

ASSESSMENT OF POTENTIALLY IMPACTED RESIDENTIAL WELLS

**PRENTER ROAD AREA
BOONE COUNTY, WV**

Triad Engineering Project 04-12-0091

Prepared for:



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1.0 INTRODUCTION

In response to West Virginia Department of Environmental Protection (WVDEP) Purchase Order DEP15223, Triad Engineering, Inc. (Triad) evaluated groundwater quality in the vicinity of Prenter Road in Boone County, WV, for evidence of impacts from human activities. Two domestic wells, identified in our study as DW-25 and DW-26, exhibited the greatest evidence of mine-related impact, primarily due to elevated sulfate concentrations. The wells are located along Hopkins Fork, adjacent to a reclaimed surface mine operation situated on the ridge top to the east, as well as abandoned pre-law underground workings in the Fire Clay seam situated immediately adjacent to the dwellings. Our evaluation concluded that elevated concentrations of sulfate, iron, manganese and aluminum found in these wells may be related to past mining operations at the surface mine or the underground mine. We did not find evidence to support slurry related impacts to groundwater quality at these wells, or any other wells sampled in our study.

A sample from a third domestic well, identified as DW-32, contained lead at a concentration above the maximum contaminant level (MCL). The resident was connected to a public water supply at the time of our study and does not use well water for drinking. However, the homeowner maintained a connection to the well to use for garden and outdoor use. Sample DW-32 contained 0.0338 milligrams per liter (mg/L) total lead, compared to the MCL of 0.0150 mg/L. Lead found in tap water usually comes from the corrosion of plumbing fixtures which can leach significant amounts of lead into water.

In response to the findings of our study, WVDEP requested that Triad further evaluate these three wells to confirm the concentrations of mine-related parameters and lead, and to determine if the elevated concentrations can be linked to mining or other human activities.

2.0 DOMESTIC WELL SAMPLES

As a first step to further evaluate water quality at these locations, Triad planned to collect additional samples from the three domestic wells to supplement the results of the initial sampling and analysis. To evaluate the potential for water-quality effects related to the domestic plumbing systems (piping, fixtures, tanks, etc.), three separate samples were planned at each location. The first sample was to be collected from the domestic source as soon as the water is turned on (no purging of the plumbing system or fixtures). The second sample was to be collected after adequate water has been purged from the system to empty

the pressure tank one time (approximately 10 gallons). The third sample was to be collected after adequate water has been purged from the system to empty the pressure tank three times (approximately 30 gallons). Collecting a number of samples over time at each location was designed to evaluate the effect of purging static water from the plumbing system.

Location DW-32 (Eddie Hall Well) was resampled on March 28, 2012. The location of DW-32 is shown on Figure 1. Samples were collected in accordance with the Sampling and Analysis Plan (SAP) developed for the original Prenter Road study. Three samples were collected according to the methodology described above. These samples were identified as DW-32R1, DW-32R2 and DW-32R3.

Since the time of our previous study, public water has been extended to locations DW-25 and DW-26. Our field crew attempted to resample these locations on April 5, 2012. However, plumbing and electrical connections to these wells have been removed and they cannot be used any longer. Therefore, it was impossible to collect additional samples from these wells.

Public water was first extended upstream along Prenter Road from Seth by the Boone County PSD in 2010. The system is operated and maintained by West Virginia American Water Co. through a contract with Boone County PSD. The initial section of water line extended approximately 4 miles upstream to the community of Nelson. In 2011, an additional 8500 ft. of line was installed and extended almost to Milltown. The existing water line terminated immediately upstream from locations DW-25 and DW-26 at the time of this investigation.

3.0 ENVIRONMENTAL SAMPLES

Because our previous investigation concluded that elevated concentrations of mine-related parameters found in wells DW-25 and DW-26 may have been associated with nearby mining operations, Triad conducted field reconnaissance of the area surrounding the nearby reclaimed surface mine as well as abandoned pre-law underground workings. Triad personnel searched this area for groundwater discharge sites (e.g., mine openings, valley fills, seeps, etc.) to sample and analyze these discharges for comparison to water quality in the two domestic wells. Groundwater discharge was sampled and analyzed in accordance with the SAP developed for the original Prenter Road study. Additionally, Triad collected existing environmental data from WVDEP files, including mine maps, water quality data, geologic information and overburden acid/base analysis.

As a result of our field reconnaissance, five environmental samples were collected in the area surrounding with the reclaimed surface mine. Two samples were collected from two valley fill discharges located within the permitted area (VF-3 and VF-4). These two samples were collected to provide information regarding expected water quality within the valley fill material. The valley fills are not located within the same watershed as wells DW-25 and DW-26, and therefore, are not hydrologically connected to the wells. Major discharge points were not found on the western side of the surface mine adjacent to Prenter Road. Three samples were collected from drainage features located immediately west of the reclaimed surface mine where groundwater first emerged in a quantity sufficient to sample. Locations GW-1 through GW-3 were at an approximate elevation of 1,120 ft. These samples are located within the Prenter hollow watershed. The locations of all environmental samples, as well as the location of DW-25 and DW-26, are shown on Figure 2.

Surface water in the Prenter Road area is drained by Laurel Creek and its tributaries. During our previous evaluation, Triad sampled surface water at several locations within the watershed. Additionally, WVDEP maintains a long term water quality trend station (TS-68) on Hopkins Fork approximately 2.5 miles downstream from locations DW-25 and DW-26. Data from both of these sources was reviewed and was also utilized in the evaluation.

The nearby reclaimed surface mine was permitted as the Orgas No. 2 Mine by Battle Ridge Companies of Charleston, WV (Permit No. S-5004-91). The mine was permitted to remove the Upper, Middle and Lower Five Block seams, which lie along the tops of the ridges in the Prenter Road area. The lower Five Block had been mined previously in a portion of the permit area by underground methods. A cross section of the affected strata (from the permit application) is provided in Figure 3. The lowermost seam mined (Lower Five Block) lies at an elevation of approximately 1,480 ft.

Acid-Base accounting data from the Orgas No. 2 permit application document indicate that portions of the overburden strata contained a deficit of potentially neutralizing material. The application indicates that potentially acid producing material would be isolated within the back-stack material to prevent leaching. The application indicates that the sandstone overlying the Upper Five Block would not be placed into valley fills. Therefore, there was some concern during the permitting process that excess spoil material from the mining operation could produce acidic mine drainage.

It was hoped that samples could also be collected from abandoned underground workings in the Fire Clay seam that are located very near the two domestic wells. The former mine

openings have been regraded and discharge pipes have been installed. However, no discharge was noted from these workings at the time of our investigation. These workings appear to be a part of the former Red Parrot Coal Co. Red Cedar Mines that were operated prior to the Surface Mining Control and Reclamation Act. Because no discharge was available from these adjacent mine openings, we have included laboratory results from a mine in the same seam at a nearby location that was sampled previously by Ackenhiel Engineers and Geologists, Inc. on behalf of the WVDEP Office of Abandoned Mine Lands and Reclamation.

4.0 LABORATORY ANALYSIS

Triad contracted with REI Consultants, Inc. (REIC) of Beaver, WV to analyze the samples that were collected for this study. REIC is an approved WVDEP laboratory and followed appropriate EPA approved laboratory methods when conducting tests on all study samples. Samples were collected in accordance with the SAP developed for the original Prenter Road study. Care was taken to ensure that domestic well samples were collected from a source as close to the well as possible, an unfiltered and/or untreated source, and from the cold water supply. Laboratory reports are provided in the Appendix.

After samples were collected, they were placed into certified pre-cleaned containers supplied by the laboratory. Preservatives were established by the laboratory in accordance with the analytical method. Samples were kept cool (approximately 4 degrees Centigrade) and stored in an iced cooler until delivery to the laboratory. Chain-of-custody forms were sent to the laboratory along with the samples and included the release signature of a Triad representative, sample numbers, analyses requested, and the date and time of sample collection.

Water samples were analyzed for metals referenced in the primary drinking water standards, total and fecal Coliform, all secondary drinking water standards, indicators of mine drainage such as acidity/alkalinity, iron, manganese, aluminum and sulfate, and volatile organic compounds. Also, samples were analyzed for major anions and cations such as calcium, magnesium, sodium, potassium, chloride, carbonate and bicarbonate.

5.0 CONCLUSIONS

Eddie Hall Domestic Well (DW-32)

Representatives from Triad and the WV Department of Health and Human Resources (DHHR), Office of Environmental Health Services collected samples from the Eddie Hall well on March 28, 2012. Bobby Michell of The Sutter Law Firm, PLLC was also present during the sampling. The representative from DHHR collected a sample to determine if coliform bacteria were present in DW-32. Analysis was performed by the DHHR laboratory and determined that coliform bacteria were not present. This finding is consistent with the previous sample collected by Triad on September 28, 2011, during the initial study.

Triad representatives collected three samples in accordance with the methodology discussed above to determine if the concentration of lead measured in the previous sample (collected September 28, 2011) was related to the amount of water flushed from the plumbing system before collecting the sample. The first sample was collected without allowing any water to run before collection (Sample DW-32R1). The second sample was collected after flushing 10 gallons of water from the plumbing system (Sample DW-32R2). The third and final sample was collected after flushing 30 gallons of water from the plumbing system (Sample DW-32R3).

The results of laboratory testing of samples DW-32R1 through DW-32R3 are summarized in Table 1. Based on the results of laboratory analysis, it appears that the concentration of lead measured in the September 28, 2011 sample was related to the amount of water flushed from the plumbing system before collecting the sample. Samples collected from the outside spigot after flushing both 10 gallons and 30 gallons from the plumbing system did not contain any parameters above the applicable drinking water standards. However, the initial sample (no flushing) contained lead at a concentration above the National Primary Drinking Water Standard (primary standard). Lead was present in the initial sample at 0.0188 mg/L, versus the standard of 0.0150 mg/L. Additionally, the initial sample also contained iron at a concentration above the National Secondary Drinking Water Standard (secondary standard). Iron was present in the initial sample at 0.799 mg/L, versus a secondary standard of 0.300 mg/L. No other parameter was present in any sample at a concentration that exceeded the applicable primary or secondary standard. Based on the results of the three step sampling process, it appears that lead was present in the initial sample due to leaching from household or down-well plumbing fittings. Galvanized lead fittings were noted at the outdoor faucet where sample DW-32 and samples DW-32R were collected and can be expected to be present at other locations in the plumbing system and well piping.

Three volatile organic compounds were detected in the initial (no flush) sample at extremely low concentrations, below the Practical Quantitation Limit (PQL). The PQL is the lowest concentration the laboratory can achieve with precision and accuracy. Therefore, compounds detected at concentrations below the PQL are estimated based on the professional judgment of the laboratory and are not actually measured by the laboratory equipment.

Benzene concentration in DW-32R1 was estimated to be 0.0004 mg/L. The primary drinking water standard for benzene is 0.005 mg/L. Acetone was estimated at 0.0093 mg/L and 1,4-dichlorobenzene was estimated at 0.0004 mg/L. Primary standards have not been established for acetone or 1,4-dichlorobenzene. These compounds are all relatively common environmental contaminants that are most likely related to the use of various household products in the vicinity of the outdoor spigot. Benzene is used as an anti-knock compound in gasoline, and acetone is a common paint thinner and solvent, while 1,4-dichlorobenzene is a common ingredient in insecticides and sanitizers. After flushing, these compounds were not detected, indicating they are not present in groundwater at location DW-32. The use of various household products in the vicinity of the outside spigot where the sample was collected probably resulted in the low concentrations of the compounds detected in the initial sample.

Locations DW-25 and DW-26

As discussed above, plumbing and electrical connections to the wells at locations DW-25 and DW-26 were removed prior to our study, and it was impossible to re-sample these wells. However, five environmental samples were collected in the area surrounding a reclaimed surface mine located to the east of the wells on the ridge above Hopkins Fork. Also, we attempted to collect samples from abandoned pre-law mine openings in the Fire Clay seam located immediately adjacent to wells DW-25 and DW-26. However, these mines were not discharging at the time of our investigation. For purposes of comparison, we have included laboratory results from a mine in the same seam that was sampled previously by others. Sample MD-2 was collected by Ackenhiel Engineers and Geologists, Inc. on December 12, 2007 as part of a water line extension feasibility study on behalf of the WVDEP Office of Abandoned Mine Lands and Reclamation.

Triad sampled surface water at several locations within the watershed during our previous evaluation. Additionally, WVDEP maintains a long term water quality trend station (TS-68) on Hopkins Fork approximately 2.5 miles downstream from locations DW-25 and DW-26. Long term data from TS-68 was compiled by Triad and average concentrations of the

measured parameters were calculated and compared to data from our previous study. In general, we found that concentrations of aluminum and manganese in surface water were elevated above the secondary standards in portions of the watershed where the mining activity has taken place. Sulfate and total dissolved solids (in addition to aluminum and manganese) typically exceeded the secondary standard where the greatest amount of mining has taken place. Similarly, long term average concentrations of aluminum and manganese exceeded the secondary standards on Hopkins Fork at TS-68. Sulfate and total dissolved solids were also somewhat elevated, but did not exceed the secondary standard. No other parameters exceeded the drinking water standards at location TS-68.

It appears that wells at locations DW-25 and DW-26 derive their water from the valley bottom bedrock aquifer rather than the shallow alluvial deposits along Hopkins Fork. Groundwater generally flows from the bedrock aquifer into the alluvium. Therefore, it would not be expected that surface water quality would impact groundwater quality at locations DW-25 and DW-26. However, it is possible that failed or improperly seated well casings at these locations could allow infiltration of alluvial groundwater into the well and lead to elevated sulfate concentrations. The presence of elevated iron in the two wells could not be attributed to surface water or alluvial groundwater infiltration, because iron was not elevated in surface water.

Two samples were collected from valley fill discharges at the former Orgas No. 2 mine and three samples were collected from groundwater discharges adjacent to the mine site. The results of laboratory testing of samples VF-3 and VF-4 are summarized in Table 2. Samples VF-3 and VF-4 were collected to provide information regarding the expected water quality within the valley fill material. The valley fills are not located within the same watershed as wells DW-25 and DW-26, and therefore, are not hydrologically connected to the wells. The results of laboratory testing of samples GW-1 through GW-3 are summarized in Table 3.

Laboratory analysis of the environmental samples indicates that samples VF-3, VF-4 and GW-2 are mine-drainage related, and samples GW-1 and GW-3 are more indicative of natural groundwater. Samples VF-3, VF-4 and GW-2 exceeded the primary drinking water standard for beryllium and the secondary standard for sulfate and total dissolved solids, whereas samples GW-1 and GW-3 did not. Sample GW-2 also contained high acidity, similar to the two valley fill discharge samples and unlike samples GW-1 and GW-3. Samples VF-3, VF-4 and GW-2 also exceeded the secondary standard for aluminum and manganese. Sample GW-1 exceeded the secondary standard for iron, while sample GW-3 exceeded the secondary standard for manganese. All environmental samples exceeded the

secondary standard for pH, although samples VF-3, VF-4, GW-2 and GW-3 exhibited very low pH values (approximately 4.5), while sample GW-1 exhibited a pH only slightly below the standard of 6.5. Barium, cadmium, selenium and thallium were present in samples VF-3 and VF-4 at concentrations below the primary drinking water standard. Both selenium and thallium were detected below the PQL. Volatile organic compounds were not detected in any environmental sample.

Results of analysis of sample MD-2, collected previously by Ackenhiel Engineers and Geologists, Inc. on December 12, 2007 on behalf of the WVDEP Office of Abandoned Mine Lands and Reclamation, is also presented on Table 3. Sample MD-2 was collected from an abandoned underground mine in the Fire Clay seam and can reasonably be expected to contain water of similar quality to underground workings adjacent to locations DW-25 and DW-26. Laboratory analysis indicates that MD-2 exceeded the secondary standards for iron and sulfate.

The distribution of major cations and anions in the environmental samples, as well as samples DW-25 and DW-26, were plotted on Piper and Stiff diagrams (Figures 4 through 12). Stiff diagrams portray the distribution of major cation and anion prevalence as a physical shape. Samples associated with mine-related impact are typically skewed to the upper portion of the diagram, exhibiting a strong magnesium sulfate signature. In our previous investigation, samples collected from valley fill discharges plotted very strong magnesium sulfate signatures. Environmental samples VF-3 and VF-4, collected during this investigation, both exhibited this common shape, as did sample GW-2. Samples GW-1 and GW-3 also exhibited magnesium sulfate signatures, but to a much lesser degree. These samples exhibited cation-anion signatures more like shallow groundwater than mine-related drainage. Sample MD-2 exhibited a sodium/potassium-sulfate signature. Stiff diagrams prepared for samples DW-25 and DW-26 indicate calcium-sulfate and calcium-bicarbonate signatures, respectively.

Typically, samples that plot within the upper portion of the Piper diagram are generally associated with mine-related impacts. In our previous investigation, surface water samples, valley fill samples, and most mine drainage and slurry related samples plotted in the upper portion of the Piper diagrams. Samples collected during this investigation followed a pattern similar to that noted above when plotted on Piper diagrams. The two valley fill samples (VF-3 and VF-4) both plotted at the peak of the Piper diagram. Sample GW-2 also plotted in the extreme upper portion of the Piper diagram, while samples GW-1 and GW-3 plotted in the upper portion of the Piper diagram. Sample MD-2 plotted in the lower portion of the

Piper diagram. Samples DW-25 and DW-26 plotted in the center to upper portions of the diagram.

In summary, laboratory analysis of the five environmental samples suggests that the reclaimed surface mine may be impacting groundwater quality to a limited degree in the immediate vicinity of the mine site. However, the impacts do not appear to be of sufficient magnitude or extent to degrade the valley bottom bedrock aquifer where DW-25 and DW-26 are located. The valley fills (VF-3 and VF-4) are located across the groundwater drainage divide from locations DW-25 and DW-26, and therefore, are not hydrologically connected to the wells. Additionally, the lowermost seam mined at the former Orgas No. 2 mine lies at an elevation approximately 650 ft. above the domestic wells

Samples GW-1, GW-2 and GW-3, are located within the same groundwater drainage area as locations DW-25 and DW-26 at an elevation approximately 300 ft. above the domestic wells. Sample GW-2 exhibited mine-related impacts. Sample GW-3, collected in the same general area as GW-2 presented limited evidence of mine-related impact, including low pH and slightly elevated manganese. Sample GW-1, collected from the same area, did not exhibit evidence of mine-related impact. Piper/Stiff diagrams indicate that cation-anion distribution at these locations is different from that observed at DW-25 and DW-26.

Water quality at the abandoned deep mine in the Fire Clay seam (MD-2) was most similar to water previously sampled from locations DW-25 and DW-26. Both iron and sulfate were elevated at MD-2 and at locations DW-25 and DW-26. Piper/Stiff diagrams did not indicate that cation-anion distributions were identical at the locations, but the distributions were more similar than samples representing the reclaimed surface mine. Also, groundwater pooled within the abandoned deep mines lies at an elevation near the valley bottom aquifer, and therefore, has a greater potential to impact water quality within the aquifer. Therefore, it is more likely that water associated with abandoned workings in the Fire Clay seam are impacting water quality at DW-25 and DW-26, than discharge from the Orgas No. 2 surface mine.

6.0 RECOMMENDATIONS

Because plumbing and electrical connections have been removed from the wells at locations DW-25 and DW-26, the residents cannot use this water for any purpose. Also, public water

has been extended to supply these locations since the time of our previous study. Therefore, it appears that no actions are required at these locations.

Public water is also provided at location DW-32. However, the resident has plumbed the well to supply water for outdoor use. Our sampling and analysis detected lead above the drinking water standard in a sample collected immediately from the well with no flushing of the plumbing or pressure tank. Also, very low levels of household chemicals were detected in the same sample. After 10 gallons were flushed from the well and plumbing system, all drinking water parameters were less than the applicable standards. Therefore, we recommend that the resident do not use the well for any purpose until consulting with the appropriate public health officials.

TABLES

Table 1
Eddie Hall Residence - Exterior Hose Bib
Latitude 38.0957, Longitude 81.6315
March 28, 2012

Analyte	Drinking Water Standard	Units	MCL	Sample ID		
				DW-32R1	DW-32R2	DW-32R3
Temperature		C°	NA	19.7	17.5	17.2
pH		SU	6.5-8.5	7.56	7.84	8.01
Conductivity		uS	NA	596	592	554
Aluminum	Secondary	mg/L	0.2	0.008	ND	ND
Antimony	Primary	mg/L	0.006	ND	ND	ND
Arsenic	Primary	mg/L	0.01	ND	ND	ND
Barium	Primary	mg/L	2	0.393	0.372	0.371
Beryllium	Primary	mg/L	0.004	ND	ND	ND
Cadmium	Primary	mg/L	0.005	ND	ND	ND
Calcium		mg/L	NA	5.31	5.12	5.46
Chromium	Primary	mg/L	0.1	ND	ND	ND
Cobalt		mg/L	NA	ND	ND	ND
Copper	Secondary	mg/L	1	0.115	0.0529	0.0343
Iron	Secondary	mg/L	0.3	0.799	0.146	0.11
Lead	Primary	mg/L	0.015	0.0188	0.0054	0.0059
Magnesium		mg/L	NA	1.36	1.29	1.37
Manganese	Secondary	mg/L	0.05	0.011 J	0.007 J	0.006 J
Mercury	Primary	mg/L	0.002	ND	ND	ND
Molybdenum		mg/L	NA	0.0013 J	0.0026 J	0.0021 J
Nickel		mg/L	NA	0.0028 J	ND	ND
Potassium		mg/L	NA	2.02	2.03	2.2
Selenium	Primary	mg/L	0.05	ND	ND	ND
Silver	Secondary	mg/L	0.1	ND	ND	ND
Sodium		mg/L	NA	118	114	124
Strontium		mg/L	NA	0.451	0.431	0.427
Thallium	Primary	mg/L	0.002	ND	ND	ND
Tin		mg/L	NA	ND	ND	ND
Titanium		mg/L	NA	ND	ND	ND
Uranium	Primary	mg/L	0.03	ND	ND	ND
Vanadium		mg/L	NA	ND	ND	ND
Zinc	Secondary	mg/L	5	0.239	0.134	0.094
MBAS	Secondary	mg/L	0.5	ND	ND	ND
Acidity, Total		mg/L	NA	23	9.1 J	8.8 J
Alkalinity, Bicarbonate (As CaCO3)		mg/L	NA	137	131	133
Alkalinity, Carbonate (As CaCO3)		mg/L	NA	ND	ND	ND
Alkalinity, Total (As CaCO3)		mg/L	NA	137	131	133
Chloride	Secondary	mg/L	250	76.5	73	73
Fluoride	Secondary	mg/L	2	0.51	0.58	0.49
Sulfate	Secondary	mg/L	250	ND	ND	ND
Total Dissolved Solids	Secondary	mg/L	500	384	411	404
1,1,1,2-Tetrachloroethane	Primary	mg/L	NA	ND	ND	ND
1,1,1-Trichloroethane	Primary	mg/L	0.2	ND	ND	ND
1,1,2,2-Tetrachloroethane		mg/L	NA	ND	ND	ND
1,1,2-Trichloroethane		mg/L	0.005	ND	ND	ND
1,1-Dichloroethane		mg/L	NA	ND	ND	ND
1,1-Dichloroethene		mg/L	NA	ND	ND	ND
1,1-Dichloropropene		mg/L	NA	ND	ND	ND
1,2,3-Trichlorobenzene		mg/L	NA	ND	ND	ND
1,2,3-Trichloropropane		mg/L	NA	ND	ND	ND
1,2,4-Trichlorobenzene		mg/L	0.07	ND	ND	ND
1,2,4-Trimethylbenzene		mg/L	NA	ND	ND	ND
1,2-Dibromo-3-chloropropane	Primary	mg/L	0.0002	ND	ND	ND
1,2-Dibromoethane	Primary	mg/L	0.005	ND	ND	ND
1,2-Dichlorobenzene		mg/L	NA	ND	ND	ND
1,2-Dichloroethane		mg/L	NA	ND	ND	ND
1,2-Dichloropropane	Primary	mg/L	0.005	ND	ND	ND
1,3,5-Trimethylbenzene		mg/L	NA	ND	ND	ND
1,3-Dichlorobenzene		mg/L	NA	ND	ND	ND

Note: J - Value less than quantitation limit

Table 1						
Eddie Hall Residence - Exterior Hose Bib						
Latitude 38.0957, Longitude 81.6315						
March 28, 2012						
Analyte	Drinking Water Standard	Units	MCL	Sample ID		
				DW-32R1	DW-32R2	DW-32R3
1,3-Dichloropropane		mg/L	NA	ND	ND	ND
1,4-Dichlorobenzene		mg/L	NA	0.0004 J	ND	ND
2,2-Dichloropropane		mg/L	NA	ND	ND	ND
2-Butanone		mg/L	NA	ND	ND	ND
2-Chlorotoluene		mg/L	NA	ND	ND	ND
2-Hexanone		mg/L	NA	ND	ND	ND
4-Chlorotoluene		mg/L	NA	ND	ND	ND
4-Isopropyltoluene		mg/L	NA	ND	ND	ND
4-Methyl-2-pentanone		mg/L	NA	ND	ND	ND
Acetone		mg/L	5500	0.0093 J	ND	ND
Acrolein		mg/L	0.04	ND	ND	ND
Acrylonitrile		mg/L	0.04	ND	ND	ND
Benzene	Primary	mg/L	0.005	0.0004 J	ND	ND
Bromobenzene		mg/L	NA	ND	ND	ND
Bromochloromethane		mg/L	NA	ND	ND	ND
Bromodichloromethane		mg/L	0.18	ND	ND	ND
Bromoform		mg/L	NA	ND	ND	ND
Bromomethane		mg/L	8.7	ND	ND	ND
Carbon disulfide		mg/L	1000	ND	ND	ND
Carbon tetrachloride		mg/L	0.005	ND	ND	ND
Chlorobenzene	Primary	mg/L	0.1	ND	ND	ND
Chloroethane		mg/L	3.9	ND	ND	ND
Chloroform		mg/L	0.17	ND	ND	ND
Chloromethane		mg/L	190	ND	ND	ND
cis-1,2-Dichloroethene		mg/L	NA	ND	ND	ND
cis-1,3-Dichloropropene		mg/L	NA	ND	ND	ND
Dibromochloromethane		mg/L	0.8	ND	ND	ND
Dibromomethane		mg/L	NA	ND	ND	ND
Dichlorodifluoromethane		mg/L	390	ND	ND	ND
Ethylbenzene	Primary	mg/L	0.7	ND	ND	ND
Hexachlorobutadiene		mg/L	0.86	ND	ND	ND
Iodomethane		mg/L	NA	ND	ND	ND
Isopropylbenzene		mg/L	NA	ND	ND	ND
m,p-Xylene		mg/L	NA	ND	ND	ND
Methyl tert-butyl ether		mg/L	17	ND	ND	ND
Methylene chloride		mg/L	5	ND	ND	ND
Naphthalene		mg/L	6.2	ND	ND	ND
n-Butylbenzene		mg/L	61	ND	ND	ND
n-Propylbenzene		mg/L	370	ND	ND	ND
o-Xylene		mg/L	NA	ND	ND	ND
sec-Butylbenzene		mg/L	NA	ND	ND	ND
Styrene		mg/L	NA	ND	ND	ND
tert-Butylbenzene		mg/L	NA	ND	ND	ND
Tetrachloroethene		mg/L	NA	ND	ND	ND
Toluene		mg/L	1	ND	ND	ND
trans-1,2-Dichloroethene		mg/L	NA	ND	ND	ND
trans-1,3-Dichloropropene		mg/L	NA	ND	ND	ND
Trichloroethene		mg/L	NA	ND	ND	ND
Trichlorofluoromethane		mg/L	22	ND	ND	ND
Vinyl acetate		mg/L	410	ND	ND	ND
Vinyl chloride	Primary	mg/L	0.002	ND	ND	ND

Note: J - Value less than quantitation limit

Table 2
Valley Fill Discharge - April 5, 2012
Former Battle Ridge Surface Mine

				38-03-8.5 N	38-03-23.4 N
				81-35-55.1 W	81-35-49.9 W
Analyte	Drinking Water Standard	Units	MCL	Sample ID	
				VF-3	VF-4
Temperature		C ⁰	NA	14.4	14.1
pH		SU	6.5-8.5	4.5	4.5
Conductivity		uS	NA	2870	3167
Aluminum	Secondary	mg/L	0.2	4.48	11.5
Antimony	Primary	mg/L	0.006	ND	ND
Arsenic	Primary	mg/L	0.01	ND	ND
Barium	Primary	mg/L	2	0.0116	0.0110
Beryllium	Primary	mg/L	0.004	0.0108	0.0204
Cadmium	Primary	mg/L	0.005	0.0012	0.0017
Calcium		mg/L	NA	230	258
Chromium	Primary	mg/L	0.1	ND	ND
Cobalt		mg/L	NA	0.312	J 0.564
Copper	Secondary	mg/L	1	0.0178	0.0216
Iron	Secondary	mg/L	0.3	0.152	J ND
Lead		mg/L	0.015	0.0009	J 0.0041
Magnesium		mg/L	NA	329	415
Manganese	Secondary	mg/L	0.05	31.5	45.5
Mercury	Primary	mg/L	0.002	ND	ND
Molybdenum		mg/L	NA	ND	0.0023
Nickel		mg/L	NA	0.499	0.673
Potassium		mg/L	NA	16.5	17.8
Selenium	Primary	mg/L	0.05	0.0034	J 0.0043
Silver	Secondary	mg/L	0.1	ND	ND
Sodium		mg/L	NA	5.89	J 6.68
Strontium		mg/L	NA	0.973	0.867
Thallium	Primary	mg/L	0.002	0.0002	J 0.0005
Tin		mg/L	NA	ND	ND
Titanium		mg/L	NA	0.0226	0.0228
Uranium	Primary	mg/L	0.03	ND	0.0014
Vanadium		mg/L	NA	ND	ND
Zinc	Secondary	mg/L	5	0.472	J 0.952
MBAS	Secondary	mg/L	0.5	ND	ND
Acidity, Total		mg/L	NA	131	114
Alkalinity, Bicarbonate (As CaCO3)		mg/L	NA	1.7	J 1.0
Alkalinity, Carbonate (As CaCO3)		mg/L	NA	ND	ND
Alkalinity, Total (As CaCO3)		mg/L	NA	1.7	J 1.0
Chloride	Secondary	mg/L	250	1.51	2.05
Fluoride	Secondary	mg/L	2	0.46	0.70
Sulfate	Secondary	mg/L	250	1,860	2,110
Total Dissolved Solids	Secondary	mg/L	500	1,900	2,450
1,1,1,2-Tetrachloroethane	Primary	mg/L	NA	ND	ND
1,1,1-Trichloroethane	Primary	mg/L	0.2	ND	ND
1,1,2,2-Tetrachloroethane		mg/L	NA	ND	ND
1,1,2-Trichloroethane		mg/L	0.005	ND	ND
1,1-Dichloroethane		mg/L	NA	ND	ND
1,1-Dichloroethene		mg/L	NA	ND	ND
1,1-Dichloropropene		mg/L	NA	ND	ND
1,2,3-Trichlorobenzene		mg/L	NA	ND	ND
1,2,3-Trichloropropane		mg/L	NA	ND	ND
1,2,4-Trichlorobenzene		mg/L	0.07	ND	ND
1,2,4-Trimethylbenzene		mg/L	NA	ND	ND
1,2-Dibromo-3-chloropropane	Primary	mg/L	0.0002	ND	ND
1,2-Dibromoethane	Primary	mg/L	0.005	ND	ND
1,2-Dichlorobenzene		mg/L	NA	ND	ND
1,2-Dichloroethane		mg/L	NA	ND	ND
1,2-Dichloropropane	Primary	mg/L	0.005	ND	ND
1,3,5-Trimethylbenzene		mg/L	NA	ND	ND
1,3-Dichlorobenzene		mg/L	NA	ND	ND
1,3-Dichloropropane		mg/L	NA	ND	ND
1,4-Dichlorobenzene		mg/L	NA	ND	ND

Note: J - Value less than quantitation limit

Table 2
Valley Fill Discharge - April 5, 2012
Former Battle Ridge Surface Mine

Analyte	Drinking Water Standard	Units	MCL	38-03-8.5 N	38-03-23.4 N
				81-35-55.1 W	81-35-49.9 W
				Sample ID	
				VF-3	VF-4
2,2-Dichloropropane		mg/L	NA	ND	ND
2-Butanone		mg/L	NA	ND	ND
2-Chlorotoluene		mg/L	NA	ND	ND
2-Hexanone		mg/L	NA	ND	ND
4-Chlorotoluene		mg/L	NA	ND	ND
4-Isopropyltoluene		mg/L	NA	ND	ND
4-Methyl-2-pentanone		mg/L	NA	ND	ND
Acetone		mg/L	5500	ND	ND
Acrolein		mg/L	0.04	ND	ND
Acrylonitrile		mg/L	0.04	ND	ND
Benzene	Primary	mg/L	0.005	ND	ND
Bromobenzene		mg/L	NA	ND	ND
Bromochloromethane		mg/L	NA	ND	ND
Bromodichloromethane		mg/L	0.18	ND	ND
Bromoform		mg/L	NA	ND	ND
Bromomethane		mg/L	8.7	ND	ND
Carbon disulfide		mg/L	1000	ND	ND
Carbon tetrachloride		mg/L	0.005	ND	ND
Chlorobenzene	Primary	mg/L	0.1	ND	ND
Chloroethane		mg/L	3.9	ND	ND
Chloroform		mg/L	0.17	ND	ND
Chloromethane		mg/L	190	ND	ND
cis-1,2-Dichloroethene		mg/L	NA	ND	ND
cis-1,3-Dichloropropene		mg/L	NA	ND	ND
Dibromochloromethane		mg/L	0.8	ND	ND
Dibromomethane		mg/L	NA	ND	ND
Dichlorodifluoromethane		mg/L	390	ND	ND
Ethylbenzene	Primary	mg/L	0.7	ND	ND
Hexachlorobutadiene		mg/L	0.86	ND	ND
Iodomethane		mg/L	NA	ND	ND
Isopropylbenzene		mg/L	NA	ND	ND
m,p-Xylene		mg/L	NA	ND	ND
Methyl tert-butyl ether		mg/L	17	ND	ND
Methylene chloride		mg/L	5	ND	ND
Naphthalene		mg/L	6.2	ND	ND
n-Butylbenzene		mg/L	61	ND	ND
n-Propylbenzene		mg/L	370	ND	ND
o-Xylene		mg/L	NA	ND	ND
sec-Butylbenzene		mg/L	NA	ND	ND
Styrene		mg/L	NA	ND	ND
tert-Butylbenzene		mg/L	NA	ND	ND
Tetrachloroethene		mg/L	NA	ND	ND
Toluene		mg/L	1	ND	ND
trans-1,2-Dichloroethene		mg/L	NA	ND	ND
trans-1,3-Dichloropropene		mg/L	NA	ND	ND
Trichloroethene		mg/L	NA	ND	ND
Trichlorofluoromethane		mg/L	22	ND	ND
Vinyl acetate		mg/L	410	ND	ND
Vinyl chloride	Primary	mg/L	0.002	ND	ND

Note: J - Value less than quantitation limit

Table 3
Groundwater Discharge - April 5, 2012
Below Former Battleridge Surface Mine

Analyte	Drinking Water Standard	Units	MCL	38-03-22.75	38-03-17.37	38-03-02.59	38-02-07.72
				81-36-25.15	81-36-30.09	81-36-41.47	81-36-54.15
				Sample ID			
Temperature		C ⁰	NA	10.9	11.5	12.1	NA
pH		SU	6.5-8.5	6.35	4.6	4.75	7
Conductivity		uS	NA	101	1355	360	764
Aluminum	Secondary	mg/L	0.2	0.215	8.94	0.258	ND
Antimony	Primary	mg/L	0.006	ND	ND	ND	NA
Arsenic	Primary	mg/L	0.01	ND	ND	ND	NA
Barium	Primary	mg/L	2	0.0536	0.0182	0.0254	NA
Beryllium	Primary	mg/L	0.004	ND	0.0192	0.0009	J
Cadmium	Primary	mg/L	0.005	ND	0.0020	ND	NA
Calcium		mg/L	NA	4.12	86.3	13.8	28.9
Chromium	Primary	mg/L	0.1	ND	ND	ND	NA
Cobalt		mg/L	NA	ND	0.161	ND	NA
Copper	Secondary	mg/L	1	0.0019	J	0.0099	0.0017
Iron	Secondary	mg/L	0.3	0.328	J	0.031	J
Lead		mg/L	0.015	0.0005	J	0.0006	J
Magnesium		mg/L	NA	7.29	97.2	12.7	10.3
Manganese	Secondary	mg/L	0.05	0.025	J	12.5	0.328
Mercury	Primary	mg/L	0.002	ND	ND	ND	NA
Molybdenum		mg/L	NA	0.0023	J	0.0013	J
Nickel		mg/L	NA	0.0023	J	0.598	0.0265
Potassium		mg/L	NA	1.76	8.46	8.58	5.83
Selenium	Primary	mg/L	0.05	ND	0.0030	J	0.0010
Silver	Secondary	mg/L	0.1	ND	ND	ND	NA
Sodium		mg/L	NA	2.05	3.71	3.72	117
Strontium		mg/L	NA	0.0532	0.561	0.170	NA
Thallium	Primary	mg/L	0.002	ND	ND	ND	NA
Tin		mg/L	NA	ND	ND	ND	NA
Titanium		mg/L	NA	0.0026	J	0.0081	0.0014
Uranium	Primary	mg/L	0.03	ND	ND	ND	NA
Vanadium		mg/L	NA	ND	ND	ND	NA
Zinc	Secondary	mg/L	5	0.008	J	0.973	0.049
MBAS	Secondary	mg/L	0.5	ND	ND	ND	NA
Acidity, Total		mg/L	NA	6.3	J	87.3	9.2
Alkalinity, Bicarbonate (As CaCO3)		mg/L	NA	5.5	J	ND	ND
Alkalinity, Carbonate (As CaCO3)		mg/L	NA	ND	ND	ND	ND
Alkalinity, Total (As CaCO3)		mg/L	NA	5.5	J	ND	ND
Chloride	Secondary	mg/L	250	0.82	J	0.71	J
Fluoride	Secondary	mg/L	2	ND	0.78	ND	NA
Sulfate	Secondary	mg/L	250	38.9	738	96.2	255
Total Dissolved Solids	Secondary	mg/L	500	60	1,050	170	NA
1,1,1,2-Tetrachloroethane	Primary	mg/L	NA	ND	ND	ND	NA
1,1,1-Trichloroethane	Primary	mg/L	0.2	ND	ND	ND	NA
1,1,2,2-Tetrachloroethane		mg/L	NA	ND	ND	ND	NA
1,1,2-Trichloroethane		mg/L	0.005	ND	ND	ND	NA
1,1-Dichloroethane		mg/L	NA	ND	ND	ND	NA
1,1-Dichloroethene		mg/L	NA	ND	ND	ND	NA
1,1-Dichloropropene		mg/L	NA	ND	ND	ND	NA
1,2,3-Trichlorobenzene		mg/L	NA	ND	ND	ND	NA
1,2,3-Trichloropropane		mg/L	NA	ND	ND	ND	NA
1,2,4-Trichlorobenzene		mg/L	0.07	ND	ND	ND	NA
1,2,4-Trimethylbenzene		mg/L	NA	ND	ND	ND	NA
1,2-Dibromo-3-chloropropane	Primary	mg/L	0.0002	ND	ND	ND	NA
1,2-Dibromoethane	Primary	mg/L	0.005	ND	ND	ND	NA
1,2-Dichlorobenzene		mg/L	NA	ND	ND	ND	NA
1,2-Dichloroethane		mg/L	NA	ND	ND	ND	NA
1,2-Dichloropropane	Primary	mg/L	0.005	ND	ND	ND	NA
1,3,5-Trimethylbenzene		mg/L	NA	ND	ND	ND	NA
1,3-Dichlorobenzene		mg/L	NA	ND	ND	ND	NA
1,3-Dichloropropane		mg/L	NA	ND	ND	ND	NA
1,4-Dichlorobenzene		mg/L	NA	ND	ND	ND	NA

Note: J - Value less than quantitation limit

Table 3
Groundwater Discharge - April 5, 2012
Below Former Batteridge Surface Mine

Analyte	Drinking Water Standard	Units	MCL	38-03-22.75	38-03-17.37	38-03-02.59	38-02-07.72
				81-36-25.15	81-36-30.09	81-36-41.47	81-36-54.15
				Sample ID			
2,2-Dichloropropane		mg/L	NA	ND	ND	ND	NA
2-Butanone		mg/L	NA	ND	ND	ND	NA
2-Chlorotoluene		mg/L	NA	ND	ND	ND	NA
2-Hexanone		mg/L	NA	ND	ND	ND	NA
4-Chlorotoluene		mg/L	NA	ND	ND	ND	NA
4-Isopropyltoluene		mg/L	NA	ND	ND	ND	NA
4-Methyl-2-pentanone		mg/L	NA	ND	ND	ND	NA
Acetone		mg/L	5500	ND	ND	ND	NA
Acrolein		mg/L	0.04	ND	ND	ND	NA
Acrylonitrile		mg/L	0.04	ND	ND	ND	NA
Benzene	Primary	mg/L	0.005	ND	ND	ND	NA
Bromobenzene		mg/L	NA	ND	ND	ND	NA
Bromochloromethane		mg/L	NA	ND	ND	ND	NA
Bromodichloromethane		mg/L	0.18	ND	ND	ND	NA
Bromoform		mg/L	NA	ND	ND	ND	NA
Bromomethane		mg/L	8.7	ND	ND	ND	NA
Carbon disulfide		mg/L	1000	ND	ND	ND	NA
Carbon tetrachloride		mg/L	0.005	ND	ND	ND	NA
Chlorobenzene	Primary	mg/L	0.1	ND	ND	ND	NA
Chloroethane		mg/L	3.9	ND	ND	ND	NA
Chloroform		mg/L	0.17	ND	ND	ND	NA
Chloromethane		mg/L	190	ND	ND	ND	NA
cis-1,2-Dichloroethene		mg/L	NA	ND	ND	ND	NA
cis-1,3-Dichloropropene		mg/L	NA	ND	ND	ND	NA
Dibromochloromethane		mg/L	0.8	ND	ND	ND	NA
Dibromomethane		mg/L	NA	ND	ND	ND	NA
Dichlorodifluoromethane		mg/L	390	ND	ND	ND	NA
Ethylbenzene	Primary	mg/L	0.7	ND	ND	ND	NA
Hexachlorobutadiene		mg/L	0.86	ND	ND	ND	NA
Iodomethane		mg/L	NA	ND	ND	ND	NA
Isopropylbenzene		mg/L	NA	ND	ND	ND	NA
m,p-Xylene		mg/L	NA	ND	ND	ND	NA
Methyl tert-butyl ether		mg/L	17	ND	ND	ND	NA
Methylene chloride		mg/L	5	ND	ND	ND	NA
Naphthalene		mg/L	6.2	ND	ND	ND	NA
n-Butylbenzene		mg/L	61	ND	ND	ND	NA
n-Propylbenzene		mg/L	370	ND	ND	ND	NA
o-Xylene		mg/L	NA	ND	ND	ND	NA
sec-Butylbenzene		mg/L	NA	ND	ND	ND	NA
Styrene		mg/L	NA	ND	ND	ND	NA
tert-Butylbenzene		mg/L	NA	ND	ND	ND	NA
Tetrachloroethene		mg/L	NA	ND	ND	ND	NA
Toluene		mg/L	1	ND	ND	ND	NA
trans-1,2-Dichloroethene		mg/L	NA	ND	ND	ND	NA
trans-1,3-Dichloropropene		mg/L	NA	ND	ND	ND	NA
Trichloroethene		mg/L	NA	ND	ND	ND	NA
Trichlorofluoromethane		mg/L	22	ND	ND	ND	NA
Vinyl acetate		mg/L	410	ND	ND	ND	NA
Vinyl chloride	Primary	mg/L	0.002	ND	ND	ND	NA

Note: J - Value less than quantitation limit

FIGURES



31.630000° W 081.620000° W 081.610000° W 081.600000° W 081.590000° W

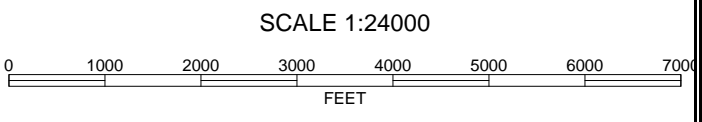
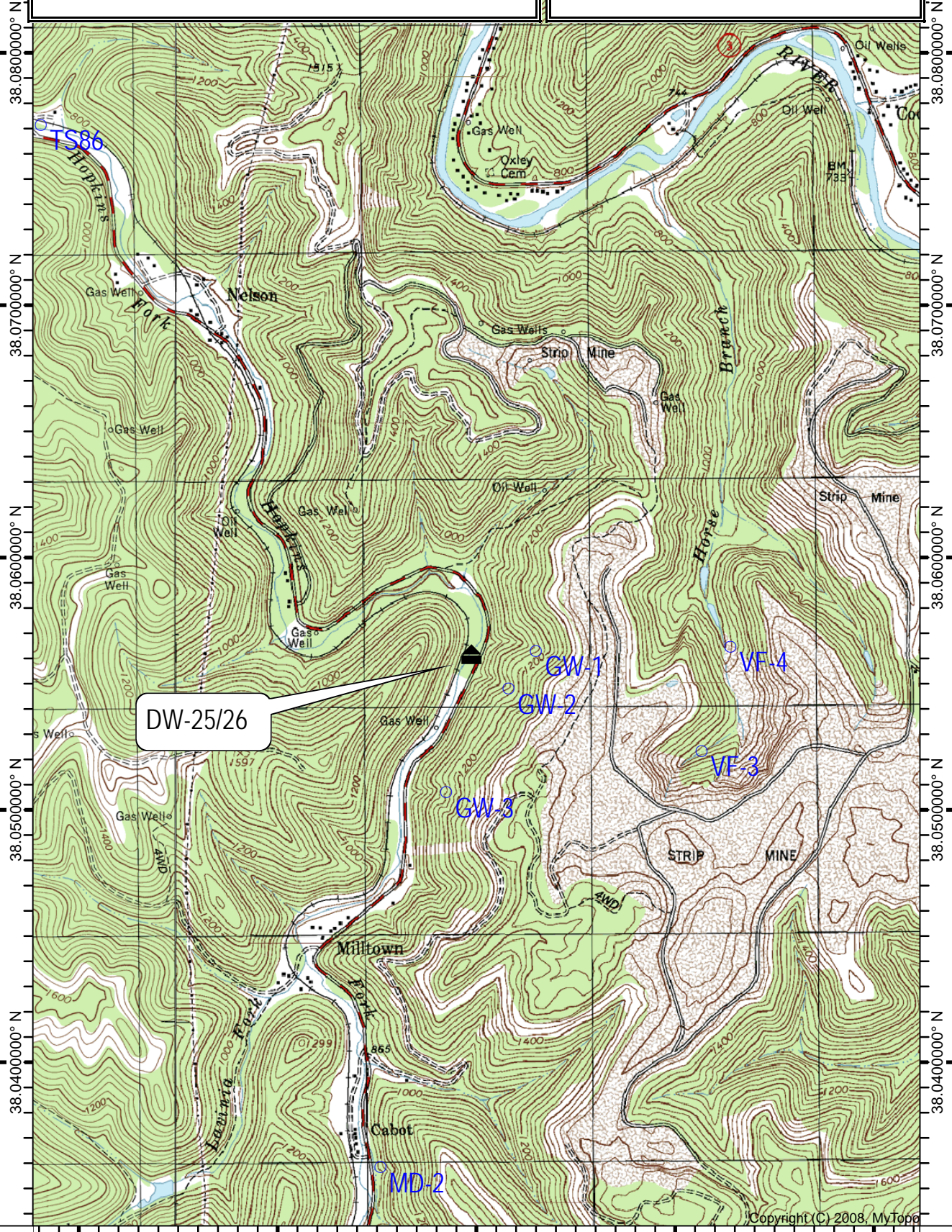
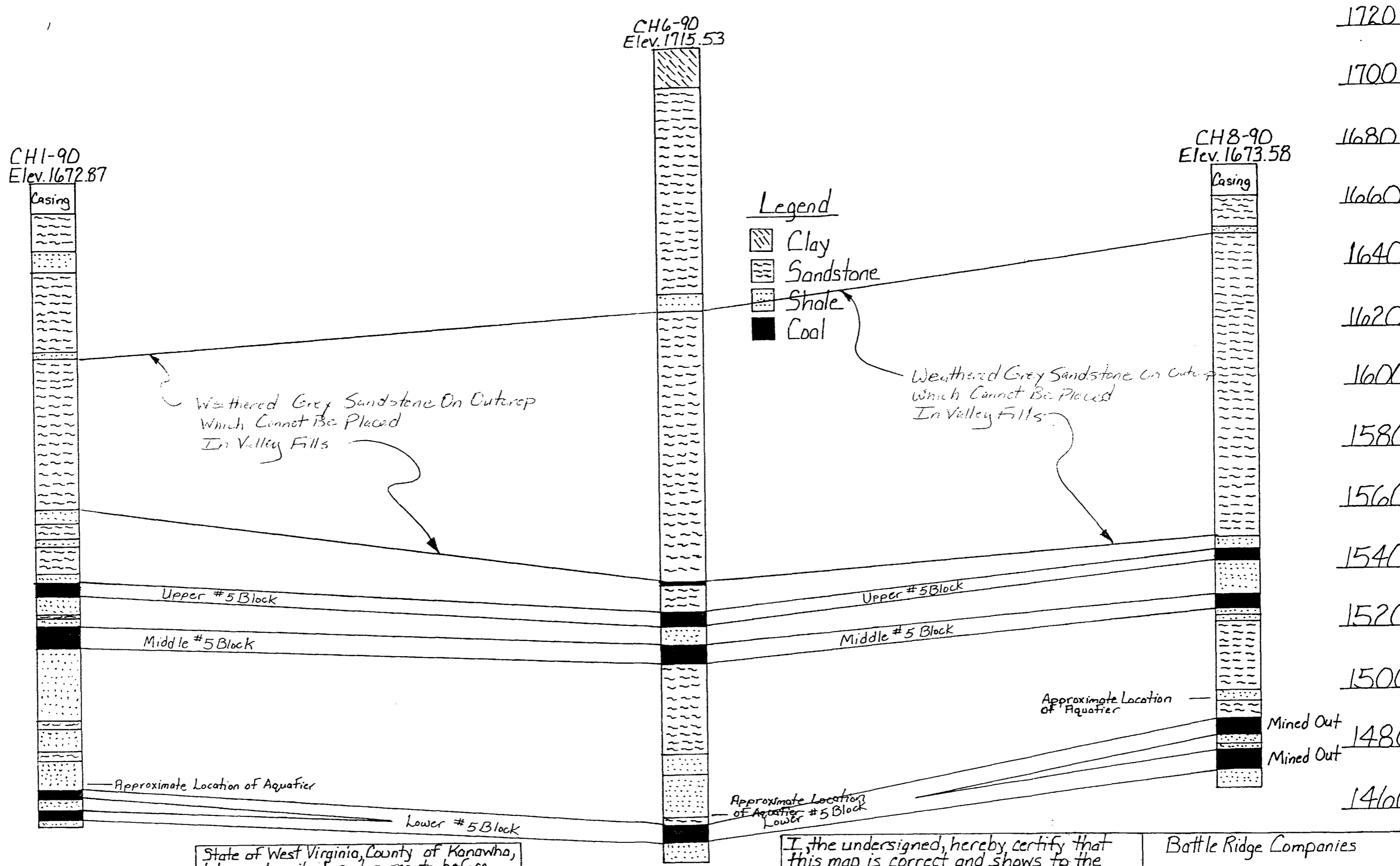


FIGURE 2 - ENVIRONMENTAL SAMPLE LOCATIONS



31.630000° W 081.620000° W 081.610000° W 081.600000° W 081.590000° W



State of West Virginia, County of Kanawha,
taken subscribed and sworn to before
me this 10th day of January
19 91.

Ernie Haas
Signature of Notary Public
My Commission Expires Jan 26, 1992

FIGURE 3. GEOLOGIC CROSS SECTION

I, the undersigned, hereby certify that
this map is correct and shows to the
best of my knowledge and belief all the
information required by the Surface
Mining Laws of this State.

[Signature]
Signature of R.P.E. and Number

SEAL

Battle Ridge Companies
GEOLOGIC CROSS-SECTION
FOR ORGAS NO. 2 MINE
Attachment P-2
Scale: Vert.: 1"=20' December, 1991

Stiff Diagram - GW-1

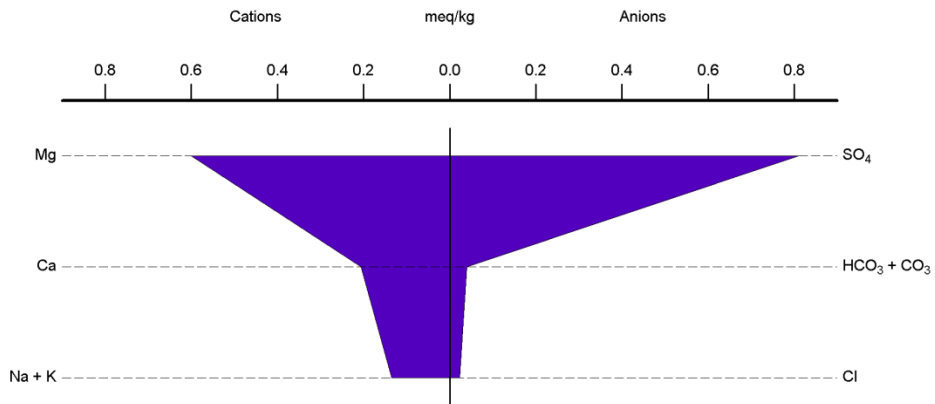


Figure 4

Stiff Diagram - GW-2

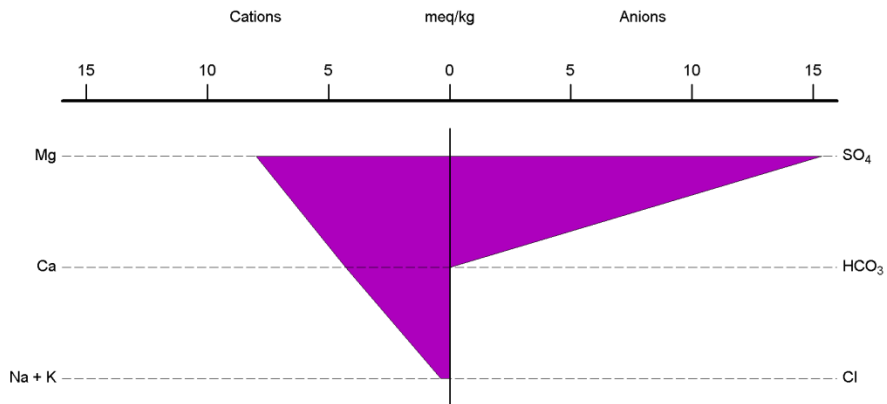


Figure 5

Stiff Diagram - GW-3

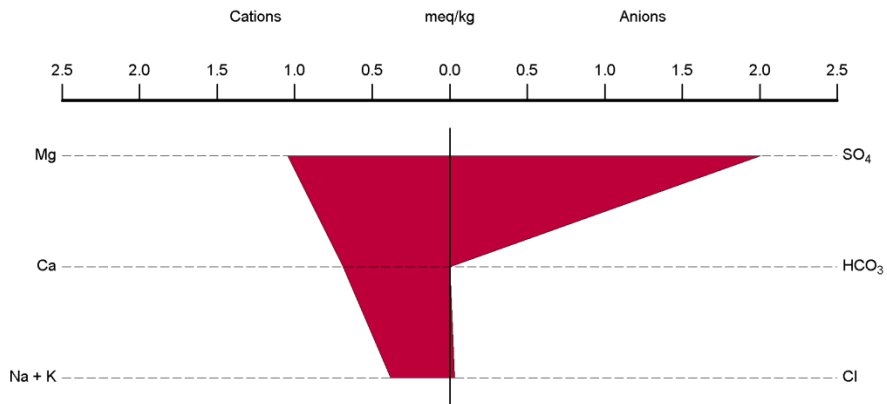


Figure 6

Stiff Diagram - VF-3 Discharge

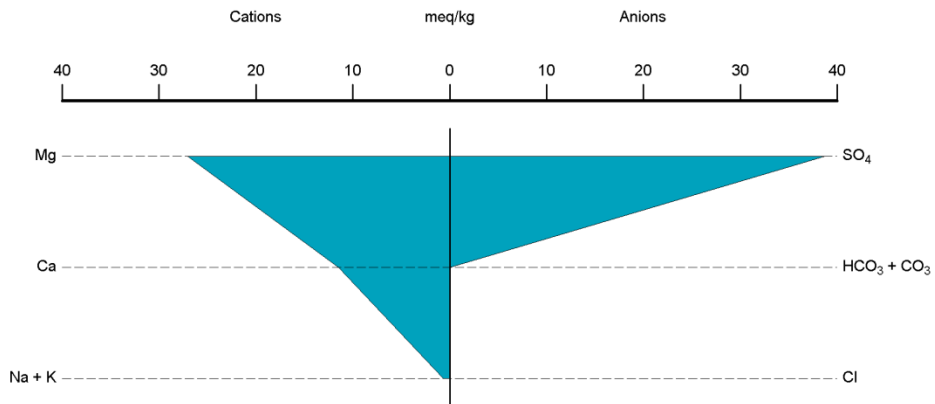


Figure 7

Stiff Diagram - VF-4 Discharge

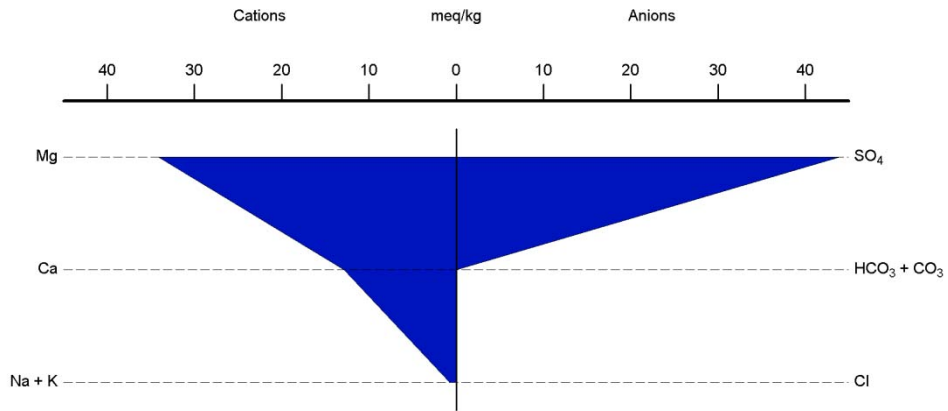


Figure 8

Stiff Diagram - DW-25

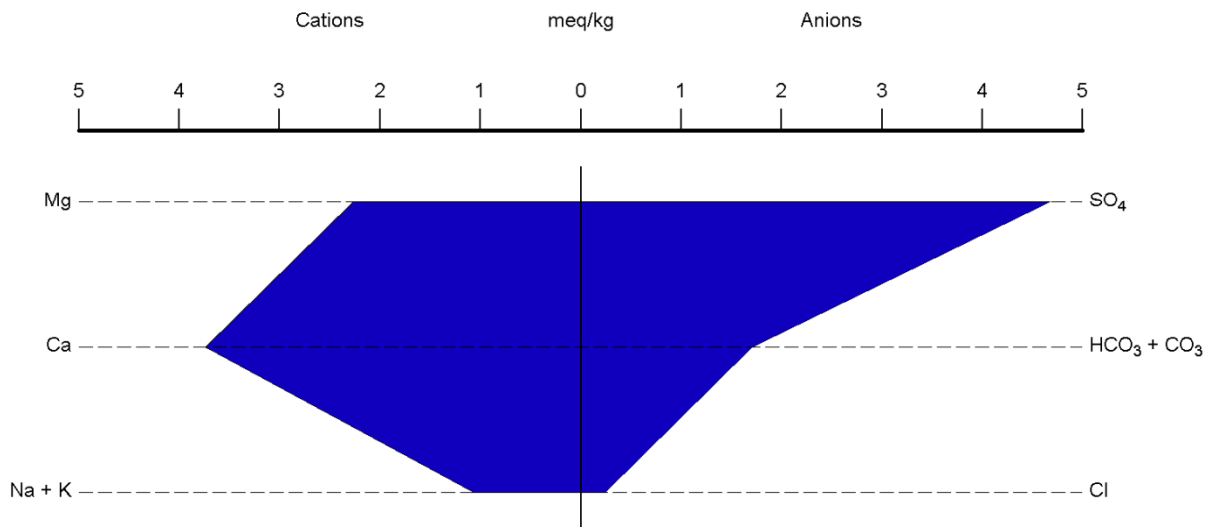


Figure 9

Stiff Diagram - DW-26

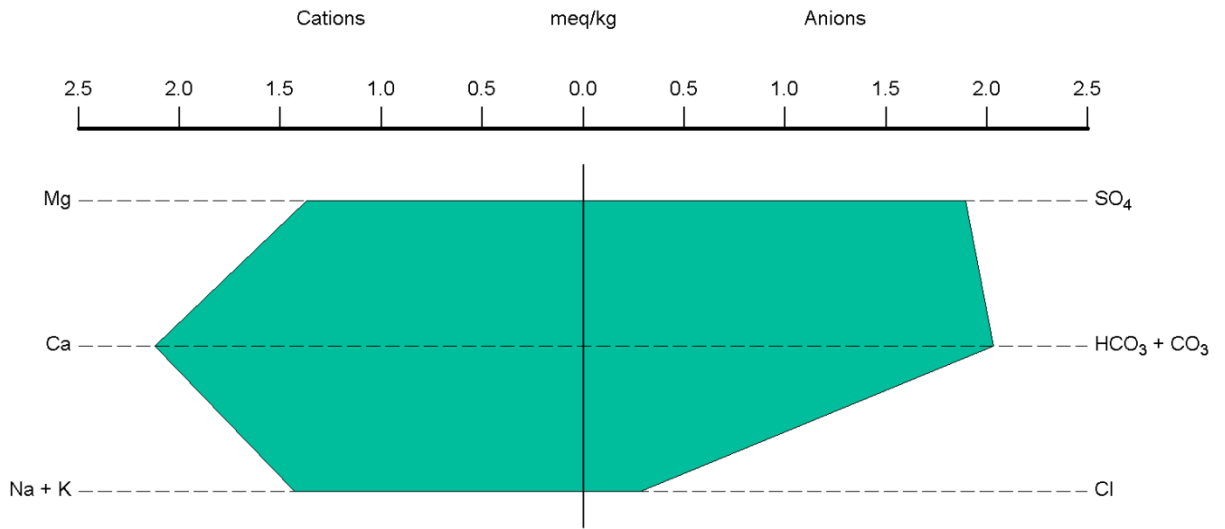


Figure 10

Stiff Diagram MD-2

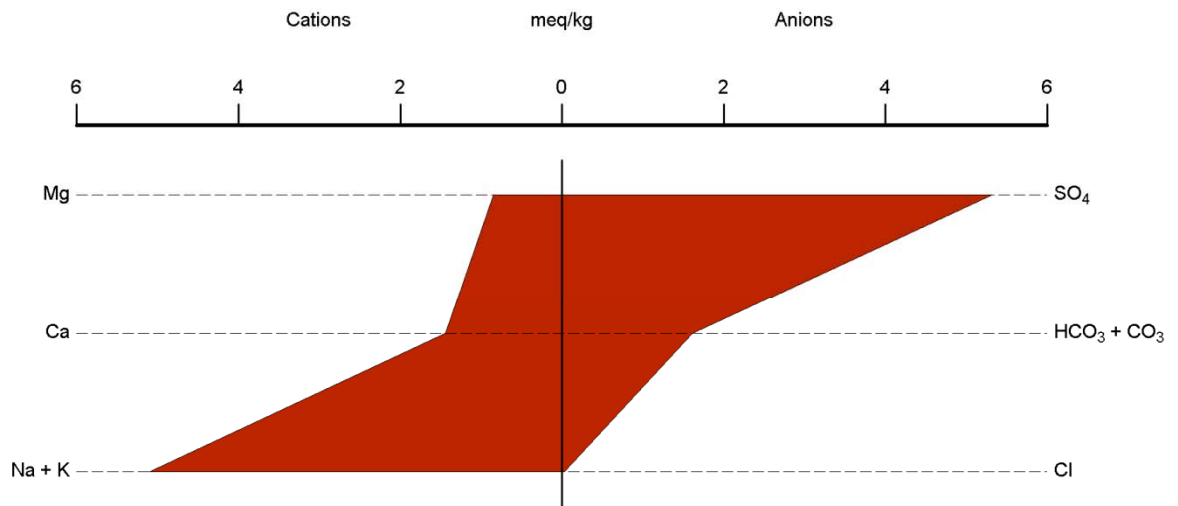


Figure 11

Piper Diagram - Env. Samples and Wells

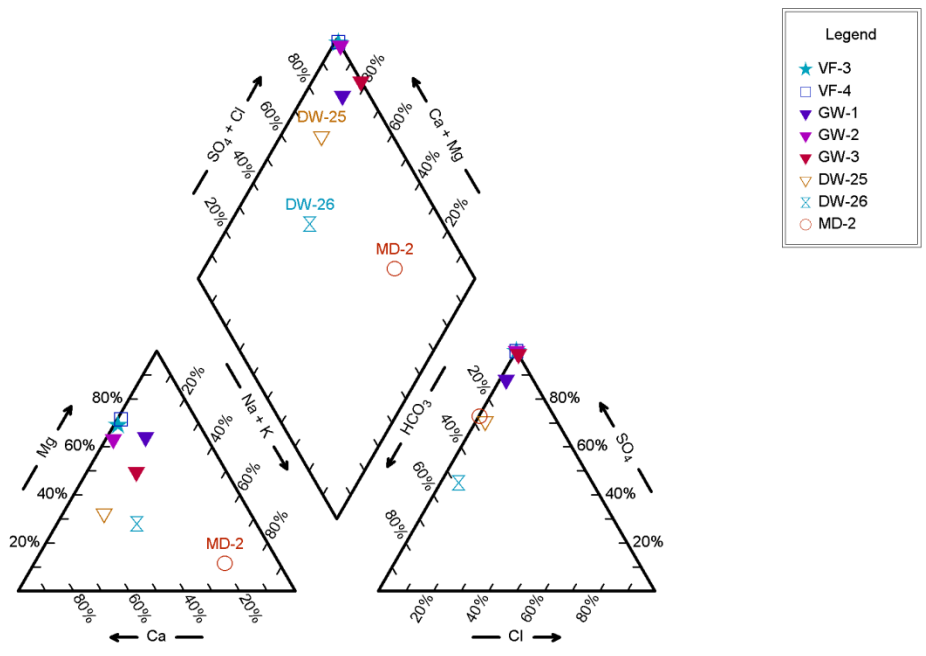


Figure 12

APPENDIX
Laboratory Reports

NO. 353309

CHAIN OF CUSTODY RECORD



Research Environmental & Industrial Consultants, Inc.

MAIN LABORATORY & CORPORATE HEADQUARTERS:

P.O. Box 286 • 225 Industrial Park Rd, Beaver, WV 25813
800-999-0105 • 304-255-2500 • www.reiclabs.com

MID-OHIO VALLEY Service Center
101 17th Street
Ashland, KY 41101
606-393-5027

SHENANDOAH Service Center
1557 Commerce Rd., Ste. 201
Verona, VA 24482
540-248-0183

ROANOKE Service Center
3029-C Peters Creek Rd
Roanoke, VA 24019
540-777-1276

Client: TRIAD ENGINEERING, INC PO # 04-12-0091
Contact Person JOHN MEEKS Phone 304.755.0721
QUOTE # _____ Fax: 304.755.1880 Email: JMECKS@TRIADENK.COM
Address: 4980 TEAYS VALLEY RD. City SCOTT DEPOT State WV Zip 25560
Billing Address (if different) _____
City _____ State _____ Zip _____
Site ID & State PRENTER Project ID 04-12-0091 Sampler M. WRIGHT

SAMPLE LOG & ANALYSIS REQUEST

TURNAROUND TIME



NORMAL

RUSH TURNAROUND



5 DAY



3 DAY



2 DAY



1 DAY

*Rush work needs prior laboratory approval and will incur additional charges

ANALYSIS & METHOD REQUESTED

PRIMARY SDWA METALS

SECONDARY SDWA PARAMETERS

AMD INDICATOR

VOC

CATIONS / ANIONS

SAMPLE ID	No. & Type of Containers	Sampling Date/Time	Matrix	Sample Comp/Grab												
DW-32 R1		3.28.12/1900	W	G	X	X	X	X	X							
DW-32 R2		3.28.12/1915	W	G	X	X	X	X	X							
DW-32 R3		3.28.12/1930	W	G	X	X	X	X	X							
Trip Blank-mah	1															

ENTER PRESERVATIVE CODE:

- 0 None
- 1 Hydrochloric Acid
- 2 Nitric Acid
- 3 Sulfuric Acid
- 4 Sodium Thiosulfate
- 5 Sodium Hydroxide
- 6 Zinc Acetate
- 7 EDTA
- 8 Ascorbic Acid

COMMENTS:

EMAIL RESULTS TO:
JMECKS@TRIADENK.COM
MWRIGHT@TRIADENK.COM

All analytical requests are subject to REIC's Standard Terms and Conditions.

Temperature at arrival: 2.0 °C ICED? Y N

1 Relinquished by (signature) <i>[Signature]</i>	3.29.12 Date/Time	2 Relinquished by (signature)	Date/Time	FAX RESULTS <input type="checkbox"/>	EMAIL RESULTS <input checked="" type="checkbox"/>
Received by (signature) <i>[Signature]</i>	3/29/12 Date/Time	Received by (signature)	Date/Time	SHIPMENT <input type="checkbox"/> Hand Delivered <input checked="" type="checkbox"/> Courier <input type="checkbox"/> UPS <input type="checkbox"/> FEDEX <input type="checkbox"/> USPS <input type="checkbox"/> OTHER	

COC-NCR-031110



Improving the environment, one client at a time...

225 Industrial Park Drive
Beaver, WV 25813
TEL: 304.255.2500
FAX: 304.255.2572

3029-C Peters Creek Road
Roanoke, VA 24019
TEL: 540.777.1276
FAX: 540.400.8508

101 17th Street
Ashland, KY 41101
TEL: 606.393.5027

1557 Commerce Road, Suite 201
Verona, VA 24482
TEL: 540.248.0183

April 06, 2012

Mr. John Meeks
TRIAD ENGINEERING -ST ALBANS
4980 TEAYS VALLEY RD
SCOTT DEPOT WV 25560

TEL: (304) 755-0721

FAX (304) 755-1880

RE: 04-12-0091

Order No.: 1203S27

Dear Mr. John Meeks:

REI Consultants, Inc. received 4 sample(s) on 3/29/2012 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative. Quality control data was within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Jimmy Suttle

Project Manager





Improving the environment, one client at a time...

225 Industrial Park Drive
Beaver, WV 25813
TEL: 304.255.2500
FAX: 304.255.2572

3029-C Peters Creek Road
Roanoke, VA 24019
TEL: 540.777.1276
FAX: 540.400.8508

101 17th Street
Ashland, KY 41101
TEL: 606.393.5027

1557 Commerce Road, Suite 201
Verona, VA 24482
TEL: 540.248.0183

Report Narrative

Project Manager:: **Jimmy Suttle**

WO#: **1203S27**
Date: **4/6/2012**

CLIENT: TRIAD ENGINEERING -ST ALBANS
Project: 04-12-0091

The analytical results presented in this report relate only to the samples documented herein. All analyses were performed using documented laboratory SOPs that incorporate appropriate quality control procedures as described in the applicable methods. Any deviation from compliance or method modification is explained below and/or identified within the body of this report by a qualifier footnote which is defined at the bottom of each page.

All sample results are reported on an "as-received" wet weight basis unless otherwise noted.

Results reported for sums of individual parameters, such as Total Trihalomethanes (TTHM) and Total Haloacetic Acids (HAA5), may vary slightly from the sum of the individual parameter results. This apparent anomaly is caused by rounding individual results and summations at reporting, as required by EPA.

The test results in this report meet all NELAP and VELAP requirements for parameters for which accreditations are required or available. Any exceptions are noted in this report. This report may not be reproduced, except in full, without the written approval of REIC.

In compliance with federal guidelines and standard operating procedures, all reports, including raw data and supporting quality control, will be disposed of after five years unless otherwise arranged by the client via written notification or contract requirement.

If you have any questions please contact the project manager whose name is listed above.

CLIENT: TRIAD ENGINEERING -ST ALBANS
Client Sample ID: DW-32R1
Project: 04-12-0091
Site ID: PRENTER

WorkOrder: 1203S27 **Lab ID** 1203S27-01A
DateReceived: 3/29/2012
Collection Date: 3/28/2012 7:00:00 PM
Matrix: LIQUID

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
METALS BY ICP			E200.7		Analyst: LF	
Aluminum	0.008	mg/L	J	0.0060	0.100	4/3/2012 1:26:52 PM
Calcium	5.31	mg/L		0.0500	1.00	4/3/2012 1:26:52 PM
Cobalt	ND	mg/L		0.0030	0.100	4/3/2012 1:26:52 PM
Iron	0.799	mg/L		0.0100	0.100	4/3/2012 1:26:52 PM
Magnesium	1.36	mg/L		0.0500	0.500	4/3/2012 1:26:52 PM
Manganese	0.011	mg/L	J	0.0020	0.100	4/3/2012 1:26:52 PM
Potassium	2.02	mg/L		0.0500	0.500	4/3/2012 1:26:52 PM
Sodium	118	mg/L		0.500	10.0	4/5/2012 7:46:18 PM
Zinc	0.239	mg/L		0.0050	0.050	4/3/2012 1:26:52 PM
METALS BY ICP-MS			E200.8		Analyst: JD	
Antimony	ND	mg/L		0.00020	0.0010	4/3/2012 4:02:00 PM
Arsenic	ND	mg/L		0.00100	0.0050	4/3/2012 4:02:00 PM
Barium	0.393	mg/L		0.00100	0.0050	4/3/2012 4:02:00 PM
Beryllium	ND	mg/L		0.00020	0.0010	4/3/2012 4:02:00 PM
Cadmium	ND	mg/L		0.00020	0.0010	4/3/2012 4:02:00 PM
Chromium	ND	mg/L		0.00100	0.0050	4/3/2012 4:02:00 PM
Copper	0.115	mg/L		0.00100	0.0050	4/3/2012 4:02:00 PM
Lead	0.0188	mg/L		0.00020	0.0010	4/3/2012 4:02:00 PM
Molybdenum	0.0013	mg/L	J	0.00100	0.0050	4/3/2012 4:02:00 PM
Nickel	0.0028	mg/L	J	0.00200	0.0100	4/3/2012 4:02:00 PM
Selenium	ND	mg/L		0.00100	0.0050	4/5/2012 3:52:00 PM
Silver	ND	mg/L		0.00100	0.0050	4/3/2012 4:02:00 PM
Strontium	0.451	mg/L		0.00100	0.0050	4/3/2012 4:02:00 PM
Thallium	ND	mg/L		0.00020	0.0010	4/3/2012 4:02:00 PM
Tin	ND	mg/L		0.00100	0.0050	4/3/2012 4:02:00 PM
Titanium	ND	mg/L		0.00100	0.0050	4/3/2012 4:02:00 PM
Uranium	ND	mg/L		0.00100	0.0100	4/3/2012 4:02:00 PM
Vanadium	ND	mg/L		0.00100	0.0100	4/3/2012 4:02:00 PM
MERCURY, TOTAL			E245.1		Analyst: DS	
Mercury	ND	mg/L		0.00010	0.0010	4/3/2012 8:57:36 AM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Analyst: AS	
Acetone	9.3	µg/L	J	4.88	10.0	3/30/2012 10:05:00 AM
Acrolein	ND	µg/L		4.36	10.0	3/30/2012 10:05:00 AM
Acrylonitrile	ND	µg/L		4.24	10.0	3/30/2012 10:05:00 AM
Benzene	0.4	µg/L	J	0.13	1.0	3/30/2012 10:05:00 AM

Key: MCL Maximum Contaminant Level J Analyte detected below quantitation limits
MDL Minimum Detection Limit B Analyte detected in the associated Method Blank
NA Not Applicable E Estimated Value above quantitation range
ND Not Detected at the PQL or MDL H Holding times for preparation or analysis exceeded
PQL Practical Quantitation Limit S Spike/Surrogate Recovery exceeds REIC control limits
TIC Tentatively Identified Compound, Estimated Concentration * Value exceeds MCL or Regulatory Limits

CLIENT:	TRIAD ENGINEERING -ST ALBANS	WorkOrder:	1203S27	Lab ID	1203S27-01A
Client Sample ID:	DW-32R1	DateReceived:	3/29/2012		
Project:	04-12-0091	Collection Date:	3/28/2012 7:00:00 PM		
Site ID:	PRENTER	Matrix:	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260B		Analyst: AS	
Bromobenzene	ND	µg/L		0.25	1.0	3/30/2012 10:05:00 AM
Bromochloromethane	ND	µg/L		0.35	1.0	3/30/2012 10:05:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	3/30/2012 10:05:00 AM
Bromoform	ND	µg/L		0.40	1.0	3/30/2012 10:05:00 AM
Bromomethane	ND	µg/L		0.50	1.0	3/30/2012 10:05:00 AM
2-Butanone	ND	µg/L		4.68	10.0	3/30/2012 10:05:00 AM
n-Butylbenzene	ND	µg/L		0.25	1.0	3/30/2012 10:05:00 AM
sec-Butylbenzene	ND	µg/L		0.28	1.0	3/30/2012 10:05:00 AM
tert-Butylbenzene	ND	µg/L		0.24	1.0	3/30/2012 10:05:00 AM
Carbon disulfide	ND	µg/L		1.27	5.0	3/30/2012 10:05:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	3/30/2012 10:05:00 AM
Chlorobenzene	ND	µg/L		0.18	1.0	3/30/2012 10:05:00 AM
Chloroethane	ND	µg/L		0.94	1.0	3/30/2012 10:05:00 AM
Chloroform	ND	µg/L		0.25	1.0	3/30/2012 10:05:00 AM
Chloromethane	ND	µg/L		0.33	1.0	3/30/2012 10:05:00 AM
2-Chlorotoluene	ND	µg/L		0.25	1.0	3/30/2012 10:05:00 AM
4-Chlorotoluene	ND	µg/L		0.28	1.0	3/30/2012 10:05:00 AM
Dibromochloromethane	ND	µg/L		0.42	1.0	3/30/2012 10:05:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	1.0	3/30/2012 10:05:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	3/30/2012 10:05:00 AM
Dibromomethane	ND	µg/L		0.29	1.0	3/30/2012 10:05:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	1.0	3/30/2012 10:05:00 AM
1,3-Dichlorobenzene	ND	µg/L		0.14	1.0	3/30/2012 10:05:00 AM
1,4-Dichlorobenzene	0.4	µg/L	J	0.29	1.0	3/30/2012 10:05:00 AM
Dichlorodifluoromethane	ND	µg/L		0.71	1.0	3/30/2012 10:05:00 AM
1,1-Dichloroethane	ND	µg/L		0.38	1.0	3/30/2012 10:05:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	3/30/2012 10:05:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	1.0	3/30/2012 10:05:00 AM
cis-1,2-Dichloroethene	ND	µg/L		0.23	1.0	3/30/2012 10:05:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	1.0	3/30/2012 10:05:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	3/30/2012 10:05:00 AM
1,3-Dichloropropane	ND	µg/L		0.71	1.0	3/30/2012 10:05:00 AM
2,2-Dichloropropane	ND	µg/L		0.23	1.0	3/30/2012 10:05:00 AM
1,1-Dichloropropene	ND	µg/L		0.33	1.0	3/30/2012 10:05:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	3/30/2012 10:05:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	3/30/2012 10:05:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	3/30/2012 10:05:00 AM

Key:	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

CLIENT:	TRIAD ENGINEERING -ST ALBANS	WorkOrder:	1203S27	Lab ID	1203S27-01A
Client Sample ID:	DW-32R1	DateReceived:	3/29/2012		
Project:	04-12-0091	Collection Date:	3/28/2012 7:00:00 PM		
Site ID:	PRENTER	Matrix:	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS

SW8260B

Analyst: **AS**

Hexachlorobutadiene	ND	µg/L		0.26	1.0	3/30/2012 10:05:00 AM
2-Hexanone	ND	µg/L		4.11	10.0	3/30/2012 10:05:00 AM
Iodomethane	ND	µg/L		3.44	10.0	3/30/2012 10:05:00 AM
Isopropylbenzene	ND	µg/L		0.23	1.0	3/30/2012 10:05:00 AM
4-Isopropyltoluene	ND	µg/L		0.24	1.0	3/30/2012 10:05:00 AM
Methylene chloride	ND	µg/L		0.54	1.0	3/30/2012 10:05:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	10.0	3/30/2012 10:05:00 AM
Methyl tert-butyl ether	ND	µg/L		0.76	5.0	3/30/2012 10:05:00 AM
Naphthalene	ND	µg/L		0.42	1.0	3/30/2012 10:05:00 AM
n-Propylbenzene	ND	µg/L		0.14	1.0	3/30/2012 10:05:00 AM
Styrene	ND	µg/L		0.24	1.0	3/30/2012 10:05:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	1.0	3/30/2012 10:05:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	1.0	3/30/2012 10:05:00 AM
Tetrachloroethene	ND	µg/L		0.20	1.0	3/30/2012 10:05:00 AM
Toluene	ND	µg/L		0.17	1.0	3/30/2012 10:05:00 AM
1,2,3-Trichlorobenzene	ND	µg/L		0.41	1.0	3/30/2012 10:05:00 AM
1,2,4-Trichlorobenzene	ND	µg/L		0.41	1.0	3/30/2012 10:05:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	3/30/2012 10:05:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	3/30/2012 10:05:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	3/30/2012 10:05:00 AM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	3/30/2012 10:05:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	3/30/2012 10:05:00 AM
1,2,4-Trimethylbenzene	ND	µg/L		0.28	1.0	3/30/2012 10:05:00 AM
1,3,5-Trimethylbenzene	ND	µg/L		0.28	1.0	3/30/2012 10:05:00 AM
Vinyl acetate	ND	µg/L		4.87	10.0	3/30/2012 10:05:00 AM
Vinyl chloride	ND	µg/L		0.22	1.0	3/30/2012 10:05:00 AM
o-Xylene	ND	µg/L		0.19	1.0	3/30/2012 10:05:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	3/30/2012 10:05:00 AM
Surr: 1,2-Dichloroethane-d4	100	%REC			80-120	3/30/2012 10:05:00 AM
Surr: 4-Bromofluorobenzene	90.2	%REC			86-115	3/30/2012 10:05:00 AM
Surr: Dibromofluoromethane	103	%REC			80-120	3/30/2012 10:05:00 AM
Surr: Toluene-d8	105	%REC			88-110	3/30/2012 10:05:00 AM

SURFACTANTS

SM5540 C

Analyst: **CC**

MBAS	ND	mg/L		0.100	0.250	3/30/2012 2:52:00 PM
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ANIONS BY ION CHROMATOGRAPHY

E300.0

Analyst: **CF**

Chloride	76.5	mg/L		0.500	5.00	3/31/2012 5:44:00 AM
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Key:	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

CLIENT:	TRIAD ENGINEERING -ST ALBANS	WorkOrder:	1203S27	Lab ID	1203S27-01A
Client Sample ID:	DW-32R1	DateReceived:	3/29/2012		
Project:	04-12-0091	Collection Date:	3/28/2012 7:00:00 PM		
Site ID:	PRENTER	Matrix:	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY			E300.0			Analyst: CF
Fluoride	0.51	mg/L		0.040	0.20	3/31/2012 5:44:00 AM
Sulfate	ND	mg/L		1.00	5.00	3/31/2012 5:44:00 AM
TOTAL DISSOLVED SOLIDS			SM2540 C			Analyst: SF
Total Dissolved Solids	384	mg/L		5.0	10	3/31/2012 10:07:00 AM
ACIDITY			SM2310 B			Analyst: DSD
Acidity, Total	23.0	mg/L		1.00	10.0	4/2/2012 11:42:00 AM
ALKALINITY			SM2320 B			Analyst: DSD
Alkalinity, Bicarbonate (As CaCO3)	137	mg/L		1.00	10.0	4/2/2012 11:42:00 AM
ALKALINITY			SM2320 B			Analyst: DSD
Alkalinity, Carbonate (As CaCO3)	ND	mg/L		1.00	10.0	4/2/2012 11:42:00 AM
ALKALINITY			SM2320 B			Analyst: DSD
Alkalinity, Total (As CaCO3)	137	mg/L		1.00	10.0	4/2/2012 11:42:00 AM
PH - LAB TEST, HOLD TIME EXPIRED			SM4500-H+-B			Analyst: DSD
pH	7.09	SU		NA	NA	4/2/2012 11:42:00 AM

Key:	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

CLIENT: TRIAD ENGINEERING -ST ALBANS
Client Sample ID: DW-32R2
Project: 04-12-0091
Site ID: PRENTER

WorkOrder: 1203S27 **Lab ID** 1203S27-02A
DateReceived: 3/29/2012
Collection Date: 3/28/2012 7:15:00 PM
Matrix: LIQUID

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
METALS BY ICP			E200.7		Analyst: LF	
Aluminum	ND	mg/L		0.0060	0.100	4/3/2012 1:35:57 PM
Calcium	5.12	mg/L		0.0500	1.00	4/3/2012 1:35:57 PM
Cobalt	ND	mg/L		0.0030	0.100	4/3/2012 1:35:57 PM
Iron	0.146	mg/L		0.0100	0.100	4/3/2012 1:35:57 PM
Magnesium	1.29	mg/L		0.0500	0.500	4/3/2012 1:35:57 PM
Manganese	0.007	mg/L	J	0.0020	0.100	4/3/2012 1:35:57 PM
Potassium	2.03	mg/L		0.0500	0.500	4/3/2012 1:35:57 PM
Sodium	114	mg/L		0.500	10.0	4/5/2012 7:49:21 PM
Zinc	0.134	mg/L		0.0050	0.050	4/3/2012 1:35:57 PM
METALS BY ICP-MS			E200.8		Analyst: JD	
Antimony	ND	mg/L		0.00020	0.0010	4/3/2012 4:07:00 PM
Arsenic	ND	mg/L		0.00100	0.0050	4/3/2012 4:07:00 PM
Barium	0.372	mg/L		0.00100	0.0050	4/3/2012 4:07:00 PM
Beryllium	ND	mg/L		0.00020	0.0010	4/3/2012 4:07:00 PM
Cadmium	ND	mg/L		0.00020	0.0010	4/3/2012 4:07:00 PM
Chromium	ND	mg/L		0.00100	0.0050	4/3/2012 4:07:00 PM
Copper	0.0529	mg/L		0.00100	0.0050	4/3/2012 4:07:00 PM
Lead	0.0054	mg/L		0.00020	0.0010	4/3/2012 4:07:00 PM
Molybdenum	0.0026	mg/L	J	0.00100	0.0050	4/3/2012 4:07:00 PM
Nickel	ND	mg/L		0.00200	0.0100	4/3/2012 4:07:00 PM
Selenium	ND	mg/L		0.00100	0.0050	4/5/2012 3:57:00 PM
Silver	ND	mg/L		0.00100	0.0050	4/3/2012 4:07:00 PM
Strontium	0.431	mg/L		0.00100	0.0050	4/3/2012 4:07:00 PM
Thallium	ND	mg/L		0.00020	0.0010	4/3/2012 4:07:00 PM
Tin	ND	mg/L		0.00100	0.0050	4/3/2012 4:07:00 PM
Titanium	ND	mg/L		0.00100	0.0050	4/3/2012 4:07:00 PM
Uranium	ND	mg/L		0.00100	0.0100	4/3/2012 4:07:00 PM
Vanadium	ND	mg/L		0.00100	0.0100	4/3/2012 4:07:00 PM
MERCURY, TOTAL			E245.1		Analyst: DS	
Mercury	ND	mg/L		0.00010	0.0010	4/3/2012 8:59:48 AM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Analyst: AS	
Acetone	ND	µg/L		4.88	10.0	3/30/2012 10:39:00 AM
Acrolein	ND	µg/L		4.36	10.0	3/30/2012 10:39:00 AM
Acrylonitrile	ND	µg/L		4.24	10.0	3/30/2012 10:39:00 AM
Benzene	ND	µg/L		0.13	1.0	3/30/2012 10:39:00 AM

Key: MCL Maximum Contaminant Level J Analyte detected below quantitation limits
MDL Minimum Detection Limit B Analyte detected in the associated Method Blank
NA Not Applicable E Estimated Value above quantitation range
ND Not Detected at the PQL or MDL H Holding times for preparation or analysis exceeded
PQL Practical Quantitation Limit S Spike/Surrogate Recovery exceeds REIC control limits
TIC Tentatively Identified Compound, Estimated Concentration * Value exceeds MCL or Regulatory Limits

CLIENT:	TRIAD ENGINEERING -ST ALBANS	WorkOrder:	1203S27	Lab ID	1203S27-02A
Client Sample ID:	DW-32R2	DateReceived:	3/29/2012		
Project:	04-12-0091	Collection Date:	3/28/2012 7:15:00 PM		
Site ID:	PRENTER	Matrix:	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260B		Analyst: AS	
Bromobenzene	ND	µg/L		0.25	1.0	3/30/2012 10:39:00 AM
Bromochloromethane	ND	µg/L		0.35	1.0	3/30/2012 10:39:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	3/30/2012 10:39:00 AM
Bromoform	ND	µg/L		0.40	1.0	3/30/2012 10:39:00 AM
Bromomethane	ND	µg/L		0.50	1.0	3/30/2012 10:39:00 AM
2-Butanone	ND	µg/L		4.68	10.0	3/30/2012 10:39:00 AM
n-Butylbenzene	ND	µg/L		0.25	1.0	3/30/2012 10:39:00 AM
sec-Butylbenzene	ND	µg/L		0.28	1.0	3/30/2012 10:39:00 AM
tert-Butylbenzene	ND	µg/L		0.24	1.0	3/30/2012 10:39:00 AM
Carbon disulfide	ND	µg/L		1.27	5.0	3/30/2012 10:39:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	3/30/2012 10:39:00 AM
Chlorobenzene	ND	µg/L		0.18	1.0	3/30/2012 10:39:00 AM
Chloroethane	ND	µg/L		0.94	1.0	3/30/2012 10:39:00 AM
Chloroform	ND	µg/L		0.25	1.0	3/30/2012 10:39:00 AM
Chloromethane	ND	µg/L		0.33	1.0	3/30/2012 10:39:00 AM
2-Chlorotoluene	ND	µg/L		0.25	1.0	3/30/2012 10:39:00 AM
4-Chlorotoluene	ND	µg/L		0.28	1.0	3/30/2012 10:39:00 AM
Dibromochloromethane	ND	µg/L		0.42	1.0	3/30/2012 10:39:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	1.0	3/30/2012 10:39:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	3/30/2012 10:39:00 AM
Dibromomethane	ND	µg/L		0.29	1.0	3/30/2012 10:39:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	1.0	3/30/2012 10:39:00 AM
1,3-Dichlorobenzene	ND	µg/L		0.14	1.0	3/30/2012 10:39:00 AM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	3/30/2012 10:39:00 AM
Dichlorodifluoromethane	ND	µg/L		0.71	1.0	3/30/2012 10:39:00 AM
1,1-Dichloroethane	ND	µg/L		0.38	1.0	3/30/2012 10:39:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	3/30/2012 10:39:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	1.0	3/30/2012 10:39:00 AM
cis-1,2-Dichloroethene	ND	µg/L		0.23	1.0	3/30/2012 10:39:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	1.0	3/30/2012 10:39:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	3/30/2012 10:39:00 AM
1,3-Dichloropropane	ND	µg/L		0.71	1.0	3/30/2012 10:39:00 AM
2,2-Dichloropropane	ND	µg/L		0.23	1.0	3/30/2012 10:39:00 AM
1,1-Dichloropropene	ND	µg/L		0.33	1.0	3/30/2012 10:39:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	3/30/2012 10:39:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	3/30/2012 10:39:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	3/30/2012 10:39:00 AM

Key:	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

CLIENT:	TRIAD ENGINEERING -ST ALBANS	WorkOrder:	1203S27	Lab ID	1203S27-02A
Client Sample ID:	DW-32R2	DateReceived:	3/29/2012		
Project:	04-12-0091	Collection Date:	3/28/2012 7:15:00 PM		
Site ID:	PRENTER	Matrix:	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS

SW8260B

Analyst: **AS**

Hexachlorobutadiene	ND	µg/L		0.26	1.0	3/30/2012 10:39:00 AM
2-Hexanone	ND	µg/L		4.11	10.0	3/30/2012 10:39:00 AM
Iodomethane	ND	µg/L		3.44	10.0	3/30/2012 10:39:00 AM
Isopropylbenzene	ND	µg/L		0.23	1.0	3/30/2012 10:39:00 AM
4-Isopropyltoluene	ND	µg/L		0.24	1.0	3/30/2012 10:39:00 AM
Methylene chloride	ND	µg/L		0.54	1.0	3/30/2012 10:39:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	10.0	3/30/2012 10:39:00 AM
Methyl tert-butyl ether	ND	µg/L		0.76	5.0	3/30/2012 10:39:00 AM
Naphthalene	ND	µg/L		0.42	1.0	3/30/2012 10:39:00 AM
n-Propylbenzene	ND	µg/L		0.14	1.0	3/30/2012 10:39:00 AM
Styrene	ND	µg/L		0.24	1.0	3/30/2012 10:39:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	1.0	3/30/2012 10:39:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	1.0	3/30/2012 10:39:00 AM
Tetrachloroethene	ND	µg/L		0.20	1.0	3/30/2012 10:39:00 AM
Toluene	ND	µg/L		0.17	1.0	3/30/2012 10:39:00 AM
1,2,3-Trichlorobenzene	ND	µg/L		0.41	1.0	3/30/2012 10:39:00 AM
1,2,4-Trichlorobenzene	ND	µg/L		0.41	1.0	3/30/2012 10:39:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	3/30/2012 10:39:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	3/30/2012 10:39:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	3/30/2012 10:39:00 AM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	3/30/2012 10:39:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	3/30/2012 10:39:00 AM
1,2,4-Trimethylbenzene	ND	µg/L		0.28	1.0	3/30/2012 10:39:00 AM
1,3,5-Trimethylbenzene	ND	µg/L		0.28	1.0	3/30/2012 10:39:00 AM
Vinyl acetate	ND	µg/L		4.87	10.0	3/30/2012 10:39:00 AM
Vinyl chloride	ND	µg/L		0.22	1.0	3/30/2012 10:39:00 AM
o-Xylene	ND	µg/L		0.19	1.0	3/30/2012 10:39:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	3/30/2012 10:39:00 AM
Surr: 1,2-Dichloroethane-d4	101	%REC			80-120	3/30/2012 10:39:00 AM
Surr: 4-Bromofluorobenzene	93.7	%REC			86-115	3/30/2012 10:39:00 AM
Surr: Dibromofluoromethane	102	%REC			80-120	3/30/2012 10:39:00 AM
Surr: Toluene-d8	103	%REC			88-110	3/30/2012 10:39:00 AM

SURFACTANTS

SM5540 C

Analyst: **CC**

MBAS	ND	mg/L		0.100	0.250	3/30/2012 2:52:00 PM
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ANIONS BY ION CHROMATOGRAPHY

E300.0

Analyst: **CF**

Chloride	73.0	mg/L		0.500	5.00	3/31/2012 7:14:00 AM
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Key:	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

CLIENT:	TRIAD ENGINEERING -ST ALBANS	WorkOrder:	1203S27	Lab ID	1203S27-02A
Client Sample ID:	DW-32R2	DateReceived:	3/29/2012		
Project:	04-12-0091	Collection Date:	3/28/2012 7:15:00 PM		
Site ID:	PRENTER	Matrix:	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY			E300.0			Analyst: CF
Fluoride	0.58	mg/L		0.040	0.20	3/31/2012 7:14:00 AM
Sulfate	ND	mg/L		1.00	5.00	3/31/2012 7:14:00 AM
TOTAL DISSOLVED SOLIDS			SM2540 C			Analyst: SF
Total Dissolved Solids	411	mg/L		5.0	10	3/31/2012 10:07:00 AM
ACIDITY			SM2310 B			Analyst: DSD
Acidity, Total	9.1	mg/L	J	1.00	10.0	4/2/2012 11:42:00 AM
ALKALINITY			SM2320 B			Analyst: DSD
Alkalinity, Bicarbonate (As CaCO3)	131	mg/L		1.00	10.0	4/2/2012 11:42:00 AM
ALKALINITY			SM2320 B			Analyst: DSD
Alkalinity, Carbonate (As CaCO3)	ND	mg/L		1.00	10.0	4/2/2012 11:42:00 AM
ALKALINITY			SM2320 B			Analyst: DSD
Alkalinity, Total (As CaCO3)	131	mg/L		1.00	10.0	4/2/2012 11:42:00 AM
PH - LAB TEST, HOLD TIME EXPIRED			SM4500-H+-B			Analyst: DSD
pH	7.41	SU		NA	NA	4/2/2012 11:42:00 AM

Key:	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

CLIENT:	TRIAD ENGINEERING -ST ALBANS	WorkOrder:	1203S27	Lab ID	1203S27-03A
Client Sample ID:	DW-32R3	DateReceived:	3/29/2012		
Project:	04-12-0091	Collection Date:	3/28/2012 7:30:00 PM		
Site ID:	PRENTER	Matrix:	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
METALS BY ICP			E200.7		Analyst: LF	
Aluminum	ND	mg/L		0.0060	0.100	4/3/2012 1:39:00 PM
Calcium	5.46	mg/L		0.0500	1.00	4/3/2012 1:39:00 PM
Cobalt	ND	mg/L		0.0030	0.100	4/3/2012 1:39:00 PM
Iron	0.110	mg/L		0.0100	0.100	4/3/2012 1:39:00 PM
Magnesium	1.37	mg/L		0.0500	0.500	4/3/2012 1:39:00 PM
Manganese	0.006	mg/L	J	0.0020	0.100	4/3/2012 1:39:00 PM
Potassium	2.20	mg/L		0.0500	0.500	4/3/2012 1:39:00 PM
Sodium	124	mg/L		0.500	10.0	4/5/2012 7:52:25 PM
Zinc	0.094	mg/L		0.0050	0.050	4/3/2012 1:39:00 PM
METALS BY ICP-MS			E200.8		Analyst: JD	
Antimony	ND	mg/L		0.00020	0.0010	4/3/2012 4:12:00 PM
Arsenic	ND	mg/L		0.00100	0.0050	4/3/2012 4:12:00 PM
Barium	0.371	mg/L		0.00100	0.0050	4/3/2012 4:12:00 PM
Beryllium	ND	mg/L		0.00020	0.0010	4/3/2012 4:12:00 PM
Cadmium	ND	mg/L		0.00020	0.0010	4/3/2012 4:12:00 PM
Chromium	ND	mg/L		0.00100	0.0050	4/3/2012 4:12:00 PM
Copper	0.0343	mg/L		0.00100	0.0050	4/3/2012 4:12:00 PM
Lead	0.0059	mg/L		0.00020	0.0010	4/3/2012 4:12:00 PM
Molybdenum	0.0021	mg/L	J	0.00100	0.0050	4/3/2012 4:12:00 PM
Nickel	ND	mg/L		0.00200	0.0100	4/3/2012 4:12:00 PM
Selenium	ND	mg/L		0.00100	0.0050	4/5/2012 4:03:00 PM
Silver	ND	mg/L		0.00100	0.0050	4/3/2012 4:12:00 PM
Strontium	0.427	mg/L		0.00100	0.0050	4/3/2012 4:12:00 PM
Thallium	ND	mg/L		0.00020	0.0010	4/3/2012 4:12:00 PM
Tin	ND	mg/L		0.00100	0.0050	4/3/2012 4:12:00 PM
Titanium	ND	mg/L		0.00100	0.0050	4/3/2012 4:12:00 PM
Uranium	ND	mg/L		0.00100	0.0100	4/3/2012 4:12:00 PM
Vanadium	ND	mg/L		0.00100	0.0100	4/3/2012 4:12:00 PM
MERCURY, TOTAL			E245.1		Analyst: DS	
Mercury	ND	mg/L		0.00010	0.0010	4/3/2012 9:02:00 AM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Analyst: AS	
Acetone	ND	µg/L		4.88	10.0	3/30/2012 11:12:00 AM
Acrolein	ND	µg/L		4.36	10.0	3/30/2012 11:12:00 AM
Acrylonitrile	ND	µg/L		4.24	10.0	3/30/2012 11:12:00 AM
Benzene	ND	µg/L		0.13	1.0	3/30/2012 11:12:00 AM

Key:	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

CLIENT:	TRIAD ENGINEERING -ST ALBANS	WorkOrder:	1203S27	Lab ID	1203S27-03A
Client Sample ID:	DW-32R3	DateReceived:	3/29/2012		
Project:	04-12-0091	Collection Date:	3/28/2012 7:30:00 PM		
Site ID:	PRENTER	Matrix:	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260B		Analyst: AS	
Bromobenzene	ND	µg/L		0.25	1.0	3/30/2012 11:12:00 AM
Bromochloromethane	ND	µg/L		0.35	1.0	3/30/2012 11:12:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	3/30/2012 11:12:00 AM
Bromoform	ND	µg/L		0.40	1.0	3/30/2012 11:12:00 AM
Bromomethane	ND	µg/L		0.50	1.0	3/30/2012 11:12:00 AM
2-Butanone	ND	µg/L		4.68	10.0	3/30/2012 11:12:00 AM
n-Butylbenzene	ND	µg/L		0.25	1.0	3/30/2012 11:12:00 AM
sec-Butylbenzene	ND	µg/L		0.28	1.0	3/30/2012 11:12:00 AM
tert-Butylbenzene	ND	µg/L		0.24	1.0	3/30/2012 11:12:00 AM
Carbon disulfide	ND	µg/L		1.27	5.0	3/30/2012 11:12:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	3/30/2012 11:12:00 AM
Chlorobenzene	ND	µg/L		0.18	1.0	3/30/2012 11:12:00 AM
Chloroethane	ND	µg/L		0.94	1.0	3/30/2012 11:12:00 AM
Chloroform	ND	µg/L		0.25	1.0	3/30/2012 11:12:00 AM
Chloromethane	ND	µg/L		0.33	1.0	3/30/2012 11:12:00 AM
2-Chlorotoluene	ND	µg/L		0.25	1.0	3/30/2012 11:12:00 AM
4-Chlorotoluene	ND	µg/L		0.28	1.0	3/30/2012 11:12:00 AM
Dibromochloromethane	ND	µg/L		0.42	1.0	3/30/2012 11:12:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	1.0	3/30/2012 11:12:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	3/30/2012 11:12:00 AM
Dibromomethane	ND	µg/L		0.29	1.0	3/30/2012 11:12:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	1.0	3/30/2012 11:12:00 AM
1,3-Dichlorobenzene	ND	µg/L		0.14	1.0	3/30/2012 11:12:00 AM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	3/30/2012 11:12:00 AM
Dichlorodifluoromethane	ND	µg/L		0.71	1.0	3/30/2012 11:12:00 AM
1,1-Dichloroethane	ND	µg/L		0.38	1.0	3/30/2012 11:12:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	3/30/2012 11:12:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	1.0	3/30/2012 11:12:00 AM
cis-1,2-Dichloroethene	ND	µg/L		0.23	1.0	3/30/2012 11:12:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	1.0	3/30/2012 11:12:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	3/30/2012 11:12:00 AM
1,3-Dichloropropane	ND	µg/L		0.71	1.0	3/30/2012 11:12:00 AM
2,2-Dichloropropane	ND	µg/L		0.23	1.0	3/30/2012 11:12:00 AM
1,1-Dichloropropene	ND	µg/L		0.33	1.0	3/30/2012 11:12:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	3/30/2012 11:12:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	3/30/2012 11:12:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	3/30/2012 11:12:00 AM

Key:	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

CLIENT:	TRIAD ENGINEERING -ST ALBANS	WorkOrder:	1203S27	Lab ID	1203S27-03A
Client Sample ID:	DW-32R3	DateReceived:	3/29/2012		
Project:	04-12-0091	Collection Date:	3/28/2012 7:30:00 PM		
Site ID:	PRENTER	Matrix:	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS

SW8260B

Analyst: **AS**

Hexachlorobutadiene	ND	µg/L		0.26	1.0	3/30/2012 11:12:00 AM
2-Hexanone	ND	µg/L		4.11	10.0	3/30/2012 11:12:00 AM
Iodomethane	ND	µg/L		3.44	10.0	3/30/2012 11:12:00 AM
Isopropylbenzene	ND	µg/L		0.23	1.0	3/30/2012 11:12:00 AM
4-Isopropyltoluene	ND	µg/L		0.24	1.0	3/30/2012 11:12:00 AM
Methylene chloride	ND	µg/L		0.54	1.0	3/30/2012 11:12:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	10.0	3/30/2012 11:12:00 AM
Methyl tert-butyl ether	ND	µg/L		0.76	5.0	3/30/2012 11:12:00 AM
Naphthalene	ND	µg/L		0.42	1.0	3/30/2012 11:12:00 AM
n-Propylbenzene	ND	µg/L		0.14	1.0	3/30/2012 11:12:00 AM
Styrene	ND	µg/L		0.24	1.0	3/30/2012 11:12:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	1.0	3/30/2012 11:12:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	1.0	3/30/2012 11:12:00 AM
Tetrachloroethene	ND	µg/L		0.20	1.0	3/30/2012 11:12:00 AM
Toluene	ND	µg/L		0.17	1.0	3/30/2012 11:12:00 AM
1,2,3-Trichlorobenzene	ND	µg/L		0.41	1.0	3/30/2012 11:12:00 AM
1,2,4-Trichlorobenzene	ND	µg/L		0.41	1.0	3/30/2012 11:12:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	3/30/2012 11:12:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	3/30/2012 11:12:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	3/30/2012 11:12:00 AM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	3/30/2012 11:12:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	3/30/2012 11:12:00 AM
1,2,4-Trimethylbenzene	ND	µg/L		0.28	1.0	3/30/2012 11:12:00 AM
1,3,5-Trimethylbenzene	ND	µg/L		0.28	1.0	3/30/2012 11:12:00 AM
Vinyl acetate	ND	µg/L		4.87	10.0	3/30/2012 11:12:00 AM
Vinyl chloride	ND	µg/L		0.22	1.0	3/30/2012 11:12:00 AM
o-Xylene	ND	µg/L		0.19	1.0	3/30/2012 11:12:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	3/30/2012 11:12:00 AM
Surr: 1,2-Dichloroethane-d4	101	%REC			80-120	3/30/2012 11:12:00 AM
Surr: 4-Bromofluorobenzene	94.5	%REC			86-115	3/30/2012 11:12:00 AM
Surr: Dibromofluoromethane	104	%REC			80-120	3/30/2012 11:12:00 AM
Surr: Toluene-d8	98.4	%REC			88-110	3/30/2012 11:12:00 AM

SURFACTANTS

SM5540 C

Analyst: **CC**

MBAS	ND	mg/L		0.100	0.250	3/30/2012 2:52:00 PM
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ANIONS BY ION CHROMATOGRAPHY

E300.0

Analyst: **CF**

Chloride	73.0	mg/L		0.500	5.00	3/31/2012 7:32:00 AM
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Key:	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

CLIENT:	TRIAD ENGINEERING -ST ALBANS	WorkOrder:	1203S27	Lab ID	1203S27-03A
Client Sample ID:	DW-32R3	DateReceived:	3/29/2012		
Project:	04-12-0091	Collection Date:	3/28/2012 7:30:00 PM		
Site ID:	PRENTER	Matrix:	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY			E300.0			Analyst: CF
Fluoride	0.49	mg/L		0.040	0.20	3/31/2012 7:32:00 AM
Sulfate	ND	mg/L		1.00	5.00	3/31/2012 7:32:00 AM
TOTAL DISSOLVED SOLIDS			SM2540 C			Analyst: SF
Total Dissolved Solids	404	mg/L		5.0	10	3/31/2012 10:07:00 AM
ACIDITY			SM2310 B			Analyst: DSD
Acidity, Total	8.8	mg/L	J	1.00	10.0	4/2/2012 11:42:00 AM
ALKALINITY			SM2320 B			Analyst: DSD
Alkalinity, Bicarbonate (As CaCO3)	133	mg/L		1.00	10.0	4/2/2012 11:42:00 AM
ALKALINITY			SM2320 B			Analyst: DSD
Alkalinity, Carbonate (As CaCO3)	ND	mg/L		1.00	10.0	4/2/2012 11:42:00 AM
ALKALINITY			SM2320 B			Analyst: DSD
Alkalinity, Total (As CaCO3)	133	mg/L		1.00	10.0	4/2/2012 11:42:00 AM
PH - LAB TEST, HOLD TIME EXPIRED			SM4500-H+-B			Analyst: DSD
pH	7.51	SU		NA	NA	4/2/2012 11:42:00 AM

Key:	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

CLIENT: TRIAD ENGINEERING -ST ALBANS
Client Sample ID: TRIP BLANK
Project: 04-12-0091
Site ID: PRENTER

WorkOrder: 1203S27 **Lab ID** 1203S27-04A
DateReceived: 3/29/2012
Collection Date: 3/28/2012
Matrix: TRIP BLANK

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260B		Analyst: AS	
Acetone	ND	µg/L		4.88	10.0	3/30/2012 11:45:00 AM
Acrolein	ND	µg/L		4.36	10.0	3/30/2012 11:45:00 AM
Acrylonitrile	ND	µg/L		4.24	10.0	3/30/2012 11:45:00 AM
Benzene	ND	µg/L		0.13	1.0	3/30/2012 11:45:00 AM
Bromobenzene	ND	µg/L		0.25	1.0	3/30/2012 11:45:00 AM
Bromochloromethane	ND	µg/L		0.35	1.0	3/30/2012 11:45:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	3/30/2012 11:45:00 AM
Bromoform	ND	µg/L		0.40	1.0	3/30/2012 11:45:00 AM
Bromomethane	ND	µg/L		0.50	1.0	3/30/2012 11:45:00 AM
2-Butanone	ND	µg/L		4.68	10.0	3/30/2012 11:45:00 AM
n-Butylbenzene	ND	µg/L		0.25	1.0	3/30/2012 11:45:00 AM
sec-Butylbenzene	ND	µg/L		0.28	1.0	3/30/2012 11:45:00 AM
tert-Butylbenzene	ND	µg/L		0.24	1.0	3/30/2012 11:45:00 AM
Carbon disulfide	ND	µg/L		1.27	5.0	3/30/2012 11:45:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	3/30/2012 11:45:00 AM
Chlorobenzene	ND	µg/L		0.18	1.0	3/30/2012 11:45:00 AM
Chloroethane	ND	µg/L		0.94	1.0	3/30/2012 11:45:00 AM
Chloroform	ND	µg/L		0.25	1.0	3/30/2012 11:45:00 AM
Chloromethane	ND	µg/L		0.33	1.0	3/30/2012 11:45:00 AM
2-Chlorotoluene	ND	µg/L		0.25	1.0	3/30/2012 11:45:00 AM
4-Chlorotoluene	ND	µg/L		0.28	1.0	3/30/2012 11:45:00 AM
Dibromochloromethane	ND	µg/L		0.42	1.0	3/30/2012 11:45:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	1.0	3/30/2012 11:45:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	3/30/2012 11:45:00 AM
Dibromomethane	ND	µg/L		0.29	1.0	3/30/2012 11:45:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	1.0	3/30/2012 11:45:00 AM
1,3-Dichlorobenzene	ND	µg/L		0.14	1.0	3/30/2012 11:45:00 AM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	3/30/2012 11:45:00 AM
Dichlorodifluoromethane	ND	µg/L		0.71	1.0	3/30/2012 11:45:00 AM
1,1-Dichloroethane	ND	µg/L		0.38	1.0	3/30/2012 11:45:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	3/30/2012 11:45:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	1.0	3/30/2012 11:45:00 AM
cis-1,2-Dichloroethene	ND	µg/L		0.23	1.0	3/30/2012 11:45:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	1.0	3/30/2012 11:45:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	3/30/2012 11:45:00 AM
1,3-Dichloropropane	ND	µg/L		0.71	1.0	3/30/2012 11:45:00 AM
2,2-Dichloropropane	ND	µg/L		0.23	1.0	3/30/2012 11:45:00 AM

Key:	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

CLIENT:	TRIAD ENGINEERING -ST ALBANS	WorkOrder:	1203S27	Lab ID	1203S27-04A
Client Sample ID:	TRIP BLANK	DateReceived:	3/29/2012		
Project:	04-12-0091	Collection Date:	3/28/2012		
Site ID:	PRENTER	Matrix:	TRIP BLANK		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260B		Analyst: AS	
1,1-Dichloropropene	ND	µg/L		0.33	1.0	3/30/2012 11:45:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	3/30/2012 11:45:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	3/30/2012 11:45:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	3/30/2012 11:45:00 AM
Hexachlorobutadiene	ND	µg/L		0.26	1.0	3/30/2012 11:45:00 AM
2-Hexanone	ND	µg/L		4.11	10.0	3/30/2012 11:45:00 AM
Iodomethane	ND	µg/L		3.44	10.0	3/30/2012 11:45:00 AM
Isopropylbenzene	ND	µg/L		0.23	1.0	3/30/2012 11:45:00 AM
4-Isopropyltoluene	ND	µg/L		0.24	1.0	3/30/2012 11:45:00 AM
Methylene chloride	ND	µg/L		0.54	1.0	3/30/2012 11:45:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	10.0	3/30/2012 11:45:00 AM
Methyl tert-butyl ether	ND	µg/L		0.76	5.0	3/30/2012 11:45:00 AM
Naphthalene	ND	µg/L		0.42	1.0	3/30/2012 11:45:00 AM
n-Propylbenzene	ND	µg/L		0.14	1.0	3/30/2012 11:45:00 AM
Styrene	ND	µg/L		0.24	1.0	3/30/2012 11:45:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	1.0	3/30/2012 11:45:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	1.0	3/30/2012 11:45:00 AM
Tetrachloroethene	ND	µg/L		0.20	1.0	3/30/2012 11:45:00 AM
Toluene	ND	µg/L		0.17	1.0	3/30/2012 11:45:00 AM
1,2,3-Trichlorobenzene	ND	µg/L		0.41	1.0	3/30/2012 11:45:00 AM
1,2,4-Trichlorobenzene	ND	µg/L		0.41	1.0	3/30/2012 11:45:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	3/30/2012 11:45:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	3/30/2012 11:45:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	3/30/2012 11:45:00 AM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	3/30/2012 11:45:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	3/30/2012 11:45:00 AM
1,2,4-Trimethylbenzene	ND	µg/L		0.28	1.0	3/30/2012 11:45:00 AM
1,3,5-Trimethylbenzene	ND	µg/L		0.28	1.0	3/30/2012 11:45:00 AM
Vinyl acetate	ND	µg/L		4.87	10.0	3/30/2012 11:45:00 AM
Vinyl chloride	ND	µg/L		0.22	1.0	3/30/2012 11:45:00 AM
o-Xylene	ND	µg/L		0.19	1.0	3/30/2012 11:45:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	3/30/2012 11:45:00 AM
Surr: 1,2-Dichloroethane-d4	106	%REC			80-120	3/30/2012 11:45:00 AM
Surr: 4-Bromofluorobenzene	102	%REC			86-115	3/30/2012 11:45:00 AM
Surr: Dibromofluoromethane	104	%REC			80-120	3/30/2012 11:45:00 AM
Surr: Toluene-d8	99.0	%REC			88-110	3/30/2012 11:45:00 AM

Key:	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

NO. 353311

CHAIN OF CUSTODY RECORD



Research Environmental & Industrial Consultants, Inc.

MAIN LABORATORY & CORPORATE HEADQUARTERS:

P.O. Box 286 • 225 Industrial Park Rd, Beaver, WV 25813
800-999-0105 • 304-255-2500 • www.reiclabs.com

MID-OHIO VALLEY
Service Center
101 17th Street
Ashland, KY 41101
606-393-5027

SHENANDOAH
Service Center
1557 Commerce Rd., Ste. 201
Verona, VA 24482
540-248-0183

ROANOKE
Service Center
3029-C Peters Creek Rd
Roanoke, VA 24019
540-777-1276

Client: TRIAD ENGINEERING, INC. PO # 04-12-0091
Contact Person: JOHN MEEKS Phone: 304.755.0721
QUOTE # _____ Fax: 304.755.1880 Email: JMEEKS@TRIADENG.COM
Address: 4980 TEAYS VALLEY RD. City SCOTT DEPOT State WV Zip 25560
Billing Address (if different) _____
City _____ State _____ Zip _____
Site ID & State PRENTER Project ID 04-12-0091 Sampler _____

SAMPLE LOG & ANALYSIS REQUEST

TURNAROUND TIME RUSH TURNAROUND

NORMAL 5 DAY 3 DAY 2 DAY 1 DAY

*Rush work needs prior laboratory approval and will incur additional charges

ANALYSIS & METHOD REQUESTED

- PRIMARY SDWA METALS
- SECONDARY SDWA PARAMETERS
- AMD INDICATOR
- VOC
- CATIONS/ANIONS

SAMPLE ID	No. & Type of Containers	Sampling Date/Time	Matrix	Sample Comp/Grab														
VF-3		4.5.12/1000	W	G														
VF-4		4.5.12/1020	W	G														
GW-1		4.5.12/1100	W	G														
GW-2		4.5.12/1230	W	G														
GW-3		4.5.12/1430	W	G														
Trip Blank-MHA	1																	

ENTER PRESERVATIVE CODE:

0 None	5 Sodium Hydroxide
1 Hydrochloric Acid	6 Zinc Acetate
2 Nitric Acid	7 EDTA
3 Sulfuric Acid	8 Ascorbic Acid
4 Sodium Thiosulfate	

COMMENTS:
EMAIL RESULTS TO:
JMEEKS@TRIADENG.COM
MWRIGHT@TRIADENG.COM

All analytical requests are subject to REIC's Standard Terms and Conditions. Temperature at arrival: 20 °C ICED? Y N

1 Relinquished by (signature) <i>[Signature]</i>	4.6.12 Date/Time	2 Relinquished by (signature)	Date/Time	FAX RESULTS <input type="checkbox"/>	EMAIL RESULTS <input checked="" type="checkbox"/>
Received by (signature) <i>[Signature]</i>	4/6/12 Date/Time	Received by (signature)	Date/Time	SHIPMENT: <input type="checkbox"/> Hand Delivered <input checked="" type="checkbox"/> Courier <input type="checkbox"/> UPS <input type="checkbox"/> FEDEX <input type="checkbox"/> USPS <input type="checkbox"/> OTHER	

COC-NCR-031110



Improving the environment, one client at a time...

225 Industrial Park Drive
Beaver, WV 25813
TEL: 304.255.2500
FAX: 304.255.2572

3029-C Peters Creek Road
Roanoke, VA 24019
TEL: 540.777.1276
FAX: 540.400.8508

101 17th Street
Ashland, KY 41101
TEL: 606.393.5027

1557 Commerce Road, Suite 201
Verona, VA 24482
TEL: 540.248.0183

April 12, 2012

Mr. John Meeks
TRIAD ENGINEERING -ST ALBANS
4980 TEAYS VALLEY RD
SCOTT DEPOT WV 25560

TEL: (304) 755-0721

FAX (304) 755-1880

RE: 04-12-0091

Order No.: 1204656

Dear Mr. John Meeks:

REI Consultants, Inc. received 6 sample(s) on 4/6/2012 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative. Quality control data was within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Jimmy Suttle

Project Manager





Improving the environment, one client at a time...

225 Industrial Park Drive
Beaver, WV 25813
TEL: 304.255.2500
FAX: 304.255.2572

3029-C Peters Creek Road
Roanoke, VA 24019
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101 17th Street
Ashland, KY 41101
TEL: 606.393.5027

1557 Commerce Road, Suite 201
Verona, VA 24482
TEL: 540.248.0183

Report Narrative

Project Manager:: **Jimmy Suttle**

WO#: **1204656**
Date: **4/12/2012**

CLIENT: TRIAD ENGINEERING -ST ALBANS
Project: 04-12-0091

The analytical results presented in this report relate only to the samples documented herein. All analyses were performed using documented laboratory SOPs that incorporate appropriate quality control procedures as described in the applicable methods. Any deviation from compliance or method modification is explained below and/or identified within the body of this report by a qualifier footnote which is defined at the bottom of each page.

All sample results are reported on an "as-received" wet weight basis unless otherwise noted.

Results reported for sums of individual parameters, such as Total Trihalomethanes (TTHM) and Total Haloacetic Acids (HAA5), may vary slightly from the sum of the individual parameter results. This apparent anomaly is caused by rounding individual results and summations at reporting, as required by EPA.

The test results in this report meet all NELAP and VELAP requirements for parameters for which accreditations are required or available. Any exceptions are noted in this report. This report may not be reproduced, except in full, without the written approval of REIC.

In compliance with federal guidelines and standard operating procedures, all reports, including raw data and supporting quality control, will be disposed of after five years unless otherwise arranged by the client via written notification or contract requirement.

If you have any questions please contact the project manager whose name is listed above.

CLIENT:	TRIAD ENGINEERING -ST ALBANS	WorkOrder:	1204656	Lab ID	1204656-01A
Client Sample ID:	VF-3	DateReceived:	4/6/2012		
Project:	04-12-0091	Collection Date:	4/5/2012 10:00:00 AM		
Site ID:	PRENTER	Matrix:	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
METALS BY ICP			E200.7		Analyst: LF	
Aluminum	4.48	mg/L		0.0600	1.00	4/11/2012 10:13:25 PM
Calcium	230	mg/L		0.500	10.0	4/11/2012 10:13:25 PM
Cobalt	0.312	mg/L	J	0.0300	1.00	4/11/2012 10:13:25 PM
Iron	0.152	mg/L	J	0.100	1.00	4/11/2012 10:13:25 PM
Magnesium	329	mg/L		0.500	5.00	4/11/2012 10:13:25 PM
Manganese	31.5	mg/L		0.0200	1.00	4/11/2012 10:13:25 PM
Potassium	16.5	mg/L		0.500	5.00	4/11/2012 10:13:25 PM
Sodium	5.89	mg/L	J	0.500	10.0	4/11/2012 10:13:25 PM
Zinc	0.472	mg/L	J	0.0300	0.500	4/11/2012 10:13:25 PM
METALS BY ICP-MS			E200.8		Analyst: JD	
Antimony	ND	mg/L		0.00020	0.0010	4/10/2012 6:56:00 PM
Arsenic	ND	mg/L		0.00100	0.0050	4/10/2012 6:56:00 PM
Barium	0.0116	mg/L		0.00100	0.0050	4/10/2012 6:56:00 PM
Beryllium	0.0108	mg/L		0.00020	0.0010	4/10/2012 6:56:00 PM
Cadmium	0.0012	mg/L		0.00020	0.0010	4/10/2012 6:56:00 PM
Chromium	ND	mg/L		0.00100	0.0050	4/10/2012 6:56:00 PM
Copper	0.0178	mg/L		0.00100	0.0050	4/10/2012 6:56:00 PM
Lead	0.0009	mg/L	J	0.00020	0.0010	4/10/2012 6:56:00 PM
Molybdenum	ND	mg/L		0.00100	0.0050	4/10/2012 6:56:00 PM
Nickel	0.499	mg/L		0.00200	0.0100	4/10/2012 6:56:00 PM
Selenium	0.0034	mg/L	J	0.00100	0.0050	4/10/2012 6:56:00 PM
Silver	ND	mg/L		0.00100	0.0050	4/10/2012 6:56:00 PM
Strontium	0.973	mg/L		0.00100	0.0050	4/10/2012 6:56:00 PM
Thallium	0.0002	mg/L	J	0.00020	0.0010	4/10/2012 6:56:00 PM
Tin	ND	mg/L		0.00100	0.0050	4/10/2012 6:56:00 PM
Titanium	0.0226	mg/L		0.00100	0.0050	4/10/2012 6:56:00 PM
Uranium	ND	mg/L		0.00100	0.0100	4/10/2012 6:56:00 PM
Vanadium	ND	mg/L		0.00100	0.0100	4/10/2012 6:56:00 PM
MERCURY, TOTAL			E245.1		Analyst: DS	
Mercury	ND	mg/L		0.00010	0.0010	4/11/2012 10:30:32 AM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Analyst: AS	
Acetone	ND	µg/L		4.88	10.0	4/9/2012 3:23:00 PM
Acrolein	ND	µg/L		4.36	10.0	4/9/2012 3:23:00 PM
Acrylonitrile	ND	µg/L		4.24	10.0	4/9/2012 3:23:00 PM
Benzene	ND	µg/L		0.13	1.0	4/9/2012 3:23:00 PM

Key:	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

CLIENT:	TRIAD ENGINEERING -ST ALBANS	WorkOrder:	1204656	Lab ID	1204656-01A
Client Sample ID:	VF-3	DateReceived:	4/6/2012		
Project:	04-12-0091	Collection Date:	4/5/2012 10:00:00 AM		
Site ID:	PRENTER	Matrix:	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS

SW8260B

Analyst: **AS**

Bromobenzene	ND	µg/L		0.25	1.0	4/9/2012 3:23:00 PM
Bromochloromethane	ND	µg/L		0.35	1.0	4/9/2012 3:23:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/9/2012 3:23:00 PM
Bromoform	ND	µg/L		0.40	1.0	4/9/2012 3:23:00 PM
Bromomethane	ND	µg/L		0.50	1.0	4/9/2012 3:23:00 PM
2-Butanone	ND	µg/L		4.68	10.0	4/9/2012 3:23:00 PM
n-Butylbenzene	ND	µg/L		0.25	1.0	4/9/2012 3:23:00 PM
sec-Butylbenzene	ND	µg/L		0.28	1.0	4/9/2012 3:23:00 PM
tert-Butylbenzene	ND	µg/L		0.24	1.0	4/9/2012 3:23:00 PM
Carbon disulfide	ND	µg/L		1.27	5.0	4/9/2012 3:23:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/9/2012 3:23:00 PM
Chlorobenzene	ND	µg/L		0.18	1.0	4/9/2012 3:23:00 PM
Chloroethane	ND	µg/L		0.94	1.0	4/9/2012 3:23:00 PM
Chloroform	ND	µg/L		0.25	1.0	4/9/2012 3:23:00 PM
Chloromethane	ND	µg/L		0.33	1.0	4/9/2012 3:23:00 PM
2-Chlorotoluene	ND	µg/L		0.25	1.0	4/9/2012 3:23:00 PM
4-Chlorotoluene	ND	µg/L		0.28	1.0	4/9/2012 3:23:00 PM
Dibromochloromethane	ND	µg/L		0.42	1.0	4/9/2012 3:23:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	1.0	4/9/2012 3:23:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/9/2012 3:23:00 PM
Dibromomethane	ND	µg/L		0.29	1.0	4/9/2012 3:23:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	1.0	4/9/2012 3:23:00 PM
1,3-Dichlorobenzene	ND	µg/L		0.14	1.0	4/9/2012 3:23:00 PM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	4/9/2012 3:23:00 PM
Dichlorodifluoromethane	ND	µg/L		0.71	1.0	4/9/2012 3:23:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	1.0	4/9/2012 3:23:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/9/2012 3:23:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	1.0	4/9/2012 3:23:00 PM
cis-1,2-Dichloroethene	ND	µg/L		0.23	1.0	4/9/2012 3:23:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	1.0	4/9/2012 3:23:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/9/2012 3:23:00 PM
1,3-Dichloropropane	ND	µg/L		0.71	1.0	4/9/2012 3:23:00 PM
2,2-Dichloropropane	ND	µg/L		0.23	1.0	4/9/2012 3:23:00 PM
1,1-Dichloropropene	ND	µg/L		0.33	1.0	4/9/2012 3:23:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/9/2012 3:23:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/9/2012 3:23:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/9/2012 3:23:00 PM

Key:	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
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CLIENT:	TRIAD ENGINEERING -ST ALBANS	WorkOrder:	1204656	Lab ID	1204656-01A
Client Sample ID:	VF-3	DateReceived:	4/6/2012		
Project:	04-12-0091	Collection Date:	4/5/2012 10:00:00 AM		
Site ID:	PRENTER	Matrix:	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS

SW8260B

Analyst: **AS**

Hexachlorobutadiene	ND	µg/L		0.26	1.0	4/9/2012 3:23:00 PM
2-Hexanone	ND	µg/L		4.11	10.0	4/9/2012 3:23:00 PM
Iodomethane	ND	µg/L		3.44	10.0	4/9/2012 3:23:00 PM
Isopropylbenzene	ND	µg/L		0.23	1.0	4/9/2012 3:23:00 PM
4-Isopropyltoluene	ND	µg/L		0.24	1.0	4/9/2012 3:23:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/9/2012 3:23:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	10.0	4/9/2012 3:23:00 PM
Methyl tert-butyl ether	ND	µg/L		0.76	5.0	4/9/2012 3:23:00 PM
Naphthalene	ND	µg/L		0.42	1.0	4/9/2012 3:23:00 PM
n-Propylbenzene	ND	µg/L		0.14	1.0	4/9/2012 3:23:00 PM
Styrene	ND	µg/L		0.24	1.0	4/9/2012 3:23:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	1.0	4/9/2012 3:23:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	1.0	4/9/2012 3:23:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/9/2012 3:23:00 PM
Toluene	ND	µg/L		0.17	1.0	4/9/2012 3:23:00 PM
1,2,3-Trichlorobenzene	ND	µg/L		0.41	1.0	4/9/2012 3:23:00 PM
1,2,4-Trichlorobenzene	ND	µg/L		0.41	1.0	4/9/2012 3:23:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/9/2012 3:23:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/9/2012 3:23:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	4/9/2012 3:23:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/9/2012 3:23:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/9/2012 3:23:00 PM
1,2,4-Trimethylbenzene	ND	µg/L		0.28	1.0	4/9/2012 3:23:00 PM
1,3,5-Trimethylbenzene	ND	µg/L		0.28	1.0	4/9/2012 3:23:00 PM
Vinyl acetate	ND	µg/L		4.87	10.0	4/9/2012 3:23:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	4/9/2012 3:23:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/9/2012 3:23:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/9/2012 3:23:00 PM
Surr: 1,2-Dichloroethane-d4	100	%REC			80-120	4/9/2012 3:23:00 PM
Surr: 4-Bromofluorobenzene	96.2	%REC			86-115	4/9/2012 3:23:00 PM
Surr: Dibromofluoromethane	111	%REC			80-120	4/9/2012 3:23:00 PM
Surr: Toluene-d8	90.8	%REC			88-110	4/9/2012 3:23:00 PM

SURFACTANTS

SM5540 C

Analyst: **CC**

MBAS	ND	mg/L		0.0250	0.062	4/6/2012 5:04:00 PM
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ANIONS BY ION CHROMATOGRAPHY

E300.0

Analyst: **CF**

Chloride	1.51	mg/L		0.100	1.00	4/10/2012 7:57:00 PM
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Key:	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

CLIENT:	TRIAD ENGINEERING -ST ALBANS	WorkOrder:	1204656	Lab ID	1204656-01A
Client Sample ID:	VF-3	DateReceived:	4/6/2012		
Project:	04-12-0091	Collection Date:	4/5/2012 10:00:00 AM		
Site ID:	PRENTER	Matrix:	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY			E300.0			Analyst: CF
Fluoride	0.46	mg/L		0.040	0.20	4/10/2012 7:57:00 PM
Sulfate	1,860	mg/L		100	500	4/10/2012 7:57:00 PM
TOTAL DISSOLVED SOLIDS			SM2540 C			Analyst: SF
Total Dissolved Solids	1,900	mg/L		20.0	40	4/7/2012 3:17:00 PM
ACIDITY			SM2310 B			Analyst: DSD
Acidity, Total	131	mg/L		1.00	10.0	4/9/2012 10:00:00 AM
ALKALINITY			SM2320 B			Analyst: DSD
Alkalinity, Bicarbonate (As CaCO3)	1.7	mg/L	J	1.00	10.0	4/9/2012 10:00:00 AM
ALKALINITY			SM2320 B			Analyst: DSD
Alkalinity, Carbonate (As CaCO3)	ND	mg/L		1.00	10.0	4/9/2012 10:00:00 AM
ALKALINITY			SM2320 B			Analyst: DSD
Alkalinity, Total (As CaCO3)	1.7	mg/L	J	1.00	10.0	4/9/2012 10:00:00 AM
PH - LAB TEST, HOLD TIME EXPIRED			SM4500-H+-B			Analyst: DSD
pH	4.45	SU		NA	NA	4/9/2012 10:00:00 AM

Key:	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

CLIENT: TRIAD ENGINEERING -ST ALBANS
Client Sample ID: VF-4
Project: 04-12-0091
Site ID: PRENTER

WorkOrder: 1204656 **Lab ID** 1204656-02A
DateReceived: 4/6/2012
Collection Date: 4/5/2012 10:20:00 AM
Matrix: LIQUID

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
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METALS BY ICP

E200.7

Analyst: **LF**

Aluminum	11.5	mg/L		0.0600	1.00	4/11/2012 10:16:28 PM
Calcium	258	mg/L		0.500	10.0	4/11/2012 10:16:28 PM
Cobalt	0.564	mg/L	J	0.0300	1.00	4/11/2012 10:16:28 PM
Iron	ND	mg/L		0.100	1.00	4/11/2012 10:16:28 PM
Magnesium	415	mg/L		0.500	5.00	4/11/2012 10:16:28 PM
Manganese	45.5	mg/L		0.0200	1.00	4/11/2012 10:16:28 PM
Potassium	17.8	mg/L		0.500	5.00	4/11/2012 10:16:28 PM
Sodium	6.68	mg/L	J	0.500	10.0	4/11/2012 10:16:28 PM
Zinc	0.952	mg/L		0.0300	0.500	4/11/2012 10:16:28 PM

METALS BY ICP-MS

E200.8

Analyst: **JD**

Antimony	ND	mg/L		0.00020	0.0010	4/10/2012 7:12:00 PM
Arsenic	ND	mg/L		0.00100	0.0050	4/10/2012 7:12:00 PM
Barium	0.0110	mg/L		0.00100	0.0050	4/10/2012 7:12:00 PM
Beryllium	0.0204	mg/L		0.00020	0.0010	4/10/2012 7:12:00 PM
Cadmium	0.0017	mg/L		0.00020	0.0010	4/10/2012 7:12:00 PM
Chromium	ND	mg/L		0.00100	0.0050	4/10/2012 7:12:00 PM
Copper	0.0216	mg/L		0.00100	0.0050	4/10/2012 7:12:00 PM
Lead	0.0041	mg/L		0.00020	0.0010	4/10/2012 7:12:00 PM
Molybdenum	0.0023	mg/L	J	0.00100	0.0050	4/10/2012 7:12:00 PM
Nickel	0.673	mg/L		0.00200	0.0100	4/10/2012 7:12:00 PM
Selenium	0.0043	mg/L	J	0.00100	0.0050	4/10/2012 7:12:00 PM
Silver	ND	mg/L		0.00100	0.0050	4/10/2012 7:12:00 PM
Strontium	0.867	mg/L		0.00100	0.0050	4/10/2012 7:12:00 PM
Thallium	0.0005	mg/L	J	0.00020	0.0010	4/10/2012 7:12:00 PM
Tin	ND	mg/L		0.00100	0.0050	4/10/2012 7:12:00 PM
Titanium	0.0228	mg/L		0.00100	0.0050	4/10/2012 7:12:00 PM
Uranium	0.0014	mg/L	J	0.00100	0.0100	4/10/2012 7:12:00 PM
Vanadium	ND	mg/L		0.00100	0.0100	4/10/2012 7:12:00 PM

MERCURY, TOTAL

E245.1

Analyst: **DS**

Mercury	ND	mg/L		0.00010	0.0010	4/11/2012 10:32:43 AM
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VOLATILE ORGANIC COMPOUNDS

SW8260B

Analyst: **AS**

Acetone	ND	µg/L		4.88	10.0	4/9/2012 3:58:00 PM
Acrolein	ND	µg/L		4.36	10.0	4/9/2012 3:58:00 PM
Acrylonitrile	ND	µg/L		4.24	10.0	4/9/2012 3:58:00 PM
Benzene	ND	µg/L		0.13	1.0	4/9/2012 3:58:00 PM

Key:	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

CLIENT:	TRIAD ENGINEERING -ST ALBANS	WorkOrder:	1204656	Lab ID	1204656-02A
Client Sample ID:	VF-4	DateReceived:	4/6/2012		
Project:	04-12-0091	Collection Date:	4/5/2012 10:20:00 AM		
Site ID:	PRENTER	Matrix:	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS

SW8260B

Analyst: **AS**

Bromobenzene	ND	µg/L		0.25	1.0	4/9/2012 3:58:00 PM
Bromochloromethane	ND	µg/L		0.35	1.0	4/9/2012 3:58:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/9/2012 3:58:00 PM
Bromoform	ND	µg/L		0.40	1.0	4/9/2012 3:58:00 PM
Bromomethane	ND	µg/L		0.50	1.0	4/9/2012 3:58:00 PM
2-Butanone	ND	µg/L		4.68	10.0	4/9/2012 3:58:00 PM
n-Butylbenzene	ND	µg/L		0.25	1.0	4/9/2012 3:58:00 PM
sec-Butylbenzene	ND	µg/L		0.28	1.0	4/9/2012 3:58:00 PM
tert-Butylbenzene	ND	µg/L		0.24	1.0	4/9/2012 3:58:00 PM
Carbon disulfide	ND	µg/L		1.27	5.0	4/9/2012 3:58:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/9/2012 3:58:00 PM
Chlorobenzene	ND	µg/L		0.18	1.0	4/9/2012 3:58:00 PM
Chloroethane	ND	µg/L		0.94	1.0	4/9/2012 3:58:00 PM
Chloroform	ND	µg/L		0.25	1.0	4/9/2012 3:58:00 PM
Chloromethane	ND	µg/L		0.33	1.0	4/9/2012 3:58:00 PM
2-Chlorotoluene	ND	µg/L		0.25	1.0	4/9/2012 3:58:00 PM
4-Chlorotoluene	ND	µg/L		0.28	1.0	4/9/2012 3:58:00 PM
Dibromochloromethane	ND	µg/L		0.42	1.0	4/9/2012 3:58:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	1.0	4/9/2012 3:58:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/9/2012 3:58:00 PM
Dibromomethane	ND	µg/L		0.29	1.0	4/9/2012 3:58:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	1.0	4/9/2012 3:58:00 PM
1,3-Dichlorobenzene	ND	µg/L		0.14	1.0	4/9/2012 3:58:00 PM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	4/9/2012 3:58:00 PM
Dichlorodifluoromethane	ND	µg/L		0.71	1.0	4/9/2012 3:58:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	1.0	4/9/2012 3:58:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/9/2012 3:58:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	1.0	4/9/2012 3:58:00 PM
cis-1,2-Dichloroethene	ND	µg/L		0.23	1.0	4/9/2012 3:58:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	1.0	4/9/2012 3:58:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/9/2012 3:58:00 PM
1,3-Dichloropropane	ND	µg/L		0.71	1.0	4/9/2012 3:58:00 PM
2,2-Dichloropropane	ND	µg/L		0.23	1.0	4/9/2012 3:58:00 PM
1,1-Dichloropropene	ND	µg/L		0.33	1.0	4/9/2012 3:58:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/9/2012 3:58:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/9/2012 3:58:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/9/2012 3:58:00 PM

Key:	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

CLIENT:	TRIAD ENGINEERING -ST ALBANS	WorkOrder:	1204656	Lab ID	1204656-02A
Client Sample ID:	VF-4	DateReceived:	4/6/2012		
Project:	04-12-0091	Collection Date:	4/5/2012 10:20:00 AM		
Site ID:	PRENTER	Matrix:	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS

SW8260B

Analyst: **AS**

Hexachlorobutadiene	ND	µg/L		0.26	1.0	4/9/2012 3:58:00 PM
2-Hexanone	ND	µg/L		4.11	10.0	4/9/2012 3:58:00 PM
Iodomethane	ND	µg/L		3.44	10.0	4/9/2012 3:58:00 PM
Isopropylbenzene	ND	µg/L		0.23	1.0	4/9/2012 3:58:00 PM
4-Isopropyltoluene	ND	µg/L		0.24	1.0	4/9/2012 3:58:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/9/2012 3:58:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	10.0	4/9/2012 3:58:00 PM
Methyl tert-butyl ether	ND	µg/L		0.76	5.0	4/9/2012 3:58:00 PM
Naphthalene	ND	µg/L		0.42	1.0	4/9/2012 3:58:00 PM
n-Propylbenzene	ND	µg/L		0.14	1.0	4/9/2012 3:58:00 PM
Styrene	ND	µg/L		0.24	1.0	4/9/2012 3:58:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	1.0	4/9/2012 3:58:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	1.0	4/9/2012 3:58:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/9/2012 3:58:00 PM
Toluene	ND	µg/L		0.17	1.0	4/9/2012 3:58:00 PM
1,2,3-Trichlorobenzene	ND	µg/L		0.41	1.0	4/9/2012 3:58:00 PM
1,2,4-Trichlorobenzene	ND	µg/L		0.41	1.0	4/9/2012 3:58:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/9/2012 3:58:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/9/2012 3:58:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	4/9/2012 3:58:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/9/2012 3:58:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/9/2012 3:58:00 PM
1,2,4-Trimethylbenzene	ND	µg/L		0.28	1.0	4/9/2012 3:58:00 PM
1,3,5-Trimethylbenzene	ND	µg/L		0.28	1.0	4/9/2012 3:58:00 PM
Vinyl acetate	ND	µg/L		4.87	10.0	4/9/2012 3:58:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	4/9/2012 3:58:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/9/2012 3:58:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/9/2012 3:58:00 PM
Surr: 1,2-Dichloroethane-d4	101	%REC			80-120	4/9/2012 3:58:00 PM
Surr: 4-Bromofluorobenzene	97.6	%REC			86-115	4/9/2012 3:58:00 PM
Surr: Dibromofluoromethane	113	%REC			80-120	4/9/2012 3:58:00 PM
Surr: Toluene-d8	90.3	%REC			88-110	4/9/2012 3:58:00 PM

SURFACTANTS

SM5540 C

Analyst: **CC**

MBAS	ND	mg/L		0.0250	0.062	4/6/2012 5:04:00 PM
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ANIONS BY ION CHROMATOGRAPHY

E300.0

Analyst: **CF**

Chloride	2.05	mg/L		0.100	1.00	4/10/2012 9:26:00 PM
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Key:	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

CLIENT:	TRIAD ENGINEERING -ST ALBANS	WorkOrder:	1204656	Lab ID	1204656-02A
Client Sample ID:	VF-4	DateReceived:	4/6/2012		
Project:	04-12-0091	Collection Date:	4/5/2012 10:20:00 AM		
Site ID:	PRENTER	Matrix:	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY			E300.0			Analyst: CF
Fluoride	0.70	mg/L		0.040	0.20	4/10/2012 9:26:00 PM
Sulfate	2,110	mg/L		100	500	4/10/2012 9:26:00 PM
TOTAL DISSOLVED SOLIDS			SM2540 C			Analyst: SF
Total Dissolved Solids	2,450	mg/L		20.0	40	4/7/2012 3:17:00 PM
ACIDITY			SM2310 B			Analyst: DSD
Acidity, Total	114	mg/L		1.00	10.0	4/9/2012 10:00:00 AM
ALKALINITY			SM2320 B			Analyst: DSD
Alkalinity, Bicarbonate (As CaCO3)	1.0	mg/L	J	1.00	10.0	4/9/2012 10:00:00 AM
ALKALINITY			SM2320 B			Analyst: DSD
Alkalinity, Carbonate (As CaCO3)	ND	mg/L		1.00	10.0	4/9/2012 10:00:00 AM
ALKALINITY			SM2320 B			Analyst: DSD
Alkalinity, Total (As CaCO3)	1.0	mg/L	J	1.00	10.0	4/9/2012 10:00:00 AM
PH - LAB TEST, HOLD TIME EXPIRED			SM4500-H+-B			Analyst: DSD
pH	4.42	SU		NA	NA	4/9/2012 10:00:00 AM

Key:	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

CLIENT:	TRIAD ENGINEERING -ST ALBANS	WorkOrder:	1204656	Lab ID	1204656-03A
Client Sample ID:	GW-1	DateReceived:	4/6/2012		
Project:	04-12-0091	Collection Date:	4/5/2012 11:00:00 AM		
Site ID:	PRENTER	Matrix:	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
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METALS BY ICP

E200.7

Analyst: **LF**

Aluminum	0.215	mg/L		0.0060	0.100	4/10/2012 5:27:15 PM
Calcium	4.12	mg/L		0.0500	1.00	4/10/2012 5:27:15 PM
Cobalt	ND	mg/L		0.0030	0.100	4/10/2012 5:27:15 PM
Iron	0.328	mg/L		0.0100	0.100	4/10/2012 5:27:15 PM
Magnesium	7.29	mg/L		0.0500	0.500	4/10/2012 5:27:15 PM
Manganese	0.025	mg/L	J	0.0020	0.100	4/10/2012 5:27:15 PM
Potassium	1.76	mg/L		0.0500	0.500	4/10/2012 5:27:15 PM
Sodium	2.05	mg/L		0.0500	1.00	4/10/2012 5:27:15 PM
Zinc	0.008	mg/L	J	0.0050	0.050	4/10/2012 5:27:15 PM

NOTES:

Initial calibration verification for K was just outside method target. Continuing calibration verification was within criteria. The impact on data quality is negligible.

METALS BY ICP-MS

E200.8

Analyst: **JD**

Antimony	ND	mg/L		0.00020	0.0010	4/10/2012 7:17:00 PM
Arsenic	ND	mg/L		0.00100	0.0050	4/10/2012 7:17:00 PM
Barium	0.0536	mg/L		0.00100	0.0050	4/10/2012 7:17:00 PM
Beryllium	ND	mg/L		0.00020	0.0010	4/10/2012 7:17:00 PM
Cadmium	ND	mg/L		0.00020	0.0010	4/10/2012 7:17:00 PM
Chromium	ND	mg/L		0.00100	0.0050	4/10/2012 7:17:00 PM
Copper	0.0019	mg/L	J	0.00100	0.0050	4/10/2012 7:17:00 PM
Lead	0.0005	mg/L	J	0.00020	0.0010	4/10/2012 7:17:00 PM
Molybdenum	0.0023	mg/L	J	0.00100	0.0050	4/10/2012 7:17:00 PM
Nickel	0.0023	mg/L	J	0.00200	0.0100	4/10/2012 7:17:00 PM
Selenium	ND	mg/L		0.00100	0.0050	4/10/2012 7:17:00 PM
Silver	ND	mg/L		0.00100	0.0050	4/10/2012 7:17:00 PM
Strontium	0.0532	mg/L		0.00100	0.0050	4/10/2012 7:17:00 PM
Thallium	ND	mg/L		0.00020	0.0010	4/10/2012 7:17:00 PM
Tin	ND	mg/L		0.00100	0.0050	4/10/2012 7:17:00 PM
Titanium	0.0026	mg/L	J	0.00100	0.0050	4/10/2012 7:17:00 PM
Uranium	ND	mg/L		0.00100	0.0100	4/10/2012 7:17:00 PM
Vanadium	ND	mg/L		0.00100	0.0100	4/10/2012 7:17:00 PM

MERCURY, TOTAL

E245.1

Analyst: **DS**

Mercury	ND	mg/L		0.00010	0.0010	4/11/2012 10:34:54 AM
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VOLATILE ORGANIC COMPOUNDS

SW8260B

Analyst: **AS**

Acetone	ND	µg/L		4.88	10.0	4/9/2012 4:55:00 PM
Acrolein	ND	µg/L		4.36	10.0	4/9/2012 4:55:00 PM

Key:	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

CLIENT:	TRIAD ENGINEERING -ST ALBANS	WorkOrder:	1204656	Lab ID	1204656-03A
Client Sample ID:	GW-1	DateReceived:	4/6/2012		
Project:	04-12-0091	Collection Date:	4/5/2012 11:00:00 AM		
Site ID:	PRENTER	Matrix:	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS

SW8260B

Analyst: **AS**

Acrylonitrile	ND	µg/L		4.24	10.0	4/9/2012 4:55:00 PM
Benzene	ND	µg/L		0.13	1.0	4/9/2012 4:55:00 PM
Bromobenzene	ND	µg/L		0.25	1.0	4/9/2012 4:55:00 PM
Bromochloromethane	ND	µg/L		0.35	1.0	4/9/2012 4:55:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/9/2012 4:55:00 PM
Bromoform	ND	µg/L		0.40	1.0	4/9/2012 4:55:00 PM
Bromomethane	ND	µg/L		0.50	1.0	4/9/2012 4:55:00 PM
2-Butanone	ND	µg/L		4.68	10.0	4/9/2012 4:55:00 PM
n-Butylbenzene	ND	µg/L		0.25	1.0	4/9/2012 4:55:00 PM
sec-Butylbenzene	ND	µg/L		0.28	1.0	4/9/2012 4:55:00 PM
tert-Butylbenzene	ND	µg/L		0.24	1.0	4/9/2012 4:55:00 PM
Carbon disulfide	ND	µg/L		1.27	5.0	4/9/2012 4:55:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/9/2012 4:55:00 PM
Chlorobenzene	ND	µg/L		0.18	1.0	4/9/2012 4:55:00 PM
Chloroethane	ND	µg/L		0.94	1.0	4/9/2012 4:55:00 PM
Chloroform	ND	µg/L		0.25	1.0	4/9/2012 4:55:00 PM
Chloromethane	ND	µg/L		0.33	1.0	4/9/2012 4:55:00 PM
2-Chlorotoluene	ND	µg/L		0.25	1.0	4/9/2012 4:55:00 PM
4-Chlorotoluene	ND	µg/L		0.28	1.0	4/9/2012 4:55:00 PM
Dibromochloromethane	ND	µg/L		0.42	1.0	4/9/2012 4:55:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	1.0	4/9/2012 4:55:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/9/2012 4:55:00 PM
Dibromomethane	ND	µg/L		0.29	1.0	4/9/2012 4:55:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	1.0	4/9/2012 4:55:00 PM
1,3-Dichlorobenzene	ND	µg/L		0.14	1.0	4/9/2012 4:55:00 PM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	4/9/2012 4:55:00 PM
Dichlorodifluoromethane	ND	µg/L		0.71	1.0	4/9/2012 4:55:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	1.0	4/9/2012 4:55:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/9/2012 4:55:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	1.0	4/9/2012 4:55:00 PM
cis-1,2-Dichloroethene	ND	µg/L		0.23	1.0	4/9/2012 4:55:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	1.0	4/9/2012 4:55:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/9/2012 4:55:00 PM
1,3-Dichloropropane	ND	µg/L		0.71	1.0	4/9/2012 4:55:00 PM
2,2-Dichloropropane	ND	µg/L		0.23	1.0	4/9/2012 4:55:00 PM
1,1-Dichloropropene	ND	µg/L		0.33	1.0	4/9/2012 4:55:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/9/2012 4:55:00 PM

Key:	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

CLIENT:	TRIAD ENGINEERING -ST ALBANS	WorkOrder:	1204656	Lab ID	1204656-03A
Client Sample ID:	GW-1	DateReceived:	4/6/2012		
Project:	04-12-0091	Collection Date:	4/5/2012 11:00:00 AM		
Site ID:	PRENTER	Matrix:	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS

SW8260B

Analyst: **AS**

trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/9/2012 4:55:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/9/2012 4:55:00 PM
Hexachlorobutadiene	ND	µg/L		0.26	1.0	4/9/2012 4:55:00 PM
2-Hexanone	ND	µg/L		4.11	10.0	4/9/2012 4:55:00 PM
Iodomethane	ND	µg/L		3.44	10.0	4/9/2012 4:55:00 PM
Isopropylbenzene	ND	µg/L		0.23	1.0	4/9/2012 4:55:00 PM
4-Isopropyltoluene	ND	µg/L		0.24	1.0	4/9/2012 4:55:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/9/2012 4:55:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	10.0	4/9/2012 4:55:00 PM
Methyl tert-butyl ether	ND	µg/L		0.76	5.0	4/9/2012 4:55:00 PM
Naphthalene	ND	µg/L		0.42	1.0	4/9/2012 4:55:00 PM
n-Propylbenzene	ND	µg/L		0.14	1.0	4/9/2012 4:55:00 PM
Styrene	ND	µg/L		0.24	1.0	4/9/2012 4:55:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	1.0	4/9/2012 4:55:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	1.0	4/9/2012 4:55:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/9/2012 4:55:00 PM
Toluene	ND	µg/L		0.17	1.0	4/9/2012 4:55:00 PM
1,2,3-Trichlorobenzene	ND	µg/L		0.41	1.0	4/9/2012 4:55:00 PM
1,2,4-Trichlorobenzene	ND	µg/L		0.41	1.0	4/9/2012 4:55:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/9/2012 4:55:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/9/2012 4:55:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	4/9/2012 4:55:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/9/2012 4:55:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/9/2012 4:55:00 PM
1,2,4-Trimethylbenzene	ND	µg/L		0.28	1.0	4/9/2012 4:55:00 PM
1,3,5-Trimethylbenzene	ND	µg/L		0.28	1.0	4/9/2012 4:55:00 PM
Vinyl acetate	ND	µg/L		4.87	10.0	4/9/2012 4:55:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	4/9/2012 4:55:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/9/2012 4:55:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/9/2012 4:55:00 PM
Surr: 1,2-Dichloroethane-d4	98.6	%REC			80-120	4/9/2012 4:55:00 PM
Surr: 4-Bromofluorobenzene	97.1	%REC			86-115	4/9/2012 4:55:00 PM
Surr: Dibromofluoromethane	106	%REC			80-120	4/9/2012 4:55:00 PM
Surr: Toluene-d8	92.7	%REC			88-110	4/9/2012 4:55:00 PM

SURFACTANTS

SM5540 C

Analyst: **CC**

MBAS	ND	mg/L		0.0250	0.062	4/6/2012 5:04:00 PM
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Key:	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

CLIENT:	TRIAD ENGINEERING -ST ALBANS	WorkOrder:	1204656	Lab ID	1204656-03A
Client Sample ID:	GW-1	DateReceived:	4/6/2012		
Project:	04-12-0091	Collection Date:	4/5/2012 11:00:00 AM		
Site ID:	PRENTER	Matrix:	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY			E300.0			Analyst: CF
Chloride	0.82	mg/L	J	0.100	1.00	4/10/2012 9:44:00 PM
Fluoride	ND	mg/L		0.040	0.20	4/10/2012 9:44:00 PM
Sulfate	38.9	mg/L		1.00	5.00	4/10/2012 9:44:00 PM
TOTAL DISSOLVED SOLIDS			SM2540 C			Analyst: SF
Total Dissolved Solids	60	mg/L		5.0	10	4/7/2012 3:17:00 PM
ACIDITY			SM2310 B			Analyst: DSD
Acidity, Total	6.3	mg/L	J	1.00	10.0	4/9/2012 10:00:00 AM
ALKALINITY			SM2320 B			Analyst: DSD
Alkalinity, Bicarbonate (As CaCO3)	5.5	mg/L	J	1.00	10.0	4/9/2012 10:00:00 AM
ALKALINITY			SM2320 B			Analyst: DSD
Alkalinity, Carbonate (As CaCO3)	ND	mg/L		1.00	10.0	4/9/2012 10:00:00 AM
ALKALINITY			SM2320 B			Analyst: DSD
Alkalinity, Total (As CaCO3)	5.5	mg/L	J	1.00	10.0	4/9/2012 10:00:00 AM
PH - LAB TEST, HOLD TIME EXPIRED			SM4500-H+-B			Analyst: DSD
pH	6.06	SU		NA	NA	4/9/2012 10:00:00 AM

Key:	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

CLIENT:	TRIAD ENGINEERING -ST ALBANS	WorkOrder:	1204656	Lab ID	1204656-04A
Client Sample ID:	GW-2	DateReceived:	4/6/2012		
Project:	04-12-0091	Collection Date:	4/5/2012 12:30:00 PM		
Site ID:	PRENTER	Matrix:	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
METALS BY ICP			E200.7		Analyst: LF	
Aluminum	8.94	mg/L		0.0060	0.100	4/10/2012 5:30:18 PM
Calcium	86.3	mg/L		0.0500	1.00	4/10/2012 5:30:18 PM
Cobalt	0.161	mg/L		0.0030	0.100	4/10/2012 5:30:18 PM
Iron	0.034	mg/L	J	0.0100	0.100	4/10/2012 5:30:18 PM
Magnesium	97.2	mg/L		0.0500	0.500	4/10/2012 5:30:18 PM
Manganese	12.5	mg/L		0.0020	0.100	4/10/2012 5:30:18 PM
Potassium	8.46	mg/L		0.0500	0.500	4/10/2012 5:30:18 PM
Sodium	3.71	mg/L		0.0500	1.00	4/10/2012 5:30:18 PM
Zinc	0.973	mg/L		0.0050	0.050	4/10/2012 5:30:18 PM

NOTES:

Initial calibration verification for K was just outside method target. Continuing calibration verification was within criteria. The impact on data quality is negligible.

METALS BY ICP-MS			E200.8		Analyst: JD	
Antimony	ND	mg/L		0.00020	0.0010	4/10/2012 7:23:00 PM
Arsenic	ND	mg/L		0.00100	0.0050	4/10/2012 7:23:00 PM
Barium	0.0182	mg/L		0.00100	0.0050	4/10/2012 7:23:00 PM
Beryllium	0.0192	mg/L		0.00020	0.0010	4/10/2012 7:23:00 PM
Cadmium	0.0020	mg/L		0.00020	0.0010	4/10/2012 7:23:00 PM
Chromium	ND	mg/L		0.00100	0.0050	4/10/2012 7:23:00 PM
Copper	0.0099	mg/L		0.00100	0.0050	4/10/2012 7:23:00 PM
Lead	0.0006	mg/L	J	0.00020	0.0010	4/10/2012 7:23:00 PM
Molybdenum	0.0013	mg/L	J	0.00100	0.0050	4/10/2012 7:23:00 PM
Nickel	0.598	mg/L		0.00200	0.0100	4/10/2012 7:23:00 PM
Selenium	0.0030	mg/L	J	0.00100	0.0050	4/10/2012 7:23:00 PM
Silver	ND	mg/L		0.00100	0.0050	4/10/2012 7:23:00 PM
Strontium	0.561	mg/L		0.00100	0.0050	4/10/2012 7:23:00 PM
Thallium	ND	mg/L		0.00020	0.0010	4/10/2012 7:23:00 PM
Tin	ND	mg/L		0.00100	0.0050	4/10/2012 7:23:00 PM
Titanium	0.0081	mg/L		0.00100	0.0050	4/10/2012 7:23:00 PM
Uranium	ND	mg/L		0.00100	0.0100	4/10/2012 7:23:00 PM
Vanadium	ND	mg/L		0.00100	0.0100	4/10/2012 7:23:00 PM

MERCURY, TOTAL			E245.1		Analyst: DS	
Mercury	ND	mg/L		0.00010	0.0010	4/11/2012 10:41:35 AM

VOLATILE ORGANIC COMPOUNDS			SW8260B		Analyst: AS	
Acetone	ND	µg/L		4.88	10.0	4/9/2012 5:30:00 PM
Acrolein	ND	µg/L		4.36	10.0	4/9/2012 5:30:00 PM

Key:	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

CLIENT:	TRIAD ENGINEERING -ST ALBANS	WorkOrder:	1204656	Lab ID	1204656-04A
Client Sample ID:	GW-2	DateReceived:	4/6/2012		
Project:	04-12-0091	Collection Date:	4/5/2012 12:30:00 PM		
Site ID:	PRENTER	Matrix:	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS

SW8260B

Analyst: **AS**

Acrylonitrile	ND	µg/L		4.24	10.0	4/9/2012 5:30:00 PM
Benzene	ND	µg/L		0.13	1.0	4/9/2012 5:30:00 PM
Bromobenzene	ND	µg/L		0.25	1.0	4/9/2012 5:30:00 PM
Bromochloromethane	ND	µg/L		0.35	1.0	4/9/2012 5:30:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/9/2012 5:30:00 PM
Bromoform	ND	µg/L		0.40	1.0	4/9/2012 5:30:00 PM
Bromomethane	ND	µg/L		0.50	1.0	4/9/2012 5:30:00 PM
2-Butanone	ND	µg/L		4.68	10.0	4/9/2012 5:30:00 PM
n-Butylbenzene	ND	µg/L		0.25	1.0	4/9/2012 5:30:00 PM
sec-Butylbenzene	ND	µg/L		0.28	1.0	4/9/2012 5:30:00 PM
tert-Butylbenzene	ND	µg/L		0.24	1.0	4/9/2012 5:30:00 PM
Carbon disulfide	ND	µg/L		1.27	5.0	4/9/2012 5:30:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/9/2012 5:30:00 PM
Chlorobenzene	ND	µg/L		0.18	1.0	4/9/2012 5:30:00 PM
Chloroethane	ND	µg/L		0.94	1.0	4/9/2012 5:30:00 PM
Chloroform	ND	µg/L		0.25	1.0	4/9/2012 5:30:00 PM
Chloromethane	ND	µg/L		0.33	1.0	4/9/2012 5:30:00 PM
2-Chlorotoluene	ND	µg/L		0.25	1.0	4/9/2012 5:30:00 PM
4-Chlorotoluene	ND	µg/L		0.28	1.0	4/9/2012 5:30:00 PM
Dibromochloromethane	ND	µg/L		0.42	1.0	4/9/2012 5:30:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	1.0	4/9/2012 5:30:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/9/2012 5:30:00 PM
Dibromomethane	ND	µg/L		0.29	1.0	4/9/2012 5:30:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	1.0	4/9/2012 5:30:00 PM
1,3-Dichlorobenzene	ND	µg/L		0.14	1.0	4/9/2012 5:30:00 PM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	4/9/2012 5:30:00 PM
Dichlorodifluoromethane	ND	µg/L		0.71	1.0	4/9/2012 5:30:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	1.0	4/9/2012 5:30:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/9/2012 5:30:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	1.0	4/9/2012 5:30:00 PM
cis-1,2-Dichloroethene	ND	µg/L		0.23	1.0	4/9/2012 5:30:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	1.0	4/9/2012 5:30:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/9/2012 5:30:00 PM
1,3-Dichloropropane	ND	µg/L		0.71	1.0	4/9/2012 5:30:00 PM
2,2-Dichloropropane	ND	µg/L		0.23	1.0	4/9/2012 5:30:00 PM
1,1-Dichloropropene	ND	µg/L		0.33	1.0	4/9/2012 5:30:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/9/2012 5:30:00 PM

Key:	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

CLIENT:	TRIAD ENGINEERING -ST ALBANS	WorkOrder:	1204656	Lab ID	1204656-04A
Client Sample ID:	GW-2	DateReceived:	4/6/2012		
Project:	04-12-0091	Collection Date:	4/5/2012 12:30:00 PM		
Site ID:	PRENTER	Matrix:	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS

SW8260B

Analyst: **AS**

trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/9/2012 5:30:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/9/2012 5:30:00 PM
Hexachlorobutadiene	ND	µg/L		0.26	1.0	4/9/2012 5:30:00 PM
2-Hexanone	ND	µg/L		4.11	10.0	4/9/2012 5:30:00 PM
Iodomethane	ND	µg/L		3.44	10.0	4/9/2012 5:30:00 PM
Isopropylbenzene	ND	µg/L		0.23	1.0	4/9/2012 5:30:00 PM
4-Isopropyltoluene	ND	µg/L		0.24	1.0	4/9/2012 5:30:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/9/2012 5:30:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	10.0	4/9/2012 5:30:00 PM
Methyl tert-butyl ether	ND	µg/L		0.76	5.0	4/9/2012 5:30:00 PM
Naphthalene	ND	µg/L		0.42	1.0	4/9/2012 5:30:00 PM
n-Propylbenzene	ND	µg/L		0.14	1.0	4/9/2012 5:30:00 PM
Styrene	ND	µg/L		0.24	1.0	4/9/2012 5:30:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	1.0	4/9/2012 5:30:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	1.0	4/9/2012 5:30:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/9/2012 5:30:00 PM
Toluene	ND	µg/L		0.17	1.0	4/9/2012 5:30:00 PM
1,2,3-Trichlorobenzene	ND	µg/L		0.41	1.0	4/9/2012 5:30:00 PM
1,2,4-Trichlorobenzene	ND	µg/L		0.41	1.0	4/9/2012 5:30:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/9/2012 5:30:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/9/2012 5:30:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	4/9/2012 5:30:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/9/2012 5:30:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/9/2012 5:30:00 PM
1,2,4-Trimethylbenzene	ND	µg/L		0.28	1.0	4/9/2012 5:30:00 PM
1,3,5-Trimethylbenzene	ND	µg/L		0.28	1.0	4/9/2012 5:30:00 PM
Vinyl acetate	ND	µg/L		4.87	10.0	4/9/2012 5:30:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	4/9/2012 5:30:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/9/2012 5:30:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/9/2012 5:30:00 PM
Surr: 1,2-Dichloroethane-d4	102	%REC			80-120	4/9/2012 5:30:00 PM
Surr: 4-Bromofluorobenzene	95.1	%REC			86-115	4/9/2012 5:30:00 PM
Surr: Dibromofluoromethane	110	%REC			80-120	4/9/2012 5:30:00 PM
Surr: Toluene-d8	91.2	%REC			88-110	4/9/2012 5:30:00 PM

SURFACTANTS

SM5540 C

Analyst: **CC**

MBAS	ND	mg/L		0.0250	0.062	4/6/2012 5:04:00 PM
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Key:	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

CLIENT:	TRIAD ENGINEERING -ST ALBANS	WorkOrder:	1204656	Lab ID	1204656-04A
Client Sample ID:	GW-2	DateReceived:	4/6/2012		
Project:	04-12-0091	Collection Date:	4/5/2012 12:30:00 PM		
Site ID:	PRENTER	Matrix:	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY			E300.0			Analyst: CF
Chloride	0.71	mg/L	J	0.100	1.00	4/10/2012 10:02:00 PM
Fluoride	0.78	mg/L		0.040	0.20	4/10/2012 10:02:00 PM
Sulfate	738	mg/L		25.0	125	4/10/2012 10:02:00 PM
TOTAL DISSOLVED SOLIDS			SM2540 C			Analyst: SF
Total Dissolved Solids	1,050	mg/L		5.0	10	4/7/2012 3:17:00 PM
ACIDITY			SM2310 B			Analyst: DSD
Acidity, Total	87.3	mg/L		1.00	10.0	4/9/2012 10:00:00 AM
ALKALINITY			SM2320 B			Analyst: DSD
Alkalinity, Bicarbonate (As CaCO3)	ND	mg/L		1.00	10.0	4/9/2012 10:00:00 AM
ALKALINITY			SM2320 B			Analyst: DSD
Alkalinity, Carbonate (As CaCO3)	ND	mg/L		1.00	10.0	4/9/2012 10:00:00 AM
ALKALINITY			SM2320 B			Analyst: DSD
Alkalinity, Total (As CaCO3)	ND	mg/L		1.00	10.0	4/9/2012 10:00:00 AM
PH - LAB TEST, HOLD TIME EXPIRED			SM4500-H+-B			Analyst: DSD
pH	3.99	SU		NA	NA	4/9/2012 10:00:00 AM

Key:	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

CLIENT:	TRIAD ENGINEERING -ST ALBANS	WorkOrder:	1204656	Lab ID	1204656-05A
Client Sample ID:	GW-3	DateReceived:	4/6/2012		
Project:	04-12-0091	Collection Date:	4/5/2012 2:30:00 PM		
Site ID:	PRENTER	Matrix:	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
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METALS BY ICP		E200.7			Analyst: LF	
Aluminum	0.258	mg/L		0.0060	0.100	4/10/2012 5:33:21 PM
Calcium	13.8	mg/L		0.0500	1.00	4/10/2012 5:33:21 PM
Cobalt	ND	mg/L		0.0030	0.100	4/10/2012 5:33:21 PM
Iron	0.031	mg/L	J	0.0100	0.100	4/10/2012 5:33:21 PM
Magnesium	12.7	mg/L		0.0500	0.500	4/10/2012 5:33:21 PM
Manganese	0.328	mg/L		0.0020	0.100	4/10/2012 5:33:21 PM
Potassium	8.58	mg/L		0.0500	0.500	4/10/2012 5:33:21 PM
Sodium	3.72	mg/L		0.0500	1.00	4/10/2012 5:33:21 PM
Zinc	0.049	mg/L	J	0.0050	0.050	4/10/2012 5:33:21 PM

NOTES:

Initial calibration verification for K was just outside method target. Continuing calibration verification was within criteria. The impact on data quality is negligible.

METALS BY ICP-MS		E200.8			Analyst: JD	
Antimony	ND	mg/L		0.00020	0.0010	4/10/2012 7:28:00 PM
Arsenic	ND	mg/L		0.00100	0.0050	4/10/2012 7:28:00 PM
Barium	0.0254	mg/L		0.00100	0.0050	4/10/2012 7:28:00 PM
Beryllium	0.0009	mg/L	J	0.00020	0.0010	4/10/2012 7:28:00 PM
Cadmium	ND	mg/L		0.00020	0.0010	4/10/2012 7:28:00 PM
Chromium	ND	mg/L		0.00100	0.0050	4/10/2012 7:28:00 PM
Copper	0.0017	mg/L	J	0.00100	0.0050	4/10/2012 7:28:00 PM
Lead	0.0013	mg/L		0.00020	0.0010	4/10/2012 7:28:00 PM
Molybdenum	ND	mg/L		0.00100	0.0050	4/10/2012 7:28:00 PM
Nickel	0.0265	mg/L		0.00200	0.0100	4/10/2012 7:28:00 PM
Selenium	0.0010	mg/L	J	0.00100	0.0050	4/10/2012 7:28:00 PM
Silver	ND	mg/L		0.00100	0.0050	4/10/2012 7:28:00 PM
Strontium	0.170	mg/L		0.00100	0.0050	4/10/2012 7:28:00 PM
Thallium	ND	mg/L		0.00020	0.0010	4/10/2012 7:28:00 PM
Tin	ND	mg/L		0.00100	0.0050	4/10/2012 7:28:00 PM
Titanium	0.0014	mg/L	J	0.00100	0.0050	4/10/2012 7:28:00 PM
Uranium	ND	mg/L		0.00100	0.0100	4/10/2012 7:28:00 PM
Vanadium	ND	mg/L		0.00100	0.0100	4/10/2012 7:28:00 PM

MERCURY, TOTAL		E245.1			Analyst: DS	
Mercury	ND	mg/L		0.00010	0.0010	4/11/2012 10:43:46 AM

VOLATILE ORGANIC COMPOUNDS		SW8260B			Analyst: AS	
Acetone	ND	µg/L		4.88	10.0	4/9/2012 6:05:00 PM
Acrolein	ND	µg/L		4.36	10.0	4/9/2012 6:05:00 PM

Key:	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

CLIENT: TRIAD ENGINEERING -ST ALBANS
Client Sample ID: GW-3
Project: 04-12-0091
Site ID: PRENTER

WorkOrder: 1204656 **Lab ID** 1204656-05A
DateReceived: 4/6/2012
Collection Date: 4/5/2012 2:30:00 PM
Matrix: LIQUID

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260B		Analyst: AS	
Acrylonitrile	ND	µg/L		4.24	10.0	4/9/2012 6:05:00 PM
Benzene	ND	µg/L		0.13	1.0	4/9/2012 6:05:00 PM
Bromobenzene	ND	µg/L		0.25	1.0	4/9/2012 6:05:00 PM
Bromochloromethane	ND	µg/L		0.35	1.0	4/9/2012 6:05:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/9/2012 6:05:00 PM
Bromoform	ND	µg/L		0.40	1.0	4/9/2012 6:05:00 PM
Bromomethane	ND	µg/L		0.50	1.0	4/9/2012 6:05:00 PM
2-Butanone	ND	µg/L		4.68	10.0	4/9/2012 6:05:00 PM
n-Butylbenzene	ND	µg/L		0.25	1.0	4/9/2012 6:05:00 PM
sec-Butylbenzene	ND	µg/L		0.28	1.0	4/9/2012 6:05:00 PM
tert-Butylbenzene	ND	µg/L		0.24	1.0	4/9/2012 6:05:00 PM
Carbon disulfide	ND	µg/L		1.27	5.0	4/9/2012 6:05:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/9/2012 6:05:00 PM
Chlorobenzene	ND	µg/L		0.18	1.0	4/9/2012 6:05:00 PM
Chloroethane	ND	µg/L		0.94	1.0	4/9/2012 6:05:00 PM
Chloroform	ND	µg/L		0.25	1.0	4/9/2012 6:05:00 PM
Chloromethane	ND	µg/L		0.33	1.0	4/9/2012 6:05:00 PM
2-Chlorotoluene	ND	µg/L		0.25	1.0	4/9/2012 6:05:00 PM
4-Chlorotoluene	ND	µg/L		0.28	1.0	4/9/2012 6:05:00 PM
Dibromochloromethane	ND	µg/L		0.42	1.0	4/9/2012 6:05:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	1.0	4/9/2012 6:05:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/9/2012 6:05:00 PM
Dibromomethane	ND	µg/L		0.29	1.0	4/9/2012 6:05:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	1.0	4/9/2012 6:05:00 PM
1,3-Dichlorobenzene	ND	µg/L		0.14	1.0	4/9/2012 6:05:00 PM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	4/9/2012 6:05:00 PM
Dichlorodifluoromethane	ND	µg/L		0.71	1.0	4/9/2012 6:05:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	1.0	4/9/2012 6:05:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/9/2012 6:05:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	1.0	4/9/2012 6:05:00 PM
cis-1,2-Dichloroethene	ND	µg/L		0.23	1.0	4/9/2012 6:05:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	1.0	4/9/2012 6:05:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/9/2012 6:05:00 PM
1,3-Dichloropropane	ND	µg/L		0.71	1.0	4/9/2012 6:05:00 PM
2,2-Dichloropropane	ND	µg/L		0.23	1.0	4/9/2012 6:05:00 PM
1,1-Dichloropropene	ND	µg/L		0.33	1.0	4/9/2012 6:05:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/9/2012 6:05:00 PM

Key:	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

CLIENT:	TRIAD ENGINEERING -ST ALBANS	WorkOrder:	1204656	Lab ID	1204656-05A
Client Sample ID:	GW-3	DateReceived:	4/6/2012		
Project:	04-12-0091	Collection Date:	4/5/2012 2:30:00 PM		
Site ID:	PRENTER	Matrix:	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS

SW8260B

Analyst: **AS**

trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/9/2012 6:05:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/9/2012 6:05:00 PM
Hexachlorobutadiene	ND	µg/L		0.26	1.0	4/9/2012 6:05:00 PM
2-Hexanone	ND	µg/L		4.11	10.0	4/9/2012 6:05:00 PM
Iodomethane	ND	µg/L		3.44	10.0	4/9/2012 6:05:00 PM
Isopropylbenzene	ND	µg/L		0.23	1.0	4/9/2012 6:05:00 PM
4-Isopropyltoluene	ND	µg/L		0.24	1.0	4/9/2012 6:05:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/9/2012 6:05:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	10.0	4/9/2012 6:05:00 PM
Methyl tert-butyl ether	ND	µg/L		0.76	5.0	4/9/2012 6:05:00 PM
Naphthalene	ND	µg/L		0.42	1.0	4/9/2012 6:05:00 PM
n-Propylbenzene	ND	µg/L		0.14	1.0	4/9/2012 6:05:00 PM
Styrene	ND	µg/L		0.24	1.0	4/9/2012 6:05:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	1.0	4/9/2012 6:05:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	1.0	4/9/2012 6:05:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/9/2012 6:05:00 PM
Toluene	ND	µg/L		0.17	1.0	4/9/2012 6:05:00 PM
1,2,3-Trichlorobenzene	ND	µg/L		0.41	1.0	4/9/2012 6:05:00 PM
1,2,4-Trichlorobenzene	ND	µg/L		0.41	1.0	4/9/2012 6:05:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/9/2012 6:05:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/9/2012 6:05:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	4/9/2012 6:05:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/9/2012 6:05:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/9/2012 6:05:00 PM
1,2,4-Trimethylbenzene	ND	µg/L		0.28	1.0	4/9/2012 6:05:00 PM
1,3,5-Trimethylbenzene	ND	µg/L		0.28	1.0	4/9/2012 6:05:00 PM
Vinyl acetate	ND	µg/L		4.87	10.0	4/9/2012 6:05:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	4/9/2012 6:05:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/9/2012 6:05:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/9/2012 6:05:00 PM
Surr: 1,2-Dichloroethane-d4	101	%REC			80-120	4/9/2012 6:05:00 PM
Surr: 4-Bromofluorobenzene	97.0	%REC			86-115	4/9/2012 6:05:00 PM
Surr: Dibromofluoromethane	110	%REC			80-120	4/9/2012 6:05:00 PM
Surr: Toluene-d8	91.4	%REC			88-110	4/9/2012 6:05:00 PM

SURFACTANTS

SM5540 C

Analyst: **CC**

MBAS	ND	mg/L		0.0250	0.062	4/6/2012 5:04:00 PM
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Key:	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

CLIENT:	TRIAD ENGINEERING -ST ALBANS	WorkOrder:	1204656	Lab ID	1204656-05A
Client Sample ID:	GW-3	DateReceived:	4/6/2012		
Project:	04-12-0091	Collection Date:	4/5/2012 2:30:00 PM		
Site ID:	PRENTER	Matrix:	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY			E300.0			Analyst: CF
Chloride	1.14	mg/L		0.100	1.00	4/10/2012 10:20:00 PM
Fluoride	ND	mg/L		0.040	0.20	4/10/2012 10:20:00 PM
Sulfate	96.2	mg/L		2.00	10.0	4/10/2012 10:20:00 PM
TOTAL DISSOLVED SOLIDS			SM2540 C			Analyst: SF
Total Dissolved Solids	170	mg/L		5.0	10	4/7/2012 3:17:00 PM
ACIDITY			SM2310 B			Analyst: DSD
Acidity, Total	9.2	mg/L	J	1.00	10.0	4/9/2012 10:00:00 AM
ALKALINITY			SM2320 B			Analyst: DSD
Alkalinity, Bicarbonate (As CaCO3)	ND	mg/L		1.00	10.0	4/9/2012 10:00:00 AM
ALKALINITY			SM2320 B			Analyst: DSD
Alkalinity, Carbonate (As CaCO3)	ND	mg/L		1.00	10.0	4/9/2012 10:00:00 AM
ALKALINITY			SM2320 B			Analyst: DSD
Alkalinity, Total (As CaCO3)	ND	mg/L		1.00	10.0	4/9/2012 10:00:00 AM
PH - LAB TEST, HOLD TIME EXPIRED			SM4500-H+-B			Analyst: DSD
pH	4.30	SU		NA	NA	4/9/2012 10:00:00 AM

Key:	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

CLIENT:	TRIAD ENGINEERING -ST ALBANS	WorkOrder:	1204656	Lab ID	1204656-06A
Client Sample ID:	TRIP BLANK	DateReceived:	4/6/2012		
Project:	04-12-0091	Collection Date:	4/5/2012		
Site ID:	PRENTER	Matrix:	TRIP BLANK		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260B		Analyst: AS	
Acetone	ND	µg/L		4.88	10.0	4/10/2012 6:22:00 AM
Acrolein	ND	µg/L		4.36	10.0	4/10/2012 6:22:00 AM
Acrylonitrile	ND	µg/L		4.24	10.0	4/10/2012 6:22:00 AM
Benzene	ND	µg/L		0.13	1.0	4/10/2012 6:22:00 AM
Bromobenzene	ND	µg/L		0.25	1.0	4/10/2012 6:22:00 AM
Bromochloromethane	ND	µg/L		0.35	1.0	4/10/2012 6:22:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/10/2012 6:22:00 AM
Bromoform	ND	µg/L		0.40	1.0	4/10/2012 6:22:00 AM
Bromomethane	ND	µg/L		0.50	1.0	4/10/2012 6:22:00 AM
2-Butanone	ND	µg/L		4.68	10.0	4/10/2012 6:22:00 AM
n-Butylbenzene	ND	µg/L		0.25	1.0	4/10/2012 6:22:00 AM
sec-Butylbenzene	ND	µg/L		0.28	1.0	4/10/2012 6:22:00 AM
tert-Butylbenzene	ND	µg/L		0.24	1.0	4/10/2012 6:22:00 AM
Carbon disulfide	ND	µg/L		1.27	5.0	4/10/2012 6:22:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/10/2012 6:22:00 AM
Chlorobenzene	ND	µg/L		0.18	1.0	4/10/2012 6:22:00 AM
Chloroethane	ND	µg/L		0.94	1.0	4/10/2012 6:22:00 AM
Chloroform	ND	µg/L		0.25	1.0	4/10/2012 6:22:00 AM
Chloromethane	ND	µg/L		0.33	1.0	4/10/2012 6:22:00 AM
2-Chlorotoluene	ND	µg/L		0.25	1.0	4/10/2012 6:22:00 AM
4-Chlorotoluene	ND	µg/L		0.28	1.0	4/10/2012 6:22:00 AM
Dibromochloromethane	ND	µg/L		0.42	1.0	4/10/2012 6:22:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	1.0	4/10/2012 6:22:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/10/2012 6:22:00 AM
Dibromomethane	ND	µg/L		0.29	1.0	4/10/2012 6:22:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	1.0	4/10/2012 6:22:00 AM
1,3-Dichlorobenzene	ND	µg/L		0.14	1.0	4/10/2012 6:22:00 AM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	4/10/2012 6:22:00 AM
Dichlorodifluoromethane	ND	µg/L		0.71	1.0	4/10/2012 6:22:00 AM
1,1-Dichloroethane	ND	µg/L		0.38	1.0	4/10/2012 6:22:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/10/2012 6:22:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	1.0	4/10/2012 6:22:00 AM
cis-1,2-Dichloroethene	ND	µg/L		0.23	1.0	4/10/2012 6:22:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	1.0	4/10/2012 6:22:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/10/2012 6:22:00 AM
1,3-Dichloropropane	ND	µg/L		0.71	1.0	4/10/2012 6:22:00 AM
2,2-Dichloropropane	ND	µg/L		0.23	1.0	4/10/2012 6:22:00 AM

Key:	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

CLIENT:	TRIAD ENGINEERING -ST ALBANS	WorkOrder:	1204656	Lab ID	1204656-06A
Client Sample ID:	TRIP BLANK	DateReceived:	4/6/2012		
Project:	04-12-0091	Collection Date:	4/5/2012		
Site ID:	PRENTER	Matrix:	TRIP BLANK		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260B		Analyst: AS	
1,1-Dichloropropene	ND	µg/L		0.33	1.0	4/10/2012 6:22:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/10/2012 6:22:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/10/2012 6:22:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	4/10/2012 6:22:00 AM
Hexachlorobutadiene	ND	µg/L		0.26	1.0	4/10/2012 6:22:00 AM
2-Hexanone	ND	µg/L		4.11	10.0	4/10/2012 6:22:00 AM
Iodomethane	ND	µg/L		3.44	10.0	4/10/2012 6:22:00 AM
Isopropylbenzene	ND	µg/L		0.23	1.0	4/10/2012 6:22:00 AM
4-Isopropyltoluene	ND	µg/L		0.24	1.0	4/10/2012 6:22:00 AM
Methylene chloride	ND	µg/L		0.54	1.0	4/10/2012 6:22:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	10.0	4/10/2012 6:22:00 AM
Methyl tert-butyl ether	ND	µg/L		0.76	5.0	4/10/2012 6:22:00 AM
Naphthalene	ND	µg/L		0.42	1.0	4/10/2012 6:22:00 AM
n-Propylbenzene	ND	µg/L		0.14	1.0	4/10/2012 6:22:00 AM
Styrene	ND	µg/L		0.24	1.0	4/10/2012 6:22:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	1.0	4/10/2012 6:22:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	1.0	4/10/2012 6:22:00 AM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/10/2012 6:22:00 AM
Toluene	ND	µg/L		0.17	1.0	4/10/2012 6:22:00 AM
1,2,3-Trichlorobenzene	ND	µg/L		0.41	1.0	4/10/2012 6:22:00 AM
1,2,4-Trichlorobenzene	ND	µg/L		0.41	1.0	4/10/2012 6:22:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/10/2012 6:22:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/10/2012 6:22:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	4/10/2012 6:22:00 AM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/10/2012 6:22:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/10/2012 6:22:00 AM
1,2,4-Trimethylbenzene	ND	µg/L		0.28	1.0	4/10/2012 6:22:00 AM
1,3,5-Trimethylbenzene	ND	µg/L		0.28	1.0	4/10/2012 6:22:00 AM
Vinyl acetate	ND	µg/L		4.87	10.0	4/10/2012 6:22:00 AM
Vinyl chloride	ND	µg/L		0.22	1.0	4/10/2012 6:22:00 AM
o-Xylene	ND	µg/L		0.19	1.0	4/10/2012 6:22:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	4/10/2012 6:22:00 AM
Surr: 1,2-Dichloroethane-d4	103	%REC			80-120	4/10/2012 6:22:00 AM
Surr: 4-Bromofluorobenzene	98.4	%REC			86-115	4/10/2012 6:22:00 AM
Surr: Dibromofluoromethane	110	%REC			80-120	4/10/2012 6:22:00 AM
Surr: Toluene-d8	92.4	%REC			88-110	4/10/2012 6:22:00 AM

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