	EPA 8260	<1.0	ug/L	MQS	02/03/2009

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Project Name.: **Charbert/Developing RAWP**
Project No.: **03.0032795.16**

Date Received: **02/02/2009**
Date Reported: **02/05/2009**
Work Order No.: **0902-00004**

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

Sample Date: **01/30/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
Dibromochloromethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	ug/L	MQS	02/03/2009
Chlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Ethylbenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
m&p-Xylene	EPA 8260	<2.0	ug/L	MQS	02/03/2009
o-Xylene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Styrene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Bromoform	EPA 8260	<2.0	ug/L	MQS	02/03/2009
Isopropylbenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,2,3-Trichloropropane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Bromobenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
N-Propylbenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
2-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,3,5-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
4-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
tert-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,2,4-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
sec-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
p-Isopropyltoluene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,3-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,4-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
n-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,2-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	ug/L	MQS	02/03/2009
1,2,4-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Hexachlorobutadiene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Naphthalene	EPA 8260	<2.0	ug/L	MQS	02/03/2009
1,2,3-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	95.6	% R	MQS	02/03/2009
***Toluene-D8	EPA 8260	101	% R	MQS	02/03/2009
***4-Bromofluorobenzene	EPA 8260	101	% R	MQS	02/03/2009
Preparation	EPA 5030B	1.0	CF	MQS	02/03/2009

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Project Name: **Charbert/Developing RAWP**
Project No.: **03.0032795.16**

Date Received: **02/02/2009**
Date Reported: **02/05/2009**
Work Order No.: **0902-00004**

Sample ID: **LAG 5 CHNL** Sample No.: **004**

Sample Date: **01/30/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MQS	02/03/2009
Dichlorodifluoromethane	EPA 8260	<20	ug/L	MQS	02/03/2009
Chloromethane	EPA 8260	<20	ug/L	MQS	02/03/2009
Vinyl Chloride	EPA 8260	12	ug/L	MQS	02/03/2009
Bromomethane	EPA 8260	<20	ug/L	MQS	02/03/2009
Chloroethane	EPA 8260	<10	ug/L	MQS	02/03/2009
Trichlorofluoromethane	EPA 8260	<20	ug/L	MQS	02/03/2009
Diethylether	EPA 8260	<50	ug/L	MQS	02/03/2009
Acetone	EPA 8260	<250	ug/L	MQS	02/03/2009
1,1-Dichloroethene	EPA 8260	<10	ug/L	MQS	02/03/2009
Dichloromethane	EPA 8260	<20	ug/L	MQS	02/03/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<10	ug/L	MQS	02/03/2009
trans-1,2-Dichloroethene	EPA 8260	<10	ug/L	MQS	02/03/2009
1,1-Dichloroethane	EPA 8260	<10	ug/L	MQS	02/03/2009
2-Butanone	EPA 8260	<250	ug/L	MQS	02/03/2009
2,2-Dichloropropane	EPA 8260	<10	ug/L	MQS	02/03/2009
cis-1,2-Dichloroethene	EPA 8260	280	ug/L	MQS	02/03/2009
Chloroform	EPA 8260	<10	ug/L	MQS	02/03/2009
Bromochloromethane	EPA 8260	<10	ug/L	MQS	02/03/2009
Tetrahydrofuran	EPA 8260	<100	ug/L	MQS	02/03/2009
1,1,1-Trichloroethane	EPA 8260	<10	ug/L	MQS	02/03/2009
1,1-Dichloropropene	EPA 8260	<10	ug/L	MQS	02/03/2009
Carbon Tetrachloride	EPA 8260	<10	ug/L	MQS	02/03/2009
1,2-Dichloroethane	EPA 8260	<10	ug/L	MQS	02/03/2009
Benzene	EPA 8260	<10	ug/L	MQS	02/03/2009
Trichloroethene	EPA 8260	100	ug/L	MQS	02/03/2009
1,2-Dichloropropane	EPA 8260	<10	ug/L	MQS	02/03/2009
Bromodichloromethane	EPA 8260	<10	ug/L	MQS	02/03/2009
Dibromomethane	EPA 8260	<10	ug/L	MQS	02/03/2009
4-Methyl-2-Pentanone	EPA 8260	<250	ug/L	MQS	02/03/2009
cis-1,3-Dichloropropene	EPA 8260	<10	ug/L	MQS	02/03/2009
Toluene	EPA 8260	<10	ug/L	MQS	02/03/2009
trans-1,3-Dichloropropene	EPA 8260	<20	ug/L	MQS	02/03/2009
1,1,2-Trichloroethane	EPA 8260	<10	ug/L	MQS	02/03/2009
2-Hexanone	EPA 8260	<250	ug/L	MQS	02/03/2009
1,3-Dichloropropane	EPA 8260	<10	ug/L	MQS	02/03/2009
Tetrachloroethene	EPA 8260	930	ug/L	MQS	02/03/2009

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Project Name.: **Charbert/Developing RAWP**
Project No.: **03.0032795.16**

Date Received: **02/02/2009**
Date Reported: **02/05/2009**
Work Order No.: **0902-00004**

Sample ID: **LAG 5 CHNL** Sample No.: **004**

Sample Date: **01/30/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
Dibromochloromethane	EPA 8260	<10	ug/L	MQS	02/03/2009
1,2-Dibromoethane (EDB)	EPA 8260	<20	ug/L	MQS	02/03/2009
Chlorobenzene	EPA 8260	<10	ug/L	MQS	02/03/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<10	ug/L	MQS	02/03/2009
Ethylbenzene	EPA 8260	<10	ug/L	MQS	02/03/2009
m&p-Xylene	EPA 8260	<20	ug/L	MQS	02/03/2009
o-Xylene	EPA 8260	<10	ug/L	MQS	02/03/2009
Styrene	EPA 8260	<10	ug/L	MQS	02/03/2009
Bromoform	EPA 8260	<20	ug/L	MQS	02/03/2009
Isopropylbenzene	EPA 8260	<10	ug/L	MQS	02/03/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<10	ug/L	MQS	02/03/2009
1,2,3-Trichloropropane	EPA 8260	<10	ug/L	MQS	02/03/2009
Bromobenzene	EPA 8260	<10	ug/L	MQS	02/03/2009
N-Propylbenzene	EPA 8260	<10	ug/L	MQS	02/03/2009
2-Chlorotoluene	EPA 8260	<10	ug/L	MQS	02/03/2009
1,3,5-Trimethylbenzene	EPA 8260	<10	ug/L	MQS	02/03/2009
4-Chlorotoluene	EPA 8260	<10	ug/L	MQS	02/03/2009
tert-Butylbenzene	EPA 8260	<10	ug/L	MQS	02/03/2009
1,2,4-Trimethylbenzene	EPA 8260	<10	ug/L	MQS	02/03/2009
sec-Butylbenzene	EPA 8260	<10	ug/L	MQS	02/03/2009
p-Isopropyltoluene	EPA 8260	<10	ug/L	MQS	02/03/2009
1,3-Dichlorobenzene	EPA 8260	<10	ug/L	MQS	02/03/2009
1,4-Dichlorobenzene	EPA 8260	<10	ug/L	MQS	02/03/2009
n-Butylbenzene	EPA 8260	<10	ug/L	MQS	02/03/2009
1,2-Dichlorobenzene	EPA 8260	<10	ug/L	MQS	02/03/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<50	ug/L	MQS	02/03/2009
1,2,4-Trichlorobenzene	EPA 8260	<10	ug/L	MQS	02/03/2009
Hexachlorobutadiene	EPA 8260	<10	ug/L	MQS	02/03/2009
Naphthalene	EPA 8260	<20	ug/L	MQS	02/03/2009
1,2,3-Trichlorobenzene	EPA 8260	<10	ug/L	MQS	02/03/2009
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	95.0	% R	MQS	02/03/2009
***Toluene-D8	EPA 8260	100	% R	MQS	02/03/2009
***4-Bromofluorobenzene	EPA 8260	102	% R	MQS	02/03/2009
Preparation	EPA 5030B	10	CF	MQS	02/03/2009

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Project Name.: **Charbert/Developing RAWP**
Project No.: **03.0032795.16**

Date Received: **02/02/2009**
Date Reported: **02/05/2009**
Work Order No.: **0902-00004**

Sample ID: **TB** Sample No.: **005**

Sample Date: **01/28/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MQS	02/03/2009
Dichlorodifluoromethane	EPA 8260	<2.0	ug/L	MQS	02/03/2009
Chloromethane	EPA 8260	<2.0	ug/L	MQS	02/03/2009
Vinyl Chloride	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Bromomethane	EPA 8260	<2.0	ug/L	MQS	02/03/2009
Chloroethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Trichlorofluoromethane	EPA 8260	<2.0	ug/L	MQS	02/03/2009
Diethylether	EPA 8260	<5.0	ug/L	MQS	02/03/2009
Acetone	EPA 8260	<25	ug/L	MQS	02/03/2009
1,1-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Dichloromethane	EPA 8260	<2.0	ug/L	MQS	02/03/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	ug/L	MQS	02/03/2009
trans-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,1-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
2-Butanone	EPA 8260	<25	ug/L	MQS	02/03/2009
2,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
cis-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Chloroform	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Bromochloromethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Tetrahydrofuran	EPA 8260	<10	ug/L	MQS	02/03/2009
1,1,1-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,1-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Carbon Tetrachloride	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,2-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Benzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Trichloroethene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Bromodichloromethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Dibromomethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
4-Methyl-2-Pentanone	EPA 8260	<25	ug/L	MQS	02/03/2009
cis-1,3-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Toluene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
trans-1,3-Dichloropropene	EPA 8260	<2.0	ug/L	MQS	02/03/2009
1,1,2-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
2-Hexanone	EPA 8260	<25	ug/L	MQS	02/03/2009
1,3-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Tetrachloroethene	EPA 8260	<1.0	ug/L	MQS	02/03/2009

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

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert/Developing RAWP**
Project No.: **03.0032795.16**

Date Received: **02/02/2009**
Date Reported: **02/05/2009**
Work Order No.: **0902-00004**

Sample ID: **TB** Sample No.: **005**

Sample Date: **01/28/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
Dibromochloromethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	ug/L	MQS	02/03/2009
Chlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Ethylbenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
m&p-Xylene	EPA 8260	<2.0	ug/L	MQS	02/03/2009
o-Xylene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Styrene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Bromoform	EPA 8260	<2.0	ug/L	MQS	02/03/2009
Isopropylbenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,2,3-Trichloropropane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Bromobenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
N-Propylbenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
2-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,3,5-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
4-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
tert-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,2,4-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
sec-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
p-Isopropyltoluene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,3-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,4-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
n-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,2-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	ug/L	MQS	02/03/2009
1,2,4-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Hexachlorobutadiene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Naphthalene	EPA 8260	<2.0	ug/L	MQS	02/03/2009
1,2,3-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	93.7	% R	MQS	02/03/2009
***Toluene-D8	EPA 8260	100	% R	MQS	02/03/2009
***4-Bromofluorobenzene	EPA 8260	101	% R	MQS	02/03/2009
Preparation	EPA 5030B	1.0	CF	MQS	02/03/2009

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

Date Analyzed:	2/1/2009	
Volatile Organics	Conc. ug/L	Acceptance Limit
dichlorodifluoromethane	< 1.0	< 1.0
chloromethane	< 1.0	< 1.0
vinyl chloride	< 0.5	< 0.5
bromomethane	< 1.0	< 1.0
chloroethane	< 0.5	< 0.5
trichlorofluoromethane	< 1.0	< 1.0
diethyl ether	< 2.0	< 2.0
acetone	< 10	< 10
1,1-dichloroethene	< 0.5	< 0.5
FREON-113	< 1.0	< 1.0
iodomethane	< 0.5	< 0.5
carbon disulfide	< 5.0	< 5.0
dichloromethane	< 1.0	< 1.0
tert-butyl alcohol (TBA)	< 10	< 10
acrylonitrile	< 0.5	< 0.5
methyl-tert-butyl-ether	< 0.5	< 0.5
trans-1,2-dichloroethene	< 0.5	< 0.5
1,1-dichloroethane	< 0.5	< 0.5
di-isopropyl ether (DIPE)	< 1.0	< 1.0
ethyl tert-butyl ether (ETBE)	< 1.0	< 1.0
vinyl acetate	< 10	< 10
2-butanone	< 10	< 10
2,2-dichloropropane	< 0.5	< 0.5
cis-1,2-dichloroethene	< 0.5	< 0.5
chloroform	< 0.5	< 0.5
bromochloromethane	< 0.5	< 0.5
tetrahydrofuran	< 5.0	< 5.0
1,1,1-trichloroethane	< 0.5	< 0.5
1,1-dichloropropene	< 0.5	< 0.5
carbon tetrachloride	< 0.5	< 0.5
1,2-dichloroethane	< 0.5	< 0.5
benzene	< 0.5	< 0.5
tert-amyl methyl ether (TAME)	< 1.0	< 1.0
trichloroethene	< 0.5	< 0.5
1,2-dichloropropane	< 0.5	< 0.5
bromodichloromethane	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50
dibromomethane	< 0.5	< 0.5
4-methyl-2-pentanone	< 10	< 10
cis-1,3-dichloropropene	< 0.5	< 0.5
toluene	< 0.5	< 0.5
trans-1,3-dichloropropene	< 1.0	< 1.0
1,1,2-trichloroethane	< 0.5	< 0.5
2-hexanone	< 10	< 10
1,3-dichloropropane	< 0.5	< 0.5
tetrachloroethene	< 0.5	< 0.5
dibromochloromethane	< 0.5	< 0.5
1,2-dibromoethane (EDB)	< 1.0	< 1.0
chlorobenzene	< 0.5	< 0.5
1,1,1,2-tetrachloroethane	< 0.5	< 0.5
ethylbenzene	< 0.5	< 0.5
1,1,2,2-tetrachloroethane	< 0.5	< 0.5
m&p-xylene	< 1.0	< 1.0
o-xylene	< 0.5	< 0.5
styrene	< 0.5	< 0.5
bromoform	< 1.0	< 1.0
isopropylbenzene	< 0.5	< 0.5
1,2,3-trichloropropane	< 0.5	< 0.5
bromobenzene	< 0.5	< 0.5
n-propylbenzene	< 0.5	< 0.5
2-chlorotoluene	< 0.5	< 0.5
1,3,5-trimethylbenzene	< 0.5	< 0.5
trans-1,4-dichloro-2-butene	< 1.0	< 1.0
4-chlorotoluene	< 0.5	< 0.5
tert-butylbenzene	< 0.5	< 0.5
1,2,4-trimethylbenzene	< 0.5	< 0.5
sec-butylbenzene	< 0.5	< 0.5
p-isopropyltoluene	< 0.5	< 0.5
1,3-dichlorobenzene	< 0.5	< 0.5
1,4-dichlorobenzene	< 0.5	< 0.5
n-butylbenzene	< 0.5	< 0.5
1,2-dichlorobenzene	< 0.5	< 0.5
1,2-dibromo-3-chloropropane	< 2.0	< 2.0
1,2,5-trichlorobenzene	< 0.5	< 0.5
1,2,4-trichlorobenzene	< 0.5	< 0.5
hexachlorobutadiene	< 0.5	< 0.5
naphthalene	< 1.0	< 1.0
1,2,3-trichlorobenzene	< 0.5	< 0.5

Laboratory Control Sample

Date Analyzed:	2/3/2009		
Spike Concentration = 20ug/L	% Recovery	Acceptance Limits	Verdict
dichlorodifluoromethane	133	70-130	out
chloromethane	101	70-130	ok
vinyl chloride	102	80-129	ok
bromomethane	90.0	70-130	ok
chloroethane	96.7	70-130	ok
trichlorofluoromethane	107	70-130	ok
diethyl ether	96.2	70-130	ok
acetone	108	70-130	ok
1,1-dichloroethene	96.6	80-120	ok
FREON-113	100	70-130	ok
iodomethane	101	70-130	ok
carbon disulfide	124	70-130	ok
dichloromethane	100	70-130	ok
tert-butyl alcohol (TBA)	111	70-130	ok
acrylonitrile	87.4	70-130	ok
methyl-tert-butyl-ether	104	70-130	ok
trans-1,2-dichloroethene	99.8	70-130	ok
1,1-dichloroethane	98.2	70-130	ok
di-isopropyl ether (DIPE)	97.5	70-130	ok
ethyl tert-butyl ether (ETBE)	97.4	70-130	ok
vinyl acetate	94.6	70-130	ok
2-butanone	105	70-130	ok
2,2-dichloropropane	103	70-130	ok
cis-1,2-dichloroethene	100	70-130	ok
chloroform	97.3	80-120	ok
bromochloromethane	108	70-130	ok
tetrahydrofuran	121	70-130	ok
1,1,1-trichloroethane	97.4	70-130	ok
1,1-dichloropropene	101	70-130	ok
carbon tetrachloride	103	70-130	ok
1,2-dichloroethane	101	70-130	ok
benzene	97.7	70-130	ok
tert-amyl methyl ether (TAME)	108	70-130	ok
trichloroethene	101	70-130	ok
1,2-dichloropropane	98.8	80-120	ok
bromodichloromethane	104	70-130	ok
1,4-Dioxane	113	70-130	ok
dibromomethane	109	70-130	ok
4-methyl-2-pentanone	104	70-130	ok
cis-1,3-dichloropropene	107	70-130	ok
toluene	98.8	80-120	ok
trans-1,3-dichloropropene	103	70-130	ok
1,1,2-trichloroethane	101	70-130	ok
2-hexanone	108	70-130	ok
1,3-dichloropropane	103	70-130	ok
tetrachloroethene	105	70-130	ok
dibromochloromethane	110	70-130	ok
1,2-dibromoethane (EDB)	107	70-130	ok
chlorobenzene	100	70-130	ok
1,1,1,2-tetrachloroethane	102	70-130	ok
ethylbenzene	99.0	80-120	ok
1,1,2,2-tetrachloroethane	109	70-130	ok
m&p-xylene	98.7	70-130	ok
o-xylene	93.2	70-130	ok
styrene	105	70-130	ok
bromoform	110	70-130	ok
isopropylbenzene	110	70-130	ok
1,2,3-trichloropropane	100	70-130	ok
bromobenzene	104	70-130	ok
n-propylbenzene	101	70-130	ok
2-chlorotoluene	94.0	70-130	ok
1,3,5-trimethylbenzene	98.4	70-130	ok
trans-1,4-dichloro-2-butene	95.9	70-130	ok
4-chlorotoluene	98.0	70-130	ok
tert-butylbenzene	117	70-130	ok
1,2,4-trimethylbenzene	95.1	70-130	ok
sec-butylbenzene	98.7	70-130	ok
p-isopropyltoluene	97.7	70-130	ok
1,3-dichlorobenzene	96.9	70-130	ok
1,4-dichlorobenzene	102	70-130	ok
n-butylbenzene	96.9	70-130	ok
1,2-dichlorobenzene	98.8	70-130	ok
1,2-dibromo-3-chloropropane	110	70-130	ok
1,2,5-trichlorobenzene	106	70-130	ok
1,2,4-trichlorobenzene	110	70-130	ok
hexachlorobutadiene	108	70-130	ok
naphthalene	104	70-130	ok
1,2,3-trichlorobenzene	105	70-130	ok

Laboratory Control Sample Duplicate

2/3/2009			
% Recovery	Acceptance Limits	Verdict	RPD
132	70-130	out	0.57
102	70-130	ok	1.00
103	70-130	ok	0.96
100	70-130	ok	0.54
97.1	70-130	ok	1.41
108	70-130	ok	1.36
94.2	70-130	ok	1.01
97.8	70-130	ok	8.89
95.7	70-130	ok	0.96
108	70-130	ok	0.10
99.8	70-130	ok	1.12
124	70-130	ok	0.08
97.6	70-130	ok	3.39
115	70-130	ok	7.05
99.7	70-130	ok	13.1
96.3	70-130	ok	7.01
99.7	70-130	ok	0.05
95.6	70-130	ok	2.70
95.5	70-130	ok	2.11
98.5	70-130	ok	3.93
93.3	70-130	ok	1.33
98.8	70-130	ok	4.84
100	70-130	ok	2.97
99.3	70-130	ok	0.70
97.5	70-130	ok	0.30
106	70-130	ok	0.49
118	70-130	ok	1.54
97.8	70-130	ok	0.55
100	70-130	ok	0.31
102	70-130	ok	1.24
101	70-130	ok	0.55
97.3	70-130	ok	0.43
104	70-130	ok	1.30
101	70-130	ok	0.18
98.4	70-130	ok	0.68
103	70-130	ok	0.60
112	70-130	ok	0.31
107	70-130	ok	0.73
101	70-130	ok	2.14
100	70-130	ok	1.29
99.8	70-130	ok	0.61
103	70-130	ok	0.36
95.2	70-130	ok	2.49
102	70-130	ok	2.84
98.7	70-130	ok	3.89
103	70-130	ok	1.46
107	70-130	ok	3.50
105	70-130	ok	2.16
98.1	70-130	ok	2.06
101	70-130	ok	1.62
97.6	70-130	ok	1.43
101	70-130	ok	4.81
94.8	70-130	ok	1.89
93.5	70-130	ok	0.33
100	70-130	ok	0.80
110	70-130	ok	0.38
110	70-130	ok	0.37
98.3	70-130	ok	1.84
104	70-130	ok	0.81
98.6	70-130	ok	2.44
93.7	70-130	ok	0.28
98.4	70-130	ok	0.42
98.1	70-130	ok	0.76
98.9	70-130	ok	1.06
117	70-130	ok	0.62
94.7	70-130	ok	0.38
98.8	70-130	ok	0.21
97.8	70-130	ok	0.20
98.5	70-130	ok	0.58
101	70-130	ok	1.18
97.1	70-130	ok	0.92
99.9	70-130	ok	0.27
112	70-130	ok	1.57
109	70-130	ok	1.31
110	70-130	ok	0.04
109	70-130	ok	2.26
104	70-130	ok	0.67
107	70-130	ok	1.24

Surrogates:	Recovery (%)	Acceptance Limits	Surrogates:	Recovery (%)	Acceptance Limits	Verdict	Recovery (%)	Acceptance Limits	Verdict	RPD	Acceptance Limits	Verdict
DIBROMOFLUOROMETHANE	109	70-130	DIBROMOFLUOROMETHANE	103	70-130	ok	106	70-130	ok	2.38	<20	ok
1,2-DICHLOROETHANE-D4	98.1	70-130	1,2-DICHLOROETHANE-D4	107	70-130	ok	108	70-130	ok	1.15	<20	ok
TOLUENE-D8	99.9	70-130	TOLUENE-D8	99.5	70-130	ok	99.6	70-130	ok	0.19	<20	ok
4-BROMOFLUOROBENZENE	99.6	70-130	4-BROMOFLUOROBENZENE	103	70-130	ok	103	70-130	ok	0.40	<20	ok
1,2-DICHLOROBENZENE-D4	102	70-130	1,2-DICHLOROBENZENE-D4	102	70-130	ok	102	70-130	ok	0.39	<20	ok

Instrument: HP GCMS "5"

CHAIN-OF-CUSTODY RECORD

W.O. # 0902-00004
(for lab use only)

Sample I.D.	Date/Time Sampled	Matrix (A-Air, So-Soil, GW-Ground W, SW-Surface W, WW-Waste W, DW-Drinking W, P-Product, Other (specify))	ANALYSIS REQUIRED: EPA 8260	Total # of Cont.	Note #
WR-1	1-30-09 10:00	SW	X	3	1
WR-2	1-30-09 10:20	SW	X	3	1
WR-3	1-30-09 10:30	SW	X	3	1
LAG-5 CHNL	1-30-0911:00	SW	X	3	1
TB	1-28-09 12:00	SW	X	3	1
PRESERVATIVE (Cl - HCl, M-Methanol, N - HNO3, S - H2SO4, Na - NaOH, O - Other)*			a		
CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, T-Teflon, O-Other)*			b		

RELINQUISHED BY: (AFFILIATION) DATE/TIME RECEIVED BY: (AFFILIATION)
2/2/09 1130 Bea Brocon

RELINQUISHED BY: (AFFILIATION) DATE/TIME RECEIVED BY: (AFFILIATION)
Bea Brocon 2/2/09 1235 2/2/09 1300

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) As Soon as possible

PROJECT MANAGER: Steve Stanley EXT: 2740

GZA GeoEnvironmental, Inc.
Labaratory Division

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

TURNAROUND TIME: Standard Rush Days, Approved by

LAB USE:
TEMP. OF COOLER 2.1 °C
Temp Blank
Cooler Air 2.0
2/2/09
1300
(FD)

2/2/09
GZA FILE NO: 03.0032795.16 TASK NO: P.O. NO.

PROJECT Charlestown

LOCATION Alton, Rhode Island

COLLECTOR(S) Steve Stanley

SHEET 1 OF 1

OIL LINE RUPTURE #2

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

Steve Andrus

Project No.: **03.0032795.16**
Work Order No.: **0901-00025**
Date Received: **01/07/2009**
Date Reported: **01/09/2009**

SAMPLE INFORMATION

Date Sampled	Matrix	Laboratory ID	Sample ID
01/05/2009	Solid	0901-00025 001	GP-101 S-2
01/05/2009	Solid	0901-00025 002	GP-102 S-2
01/05/2009	Solid	0901-00025 003	GP-103 S-2
01/05/2009	Solid	0901-00025 004	GP-104 S-2
01/05/2009	Solid	0901-00025 005	GP-105 S-2
01/05/2009	Solid	0901-00025 006	GP-106 S-1
01/05/2009	Solid	0901-00025 007	GP-107 S-1
01/05/2009	Solid	0901-00025 008	GP-108 S-1
01/05/2009	Solid	0901-00025 009	GP-109 S-1
01/05/2009	Solid	0901-00025 010	GP-110 S-1
01/05/2009	Solid	0901-00025 011	GP-111 S-1
01/05/2009	Solid	0901-00025 012	GP-112 S-1
01/05/2009	Solid	0901-00025 013	GP-113 S-1
01/05/2009	Solid	0901-00025 014	GP-114 S-2
01/05/2009	Solid	0901-00025 015	GP-115 S-1
01/05/2009	Solid	0901-00025 016	GP-116 S-1
01/05/2009	Solid	0901-00025 017	GP-117 S-1
01/05/2009	Solid	0901-00025 018	GP-117 S-2
01/05/2009	Solid	0901-00025 019	GP-118 S-2
01/05/2009	Solid	0901-00025 020	Bot. Ex-1
01/05/2009	Solid	0901-00025 021	Bot. Ex-2
01/05/2009	Solid	0901-00025 022	CNTR BNKR

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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Steve Andrus

Project Name.: **Charbert/Developing RAWP**
Project No.: **03.0032795.16**

Date Received: **01/07/2009**
Date Reported: **01/09/2009**
Work Order No.: **0901-00025**

PROJECT NARRATIVE:

1. Sample Receipt

The samples were received on 01/07/09 via _x_GZA courier, __EC, __FEDEX, or ___hand delivered. The temperature of the __temperature blank/_x_cooler air, was 3.8 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. Total Petroleum Hydrocarbons

* The diluted out surrogate recoveries are due to interference from the type and concentration of petroleum present in the sample.

Hydrocarbon Fingerprint was requested on five samples.

GP-104 S-2: The low concentration of petroleum hydrocarbons in this sample do not permit a definitive fingerprint determination. A qualified identification for sample GP-104 S-2 is of a petroleum product in the boiling range of very weathered fuel oil #2/diesel, or cutting/machine oil.

GP-115 S-1: The characteristics of the chromatogram for sample GP-115 S-1 indicate the presence of a petroleum product in the boiling range of fuel oil #2/diesel. The phytane/ n-C18 ratio indicates that weathering has occurred.

GP-117 S-1: The characteristics of the chromatogram for sample GP-117 S-1 indicate the presence of a petroleum product in the boiling range of fuel oil #2/diesel. The phytane/ n-C18 ratio indicates that weathering has occurred.

GP-117 S-2: The characteristics of the chromatogram for sample GP-117 S-2 indicate the presence of a petroleum product in the boiling range of fuel oil #2/diesel. The phytane/ n-C18 ratio indicates that weathering has occurred.

CNTR BNKR: The characteristics of the chromatogram for sample CNTR BNKR indicate the presence of a petroleum product in the boiling range of fuel oil #2/diesel. The phytane/ n-C18 ratio indicates that weathering has occurred.

In addition, the chromatogram for sample GP-114 S-2 indicates hydrocarbon content >75% organosiloxanes.

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Steve Andrus

Project Name.:	**Charbert/Developing RAWP**	Date Received:	**01/07/2009**
Project No.:	**03.0032795.16**	Date Reported:	**01/09/2009**
		Work Order No.:	**0901-00025**

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.

The laboratory report shall not be reproduced except in full without the written consent of the laboratory.

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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Date Received: **01/07/2009**
Date Reported: **01/09/2009**
Work Order No.: **0901-00025**

Sample ID: **GP-101 S-2** Sample No.: **001**

Sample Date: **01/05/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
PERCENT SOLID		88.4	%	TAJ	01/08/2009
TOTAL PETROLEUM HYDROCARBON	Mod. EPA 8100			RJD	01/08/2009
Hydrocarbon Content		28	mg/kg	RJD	01/08/2009
Surrogate:					
***p-Terphenyl		52.4	% R	RJD	01/08/2009
Extraction	EPA 3545	1.0	DF	BAC	01/07/2009

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Date Received: **01/07/2009**
Date Reported: **01/09/2009**
Work Order No.: **0901-00025**

Sample ID: **GP-102 S-2**
Sample No.: **002**
Sample Date: **01/05/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
PERCENT SOLID		94.1	%	TAJ	01/08/2009
TOTAL PETROLEUM HYDROCARBON	Mod. EPA 8100			RJD	01/08/2009
Hydrocarbon Content		140	mg/kg	RJD	01/06/2009
Surrogate:					
***p-Terphenyl		82.1	% R	RJD	01/06/2009
Extraction	EPA 3545	1.0	DF	BAC	01/07/2009

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Date Received: **01/07/2009**
Date Reported: **01/09/2009**
Work Order No.: **0901-00025**

Sample ID: **GP-103 S-2**
Sample No.: **003**
Sample Date: **01/05/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
PERCENT SOLID		83.1	%	TAJ	01/08/2009
TOTAL PETROLEUM HYDROCARBON	Mod. EPA 8100			RJD	01/08/2009
Hydrocarbon Content		44	mg/kg	RJD	01/08/2009
Surrogate:					
***p-Terphenyl		57.9	% R	RJD	01/08/2009
Extraction	EPA 3545	1.0	DF	BAC	01/07/2009

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Date Received: **01/07/2009**
Date Reported: **01/09/2009**
Work Order No.: **0901-00025**

Sample ID: **GP-104 S-2** Sample No.: **004**

Sample Date: **01/05/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
PERCENT SOLID		92.3	%	TAJ	01/08/2009
TOTAL PETROLEUM HYDROCARBON	EPA 8100/8015B			RJD	01/08/2009
Hydrocarbon Content		12	mg/kg	RJD	01/08/2009
Surrogate:	EPA 8100				
***p-Terphenyl		57.0	% R	RJD	01/08/2009
Extraction	EPA 3545	1.0	DF	BAC	01/07/2009

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Date Received: **01/07/2009**
Date Reported: **01/09/2009**
Work Order No.: **0901-00025**

Sample ID: **GP-105 S-2**
Sample No.: **005**
Sample Date: **01/05/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
PERCENT SOLID		91.2	%	TAJ	01/08/2009
TOTAL PETROLEUM HYDROCARBON	Mod. EPA 8100			RJD	01/08/2009
Hydrocarbon Content		<10	mg/kg	RJD	01/08/2009
Surrogate:					
***p-Terphenyl		52.7	% R	RJD	01/08/2009
Extraction	EPA 3545	1.0	DF	BAC	01/07/2009

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Date Received: **01/07/2009**
Date Reported: **01/09/2009**
Work Order No.: **0901-00025**

Sample ID: **GP-106 S-1**
Sample No.: **006**
Sample Date: **01/05/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
PERCENT SOLID		88.1	%	TAJ	01/08/2009
TOTAL PETROLEUM HYDROCARBON	Mod. EPA 8100			RJD	01/08/2009
Hydrocarbon Content		35	mg/kg	RJD	01/08/2009
Surrogate:					
***p-Terphenyl		60.0	% R	RJD	01/08/2009
Extraction	EPA 3545	1.0	DF	BAC	01/07/2009

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Date Received: **01/07/2009**
Date Reported: **01/09/2009**
Work Order No.: **0901-00025**

Sample ID: **GP-107 S-1**
Sample No.: **007**
Sample Date: **01/05/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
PERCENT SOLID		81.6	%	TAJ	01/08/2009
TOTAL PETROLEUM HYDROCARBON	Mod. EPA 8100			RJD	01/08/2009
Hydrocarbon Content		17	mg/kg	RJD	01/08/2009
Surrogate:					
***p-Terphenyl		56.5	% R	RJD	01/08/2009
Extraction	EPA 3545	1.0	DF	BAC	01/07/2009

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Date Received: **01/07/2009**
Date Reported: **01/09/2009**
Work Order No.: **0901-00025**

Sample ID: **GP-108 S-1** Sample No.: **008**

Sample Date: **01/05/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
PERCENT SOLID		77.7	%	TAJ	01/08/2009
TOTAL PETROLEUM HYDROCARBON	Mod. EPA 8100			RJD	01/08/2009
Hydrocarbon Content		16	mg/kg	RJD	01/08/2009
Surrogate:					
***p-Terphenyl		59.3	% R	RJD	01/08/2009
Extraction	EPA 3545	1.0	DF	BAC	01/07/2009

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Date Received: **01/07/2009**
Date Reported: **01/09/2009**
Work Order No.: **0901-00025**

Sample ID: **GP-109 S-1** Sample No.: **009**

Sample Date: **01/05/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
PERCENT SOLID		84.1	%	TAJ	01/08/2009
TOTAL PETROLEUM HYDROCARBON	Mod. EPA 8100			RJD	01/08/2009
Hydrocarbon Content		33	mg/kg	RJD	01/08/2009
Surrogate:					
***p-Terphenyl		60.0	% R	RJD	01/08/2009
Extraction	EPA 3545	1.0	DF	BAC	01/07/2009

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Date Received: **01/07/2009**
Date Reported: **01/09/2009**
Work Order No.: **0901-00025**

Sample ID: **GP-110 S-1**
Sample No.: **010**
Sample Date: **01/05/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
PERCENT SOLID		77.9	%	TAJ	01/08/2009
TOTAL PETROLEUM HYDROCARBON	Mod. EPA 8100			RJD	01/08/2009
Hydrocarbon Content		12	mg/kg	RJD	01/08/2009
Surrogate:					
***p-Terphenyl		61.2	% R	RJD	01/08/2009
Extraction	EPA 3545	1.0	DF	BAC	01/07/2009

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Date Received: **01/07/2009**
Date Reported: **01/09/2009**
Work Order No.: **0901-00025**

Sample ID: **GP-111 S-1**
Sample No.: **011**
Sample Date: **01/05/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
PERCENT SOLID		88.1	%	TAJ	01/08/2009
TOTAL PETROLEUM HYDROCARBON	Mod. EPA 8100			RJD	01/08/2009
Hydrocarbon Content		24	mg/kg	RJD	01/08/2009
Surrogate:					
***p-Terphenyl		63.5	% R	RJD	01/08/2009
Extraction	EPA 3545	1.0	DF	BAC	01/07/2009

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Date Received: **01/07/2009**
Date Reported: **01/09/2009**
Work Order No.: **0901-00025**

Sample ID: **GP-112 S-1** Sample No.: **012**

Sample Date: **01**/05/2009

Test Performed	Method	Results	Units	Tech	Analysis Date
PERCENT SOLID		89.6	%	TAJ	01/08/2009
TOTAL PETROLEUM HYDROCARBON	Mod. EPA 8100			RJD	01/09/2009
Hydrocarbon Content		<10	mg/kg	RJD	01/09/2009
Surrogate:					
***p-Terphenyl		60.6	% R	RJD	01/09/2009
Extraction	EPA 3545	1.0	DF	BAC	01/07/2009

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Date Received: **01/07/2009**
Date Reported: **01/09/2009**
Work Order No.: **0901-00025**

Sample ID: **GP-113 S-1** Sample No.: **013**

Sample Date: **01/05/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
PERCENT SOLID		73.6	%	TAJ	01/08/2009
TOTAL PETROLEUM HYDROCARBON	Mod. EPA 8100			RJD	01/09/2009
Hydrocarbon Content		59	mg/kg	RJD	01/09/2009
Surrogate:					
***p-Terphenyl		58.9	% R	RJD	01/09/2009
Extraction	EPA 3545	1.0	DF	BAC	01/07/2009

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Date Received: **01/07/2009**
Date Reported: **01/09/2009**
Work Order No.: **0901-00025**

Sample ID: **GP-114 S-2**
Sample No.: **014**
Sample Date: **01/05/2009**

Test Performed	Method	Results		Units	Tech	Analysis Date
PERCENT SOLID		89.5		%	TAJ	01/08/2009
TOTAL PETROLEUM HYDROCARBON	Mod. EPA 8100				RJD	01/09/2009
Hydrocarbon Content		2900		mg/kg	RJD	01/09/2009
Surrogate:						
***p-Terphenyl		DO	*	% R	RJD	01/09/2009
Extraction	EPA 3545	10		DF	BAC	01/07/2009

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Date Received: **01/07/2009**
Date Reported: **01/09/2009**
Work Order No.: **0901-00025**

Sample ID: **GP-115 S-1** Sample No.: **015**

Sample Date: **01/05/2009**

Test Performed	Method	Results		Units	Tech	Analysis Date
PERCENT SOLID		92.3		%	TAJ	01/08/2009
TOTAL PETROLEUM HYDROCARBON	EPA 8100/8015B				RJD	01/09/2009
Hydrocarbon Content		11000		mg/kg	RJD	01/09/2009
Surrogate:	EPA 8100					
***p-Terphenyl		DO	*	% R	RJD	01/09/2009
Extraction	EPA 3545	40		DF	BAC	01/07/2009

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Date Received: **01/07/2009**
Date Reported: **01/09/2009**
Work Order No.: **0901-00025**

Sample ID: **GP-116 S-1**
Sample No.: **016**
Sample Date: **01/05/2009**

Test Performed	Method	Results		Units	Tech	Analysis Date
PERCENT SOLID		91.1		%	TAJ	01/08/2009
TOTAL PETROLEUM HYDROCARBON	Mod. EPA 8100				RJD	01/09/2009
Hydrocarbon Content		9600		mg/kg	RJD	01/09/2009
Surrogate:						
***p-Terphenyl		DO	*	% R	RJD	01/09/2009
Extraction	EPA 3545	10		DF	BAC	01/07/2009

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Date Received: **01/07/2009**
Date Reported: **01/09/2009**
Work Order No.: **0901-00025**

Sample ID: **GP-117 S-1** Sample No.: **017**

Sample Date: **01/05/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
PERCENT SOLID		88.0	%	TAJ	01/08/2009
TOTAL PETROLEUM HYDROCARBON	EPA 8100/8015B			RJD	01/09/2009
Hydrocarbon Content		600	mg/kg	RJD	01/09/2009
Surrogate:	EPA 8100				
***p-Terphenyl		77.2	% R	RJD	01/09/2009
Extraction	EPA 3545	10	DF	BAC	01/07/2009

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Date Received: **01/07/2009**
Date Reported: **01/09/2009**
Work Order No.: **0901-00025**

Sample ID: **GP-117 S-2** Sample No.: **018**

Sample Date: **01/05/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
PERCENT SOLID		89.3	%	TAJ	01/08/2009
TOTAL PETROLEUM HYDROCARBON	EPA 8100/8015B			RJD	01/09/2009
Hydrocarbon Content		70	mg/kg	RJD	01/09/2009
Surrogate:	EPA 8100				
***p-Terphenyl		74.9	% R	RJD	01/09/2009
Extraction	EPA 3545	1.0	DF	BAC	01/07/2009

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Date Received: **01/07/2009**
Date Reported: **01/09/2009**
Work Order No.: **0901-00025**

Sample ID: **GP-118 S-2** Sample No.: **019**

Sample Date: **01/05/2009**

Test Performed	Method	Results		Units	Tech	Analysis Date
PERCENT SOLID		91.8		%	TAJ	01/08/2009
TOTAL PETROLEUM HYDROCARBON	Mod. EPA 8100				RJD	01/09/2009
Hydrocarbon Content		4400		mg/kg	RJD	01/09/2009
Surrogate:						
***p-Terphenyl		DO	*	% R	RJD	01/09/2009
Extraction	EPA 3545	10		DF	BAC	01/07/2009

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Date Received: **01/07/2009**
Date Reported: **01/09/2009**
Work Order No.: **0901-00025**

Sample ID: **Bot. Ex-1** Sample No.: **020**

Sample Date: **01/05/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
PERCENT SOLID		88.7	%	TAJ	01/08/2009
TOTAL PETROLEUM HYDROCARBON	Mod. EPA 8100			RJD	01/09/2009
Hydrocarbon Content		440	mg/kg	RJD	01/09/2009
Surrogate:					
***p-Terphenyl		62.9	% R	RJD	01/09/2009
Extraction	EPA 3545	1.0	DF	BAC	01/08/2009

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Date Received: **01/07/2009**
Date Reported: **01/09/2009**
Work Order No.: **0901-00025**

Sample ID: **Bot. Ex-2** Sample No.: **021**

Sample Date: **01/05/2009**

Test Performed	Method	Results		Units	Tech	Analysis Date
PERCENT SOLID		90.9		%	TAJ	01/08/2009
TOTAL PETROLEUM HYDROCARBON	Mod. EPA 8100				RJD	01/09/2009
Hydrocarbon Content		3000		mg/kg	RJD	01/09/2009
Surrogate:						
***p-Terphenyl		DO	*	% R	RJD	01/09/2009
Extraction	EPA 3545	10		DF	BAC	01/08/2009

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Project Name.: **Charbert/Developing RAWP**
Project No.: **03.0032795.16**

Date Received: **01/07/2009**
Date Reported: **01/09/2009**
Work Order No.: **0901-00025**

Sample ID: **CNTR BNKR** Sample No.: **022**

Sample Date: **01/05/2009**

Test Performed	Method	Results		Units	Tech	Analysis Date
PERCENT SOLID		90.4		%	TAJ	01/08/2009
TOTAL PETROLEUM HYDROCARBON	Mod. EPA 8100				RJD	01/09/2009
Hydrocarbon Content		3700		mg/kg	RJD	01/09/2009
Surrogate:						
***p-Terphenyl		DO	*	% R	RJD	01/09/2009
Extraction	EPA 3545	20		DF	BAC	01/08/2009
FINGERPRINT UPGRADE	D3328/EPA 8100				RJD	

WHITE COPY - Original YELLOW COPY - Lab Files PINK COPY - Project Manager

W.O. # 0901-00025 (for lab use only)

CHAIN-OF-CUSTODY RECORD

ANALYSES REQUIRED

Sample I.D.	Date/Time (Very Important)	Matrix	pH/Cond	HNU	GC Screen	524.2/502.2	8240/8260/624	8010/601	8020/602	8015	8021	8080 PCB/Pest	8270 PAH	625	PCB Screen	TPH-GC (Mod. 8100)	PHC-Fing	TCLP (Spec. Below)	Filtering	Metals PPM-13/RCRA 8	Metals (List below)	Total # of Cont.	Note #
GP-101 S-2	10:00 01/05/09	S														X						①	
GP-102 S-2	10:15 01/05/09	S														X							
GP-103 S-2	10:30 01/05/09	S														X							
GP-104 S-2	10:45 01/05/09	S														X	X						
GP-105 S-2	11:00															X							
GP-106 S-1	11:15															X							
GP-107 S-1	11:30															X							
GP-108 S-1	12:00															X							
GP-109 S-1	12:15															X							
GP-110 S-1	12:30															X							
GP-111 S-1	12:45															X							
GP-112 S-1	13:00 01/05/09	S														X						①	
PRESERVATIVE (Cl - HCl, N - HNO3, S - H2SO4, Na - NaOH, O - Other)*																							
CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, T-Teflon, O-Other)*																							

RELINQUISHED BY: (Affiliation) [illegible] DATE/TIME 1/7/09 1030 RECEIVED BY: (Affiliation) [illegible]

RELINQUISHED BY: (Affiliation) [illegible] 1/7/09 1215 DATE/TIME RECEIVED BY: (Affiliation) [illegible] 1/7/09 1330

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

PROJECT MANAGER Steve [illegible] EXT. 2740

GZA [illegible] INC.

NOTES: Preservatives, special reporting limits, known contamination, etc.: (Unless otherwise noted, all VOA vials have been preserved w/ 1:1 HCL.)

① Samples may be "Hot" with Fuel Oil

* 5 Day Max - No xtra Charge

TURNAROUND TIME: ☒ Standard ☐ Rush ___ Days, Approved by:

GZA FILE NO. 03.0032795.16 P.O. NO.

3.9 CA 1/7/09 1310

PROJECT Chart [illegible]

LOCATION Alton (Richmond) Rhode Island

COLLECTOR(S) Steve Andrus SHEET 1 OF 2

WHITE COPY - Original YELLOW COPY - Lab Files PINK COPY - Project Manager

CHAIN-OF-CUSTODY RECORD

(for lab use only)

Sample I.D.	Date/Time Sampled (Very Important)	Matrix (A=Air, S=Soil, GW=Ground W., SW=Surface W., WW=Waste W., DW=Drinking W., Other (specify))	WW ONLY	ANALYSIS REQ	Total # of Cont.
GP-113 S-1	13:15 01/05/09	S			①
GP-114 S-2	14:30				
GP-115 S-1	14:45				
GP-116 S-1	15:00				
GP-117 S-1	15:15				
GP-117 S-2	15:15				
GP-118 S-2	15:30 01/05/09	S			
BOT EX-1	15:45	S			
BOT EX-2	15:45	S			
CNTR BNKR	16:00 01/05/09	S			①
PRESERVATIVE (Cl - HCl, M=MeOH, N - HNO3, S - H2SO4, Na - NaOH, O - Other)*					
CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, O-Other)*				G	

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
[signature]	1/7/09 1030	Brian Buscon
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
Brian Buscon	1/7/09 1215	[signature] 1/7/09 1330
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:

NOTES: Preservatives, special reporting limits, known contamination, additional testing parameters, etc.:

① Samples may Be "Hot" with Fuel Oil

* 5 Day Turn - No xtra charge

PROJECT MANAGER: Steve Andrus EXT. 2740

DATA REPORT ☑ PDF (Adobe) ☐ ASCII ☐ EXCEL Specify State

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

LAB USE: TEMP. OF COOLER 3.8 (4.0) °C 1/7/09 1330 (LB)

1/7 03:00

GZA FILE NO: 32795.16 P.O. NO.

PROJECT Market

LOCATION Alton (Richmond) Rhode Island

COLLECTOR(S) Stephen Andrus SHEET 2 OF 2

GZA GeoEnvironmental, Inc.
Engineers and Scientists
106 South Street
Hopkinton, MA 01748
(508) 435-9244
FAX (508) 435-9912

GZAP003

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

Steve Andrus

Project No.: **03.0032795.16**
Work Order No.: **0901-00105**
Date Received: **01/23/2009**
Date Reported: **01/29/2009**

SAMPLE INFORMATION

Date Sampled	Matrix	Laboratory ID	Sample ID
01/22/2009	Solid	0901-00105 001	South SW 3-6ft. BGS
01/22/2009	Solid	0901-00105 002	West SW 3-6ft. BGS
01/22/2009	Solid	0901-00105 003	East SW 3-6ft. BGS
01/22/2009	Solid	0901-00105 004	North SW 3-6ft. BGS

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

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Steve Andrus

Project Name.:	**Charbert/Developing RAWP**	Date Received:	**01/23/2009**
Project No.:	**03.0032795.16**	Date Reported:	**01/29/2009**
		Work Order No.:	**0901-00105**

PROJECT NARRATIVE:

1. Sample Receipt

The samples were received on 01/23/09 via _x_GZA courier, __EC, __FEDEX, or ___hand delivered. The temperature of the __temperature blank/_x_cooler air, was 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. Total Petroleum Hydrocarbons

* The diluted out surrogate recoveries are due to interference from the type and concentration of petroleum present in the sample.

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106 South Street
Hopkinton, MA 01748
(781) 278-4700

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Steve Andrus

Project Name.:	**Charbert/Developing RAWP**	Date Received:	**01/23/2009**
Project No.:	**03.0032795.16**	Date Reported:	**01/29/2009**
		Work Order No.:	**0901-00105**

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.

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

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Steve Andrus

Project Name.: **Charbert/Developing RAWP**
Project No.: **03.0032795.16**

Date Received: **01/23/2009**
Date Reported: **01/29/2009**
Work Order No.: **0901-00105**

Sample ID: **South SW 3-6ft. BGS** Sample No.: **001**

Sample Date: **01/22/2009**

Test Performed	Method	Results		Units	Tech	Analysis Date
PERCENT SOLID		93.1		%	TAJ	01/26/2009
TOTAL PETROLEUM HYDROCARBON	Mod. EPA 8100				RJD	01/27/2009
Hydrocarbon Content		7300		mg/kg	RJD	01/27/2009
Surrogate:						
***p-Terphenyl		DO	*	% R	RJD	01/27/2009
Extraction	EPA 3545	20		DF	BAC	01/26/2009

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

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Steve Andrus

Project Name.: **Charbert/Developing RAWP**
Project No.: **03.0032795.16**

Date Received: **01/23/2009**
Date Reported: **01/29/2009**
Work Order No.: **0901-00105**

Sample ID: **West SW 3-6ft. BGS** Sample No.: **002**

Sample Date: **01/22/2009**

Test Performed	Method	Results		Units	Tech	Analysis Date
PERCENT SOLID		96.3		%	TAJ	01/26/2009
TOTAL PETROLEUM HYDROCARBON	Mod. EPA 8100				RJD	01/27/2009
Hydrocarbon Content		5800		mg/kg	RJD	01/27/2009
Surrogate:						
***p-Terphenyl		DO	*	% R	RJD	01/27/2009
Extraction	EPA 3545	20		DF	BAC	01/26/2009

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

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Steve Andrus

Project Name.: **Charbert/Developing RAWP**
Project No.: **03.0032795.16**

Date Received: **01/23/2009**
Date Reported: **01/29/2009**
Work Order No.: **0901-00105**

Sample ID: **East SW 3-6ft. BGS** Sample No.: **003**

Sample Date: **01/22/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
PERCENT SOLID		88.3	%	TAJ	01/26/2009
TOTAL PETROLEUM HYDROCARBON	Mod. EPA 8100			RJD	01/27/2009
Hydrocarbon Content		48	mg/kg	RJD	01/27/2009
Surrogate:					
***p-Terphenyl		61.0	% R	RJD	01/27/2009
Extraction	EPA 3545	1.0	DF	BAC	01/26/2009

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

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Steve Andrus

Project Name.: **Charbert/Developing RAWP**
Project No.: **03.0032795.16**

Date Received: **01/23/2009**
Date Reported: **01/29/2009**
Work Order No.: **0901-00105**

Sample ID: **North SW 3-6ft. BGS**
Sample No.: **004**
Sample Date: **01/22/2009**

Test Performed	Method	Results		Units	Tech	Analysis Date
PERCENT SOLID		92.7		%	TAJ	01/26/2009
TOTAL PETROLEUM HYDROCARBON	Mod. EPA 8100				RJD	01/27/2009
Hydrocarbon Content		14000		mg/kg	RJD	01/27/2009
Surrogate:						
***p-Terphenyl		DO	*	% R	RJD	01/27/2009
Extraction	EPA 3545	50		DF	BAC	01/26/2009

CHAIN OF CUSTODY RECORD

R.I. Analytical Laboratories, Inc.

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580
Fax: 401-738-1970

131 Coolidge St, Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580
Fax: 978-568-0078

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type[C]	Preservation Code[P]	Matrix Code[M]	TPH Blending	0901-0005
1-22-09	10:30	South SW 3-6' BGS	G	1/a	NP	S	X	
1-22-09	10:30	West SW 3-6' BGS	G	1/a	NP	S	X	
1-22-09	10:30	East SW 3-6' BGS	G	1/a	NP	S	X	
1-22-09	10:30	North SW 3-6' BGS	G	1/a	NP	S	X	
			G					

Client Information

Company Name:	GZA GeoEnvironmental
Address:	530 Broadway
City / State / Zip:	Providence RI 02909
Telephone:	421-2790 Fax:
Contact Person:	Steve Andrus

Project Information

Project Name:	Charlestown
P.O. Number:	Project Number: 32795.16
Report To:	Steve, Todd Ed Phone: Fax:
Sampled by:	Steve
Quote No:	Email report to these addresses: Steve, Todd, Ed

Relinquished By	Date	Time	Received By	Date	Time
	1-23-09	8:12		1-23	8:12
	1-23-09		Brad Burcon	1/23/09	0915
Brad Burcon	11/23/09	1110		11/23/09	1320

Turn Around Time

- [ ] Normal [ ] EMAIL Report
- [x] 5 Business days. Possible surcharge
- [ ] Rush _____ (business days)

Project Comments

Circle if applicable: GW-1, GW-2, GW-3, S-1, S-2, S-3

MCP Data Enhancement QC Package? Yes No

11/23/09 1320

Temp. Upon Receipt 3.9 °C

Lab Use Only

- [ ] Sample Pick Up Only
- [ ] RIAL sampled; attach field hours
- [ ] Shipped on ice

Workorder No: 0910

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SB=$NaHSO_4$, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, O=_____

APPENDIX B

BORING LOGS

GZA GEOENVIRONMENTAL INC.
140 BROADWAY, PROVIDENCE, RHODE ISLAND
GEOTECH/GEOHYDROLOGICAL CONSULTANTS
HYDROLOGICAL BORING LOG

PROJECT	CHARBERT FACILITY
	ALTON, RHODE ISLAND
REPORT OF BORING NO.	GP-101
SHEET	1 OF 1
FILE NO.	32795.16
CHKD BY	EAS

BORING CO.	N.E. GEOTECH	BORING LOCATION	VICINITY OF 10,000 GALLON AST'S
FOREMAN	STEVE PERRY	GROUND SURFACE ELEV.	DATUM
GZA ENGINEER	STEPHEN ANDRUS	DATE START 01/05/08	DATE END 01/05/08

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 5' DIRECT PUSH SAMPLER WITH A DISPOSABLE LINER

CASING: DRIVEN WITH A PNEUMATIC HAMMER

CASING SIZE: 3.25" OTHER:

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME

DPTH (FT)	CASING BLOWS	SAMPLE NO	SAMPLE PEN/REC	SAMPLE DEPTH (FT)	SAMPLE BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
		S-1	60/34	0-5		S-1: Tan, fine to coarse SAND, trace fine Gravel, trace Silt				
									0.0 PPMV	1
5										
		S-2	60/36	5-10		S-2: Tan, fine to coarse SAND, trace fine Gravel, trace Silt			1.7 PPMV	
10						End of Exploration at 10'				
15										
20										
25										
30										
35										

REMARKS:

1. The headspace of soil samples was screened for Total Volatile Organic Compounds (TVOCs) using an OVM Model 580B photoionization detector equipped with a 10.6 eV lamp. ND indicates reading below the instruments detection limit of approximately 1 ppmv.
2. Approximate 6' Groundwater Table.
3. No soil staining or odor observed.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

GZA GEOENVIRONMENTAL INC.
140 BROADWAY, PROVIDENCE, RHODE ISLAND
GEOTECH/GEOHYDROLOGICAL CONSULTANTS
HYDROLOGICAL BORING LOG

PROJECT	CHARBERT FACILITY
	ALTON, RHODE ISLAND
REPORT OF BORING NO.	GP-102
SHEET	1 OF 1
FILE NO.	32795.16
CHKD BY	EAS

BORING CO.	N.E. GEOTECH	BORING LOCATION	VICINITY OF 10,000 GALLON AST'S
FOREMAN	STEVE PERRY	GROUND SURFACE ELEV.	DATUM
GZA ENGINEER	STEPHEN ANDRUS	DATE START 01/05/08	DATE END 01/05/08

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 5' DIRECT PUSH SAMPLER WITH A DISPOSABLE LINER

CASING: DRIVEN WITH A PNEUMATIC HAMMER

CASING SIZE: 3.25" OTHER:

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME

DPTH (FT)	CASING BLOWS	SAMPLE NO	SAMPLE PEN/REC	SAMPLE DEPTH (FT)	SAMPLE BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
		S-1	60/36	0-5		S-1: Tan, fine to coarse SAND, trace fine Gravel, trace Silt			0.0 PPMV	1
5		S-2	60/36	5-10		S-2: Tan, fine to coarse SAND, trace fine Gravel, trace Silt ▽			0.0 PPMV	
10						End of Exploration at 10'				
15										
20										
25										
30										
35										

REMARKS:

1. The headspace of soil samples was screened for Total Volatile Organic Compounds (TVOCs) using an OVM Model 580B photoionization detector equipped with a 10.6 eV lamp. ND indicates reading below the instruments detection limit of approximately 1 ppmv.
2. Approximate 7' Groundwater Table.
3. No soil staining or odor observed.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

GZA GEOENVIRONMENTAL INC.
140 BROADWAY, PROVIDENCE, RHODE ISLAND
GEOTECH/GEOHYDROLOGICAL CONSULTANTS
HYDROLOGICAL BORING LOG

PROJECT	CHARBERT FACILITY
	ALTON, RHODE ISLAND
REPORT OF BORING NO.	GP-103
SHEET	1 OF 1
FILE NO.	32795.16
CHKD BY	EAS

BORING CO.	N.E. GEOTECH	BORING LOCATION	VICINITY OF 10,000 GALLON AST'S
FOREMAN	STEVE PERRY	GROUND SURFACE ELEV.	DATUM
GZA ENGINEER	STEPHEN ANDRUS	DATE START 01/05/08	DATE END 01/05/08

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 5' DIRECT PUSH SAMPLER WITH A DISPOSABLE LINER

CASING: DRIVEN WITH A PNEUMATIC HAMMER

CASING SIZE: 3.25" OTHER:

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME

DPTH (FT)	CASING BLOWS	SAMPLE NO	SAMPLE PEN/REC	SAMPLE DEPTH (FT)	SAMPLE BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
		S-1	60/42	0-5		S-1: Tan, fine to coarse SAND, trace fine Gravel, trace Silt				
									0.0 PPMV	1
5										
		S-2	60/36	5-10		S-2: Brown, fine to coarse SAND, trace fine Gravel, trace Silt			0.0 PPMV	
10						End of Exploration at 10'				
15										
20										
25										
30										
35										

REMARKS:

1. The headspace of soil samples was screened for Total Volatile Organic Compounds (TVOCs) using an OVM Model 580B photoionization detector equipped with a 10.6 eV lamp. ND indicates reading below the instruments detection limit of approximately 1 ppmv.
2. Approximate 7' Groundwater Table.
3. No soil staining or odor observed.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

GZA GEOENVIRONMENTAL INC.
140 BROADWAY, PROVIDENCE, RHODE ISLAND
GEOTECH/GEOHYDROLOGICAL CONSULTANTS
HYDROLOGICAL BORING LOG

PROJECT	CHARBERT FACILITY
	ALTON, RHODE ISLAND
REPORT OF BORING NO.	GP-104
SHEET	1 OF 1
FILE NO.	32795.16
CHKD BY	EAS

BORING CO.	N.E. GEOTECH	BORING LOCATION	VICINITY OF 10,000 GALLON AST'S
FOREMAN	STEVE PERRY	GROUND SURFACE ELEV.	DATUM
GZA ENGINEER	STEPHEN ANDRUS	DATE START 01/05/08	DATE END 01/05/08

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 5' DIRECT PUSH SAMPLER WITH A DISPOSABLE LINER

CASING: DRIVEN WITH A PNEUMATIC HAMMER

CASING SIZE: 3.25" OTHER:

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME

DPTH (FT)	CASING BLOWS	SAMPLE NO	SAMPLE PEN/REC	SAMPLE DEPTH (FT)	SAMPLE BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
		S-1	60/42	0-5		S-1: Tan, fine to coarse SAND, trace fine Gravel, trace Silt.				
									0.0 PPMV	1
5										
		S-2	60/36	5-10		S-2: Gray, fine to coarse SAND, trace fine Gravel, trace Silt, Petroleum stain.			0.0 PPMV	
10						End of Exploration at 10'				
15										
20										
25										
30										
35										

REMARKS:

1. The headspace of soil samples was screened for Total Volatile Organic Compounds (TVOCs) using an OVM Model 580B photoionization detector equipped with a 10.6 eV lamp. ND indicates reading below the instruments detection limit of approximately 1 ppmv.
2. Approximate 4' Groundwater Table.
3. Petroleum stain and odor below groundwater table.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

GZA GEOENVIRONMENTAL INC.
140 BROADWAY, PROVIDENCE, RHODE ISLAND
GEOTECH/GEOHYDROLOGICAL CONSULTANTS
HYDROLOGICAL BORING LOG

PROJECT	CHARBERT FACILITY
	ALTON, RHODE ISLAND
REPORT OF BORING NO.	GP-105
SHEET	1 OF 1
FILE NO.	32795.16
CHKD BY	EAS

BORING CO.	N.E. GEOTECH	BORING LOCATION	VICINITY OF 10,000 GALLON AST'S
FOREMAN	STEVE PERRY	GROUND SURFACE ELEV.	DATUM
GZA ENGINEER	STEPHEN ANDRUS	DATE START 01/05/08	DATE END 01/05/08

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 5' DIRECT PUSH SAMPLER WITH A DISPOSABLE LINER

CASING: DRIVEN WITH A PNEUMATIC HAMMER

CASING SIZE: 3.25" OTHER:

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME

DPTH (FT)	CASING BLOWS	SAMPLE NO	SAMPLE PEN/REC	SAMPLE DEPTH (FT)	SAMPLE BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
		S-1	60/42	0-5		S-1: Tan, fine to coarse SAND, little Silt				
									0.0 PPMV	1
5										
		S-2	60/48	5-10		S-2: Tan, fine to coarse SAND, trace fine Gravel, trace Silt, Petroleum stain.			0.0 PPMV	
10						End of Exploration at 10'				
15										
20										
25										
30										
35										

REMARKS:

1. The headspace of soil samples was screened for Total Volatile Organic Compounds (TVOCs) using an OVM Model 580B photoionization detector equipped with a 10.6 eV lamp. ND indicates reading below the instruments detection limit of approximately 1 ppmv.
2. Approximate 4' Groundwater Table.
3. Petroleum stain and odor below groundwater table.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

GZA GEOENVIRONMENTAL INC.
140 BROADWAY, PROVIDENCE, RHODE ISLAND
GEOTECH/GEOHYDROLOGICAL CONSULTANTS
HYDROLOGICAL BORING LOG

PROJECT	CHARBERT FACILITY
	ALTON, RHODE ISLAND
REPORT OF BORING NO.	GP-106
SHEET	1 OF 1
FILE NO.	32795.16
CHKD BY	EAS

BORING CO.	N.E. GEOTECH	BORING LOCATION	VICINITY OF 10,000 GALLON AST'S
FOREMAN	STEVE PERRY	GROUND SURFACE ELEV.	DATUM
GZA ENGINEER	STEPHEN ANDRUS	DATE START 01/05/08	DATE END 01/05/08

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 5' DIRECT PUSH SAMPLER WITH A DISPOSABLE LINER

CASING: DRIVEN WITH A PNEUMATIC HAMMER

CASING SIZE: 3.25" OTHER:

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME

DPTH (FT)	CASING BLOWS	SAMPLE NO	SAMPLE PEN/REC	SAMPLE DEPTH (FT)	SAMPLE BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
		S-1	60/48	0-5		S-1: Tan, fine to coarse SAND, little Silt				
									0.0 PPMV	1
5		S-2	60/48	5-10		S-2: Gray, fine to coarse SAND, trace fine Gravel, trace Silt, Petroleum stain			0.0 PPMV	
10						End of Exploration at 10'				
15										
20										
25										
30										
35										

REMARKS:

1. The headspace of soil samples was screened for Total Volatile Organic Compounds (TVOCs) using an OVM Model 580B photoionization detector equipped with a 10.6 eV lamp. ND indicates reading below the instruments detection limit of approximately 1 ppmv.
2. Approximate 4' Groundwater Table.
3. Petroleum stain and odor below groundwater table.
4. At approximately 3.5' black stain observed.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

GZA GEOENVIRONMENTAL INC.
140 BROADWAY, PROVIDENCE, RHODE ISLAND
GEOTECH/GEOHYDROLOGICAL CONSULTANTS
HYDROLOGICAL BORING LOG

PROJECT	CHARBERT FACILITY
	ALTON, RHODE ISLAND
REPORT OF BORING NO.	GP-107
SHEET	1 OF 1
FILE NO.	32795.16
CHKD BY	EAS

BORING CO.	N.E. GEOTECH	BORING LOCATION	VICINITY OF 10,000 GALLON AST'S
FOREMAN	STEVE PERRY	GROUND SURFACE ELEV.	DATUM
GZA ENGINEER	STEPHEN ANDRUS	DATE START 01/05/08	DATE END 01/05/08

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 5' DIRECT PUSH SAMPLER WITH A DISPOSABLE LINER

CASING: DRIVEN WITH A PNEUMATIC HAMMER

CASING SIZE: 3.25" OTHER:

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME

DPTH (FT)	CASING BLOWS	SAMPLE NO	SAMPLE PEN/REC	SAMPLE DEPTH (FT)	SAMPLE BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
		S-1	60/48	0-5		S-1; Tan, fine to coarse SAND, little Silt				
									0.0 PPMV	1
						S-1a: Brown, fine Sand, little Silt. ▽				
5										
		S-2	60/48	5-10		S-2: Gray, fine to coarse SAND, trace fine				
						Gravel, trace Silt, Petroleum stain.			0.0 PPMV	
10										
						End of Exploration at 10'				
15										
20										
25										
30										
35										

REMARKS:

1. The headspace of soil samples was screened for Total Volatile Organic Compounds (TVOCs) using an OVM Model 580B photoionization detector equipped with a 10.6 eV lamp. ND indicates reading below the instruments detection limit of approximately 1 ppmv.
2. Approximate 4' Groundwater Table.
3. Petroleum stain and odor below groundwater table.
4. At approximately 3.5' black stain observed.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

GZA GEOENVIRONMENTAL INC.
140 BROADWAY, PROVIDENCE, RHODE ISLAND
GEOTECH/GEOHYDROLOGICAL CONSULTANTS
HYDROLOGICAL BORING LOG

PROJECT	CHARBERT FACILITY
	ALTON, RHODE ISLAND
REPORT OF BORING NO.	GP-108
SHEET	1 OF 1
FILE NO.	32795.16
CHKD BY	EAS

BORING CO.	N.E. GEOTECH	BORING LOCATION	VICINITY OF 10,000 GALLON AST'S
FOREMAN	STEVE PERRY	GROUND SURFACE ELEV.	DATUM
GZA ENGINEER	STEPHEN ANDRUS	DATE START 01/05/08	DATE END 01/05/08

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 5' DIRECT PUSH SAMPLER WITH A DISPOSABLE LINER

CASING: DRIVEN WITH A PNEUMATIC HAMMER

CASING SIZE: 3.25" OTHER:

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME

DPTH (FT)	CASING BLOWS	SAMPLE NO	SAMPLE PEN/REC	SAMPLE DEPTH (FT)	SAMPLE BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
		S-1	60/48	0-5		S-1: Tan, fine to coarse SAND, little Silt				
									0.0 PPMV	1
						S-1a: Brown fine Sand, little Silt ▽				
5										
		S-2	60/48	5-10		S-2: Gray, fine to coarse SAND, trace fine				
						Gravel, trace Silt, Petroleum stain.			0.0 PPMV	
10										
						End of Exploration at 10'				
15										
20										
25										
30										
35										

REMARKS:

1. The headspace of soil samples was screened for Total Volatile Organic Compounds (TVOCs) using an OVM Model 580B photoionization detector equipped with a 10.6 eV lamp. ND indicates reading below the instruments detection limit of approximately 1 ppmv.
2. Approximate 4' Groundwater Table.
3. Petroleum stain and odor below groundwater table.
4. At approximately 3.5' black stain observed.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

GZA GEOENVIRONMENTAL INC.
140 BROADWAY, PROVIDENCE, RHODE ISLAND
GEOTECH/GEOHYDROLOGICAL CONSULTANTS
HYDROLOGICAL BORING LOG

PROJECT	CHARBERT FACILITY
	ALTON, RHODE ISLAND
REPORT OF BORING NO.	GP-109
SHEET	1 OF 1
FILE NO.	32795.16
CHKD BY	EAS

BORING CO.	N.E. GEOTECH	BORING LOCATION	VICINITY OF 10,000 GALLON AST'S
FOREMAN	STEVE PERRY	GROUND SURFACE ELEV.	DATUM
GZA ENGINEER	STEPHEN ANDRUS	DATE START 01/05/08	DATE END 01/05/08

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 5' DIRECT PUSH SAMPLER WITH A DISPOSABLE LINER

CASING: DRIVEN WITH A PNEUMATIC HAMMER

CASING SIZE: 3.25" OTHER:

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME

DPTH (FT)	CASING BLOWS	SAMPLE NO	SAMPLE PEN/REC	SAMPLE DEPTH (FT)	SAMPLE BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
		S-1	60/48	0-5		S-1: Tan, fine to coarse SAND, little Silt				
									0.0 PPMV	1
						S-1a: Brown fine Sand, little Silt				
5										
		S-2	60/48	5-10		S-2: Gray, fine to coarse SAND, trace fine				
						Gravel, trace Silt, Petroleum stain.			0.0 PPMV	
10										
						End of Exploration at 10'				
15										
20										
25										
30										
35										

REMARKS:

1. The headspace of soil samples was screened for Total Volatile Organic Compounds (TVOCs) using an OVM Model 580B photoionization detector equipped with a 10.6 eV lamp. ND indicates reading below the instruments detection limit of approximately 1 ppmv.
2. Approximate 4' Groundwater Table.
3. Petroleum stain and odor below groundwater table.
4. At approximately 3.5' black stain observed.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

GZA GEOENVIRONMENTAL INC.
140 BROADWAY, PROVIDENCE, RHODE ISLAND
GEOTECH/GEOHYDROLOGICAL CONSULTANTS
HYDROLOGICAL BORING LOG

PROJECT	CHARBERT FACILITY
	ALTON, RHODE ISLAND
REPORT OF BORING NO.	GP-110
SHEET	1 OF 1
FILE NO.	32795.16
CHKD BY	EAS

BORING CO.	N.E. GEOTECH	BORING LOCATION	VICINITY OF 10,000 GALLON AST'S
FOREMAN	STEVE PERRY	GROUND SURFACE ELEV.	DATUM
GZA ENGINEER	STEPHEN ANDRUS	DATE START 01/05/08	DATE END 01/05/08

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 5' DIRECT PUSH SAMPLER WITH A DISPOSABLE LINER

CASING: DRIVEN WITH A PNEUMATIC HAMMER

CASING SIZE: 3.25" OTHER:

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME

DPTH (FT)	CASING BLOWS	SAMPLE NO	SAMPLE PEN/REC	SAMPLE DEPTH (FT)	SAMPLE BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
		S-1	60/48	0-5		S-1: Tan, fine to coarse SAND, little Silt.				
									0.0 PPMV	1
						S-1a: Brown fine Sand, little Silt ▽				
5										
		S-2	60/48	5-10		S-2: Gray, fine to coarse SAND, trace fine				
						Gravel, trace Silt, Petroleum stain.			0.0 PPMV	
10										
						End of Exploration at 10'				
15										
20										
25										
30										
35										

REMARKS:

1. The headspace of soil samples was screened for Total Volatile Organic Compounds (TVOCs) using an OVM Model 580B photoionization detector equipped with a 10.6 eV lamp. ND indicates reading below the instruments detection limit of approximately 1 ppmv.
2. Approximate 4' Groundwater Table.
3. Petroleum stain and odor below groundwater table.
4. At approximately 3.5' black stain observed.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

GZA GEOENVIRONMENTAL INC.
140 BROADWAY, PROVIDENCE, RHODE ISLAND
GEOTECH/GEOHYDROLOGICAL CONSULTANTS
HYDROLOGICAL BORING LOG

PROJECT	CHARBERT FACILITY
	ALTON, RHODE ISLAND
REPORT OF BORING NO.	GP-111
SHEET	1 OF 1
FILE NO.	32795.16
CHKD BY	EAS

BORING CO.	N.E. GEOTECH	BORING LOCATION	VICINITY OF 10,000 GALLON AST'S
FOREMAN	STEVE PERRY	GROUND SURFACE ELEV.	DATUM
GZA ENGINEER	STEPHEN ANDRUS	DATE START 01/05/08	DATE END 01/05/08

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 5' DIRECT PUSH SAMPLER WITH A DISPOSABLE LINER

CASING: DRIVEN WITH A PNEUMATIC HAMMER

CASING SIZE: 3.25" OTHER:

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME

DPTH (FT)	CASING BLOWS	SAMPLE NO	SAMPLE PEN/REC	SAMPLE DEPTH (FT)	SAMPLE BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
		S-1	60/48	0-5		S-1: Tan, fine to coarse SAND, little Silt.				
									0.0 PPMV	1
						S-1a: Brown fine Sand, little Silt. ▽				
5										
		S-2	60/48	5-10		S-2: Gray, fine to coarse SAND, trace fine				
						Gravel, trace Silt, Petroleum stain.			0.0 PPMV	
10										
						End of Exploration at 10'				
15										
20										
25										
30										
35										

REMARKS:

1. The headspace of soil samples was screened for Total Volatile Organic Compounds (TVOCs) using an OVM Model 580B photoionization detector equipped with a 10.6 eV lamp. ND indicates reading below the instruments detection limit of approximately 1 ppmv.
2. Approximate 4' Groundwater Table.
3. Petroleum stain and odor below groundwater table.
4. At approximately 3.5' black stain observed.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

GZA GEOENVIRONMENTAL INC.
140 BROADWAY, PROVIDENCE, RHODE ISLAND
GEOTECH/GEOHYDROLOGICAL CONSULTANTS
HYDROLOGICAL BORING LOG

PROJECT	CHARBERT FACILITY
	ALTON, RHODE ISLAND
REPORT OF BORING NO.	GP-112
SHEET	1 OF 1
FILE NO.	32795.16
CHKD BY	EAS

BORING CO.	N.E. GEOTECH	BORING LOCATION	VICINITY OF 10,000 GALLON AST'S
FOREMAN	STEVE PERRY	GROUND SURFACE ELEV.	DATUM
GZA ENGINEER	STEPHEN ANDRUS	DATE START 01/05/08	DATE END 01/05/08

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 5' DIRECT PUSH SAMPLER WITH A DISPOSABLE LINER

CASING: DRIVEN WITH A PNEUMATIC HAMMER

CASING SIZE: 3.25" OTHER:

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME

DPTH (FT)	CASING BLOWS	SAMPLE NO	SAMPLE PEN/REC	SAMPLE DEPTH (FT)	SAMPLE BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
		S-1	60/48	0-5		S-1: Tan, fine to coarse SAND, little Silt.				
									0.0 PPMV	1
						S-1a: Brown fine Sand, little Silt. ▽				
5										
		S-2	60/48	5-10		S-2: Gray, fine to coarse SAND, trace fine				
						Gravel, trace Silt, Petroleum stain.			0.0 PPMV	
10										
						End of Exploration at 10'				
15										
20										
25										
30										
35										

REMARKS:

1. The headspace of soil samples was screened for Total Volatile Organic Compounds (TVOCs) using an OVM Model 580B photoionization detector equipped with a 10.6 eV lamp. ND indicates reading below the instruments detection limit of approximately 1 ppmv.
2. Approximate 4' Groundwater Table.
4. Petroleum stain and odor below groundwater table.
5. At approximately 3.5' black stain observed.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

GZA GEOENVIRONMENTAL INC.
140 BROADWAY, PROVIDENCE, RHODE ISLAND
GEOTECH/GEOHYDROLOGICAL CONSULTANTS
HYDROLOGICAL BORING LOG

PROJECT	CHARBERT FACILITY
	ALTON, RHODE ISLAND
REPORT OF BORING NO.	GP-113
SHEET	1 OF 1
FILE NO.	32795.16
CHKD BY	EAS

BORING CO.	N.E. GEOTECH	BORING LOCATION	VICINITY OF 10,000 GALLON AST'S
FOREMAN	STEVE PERRY	GROUND SURFACE ELEV.	DATUM
GZA ENGINEER	STEPHEN ANDRUS	DATE START 01/05/08	DATE END 01/05/08

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 5' DIRECT PUSH SAMPLER WITH A DISPOSABLE LINER

CASING: DRIVEN WITH A PNEUMATIC HAMMER

CASING SIZE: 3.25" OTHER:

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME

DPTH (FT)	CASING BLOWS	SAMPLE NO	SAMPLE PEN/REC	SAMPLE DEPTH (FT)	SAMPLE BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
		S-1	60/48	0-5		S-1: Tan, fine to coarse SAND, little Silt.				
									0.0 PPMV	1
						S-1a: Brown fine Sand, little Silt. ▽				
5										
		S-2	60/48	5-10		S-2: Gray, fine to coarse SAND, trace fine				
						Gravel, trace Silt, Petroleum stain.			0.0 PPMV	
10										
						End of Exploration at 10'				
15										
20										
25										
30										
35										

REMARKS:

1. The headspace of soil samples was screened for Total Volatile Organic Compounds (TVOCs) using an OVM Model 580B photoionization detector equipped with a 10.6 eV lamp. ND indicates reading below the instruments detection limit of approximately 1 ppmv.
2. Approximate 4' Groundwater Table.
3. Petroleum stain and odor below groundwater table.
4. At approximately 3.5' black stain observed.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

GZA GEOENVIRONMENTAL INC.
140 BROADWAY, PROVIDENCE, RHODE ISLAND
GEOTECH/GEOHYDROLOGICAL CONSULTANTS
HYDROLOGICAL BORING LOG

PROJECT	CHARBERT FACILITY
	ALTON, RHODE ISLAND
REPORT OF BORING NO.	GP-114
SHEET	1 OF 1
FILE NO.	32795.16
CHKD BY	EAS

BORING CO.	N.E. GEOTECH	BORING LOCATION	REAR BOILER ROOM FLOOR
FOREMAN	STEVE PERRY	GROUND SURFACE ELEV.	DATUM
GZA ENGINEER	STEPHEN ANDRUS	DATE START 01/05/08	DATE END 01/05/08

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 5' DIRECT PUSH SAMPLER WITH A DISPOSABLE LINER

CASING: DRIVEN WITH A PNEUMATIC HAMMER

CASING SIZE: 3.25" OTHER:

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME

DPTH (FT)	CASING BLOWS	SAMPLE NO	SAMPLE PEN/REC	SAMPLE DEPTH (FT)	SAMPLE BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
		S-1	60/48	0-5		S-1: Tan, fine to coarse SAND, little Silt,		Riser		
						6" Layer of black ash.				
									25 PPMV	1
						S-1a: Brown F-M Sand, little Silt.				
5								Filter		
		S-2	60/48	5-10		S-2: Brown, fine to coarse SAND, trace fine		Sand Well		
						Gravel, trace Silt.		Screen	36 PPMV	
10										
						End of Exploration at 10'				
15										
20										
25										
30										
35										

REMARKS:

1. The headspace of soil samples was screened for Total Volatile Organic Compounds (TVOCs) using an OVM Model 580B photoionization detector equipped with a 10.6 eV lamp. ND indicates reading below the instruments detection limit of approximately 1 ppmv.
2. Approximate 5' Groundwater Table.
3. Set 2" PVC well, 5' well screen; 2' riser.
4. Old Petroleum stain and odor below groundwater table.
5. Recent Petroleum stain at ± 5'-7' and gray Petroleum stain at ± 7'-9'..

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

GZA GEOENVIRONMENTAL INC.
140 BROADWAY, PROVIDENCE, RHODE ISLAND
GEOTECH/GEOHYDROLOGICAL CONSULTANTS
HYDROLOGICAL BORING LOG

PROJECT	CHARBERT FACILITY
	ALTON, RHODE ISLAND
REPORT OF BORING NO.	GP-115
SHEET	1 OF 1
FILE NO.	32795.16
CHKD BY	EAS

BORING CO.	N.E. GEOTECH	BORING LOCATION	REAR BOILER ROOM FLOOR
FOREMAN	STEVE PERRY	GROUND SURFACE ELEV.	DATUM
GZA ENGINEER	STEPHEN ANDRUS	DATE START 01/05/08	DATE END 01/05/08

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 5' DIRECT PUSH SAMPLER WITH A DISPOSABLE LINER

CASING: DRIVEN WITH A PNEUMATIC HAMMER

CASING SIZE: 3.25" OTHER:

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME

DPTH (FT)	CASING BLOWS	SAMPLE NO	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
		S-1	60/48	0-5		S-1: Tan, fine to coarse SAND, little Silt		Road Box		
						6" Layer of black ash.		Riser		
									21 PPMV	1
						S-1a: Brown fine to medium Sand, little Silt.		Filter		
5								Sand Well		
		S-2	60/48	5-10		S-2: Brown, fine to coarse SAND, trace fine		Screen		
						Gravel, trace Silt.			42 PPMV	
10										
						End of Exploration at 12'				
15										
20										
25										
30										
35										

REMARKS:

1. The headspace of soil samples was screened for Total Volatile Organic Compounds (TVOCs) using an OVM Model 580B photoionization detector equipped with a 10.6 eV lamp. ND indicates reading below the instruments detection limit of approximately 1 ppmv.
2. Approximate 5' Groundwater Table.
3. Set 2" PVC well, 10' well screen; 2' riser, and aluminum road box
4. Old Petroleum stain and odor below groundwater table.
5. Recent Petroleum stain at ± 5'-7' and gray Petroleum stain at ± 7'-9'..

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

GZA GEOENVIRONMENTAL INC.
140 BROADWAY, PROVIDENCE, RHODE ISLAND
GEOTECH/GEOHYDROLOGICAL CONSULTANTS
HYDROLOGICAL BORING LOG

PROJECT	CHARBERT FACILITY
	ALTON, RHODE ISLAND
REPORT OF BORING NO.	GP-116
SHEET	1 OF 1
FILE NO.	32795.16
CHKD BY	EAS

BORING CO.	N.E. GEOTECH	BORING LOCATION	REAR BOILER ROOM FLOOR
FOREMAN	STEVE PERRY	GROUND SURFACE ELEV.	DATUM
GZA ENGINEER	STEPHEN ANDRUS	DATE START 01/05/08	DATE END 01/05/08

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 5' DIRECT PUSH SAMPLER WITH A DISPOSABLE LINER

CASING: DRIVEN WITH A PNEUMATIC HAMMER

CASING SIZE: 3.25" OTHER:

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME

DPTH (FT)	CASING BLOWS	SAMPLE NO	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
		S-1	60/48	0-5		S-1: Tan, fine to coarse SAND, little Silt				
						6" Layer of black ash.		Riser		
									18 PPMV	1
						S-1a: Brown fine to medium Sand, little Silt.		Filter		
5								Sand / Well		
		S-2	60/48	5-10		S-2: Brown, fine to coarse SAND, trace fine		Screen		
						Gravel, trace Silt.			32 PPMV	
10						End of Exploration at 10'				
15										
20										
25										
30										
35										

REMARKS:

1. The headspace of soil samples was screened for Total Volatile Organic Compounds (TVOCs) using an OVM Model 580B photoionization detector equipped with a 10.6 eV lamp. ND indicates reading below the instruments detection limit of approximately 1 ppmv.
2. Approximate 5' Groundwater Table.
3. Set 2" PVC well, 5' well screen; 2' riser.
4. Old Petroleum stain and odor below groundwater table.
5. Recent Petroleum stain at ± 5'-7' and gray Petroleum stain at ± 7'-9'..

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

GZA GEOENVIRONMENTAL INC.
140 BROADWAY, PROVIDENCE, RHODE ISLAND
GEOTECH/GEOHYDROLOGICAL CONSULTANTS
HYDROLOGICAL BORING LOG

PROJECT	CHARBERT FACILITY
	ALTON, RHODE ISLAND
REPORT OF BORING NO.	GP-117
SHEET	1 OF 1
FILE NO.	32795.16
CHKD BY	EAS

BORING CO.	N.E. GEOTECH	BORING LOCATION	REAR BOILER ROOM FLOOR
FOREMAN	STEVE PERRY	GROUND SURFACE ELEV.	DATUM
GZA ENGINEER	STEPHEN ANDRUS	DATE START 01/05/08	DATE END 01/05/08

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 5' DIRECT PUSH SAMPLER WITH A DISPOSABLE LINER

CASING: DRIVEN WITH A PNEUMATIC HAMMER

CASING SIZE: 3.25" OTHER:

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME

DPTH (FT)	CASING BLOWS	SAMPLE NO	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
		S-1	60/48	0-5		S-1: Tan, fine to coarse SAND, little Silt		Road Box		
						6" Layer of black ash.		Riser		
									36 PPMV	1
						S-1a: Brown fine to medium Sand, little Silt.		Filter		
5								Sand		
		S-2	60/48	5-10		S-2: Brown, fine to coarse SAND, trace fine		Well		
						Gravel, trace Silt.		Screen	58 PPMV	
10										
						End of Exploration at 12'				
15										
20										
25										
30										
35										

REMARKS:

1. The headspace of soil samples was screened for Total Volatile Organic Compounds (TVOCs) using an OVM Model 580B photoionization detector equipped with a 10.6 eV lamp. ND indicates reading below the instruments detection limit of approximately 1 ppmv.
2. Approximate 5' Groundwater Table.
3. Set 2" PVC well, 10' well screen; 2' riser and aluminum road box.
4. Old Petroleum stain and odor below groundwater table.
5. Recent Petroleum stain at ± 5'-7' and gray Petroleum stain at ± 7'-9'..

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

GZA GEOENVIRONMENTAL INC.
140 BROADWAY, PROVIDENCE, RHODE ISLAND
GEOTECH/GEOHYDROLOGICAL CONSULTANTS
HYDROLOGICAL BORING LOG

PROJECT	CHARBERT FACILITY
	ALTON, RHODE ISLAND
REPORT OF BORING NO.	GP-118
SHEET	1 OF 1
FILE NO.	32795.16
CHKD BY	EAS

BORING CO.	N.E. GEOTECH	BORING LOCATION	REAR BOILER ROOM FLOOR
FOREMAN	STEVE PERRY	GROUND SURFACE ELEV.	DATUM
GZA ENGINEER	STEPHEN ANDRUS	DATE START 01/05/08	DATE END 01/05/08

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 5' DIRECT PUSH SAMPLER WITH A DISPOSABLE LINER

CASING: DRIVEN WITH A PNEUMATIC HAMMER

CASING SIZE: 3.25" OTHER:

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME

DPTH (FT)	CASING BLOWS	SAMPLE NO	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
		S-1	60/48	0-5		S-1: Tan, fine to coarse SAND, little Silt		Road Box		
						6" Layer of black ash.		Riser		
									18 PPMV	1
						S-1a: Brown fine to medium Sand, little Silt.		Filter Sand		
5										
		S-2	60/48	5-10		S-2: Brown, fine to coarse SAND, trace fine				
						Gravel, trace Silt.			36 PPMV	
10								Well Screen		
15								Riser		
20										
						End of Exploration at 20'				
25										
30										
35										

REMARKS:

1. The headspace of soil samples was screened for Total Volatile Organic Compounds (TVOCs) using an OVM Model 580B photoionization detector equipped with a 10.6 eV lamp. ND indicates reading below the instruments detection limit of approximately 1 ppmv.
2. Approximate 5' Groundwater Table.
3. Set 1" PVC well, 5' well screen and 10' riser; 5' riser for possible use as a sparge
4. Old Petroleum stain and odor below groundwater table.
5. Recent Petroleum stain at ± 5'-7' and gray Petroleum stain at ± 7'-9'..

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

GZA GEOENVIRONMENTAL INC.
140 BROADWAY, PROVIDENCE, RHODE ISLAND
GEOTECH/GEOHYDROLOGICAL CONSULTANTS

PROJECT
CHARBERT FACILITY
ALTON, RHODE ISLAND

REPORT OF BORING NO. Micro - 1
SHEET 1 OF 1
FILE NO. 32795.16
CHKD BY TRG

BORING CO.	NONE	BORING LOCATION	LAGOON 5
FOREMAN	NONE	GROUND SURFACE ELEV.	42.74' DATUM
GZA ENGINEER	STEPHEN ANDRUS	DATE START	01-20-09 DATE END 01-20-09

SAMPLER: NONE

CASING: NONE

1/2" ID CAST IRON MICRO WELLS DRIVEN BY HAND

CASING SIZE: OTHER 3 3/4" HSA

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME

DPTH (FT)	CASING BLOWS	SAMPLE NO	SAMPLE PEN/REC	SAMPLE DEPTH (FT)	SAMPLE BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
						WATER				
5						Pond Bottom 4'	13' Riser 1/2" ID CI Pipe			
10										
15							2' Screen 1/2" ID	13' 15'		
							CI Pipe			
20										
25										
30										
35										

REMARKS:

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

GZA

BORING NO. Micro - 1

GZA GEOENVIRONMENTAL INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECH/GEOHYDROLOGICAL CONSULTANTS	PROJECT CHARBERT FACILITY ALTON, RHODE ISLAND	REPORT OF BORING NO. Micro - 3 SHEET 1 OF 1 FILE NO. 32795.16 CHKD BY TRG

BORING CO.	NONE	BORING LOCATION	LAGOON 5		
FOREMAN	NONE	GROUND SURFACE ELEV.	42.74'	DATUM	
GZA ENGINEER	STEPHEN ANDRUS	DATE START	01-20-09	DATE END	01-20-09

SAMPLER: NONE

CASING: NONE

1/2" ID CAST IRON MICRO WELLS DRIVEN BY HAND

CASING SIZE: OTHER 3 3/4" HSA

GROUNDWATER READINGS				
DATE	TIME	WATER	CASING	STABILIZATION TIME

DPTH (FT)	CASING BLOWS	SAMPLE NO	SAMPLE PEN/REC	SAMPLE DEPTH (FT)	SAMPLE BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
						WATER				
							8' Riser			
							1/2" ID			
						Pond Bottom 4'	Cl Pipe			
5										
								8'		
							2' Screen			
10							1/2" ID	10'		
							Cl Pipe			
15										
20										
25										
30										
35										

REMARKS:

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

GZA GEOENVIRONMENTAL INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECH/GEOHYDROLOGICAL CONSULTANTS	PROJECT CHARBERT FACILITY ALTON, RHODE ISLAND	REPORT OF BORING NO. Micro - 4 SHEET 1 OF 1 FILE NO. 32795.16 CHKD BY TRG

BORING CO.	NONE	BORING LOCATION	LAGOON 5
FOREMAN	NONE	GROUND SURFACE ELEV. 42.74'	DATUM
GZA ENGINEER	STEPHEN ANDRUS	DATE START 01-20-09	DATE END 01-20-09

SAMPLER: NONE

CASING: NONE

1/2" ID CAST IRON MICRO WELLS DRIVEN BY HAND

CASING SIZE: OTHER 3 3/4" HSA

GROUNDWATER READINGS				
DATE	TIME	WATER	CASING	STABILIZATION TIME

DPTH (FT)	CASING BLOWS	SAMPLE NO	SAMPLE PEN/REC	SAMPLE DEPTH (FT)	SAMPLE BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
						WATER				
5						Pond Bottom 5'	13' Riser			1.
						Soft Soils	1/2" ID CI Pipe			
10										
								13'		
							2' Screen			
15							1/2" ID CI Pipe	15'		
20										
25										
30										
35										

REMARKS:

1. Able to push well by hand through soft soil layer located directly below pond bottom.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

GZA GEOENVIRONMENTAL INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECH/GEOHYDROLOGICAL CONSULTANTS	PROJECT CHARBERT FACILITY ALTON, RHODE ISLAND	REPORT OF BORING NO. Micro - 5 SHEET 1 OF 1 FILE NO. 32795.16 CHKD BY TRG

BORING CO.	NONE	BORING LOCATION	LAGOON 5		
FOREMAN	NONE	GROUND SURFACE ELEV.	42.74'	DATUM	
GZA ENGINEER	STEPHEN ANDRUS	DATE START	01-20-09	DATE END	01-20-09

SAMPLER: NONE

CASING: NONE

1/2" ID CAST IRON MICRO WELLS DRIVEN BY HAND

CASING SIZE: OTHER 3 3/4" HSA

GROUNDWATER READINGS				
DATE	TIME	WATER	CASING	STABILIZATION TIME

DPTH (FT)	CASING BLOWS	SAMPLE NO	SAMPLE PEN/REC	SAMPLE DEPTH (FT)	SAMPLE BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
						WATER				
5						Pond Bottom 5'	9' Riser			1.
						Soft Soils		9'		
10							2' Screen	11'		
15										
20										
25										
30										
35										

REMARKS:

1. Able to push well by hand through soft soil layer located directly below pond bottom.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

GZA GEOENVIRONMENTAL INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECH/GEOHYDROLOGICAL CONSULTANTS	PROJECT CHARBERT FACILITY ALTON, RHODE ISLAND	REPORT OF BORING NO. Micro -6 SHEET 1 OF 1 FILE NO. 32795.16 CHKD BY TRG

BORING CO.	NONE	BORING LOCATION	LAGOON 5
FOREMAN	NONE	GROUND SURFACE ELEV.	42.74' DATUM
GZA ENGINEER	STEPHEN ANDRUS	DATE START	01-20-09 DATE END 01-20-09

SAMPLER: NONE

CASING: NONE

1/2" ID CAST IRON MICRO WELLS DRIVEN BY HAND

CASING SIZE: OTHER 3 3/4" HSA

GROUNDWATER READINGS				
DATE	TIME	WATER	CASING	STABILIZATION TIME

DPTH (FT)	CASING BLOWS	SAMPLE NO	SAMPLE PEN/REC	SAMPLE DEPTH (FT)	SAMPLE BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
						WATER				
5						Pond Bottom 5'	18' Riser			1.
						Soft Soils				
10										
15								18'		
20							2' Screen	20'		
25										
30										
35										

REMARKS:

1. Able to push well by hand through soft soil layer located directly below pond bottom.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

GZA GEOENVIRONMENTAL INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECH/GEOHYDROLOGICAL CONSULTANTS	PROJECT CHARBERT FACILITY ALTON, RHODE ISLAND	REPORT OF BORING NO. Micro - 7 SHEET 1 OF 1 FILE NO. 32795.16 CHKD BY TRG

BORING CO.	NONE	BORING LOCATION	LAGOON 5		
FOREMAN	NONE	GROUND SURFACE ELEV.	42.74'	DATUM	
GZA ENGINEER	STEPHEN ANDRUS	DATE START	01-20-09	DATE END	01-20-09

SAMPLER: NONE

CASING: NONE

1/2" ID CAST IRON MICRO WELLS DRIVEN BY HAND

CASING SIZE: OTHER 3 3/4" HSA

GROUNDWATER READINGS				
DATE	TIME	WATER	CASING	STABILIZATION TIME

DPTH (FT)	CASING BLOWS	SAMPLE NO	SAMPLE PEN/REC	SAMPLE DEPTH (FT)	SAMPLE BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
						WATER				
5						Pond Bottom 5'	13' Riser			
10										
15							2' Screen	13' 15'		
20										
25										
30										
35										

REMARKS:

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

GZA GEOENVIRONMENTAL INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECH/GEOHYDROLOGICAL CONSULTANTS	PROJECT CHARBERT FACILITY ALTON, RHODE ISLAND	REPORT OF BORING NO. Micro - 8 SHEET 1 OF 1 FILE NO. 32795.16 CHKD BY TRG

BORING CO.	NONE	BORING LOCATION	LAGOON 5
FOREMAN	NONE	GROUND SURFACE ELEV. 42.74'	DATUM
GZA ENGINEER	STEPHEN ANDRUS	DATE START 01-20-09	DATE END 01-20-09

SAMPLER: NONE

CASING: NONE

1/2" ID CAST IRON MICRO WELLS DRIVEN BY HAND

CASING SIZE: OTHER 3 3/4" HSA

GROUNDWATER READINGS				
DATE	TIME	WATER	CASING	STABILIZATION TIME

DPTH (FT)	CASING BLOWS	SAMPLE NO	SAMPLE PEN/REC	SAMPLE DEPTH (FT)	SAMPLE BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
						WATER				
							8' Riser			
5						Pond Bottom 5'				
								8'		
10							2' Screen	10'		
15										
20										
25										
30										
35										

REMARKS:

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.