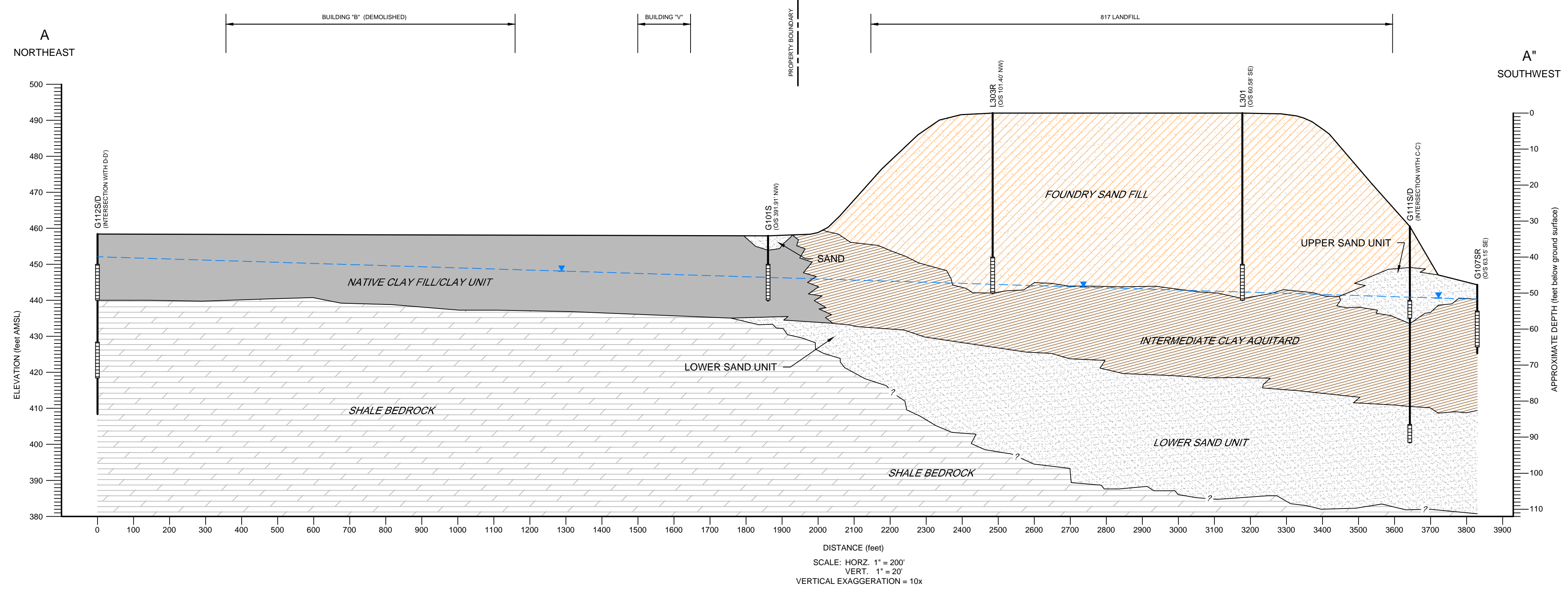
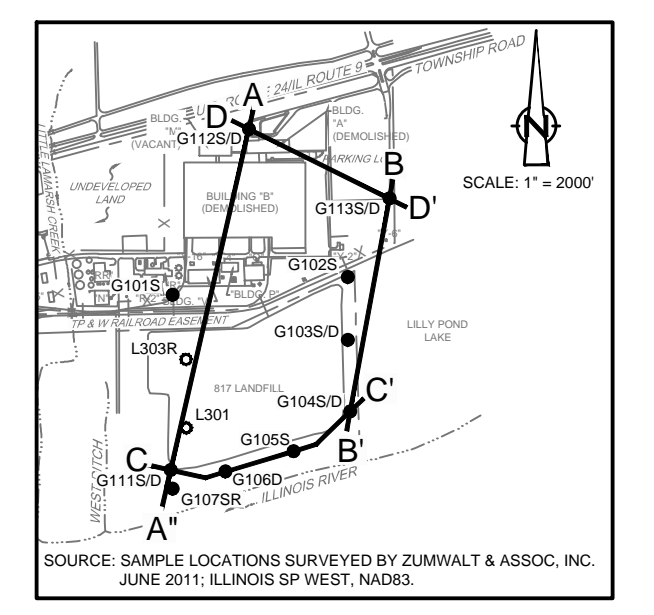
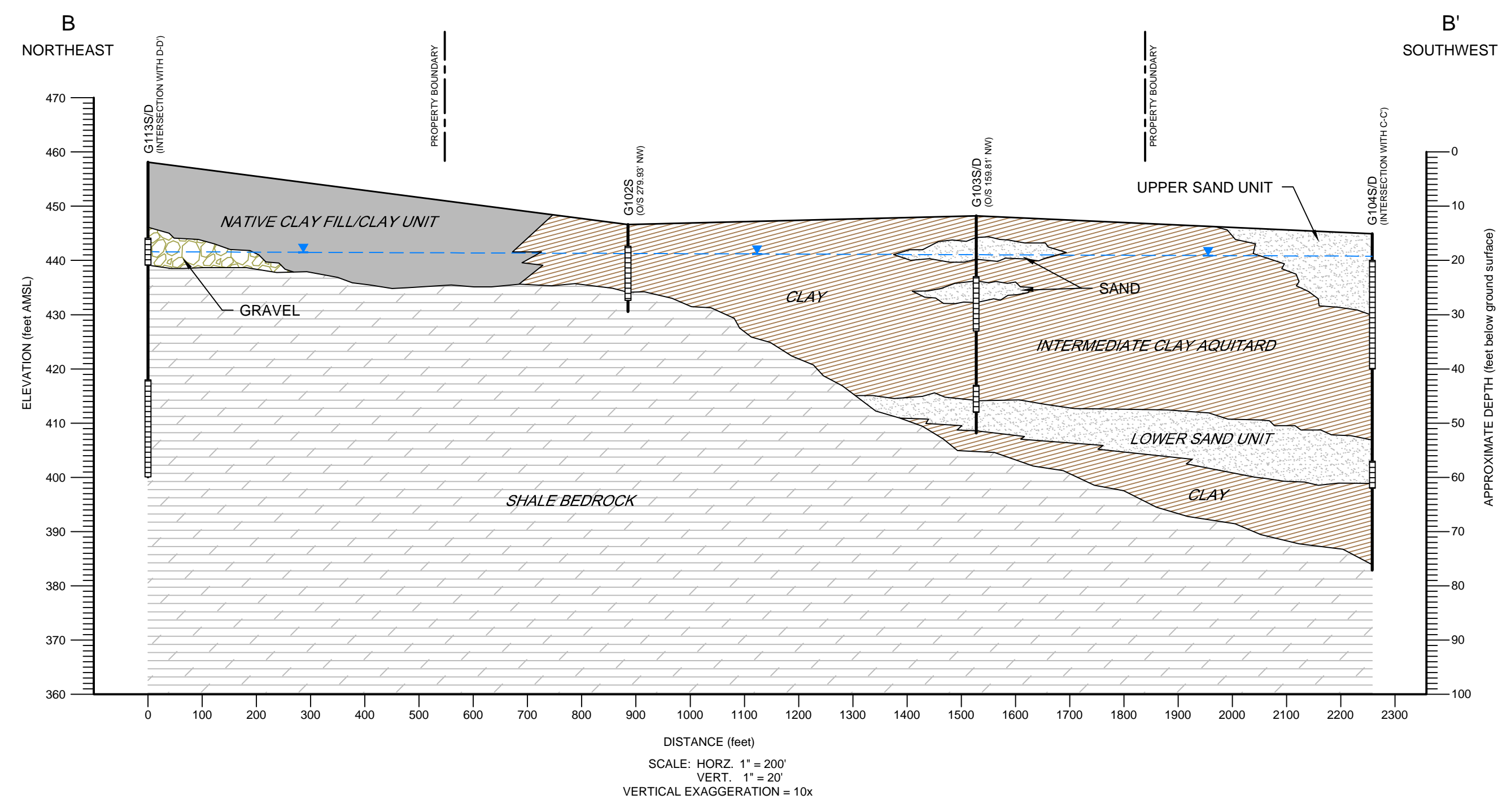


APPENDIX G

GEOLOGIC CROSS-SECTION DRAWINGS



- LEGEND**
- WELL DESIGNATION
 - GROUND SURFACE
 - OBSERVATION WELL INSTALLATION
 - SCREENED INTERVAL
 - BOTTOM OF BORING
 - NATIVE CLAY FILL/CLAY UNIT
 - INTERMEDIATE CLAY AQUITARD (FINE GRAINED CLAYS AND SILTS, SILTY CLAY FILL)
 - SHALE
 - SANDS
 - FOUNDRY SAND FILL
 - GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
 - /S OFFSET
 - GROUNDWATER ELEVATION ON 5/24/11 DEEP WELLS



SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

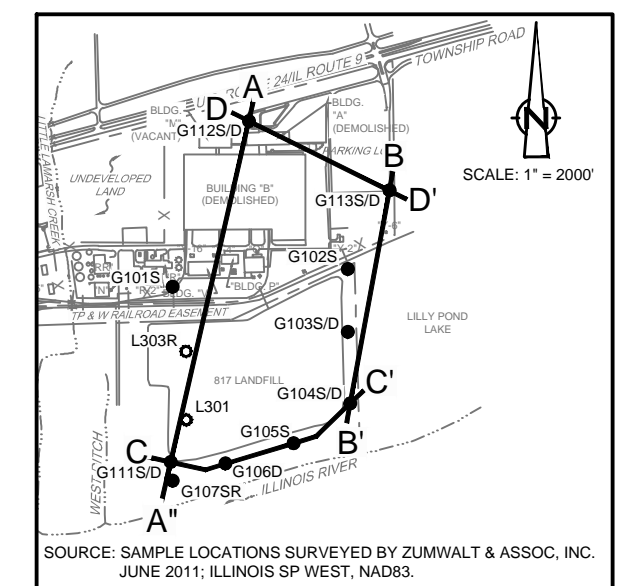
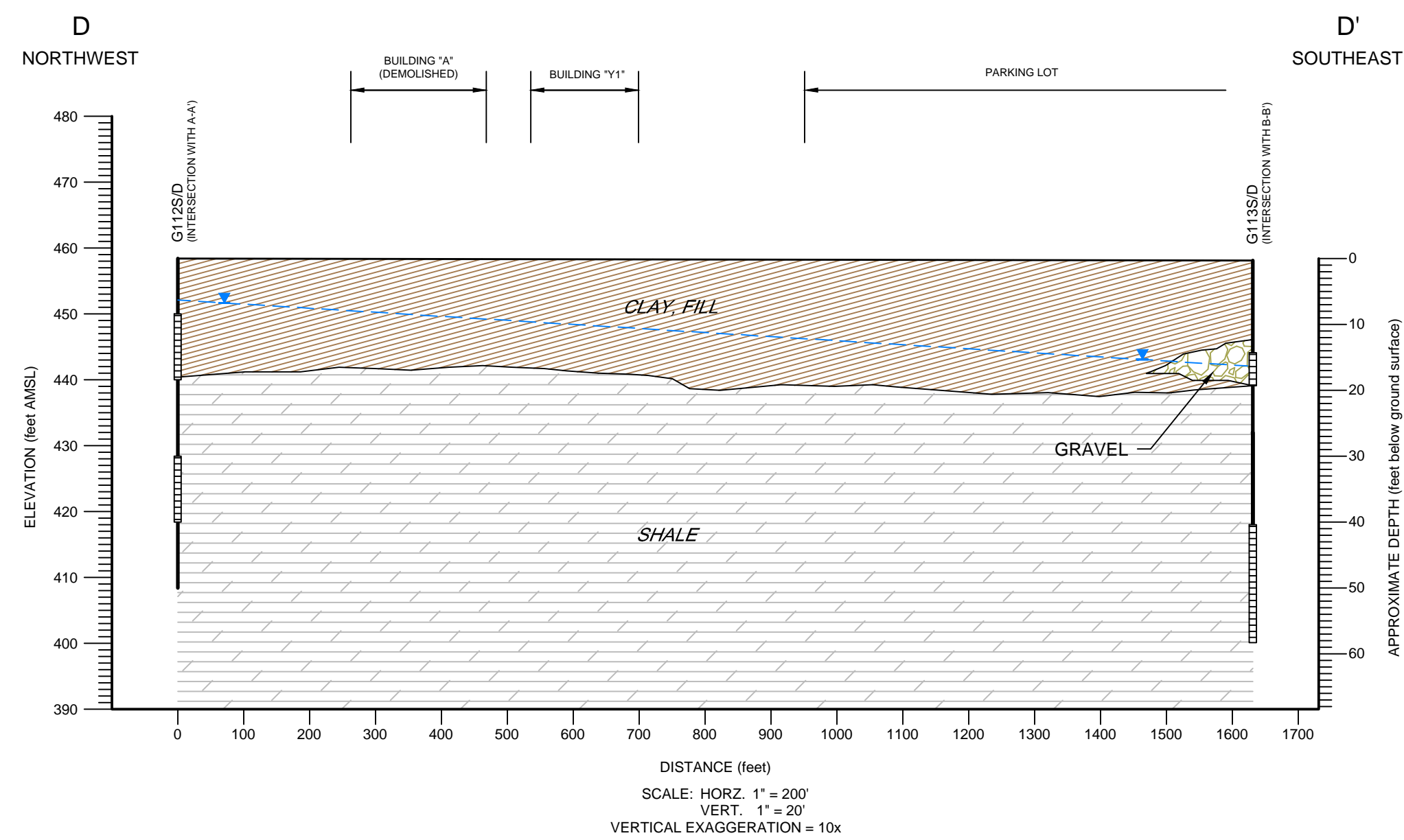
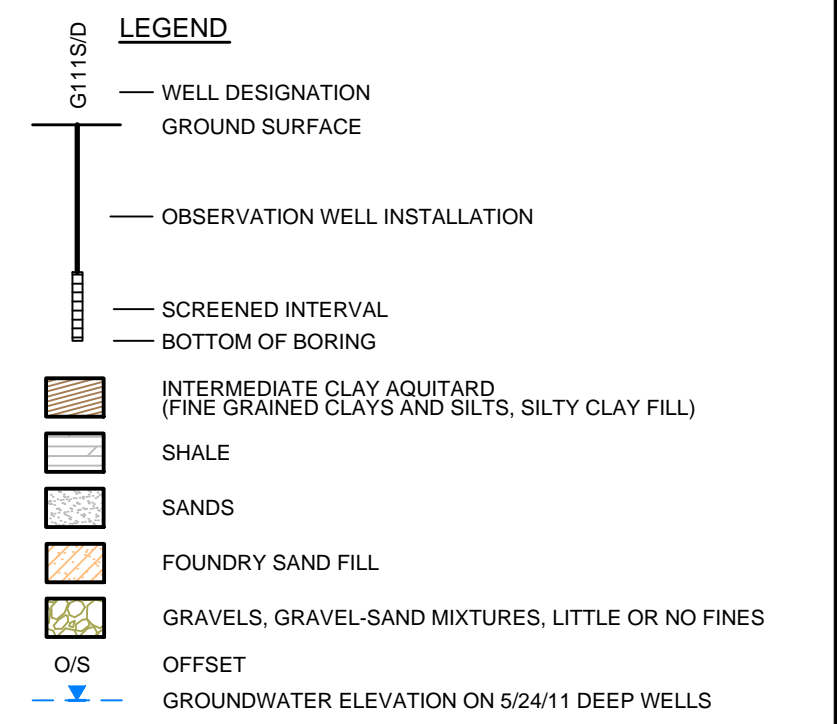
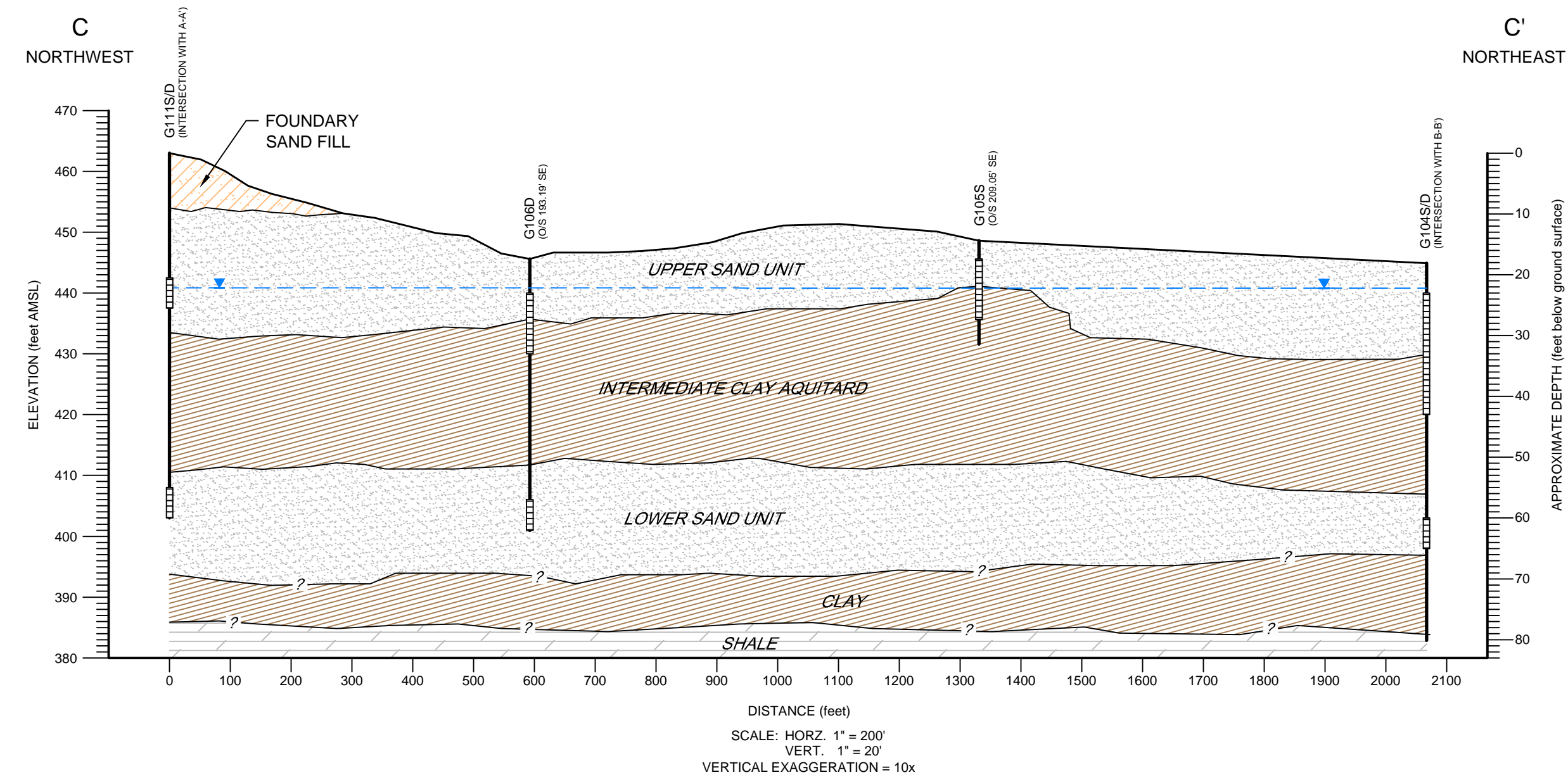
CATERPILLAR INC.
MAPLETON, ILLINOIS

CROSS-SECTIONS A-A' AND B-B'



Source Reference:

Project Manager: SW	Reviewed By: SW	Date: DECEMBER 2012
Scale: AS SHOWN	Project N°: 70102-00	Report N°: 002 Drawing N°: 1



SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

**CATERPILLAR INC.
MAPLETON, ILLINOIS**

CROSS-SECTIONS C-C' AND D-D'



Source Reference:

Project Manager: SW	Reviewed By: SW	Date: DECEMBER 2012
Scale: AS SHOWN	Project N ^o : 70102-00	Report N ^o : 002 Drawing N ^o : 2

APPENDIX H

HYDROGEOLOGICAL INVESTIGATION ANALYTICAL REPORTS



ANALYTICAL REPORT

PROJECT NO. 070102-03

CAT, MAPLETON, IL

SDG #: 1D06583

Lot(s): A1D060583, A1D070505, A1D080539

Michael Richardson
Conestoga Rovers & Associates,
6520 Corporate Drive
Indianapolis, IN 46278

TESTAMERICA LABORATORIES, INC.

Approved for release.
Amy McCormick
Project Manager
4/22/2011 1:21 PM

Amy L. McCormick
Project Manager
amy.mccormick@testamericainc.com

April 22, 2011

CASE NARRATIVE

1D06583

The following report contains the analytical results for twenty-five water samples and two quality control samples submitted to TestAmerica North Canton by Conestoga-Rovers & Associates, Inc. from the CAT, MAPLETON, IL Site, project number 070102-03. The samples were received April 06, 2011, April 07, 2011 and April 08, 2011, according to documented sample acceptance procedures.

This SDG consists of (3) laboratory ID's: A1D060583, A1D070505 and A1D080539.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Michael Richardson on April 13, 2011, on April 20, 2011, and April 21, 2011. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

All parameters were evaluated to the reporting limit.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Amy L. McCormick, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperatures of the coolers upon sample receipt were 0.0, 0.2 and 1.5°C.

See TestAmerica's Cooler Receipt Form for additional information.

GC/MS VOLATILES

The analytical results met the requirements of the laboratory's QA/QC program.

METALS

Matrix spike recovery and relative percent difference (RPD) data were not calculated for some analytes for GW-070102-040611-NH-009 due to the sample concentration reading greater than four times the spike amount. See the Matrix Spike Report for the affected analytes which will be flagged with "NC, MSB".

Matrix spike recovery and relative percent difference (RPD) data were not calculated for some analytes for batch(es) 1101018 due to the sample concentration reading greater than four times the spike amount. See the Matrix Spike Report for the affected analytes which will be flagged with "NC, MSB".

GENERAL CHEMISTRY

The sample(s) had elevated reporting limits due to matrix interferences. Refer to the sample report pages for the affected analyte(s) flagged with "G".

The matrix spike/matrix spike duplicate(s) for GW-070102-040611-NH-009 had recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

Samples GW-070102-040711-NH-015, GW-070102-040711-NH-016, GW-070102-040711-NH-017, GW-070102-040711-NH-018 and GW-070102-040711-NH-019 analyzed for Fluoride, Chloride Sulfate and Nitrate as N had greater than 10 samples between CCV/CCB's due to analyst error. The CCV/CCB results met criteria and results are reported.

CASE NARRATIVE (continued)

GENERAL CHEMISTRY (cont)

Samples analyzed for Fluoride, GW-070102-040611-NH-009, GW-070102-040611-NH-010, GW-070102-040611-NH-011, GW-070102-040611-NH-012, GW-070102-040611-NH-005, GW-070102-040611-NH-006, GW-070102-040611-NH-007 and GW-070102-040611-NH-008 had greater than 10 samples between CCV/CCB's due to analyst error. The CCV/CCB results met criteria and results are reported.

Sample GW-070102-040611-NH-009 analyzed for Chloride and Sulfate had greater than 10 samples between CCV/CCB's due to analyst error. The CCV/CCB results met criteria and results are reported.

Sample GW-070102-040611-NH-012 analyzed for Sulfate had greater than 10 samples between CCV/CCB's due to analyst error. The CCV/CCB results met criteria and results are reported.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called Quality Control Batches (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a Method Blank (MB), a Laboratory Control Sample (LCS) and, a Matrix Spike/Matrix Spike Duplicate (MS/MSD) pair or a Matrix Spike/Sample Duplicate (MS/DU) pair.

For 600 series/CWA methods, QC samples include a Method Blank (MB), a Laboratory Control Sample (LCS) and, where appropriate, a Matrix Spike (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch, with the exception of poor performing analytes. A list of these analytes is listed below. No corrective action is taken if these analytes do not meet criteria. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

Poor performers

Method 8270 Water and Solid:	
4-Nitrophenol	3,3' - Dichlorobenzidine
Benzoic Acid	2,4,6 - Tribromophenol
Phenol	2,4-Dinitrophenol
Phenol-d5	Pentachlorophenol
4,6-Dinitro-2-methylphenol	Hexachlorocyclopentadiene (LCG only)
Benzyl Alcohol	4-Chloroaniline
Method 8151 Solid	
Dinoseb	
Method 8260 Water and Solid	
Dichlorodifluoromethane	Hexachlorobutadiene
Trichlorofluoromethane	Naphthalene
Chloroethane	1,2,3-Trichlorobenzene
Acetone	1,2,4-Trichlorobenzene
Bromomethane	2,2-Dichloropropane
Bromoform	Chloromethane

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be ten fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

<u>Volatile (GC or GC/MS)</u>	<u>Semivolatile (GC/MS)</u>	<u>Metals ICP-MS</u>	<u>Metals ICP Trace</u>
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results do not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate or Matrix Spike/Sample Duplicate.

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater. For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.



TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request.
California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),

Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada (#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190), DoD ELAP (ADE-1437) USDA Soil Permit (P33-08-00123)

EXECUTIVE SUMMARY - Detection Highlights

1D06583 : A1D060583

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
SW-070102-040511-NH-001 04/05/11 10:30 001				
Total Dissolved Solids	527	10.0	mg/L	SM18 2540 C
SW-070102-040511-NH-002 04/05/11 11:30 002				
Total Dissolved Solids	524	10.0	mg/L	SM18 2540 C
GW-070102-040511-NH-001 04/05/11 14:40 003				
Arsenic	31.4	10.0	ug/L	SW846 6010B
Barium	665	200	ug/L	SW846 6010B
Iron	25600	100	ug/L	SW846 6010B
Manganese	1650	15.0	ug/L	SW846 6010B
Total Dissolved Solids	1410	20.0	mg/L	SM18 2540 C
Chloride	382	5.0	mg/L	SW846 9056A
GW-070102-040511-NH-002 04/05/11 14:35 004				
Arsenic	43.3	10.0	ug/L	SW846 6010B
Barium	339	200	ug/L	SW846 6010B
Iron	14300	100	ug/L	SW846 6010B
Manganese	1280	15.0	ug/L	SW846 6010B
Total Dissolved Solids	1060	10.0	mg/L	SM18 2540 C
Fluoride	5.4	1.0	mg/L	SW846 9056A
Chloride	112	1.0	mg/L	SW846 9056A
Sulfate	20.8	1.0	mg/L	SW846 9056A
GW-070102-040511-NH-003 04/05/11 16:30 005				
Barium	513	200	ug/L	SW846 6010B
Iron	20700	100	ug/L	SW846 6010B
Manganese	596	15.0	ug/L	SW846 6010B
Total Dissolved Solids	1380	20.0	mg/L	SM18 2540 C
Chloride	189	1.0	mg/L	SW846 9056A
Sulfate	287	2.0	mg/L	SW846 9056A

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

1D06583 : A1D060583

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
GW-070102-040511-NH-004 04/05/11 16:26 006				
Barium	307	200	ug/L	SW846 6010B
Iron	15600	100	ug/L	SW846 6010B
Manganese	1070	15.0	ug/L	SW846 6010B
Total Dissolved Solids	654	10.0	mg/L	SM18 2540 C
Chloride	29.1	1.0	mg/L	SW846 9056A
Sulfate	10.4	1.0	mg/L	SW846 9056A

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

1D06583 : A1D070505

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
GW-070102-040611-NH-005 04/06/11 08:40 006				
Iron	2440	100	ug/L	SW846 6010B
Manganese	1510	15.0	ug/L	SW846 6010B
Total Dissolved Solids	1190	20.0	mg/L	SM18 2540 C
Fluoride	3.6	1.0	mg/L	SW846 9056A
Chloride	131	1.0	mg/L	SW846 9056A
Sulfate	81.5	1.0	mg/L	SW846 9056A
GW-070102-040611-NH-006 04/06/11 08:52 007				
Iron	6730	100	ug/L	SW846 6010B
Manganese	1140	15.0	ug/L	SW846 6010B
Total Dissolved Solids	1100	10.0	mg/L	SM18 2540 C
Fluoride	2.3	1.0	mg/L	SW846 9056A
Chloride	115	1.0	mg/L	SW846 9056A
Sulfate	8.0	1.0	mg/L	SW846 9056A
GW-070102-040611-NH-007 04/06/11 10:10 008				
Barium	423	200	ug/L	SW846 6010B
Iron	1870	100	ug/L	SW846 6010B
Manganese	1250	15.0	ug/L	SW846 6010B
Total Dissolved Solids	1540	20.0	mg/L	SM18 2540 C
Chloride	609	5.0	mg/L	SW846 9056A
Sulfate	50.1	1.0	mg/L	SW846 9056A
GW-070102-040611-NH-008 04/06/11 10:15 009				
Barium	400	200	ug/L	SW846 6010B
Iron	2040	100	ug/L	SW846 6010B
Manganese	1250	15.0	ug/L	SW846 6010B
Total Dissolved Solids	1470	20.0	mg/L	SM18 2540 C
Chloride	548	5.0	mg/L	SW846 9056A
Sulfate	56.4	1.0	mg/L	SW846 9056A
GW-070102-040611-NH-009 04/06/11 10:19 010				
Chromium	11.8	10.0	ug/L	SW846 6010B
Iron	13000	100	ug/L	SW846 6010B
Manganese	2270	15.0	ug/L	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

1D06583 : A1D070505

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
GW-070102-040611-NH-009 04/06/11 10:19 010				
Total Dissolved Solids	860	10.0	mg/L	SM18 2540 C
Chloride	58.6	1.0	mg/L	SW846 9056A
Sulfate	193	1.0	mg/L	SW846 9056A
GW-070102-040611-NH-010 04/06/11 11:04 011				
Arsenic	17.6	10.0	ug/L	SW846 6010B
Iron	5670	100	ug/L	SW846 6010B
Manganese	459	15.0	ug/L	SW846 6010B
Total Dissolved Solids	1210	20.0	mg/L	SM18 2540 C
Fluoride	3.5	1.0	mg/L	SW846 9056A
Chloride	132	1.0	mg/L	SW846 9056A
GW-070102-040611-NH-011 04/06/11 11:45 012				
Barium	272	200	ug/L	SW846 6010B
Iron	23700	100	ug/L	SW846 6010B
Manganese	275	15.0	ug/L	SW846 6010B
Total Dissolved Solids	921	10.0	mg/L	SM18 2540 C
Chloride	52.3	1.0	mg/L	SW846 9056A
GW-070102-040611-NH-012 04/06/11 13:52 013				
Iron	203	100	ug/L	SW846 6010B
Manganese	2350	15.0	ug/L	SW846 6010B
Total Dissolved Solids	1060	10.0	mg/L	SM18 2540 C
Chloride	196	1.0	mg/L	SW846 9056A
Nitrate as N	0.10	0.10	mg/L	SW846 9056A
Sulfate	204	2.0	mg/L	SW846 9056A
GW-070102-040611-NH-013 04/06/11 15:30 014				
Barium	415	200	ug/L	SW846 6010B
Chromium	155	10.0	ug/L	SW846 6010B
Iron	9550	100	ug/L	SW846 6010B
Manganese	129	15.0	ug/L	SW846 6010B
Zinc	49.9	20.0	ug/L	SW846 6010B
Chloroform	2.3	1.0	ug/L	SW846 8260B
Total Dissolved Solids	1370	20.0	mg/L	SM18 2540 C

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

1D06583 : A1D070505

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
GW-070102-040611-NH-013 04/06/11 15:30 014				
Fluoride	1.5	1.0	mg/L	SW846 9056A
Chloride	339	2.0	mg/L	SW846 9056A
Nitrate as N	1.0	0.10	mg/L	SW846 9056A
Sulfate	17.6	1.0	mg/L	SW846 9056A
GW-070102-040611-NH-014 04/06/11 15:41 015				
Arsenic	20.2	10.0	ug/L	SW846 6010B
Iron	2980	100	ug/L	SW846 6010B
Manganese	2400	15.0	ug/L	SW846 6010B
Total Dissolved Solids	805	10.0	mg/L	SM18 2540 C
Chloride	171	1.0	mg/L	SW846 9056A
Sulfate	105	1.0	mg/L	SW846 9056A

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

1D06583 : A1D080539

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
GW-070102-040711-NH-015 04/07/11 08:25 001				
Arsenic	38.1	10.0	ug/L	SW846 6010B
Lead	74.7	3.0	ug/L	SW846 6010B
Selenium	13.5	5.0	ug/L	SW846 6010B
Barium	457	200	ug/L	SW846 6010B
Cadmium	9.1	5.0	ug/L	SW846 6010B
Chromium	128	10.0	ug/L	SW846 6010B
Copper	240	25.0	ug/L	SW846 6010B
Iron	138000	100	ug/L	SW846 6010B
Manganese	2220	15.0	ug/L	SW846 6010B
Zinc	400	20.0	ug/L	SW846 6010B
Total Dissolved Solids	1000	100	mg/L	SM18 2540 C
Chloride	57.4	1.0	mg/L	SW846 9056A
Sulfate	197	1.0	mg/L	SW846 9056A
GW-070102-040711-NH-016 04/07/11 07:58 002				
Chromium	16.7	10.0	ug/L	SW846 6010B
Iron	8670	100	ug/L	SW846 6010B
Manganese	121	15.0	ug/L	SW846 6010B
Zinc	36.2	20.0	ug/L	SW846 6010B
Bromodichloromethane	2.1	1.0	ug/L	SW846 8260B
Chloroform	6.7	1.0	ug/L	SW846 8260B
Total Dissolved Solids	1580	20.0	mg/L	SM18 2540 C
Fluoride	1.1	1.0	mg/L	SW846 9056A
Chloride	115	1.0	mg/L	SW846 9056A
Nitrate as N	2.4	0.10	mg/L	SW846 9056A
Sulfate	353	5.0	mg/L	SW846 9056A
GW-070102-040711-NH-017 04/07/11 08:24 003				
Arsenic	26.1	10.0	ug/L	SW846 6010B
Lead	70.7	3.0	ug/L	SW846 6010B
Selenium	9.2	5.0	ug/L	SW846 6010B
Barium	1760	200	ug/L	SW846 6010B
Chromium	1800	10.0	ug/L	SW846 6010B
Copper	138	25.0	ug/L	SW846 6010B
Iron	187000	100	ug/L	SW846 6010B
Manganese	2780	15.0	ug/L	SW846 6010B
Zinc	512	20.0	ug/L	SW846 6010B
Bromodichloromethane	1.4	1.0	ug/L	SW846 8260B
Chloroform	8.4	1.0	ug/L	SW846 8260B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

1D06583 : A1D080539

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
GW-070102-040711-NH-017 04/07/11 08:24 003				
Total Dissolved Solids	3050	500	mg/L	SM18 2540 C
Chloride	126	10.0	mg/L	SW846 9056A
Nitrate as N	3.9	1.0	mg/L	SW846 9056A
Sulfate	65.6	10.0	mg/L	SW846 9056A
GW-070102-040711-NH-018 04/07/11 09:45 004				
Iron	12200	100	ug/L	SW846 6010B
Manganese	879	15.0	ug/L	SW846 6010B
Zinc	35.9	20.0	ug/L	SW846 6010B
Total Dissolved Solids	319	10.0	mg/L	SM18 2540 C
Chloride	5.9	1.0	mg/L	SW846 9056A
GW-070102-040711-NH-019 04/07/11 09:50 005				
Iron	11000	100	ug/L	SW846 6010B
Manganese	808	15.0	ug/L	SW846 6010B
Zinc	24.2	20.0	ug/L	SW846 6010B
Total Dissolved Solids	328	10.0	mg/L	SM18 2540 C
Chloride	6.9	1.0	mg/L	SW846 9056A

ANALYTICAL METHODS SUMMARY

1D06583

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Chloride	SW846 9056A
Fluoride	SW846 9056A
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Nitrate as N	SW846 9056A
Sulfate	SW846 9056A
Total Dissolved Solids	SM18 2540 C
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Volatile Organics by GC/MS	SW846 8260B

References:

- SM18 "Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

1D06583 : A1D060583

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
MGMJX	001	SW-070102-040511-NH-001	04/05/11	10:30
MGMJ1	002	SW-070102-040511-NH-002	04/05/11	11:30
MGMJ2	003	GW-070102-040511-NH-001	04/05/11	14:40
MGMJ5	004	GW-070102-040511-NH-002	04/05/11	14:35
MGMJ6	005	GW-070102-040511-NH-003	04/05/11	16:30
MGMJ7	006	GW-070102-040511-NH-004	04/05/11	16:26

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

(Continued on next page)

SAMPLE SUMMARY

1D06583 : A1D070505

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
MGNX8	001	GW-070102-040511-NH-001	04/05/11	14:40
MGN0H	002	GW-070102-040511-NH-002	04/05/11	14:35
MGN0K	003	GW-070102-040511-NH-003	04/05/11	16:30
MGN0R	004	GW-070102-040511-NH-004	04/05/11	16:26
MGN00	005	TB-070102-040511-NH-001	04/05/11	17:30
MGN05	006	GW-070102-040611-NH-005	04/06/11	08:40
MGN1J	007	GW-070102-040611-NH-006	04/06/11	08:52
MGN1M	008	GW-070102-040611-NH-007	04/06/11	10:10
MGN1N	009	GW-070102-040611-NH-008	04/06/11	10:15
MGN1Q	010	GW-070102-040611-NH-009	04/06/11	10:19
MGN1W	011	GW-070102-040611-NH-010	04/06/11	11:04
MGN10	012	GW-070102-040611-NH-011	04/06/11	11:45
MGN11	013	GW-070102-040611-NH-012	04/06/11	13:52
MGN13	014	GW-070102-040611-NH-013	04/06/11	15:30
MGN17	015	GW-070102-040611-NH-014	04/06/11	15:41

NOTE(S) :

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(Continued on next page)

SAMPLE SUMMARY

1D06583 : A1D080539

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
MGQ5R	001	GW-070102-040711-NH-015	04/07/11	08:25
MGQ52	002	GW-070102-040711-NH-016	04/07/11	07:58
MGQ53	003	GW-070102-040711-NH-017	04/07/11	08:24
MGQ54	004	GW-070102-040711-NH-018	04/07/11	09:45
MGQ55	005	GW-070102-040711-NH-019	04/07/11	09:50
MGQ56	006	TB-070102-040711-NH-002	04/07/11	09:04

NOTE(S) :

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- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filler test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Conestoga Rovers & Associates, Inc.

Client Sample ID: SW-070102-040511-NH-001

General Chemistry

Lot-Sample #...: A1D060583-001 Work Order #...: MGMJX Matrix.....: WG
Date Sampled...: 04/05/11 10:30 Date Received..: 04/06/11

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Dissolved Solids	527	10.0	mg/L	SM18 2540 C	04/11-04/12/11	1101317

Dilution Factor: 1

Conestoga Rovers & Associates, Inc.

Client Sample ID: SW-070102-040511-NH-002

General Chemistry

Lot-Sample #...: A1D060583-002 Work Order #...: MGMJ1 Matrix.....: WG
Date Sampled...: 04/05/11 11:30 Date Received..: 04/06/11

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Dissolved Solids	524	10.0	mg/L	SM18 2540 C	04/11-04/12/11	1101317

Dilution Factor: 1

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040511-NH-001

TOTAL Metals

Lot-Sample #...: A1D060583-003

Matrix.....: WG

Date Sampled...: 04/05/11 14:40 Date Received...: 04/06/11

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #...: 1098011						
Arsenic	31.4	10.0	ug/L	SW846 6010B	04/08-04/12/11	MGMJ21AP
		Dilution Factor: 1				
Barium	665	200	ug/L	SW846 6010B	04/08-04/12/11	MGMJ21AG
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	SW846 6010B	04/08-04/12/11	MGMJ21AH
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	04/08-04/12/11	MGMJ21AJ
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	SW846 6010B	04/08-04/12/11	MGMJ21AK
		Dilution Factor: 1				
Iron	25600	100	ug/L	SW846 6010B	04/08-04/12/11	MGMJ21AL
		Dilution Factor: 1				
Manganese	1650	15.0	ug/L	SW846 6010B	04/08-04/12/11	MGMJ21AM
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	SW846 6010B	04/08-04/12/11	MGMJ21AQ
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	SW846 6010B	04/08-04/12/11	MGMJ21AR
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010B	04/08-04/12/11	MGMJ21AN
		Dilution Factor: 1				

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040511-NH-001

General Chemistry

Lot-Sample #...: A1D060583-003 Work Order #...: MGMJ2 Matrix.....: WG
 Date Sampled...: 04/05/11 14:40 Date Received...: 04/06/11

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	382	5.0	mg/L	SW846 9056A	04/07/11	1098191
		Dilution Factor: 5				
Fluoride	ND	1.0	mg/L	SW846 9056A	04/07/11	1098186
		Dilution Factor: 1				
Nitrate as N	ND	0.10	mg/L	SW846 9056A	04/07/11	1098196
		Dilution Factor: 1				
Sulfate	ND	1.0	mg/L	SW846 9056A	04/07/11	1098198
		Dilution Factor: 1				
Total Dissolved Solids	1410	20.0	mg/L	SM18 2540 C	04/11-04/12/11	1101317
		Dilution Factor: 2				

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040511-NH-002

TOTAL Metals

Lot-Sample #...: A1D060583-004

Matrix.....: WG

Date Sampled...: 04/05/11 14:35 Date Received...: 04/06/11

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #...: 1098011						
Arsenic	43.3	10.0	ug/L	SW846 6010B	04/08-04/12/11	MGMJ51AP
		Dilution Factor: 1				
Barium	339	200	ug/L	SW846 6010B	04/08-04/12/11	MGMJ51AG
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	SW846 6010B	04/08-04/12/11	MGMJ51AH
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	04/08-04/12/11	MGMJ51AJ
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	SW846 6010B	04/08-04/12/11	MGMJ51AK
		Dilution Factor: 1				
Iron	14300	100	ug/L	SW846 6010B	04/08-04/12/11	MGMJ51AL
		Dilution Factor: 1				
Manganese	1280	15.0	ug/L	SW846 6010B	04/08-04/12/11	MGMJ51AM
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	SW846 6010B	04/08-04/12/11	MGMJ51AQ
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	SW846 6010B	04/08-04/12/11	MGMJ51AR
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010B	04/08-04/12/11	MGMJ51AN
		Dilution Factor: 1				

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040511-NH-002

General Chemistry

Lot-Sample #...: A1D060583-004 Work Order #...: MGMJ5 Matrix.....: WG
 Date Sampled...: 04/05/11 14:35 Date Received...: 04/06/11

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	112	1.0	mg/L	SW846 9056A	04/07/11	1098191
			Dilution Factor: 1			
Fluoride	5.4	1.0	mg/L	SW846 9056A	04/07/11	1098186
			Dilution Factor: 1			
Nitrate as N	ND	0.10	mg/L	SW846 9056A	04/07/11	1098196
			Dilution Factor: 1			
Sulfate	20.8	1.0	mg/L	SW846 9056A	04/07/11	1098198
			Dilution Factor: 1			
Total Dissolved Solids	1060	10.0	mg/L	SM18 2540 C	04/11-04/12/11	1101317
			Dilution Factor: 1			

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040511-NH-003

TOTAL Metals

Lot-Sample #...: A1D060583-005

Matrix.....: WG

Date Sampled...: 04/05/11 16:30 Date Received...: 04/06/11

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #...: 1098011						
Arsenic	ND	10.0	ug/L	SW846 6010B	04/08-04/12/11	MGMJ61AP
		Dilution Factor: 1				
Barium	513	200	ug/L	SW846 6010B	04/08-04/12/11	MGMJ61AG
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	SW846 6010B	04/08-04/12/11	MGMJ61AH
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	04/08-04/12/11	MGMJ61AJ
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	SW846 6010B	04/08-04/12/11	MGMJ61AK
		Dilution Factor: 1				
Iron	20700	100	ug/L	SW846 6010B	04/08-04/12/11	MGMJ61AL
		Dilution Factor: 1				
Manganese	596	15.0	ug/L	SW846 6010B	04/08-04/12/11	MGMJ61AM
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	SW846 6010B	04/08-04/12/11	MGMJ61AQ
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	SW846 6010B	04/08-04/12/11	MGMJ61AR
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010B	04/08-04/12/11	MGMJ61AN
		Dilution Factor: 1				

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040511-NH-003

General Chemistry

Lot-Sample #...: A1D060583-005 Work Order #...: MGMJ6 Matrix.....: WG
 Date Sampled...: 04/05/11 16:30 Date Received...: 04/06/11

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	189	1.0	mg/L	SW846 9056A	04/07/11	1098191
		Dilution Factor: 1				
Fluoride	ND	1.0	mg/L	SW846 9056A	04/07/11	1098186
		Dilution Factor: 1				
Nitrate as N	ND	0.10	mg/L	SW846 9056A	04/07/11	1098196
		Dilution Factor: 1				
Sulfate	287	2.0	mg/L	SW846 9056A	04/08/11	1101118
		Dilution Factor: 2				
Total Dissolved Solids	1380	20.0	mg/L	SM18 2540 C	04/11-04/12/11	1101317
		Dilution Factor: 2				

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040511-NH-004

TOTAL Metals

Lot-Sample #...: A1D060583-006

Matrix.....: WG

Date Sampled...: 04/05/11 16:26 Date Received...: 04/06/11

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #...: 1098011						
Arsenic	ND	10.0	ug/L	SW846 6010B	04/08-04/12/11	MGMJ71AP
		Dilution Factor: 1				
Barium	307	200	ug/L	SW846 6010B	04/08-04/12/11	MGMJ71AG
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	SW846 6010B	04/08-04/12/11	MGMJ71AH
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	04/08-04/12/11	MGMJ71AJ
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	SW846 6010B	04/08-04/12/11	MGMJ71AK
		Dilution Factor: 1				
Iron	15600	100	ug/L	SW846 6010B	04/08-04/12/11	MGMJ71AL
		Dilution Factor: 1				
Manganese	1070	15.0	ug/L	SW846 6010B	04/08-04/12/11	MGMJ71AM
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	SW846 6010B	04/08-04/12/11	MGMJ71AQ
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	SW846 6010B	04/08-04/12/11	MGMJ71AR
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010B	04/08-04/12/11	MGMJ71AN
		Dilution Factor: 1				

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040511-NH-004

General Chemistry

Lot-Sample #...: A1D060583-006 Work Order #...: MGMJ7 Matrix.....: WG
 Date Sampled...: 04/05/11 16:26 Date Received...: 04/06/11

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	29.1	1.0	mg/L	SW846 9056A	04/07/11	1098191
			Dilution Factor: 1			
Fluoride	ND	1.0	mg/L	SW846 9056A	04/07/11	1098186
			Dilution Factor: 1			
Nitrate as N	ND	0.10	mg/L	SW846 9056A	04/07/11	1098196
			Dilution Factor: 1			
Sulfate	10.4	1.0	mg/L	SW846 9056A	04/07/11	1098198
			Dilution Factor: 1			
Total Dissolved Solids	654	10.0	mg/L	SM18 2540 C	04/11-04/12/11	1101317
			Dilution Factor: 1			

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040511-NH-001

GC/MS Volatiles

Lot-Sample #...: A1D070505-001 Work Order #...: MGNX81AA Matrix.....: WG
 Date Sampled...: 04/05/11 14:40 Date Received..: 04/07/11
 Prep Date.....: 04/14/11 Analysis Date..: 04/14/11
 Prep Batch #...: 1105073
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	2.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	89	(75 - 121)
1,2-Dichloroethane-d4	88	(63 - 129)
Toluene-d8	85	(74 - 115)
4-Bromofluorobenzene	85	(66 - 117)

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040511-NH-001

GC/MS Volatiles

Lot-Sample #...: A1D070505-001 Work Order #...: MGNX81AC Matrix.....: WG
 Date Sampled...: 04/05/11 14:40 Date Received..: 04/07/11
 Prep Date.....: 04/14/11 Analysis Date..: 04/14/11
 Prep Batch #...: 1105073
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	89	(75 - 121)
1,2-Dichloroethane-d4	88	(63 - 129)
Toluene-d8	85	(74 - 115)
4-Bromofluorobenzene	85	(66 - 117)

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040511-NH-002

GC/MS Volatiles

Lot-Sample #...: A1D070505-002 Work Order #...: MGN0H1AA Matrix.....: WG
 Date Sampled...: 04/05/11 14:35 Date Received..: 04/07/11
 Prep Date.....: 04/14/11 Analysis Date..: 04/14/11
 Prep Batch #...: 1105073
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	2.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	91	(75 - 121)
1,2-Dichloroethane-d4	92	(63 - 129)
Toluene-d8	86	(74 - 115)
4-Bromofluorobenzene	89	(66 - 117)

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040511-NH-002

GC/MS Volatiles

Lot-Sample #...: A1D070505-002 Work Order #...: MGN0H1AC Matrix.....: WG
 Date Sampled...: 04/05/11 14:35 Date Received..: 04/07/11
 Prep Date.....: 04/14/11 Analysis Date..: 04/14/11
 Prep Batch #...: 1105073
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	91	(75 - 121)
1,2-Dichloroethane-d4	92	(63 - 129)
Toluene-d8	86	(74 - 115)
4-Bromofluorobenzene	89	(66 - 117)

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040511-NH-003

GC/MS Volatiles

Lot-Sample #...: A1D070505-003 Work Order #...: MGN0K1AA Matrix.....: WG
 Date Sampled...: 04/05/11 16:30 Date Received..: 04/07/11
 Prep Date.....: 04/14/11 Analysis Date..: 04/14/11
 Prep Batch #...: 1105073
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	2.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	90	(75 - 121)
1,2-Dichloroethane-d4	90	(63 - 129)
Toluene-d8	86	(74 - 115)
4-Bromofluorobenzene	85	(66 - 117)

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040511-NH-003

GC/MS Volatiles

Lot-Sample #...: A1D070505-003 Work Order #...: MGN0K1AC Matrix.....: WG
 Date Sampled...: 04/05/11 16:30 Date Received..: 04/07/11
 Prep Date.....: 04/14/11 Analysis Date..: 04/14/11
 Prep Batch #...: 1105073
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	90	(75 - 121)
1,2-Dichloroethane-d4	90	(63 - 129)
Toluene-d8	86	(74 - 115)
4-Bromofluorobenzene	85	(66 - 117)

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040511-NH-004

GC/MS Volatiles

Lot-Sample #...: A1D070505-004 Work Order #...: MGN0R1AA Matrix.....: WG
 Date Sampled...: 04/05/11 16:26 Date Received..: 04/07/11
 Prep Date.....: 04/14/11 Analysis Date..: 04/14/11
 Prep Batch #...: 1105073
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	2.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	90	(75 - 121)
1,2-Dichloroethane-d4	90	(63 - 129)
Toluene-d8	85	(74 - 115)
4-Bromofluorobenzene	86	(66 - 117)

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040511-NH-004

GC/MS Volatiles

Lot-Sample #...: A1D070505-004 Work Order #...: MGN0R1AC Matrix.....: WG
 Date Sampled...: 04/05/11 16:26 Date Received..: 04/07/11
 Prep Date.....: 04/14/11 Analysis Date..: 04/14/11
 Prep Batch #...: 1105073
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	90	(75 - 121)
1,2-Dichloroethane-d4	90	(63 - 129)
Toluene-d8	85	(74 - 115)
4-Bromofluorobenzene	86	(66 - 117)

Conestoga Rovers & Associates, Inc.

Client Sample ID: TB-070102-040511-NH-001

GC/MS Volatiles

Lot-Sample #...: A1D070505-005 Work Order #...: MGN001AA Matrix.....: WQ
 Date Sampled...: 04/05/11 17:30 Date Received..: 04/07/11
 Prep Date.....: 04/14/11 Analysis Date..: 04/14/11
 Prep Batch #...: 1105073
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	2.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	89	(75 - 121)
1,2-Dichloroethane-d4	91	(63 - 129)
Toluene-d8	88	(74 - 115)
4-Bromofluorobenzene	93	(66 - 117)

Conestoga Rovers & Associates, Inc.

Client Sample ID: TB-070102-040511-NH-001

GC/MS Volatiles

Lot-Sample #...: A1D070505-005 Work Order #...: MGN001AC Matrix.....: WQ
 Date Sampled...: 04/05/11 17:30 Date Received..: 04/07/11
 Prep Date.....: 04/14/11 Analysis Date..: 04/14/11
 Prep Batch #...: 1105073
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	89	(75 - 121)
1,2-Dichloroethane-d4	91	(63 - 129)
Toluene-d8	88	(74 - 115)
4-Bromofluorobenzene	93	(66 - 117)

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040611-NH-005

GC/MS Volatiles

Lot-Sample #...: A1D070505-006 Work Order #...: MGN051AA Matrix.....: WG
 Date Sampled...: 04/06/11 08:40 Date Received..: 04/07/11
 Prep Date.....: 04/15/11 Analysis Date..: 04/15/11
 Prep Batch #...: 1108114
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	2.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	91	(75 - 121)
1,2-Dichloroethane-d4	87	(63 - 129)
Toluene-d8	82	(74 - 115)
4-Bromofluorobenzene	95	(66 - 117)

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040611-NH-005

GC/MS Volatiles

Lot-Sample #...: A1D070505-006 Work Order #...: MGN051AU Matrix.....: WG
 Date Sampled...: 04/06/11 08:40 Date Received..: 04/07/11
 Prep Date.....: 04/15/11 Analysis Date..: 04/15/11
 Prep Batch #...: 1108114
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	91	(75 - 121)
1,2-Dichloroethane-d4	87	(63 - 129)
Toluene-d8	82	(74 - 115)
4-Bromofluorobenzene	95	(66 - 117)

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040611-NH-005

TOTAL Metals

Lot-Sample #...: A1D070505-006

Matrix.....: WG

Date Sampled...: 04/06/11 08:40 Date Received...: 04/07/11

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #...: 1098011						
Arsenic	ND	10.0	ug/L	SW846 6010B	04/08-04/12/11	MGN051AQ
		Dilution Factor: 1				
Barium	ND	200	ug/L	SW846 6010B	04/08-04/12/11	MGN051AH
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	SW846 6010B	04/08-04/12/11	MGN051AJ
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	04/08-04/12/11	MGN051AK
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	SW846 6010B	04/08-04/12/11	MGN051AL
		Dilution Factor: 1				
Iron	2440	100	ug/L	SW846 6010B	04/08-04/12/11	MGN051AM
		Dilution Factor: 1				
Manganese	1510	15.0	ug/L	SW846 6010B	04/08-04/12/11	MGN051AN
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	SW846 6010B	04/08-04/12/11	MGN051AR
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	SW846 6010B	04/08-04/12/11	MGN051AT
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010B	04/08-04/12/11	MGN051AP
		Dilution Factor: 1				

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040611-NH-005

General Chemistry

Lot-Sample #...: A1D070505-006 Work Order #...: MGN05 Matrix.....: WG
 Date Sampled...: 04/06/11 08:40 Date Received..: 04/07/11

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	131	1.0	mg/L	SW846 9056A	04/07/11	1098191
		Dilution Factor: 1				
Fluoride	3.6	1.0	mg/L	SW846 9056A	04/08/11	1101296
		Dilution Factor: 1				
Nitrate as N	ND	0.10	mg/L	SW846 9056A	04/07/11	1098196
		Dilution Factor: 1				
Sulfate	81.5	1.0	mg/L	SW846 9056A	04/07/11	1098198
		Dilution Factor: 1				
Total Dissolved Solids	1190	20.0	mg/L	SM18 2540 C	04/11-04/12/11	1101317
		Dilution Factor: 2				

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040611-NH-006

GC/MS Volatiles

Lot-Sample #...: A1D070505-007 Work Order #...: MGN1J1AA Matrix.....: WG
 Date Sampled...: 04/06/11 08:52 Date Received..: 04/07/11
 Prep Date.....: 04/15/11 Analysis Date..: 04/15/11
 Prep Batch #...: 1108114
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	2.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	89	(75 - 121)
1,2-Dichloroethane-d4	86	(63 - 129)
Toluene-d8	83	(74 - 115)
4-Bromofluorobenzene	92	(66 - 117)

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040611-NH-006

GC/MS Volatiles

Lot-Sample #...: A1D070505-007 Work Order #...: MGN1J1AU Matrix.....: WG
 Date Sampled...: 04/06/11 08:52 Date Received..: 04/07/11
 Prep Date.....: 04/15/11 Analysis Date..: 04/15/11
 Prep Batch #...: 1108114
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Bromoform	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	89	(75 - 121)
1,2-Dichloroethane-d4	86	(63 - 129)
Toluene-d8	83	(74 - 115)
4-Bromofluorobenzene	92	(66 - 117)

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040611-NH-006

TOTAL Metals

Lot-Sample #...: A1D070505-007

Matrix.....: WG

Date Sampled...: 04/06/11 08:52 Date Received...: 04/07/11

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS				
Prep Batch #...: 1098011							
Arsenic	ND	10.0	ug/L	SW846 6010B	04/08-04/12/11	MGN1J1AQ	
		Dilution Factor: 1					
Barium	ND	200	ug/L	SW846 6010B	04/08-04/12/11	MGN1J1AH	
		Dilution Factor: 1					
Cadmium	ND	5.0	ug/L	SW846 6010B	04/08-04/12/11	MGN1J1AJ	
		Dilution Factor: 1					
Chromium	ND	10.0	ug/L	SW846 6010B	04/08-04/12/11	MGN1J1AK	
		Dilution Factor: 1					
Copper	ND	25.0	ug/L	SW846 6010B	04/08-04/12/11	MGN1J1AL	
		Dilution Factor: 1					
Iron	6730	100	ug/L	SW846 6010B	04/08-04/12/11	MGN1J1AM	
		Dilution Factor: 1					
Manganese	1140	15.0	ug/L	SW846 6010B	04/08-04/12/11	MGN1J1AN	
		Dilution Factor: 1					
Lead	ND	3.0	ug/L	SW846 6010B	04/08-04/12/11	MGN1J1AR	
		Dilution Factor: 1					
Selenium	ND	5.0	ug/L	SW846 6010B	04/08-04/12/11	MGN1J1AT	
		Dilution Factor: 1					
Zinc	ND	20.0	ug/L	SW846 6010B	04/08-04/12/11	MGN1J1AP	
		Dilution Factor: 1					

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040611-NH-006

General Chemistry

Lot-Sample #...: A1D070505-007 Work Order #...: MGN1J Matrix.....: WG
 Date Sampled...: 04/06/11 08:52 Date Received...: 04/07/11

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	115	1.0	mg/L	SW846 9056A	04/07/11	1098191
			Dilution Factor: 1			
Fluoride	2.3	1.0	mg/L	SW846 9056A	04/08/11	1101296
			Dilution Factor: 1			
Nitrate as N	ND	0.10	mg/L	SW846 9056A	04/07/11	1098196
			Dilution Factor: 1			
Sulfate	8.0	1.0	mg/L	SW846 9056A	04/07/11	1098198
			Dilution Factor: 1			
Total Dissolved Solids	1100	10.0	mg/L	SM18 2540 C	04/11-04/12/11	1101317
			Dilution Factor: 1			

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040611-NH-007

GC/MS Volatiles

Lot-Sample #...: A1D070505-008 Work Order #...: MGN1M1AA Matrix.....: WG
 Date Sampled...: 04/06/11 10:10 Date Received..: 04/07/11
 Prep Date.....: 04/15/11 Analysis Date..: 04/15/11
 Prep Batch #...: 1108114
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	2.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	92	(75 - 121)
1,2-Dichloroethane-d4	87	(63 - 129)
Toluene-d8	83	(74 - 115)
4-Bromofluorobenzene	92	(66 - 117)

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040611-NH-007

GC/MS Volatiles

Lot-Sample #...: A1D070505-008 Work Order #...: MGN1M1AU Matrix.....: WG
 Date Sampled...: 04/06/11 10:10 Date Received..: 04/07/11
 Prep Date.....: 04/15/11 Analysis Date..: 04/15/11
 Prep Batch #...: 1108114
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	92	(75 - 121)
1,2-Dichloroethane-d4	87	(63 - 129)
Toluene-d8	83	(74 - 115)
4-Bromofluorobenzene	92	(66 - 117)

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040611-NH-007

TOTAL Metals

Lot-Sample #...: A1D070505-008

Matrix.....: WG

Date Sampled...: 04/06/11 10:10 Date Received...: 04/07/11

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #...: 1098011						
Arsenic	ND	10.0	ug/L	SW846 6010B	04/08-04/12/11	MGN1M1AQ
		Dilution Factor: 1				
Barium	423	200	ug/L	SW846 6010B	04/08-04/12/11	MGN1M1AH
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	SW846 6010B	04/08-04/12/11	MGN1M1AJ
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	04/08-04/12/11	MGN1M1AK
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	SW846 6010B	04/08-04/12/11	MGN1M1AL
		Dilution Factor: 1				
Iron	1870	100	ug/L	SW846 6010B	04/08-04/12/11	MGN1M1AM
		Dilution Factor: 1				
Manganese	1250	15.0	ug/L	SW846 6010B	04/08-04/12/11	MGN1M1AN
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	SW846 6010B	04/08-04/12/11	MGN1M1AR
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	SW846 6010B	04/08-04/12/11	MGN1M1AT
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010B	04/08-04/12/11	MGN1M1AP
		Dilution Factor: 1				

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040611-NH-007

General Chemistry

Lot-Sample #...: A1D070505-008 Work Order #...: MGN1M Matrix.....: WG
 Date Sampled...: 04/06/11 10:10 Date Received...: 04/07/11

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	609	5.0	mg/L	SW846 9056A	04/13/11	1104304
		Dilution Factor: 5				
Fluoride	ND	1.0	mg/L	SW846 9056A	04/08/11	1101296
		Dilution Factor: 1				
Nitrate as N	ND	0.10	mg/L	SW846 9056A	04/07/11	1098196
		Dilution Factor: 1				
Sulfate	50.1	1.0	mg/L	SW846 9056A	04/07/11	1098198
		Dilution Factor: 1				
Total Dissolved Solids	1540	20.0	mg/L	SM18 2540 C	04/11-04/12/11	1101317
		Dilution Factor: 2				

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040611-NH-008

GC/MS Volatiles

Lot-Sample #...: A1D070505-009 Work Order #...: MGN1N1AA Matrix.....: WG
 Date Sampled...: 04/06/11 10:15 Date Received..: 04/07/11
 Prep Date.....: 04/15/11 Analysis Date..: 04/15/11
 Prep Batch #...: 1108114
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	2.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	91	(75 - 121)
1,2-Dichloroethane-d4	88	(63 - 129)
Toluene-d8	83	(74 - 115)
4-Bromofluorobenzene	92	(66 - 117)

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040611-NH-008

GC/MS Volatiles

Lot-Sample #...: A1D070505-009 Work Order #...: MGN1N1AU Matrix.....: WG
 Date Sampled...: 04/06/11 10:15 Date Received..: 04/07/11
 Prep Date.....: 04/15/11 Analysis Date..: 04/15/11
 Prep Batch #...: 1108114
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	91	(75 - 121)
1,2-Dichloroethane-d4	88	(63 - 129)
Toluene-d8	83	(74 - 115)
4-Bromofluorobenzene	92	(66 - 117)

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040611-NH-008

TOTAL Metals

Lot-Sample #...: A1D070505-009

Matrix.....: WG

Date Sampled...: 04/06/11 10:15 Date Received...: 04/07/11

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #...: 1098011						
Arsenic	ND	10.0	ug/L	SW846 6010B	04/08-04/12/11	MGN1N1AQ
		Dilution Factor: 1				
Barium	400	200	ug/L	SW846 6010B	04/08-04/12/11	MGN1N1AH
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	SW846 6010B	04/08-04/12/11	MGN1N1AJ
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	04/08-04/12/11	MGN1N1AK
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	SW846 6010B	04/08-04/12/11	MGN1N1AL
		Dilution Factor: 1				
Iron	2040	100	ug/L	SW846 6010B	04/08-04/12/11	MGN1N1AM
		Dilution Factor: 1				
Manganese	1250	15.0	ug/L	SW846 6010B	04/08-04/12/11	MGN1N1AN
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	SW846 6010B	04/08-04/12/11	MGN1N1AR
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	SW846 6010B	04/08-04/12/11	MGN1N1AT
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010B	04/08-04/12/11	MGN1N1AP
		Dilution Factor: 1				

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040611-NH-008

General Chemistry

Lot-Sample #...: A1D070505-009 Work Order #...: MGN1N Matrix.....: WG
 Date Sampled...: 04/06/11 10:15 Date Received...: 04/07/11

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	548	5.0	mg/L	SW846 9056A	04/13/11	1104304
		Dilution Factor: 5				
Fluoride	ND	1.0	mg/L	SW846 9056A	04/08/11	1101296
		Dilution Factor: 1				
Nitrate as N	ND	0.10	mg/L	SW846 9056A	04/07/11	1098196
		Dilution Factor: 1				
Sulfate	56.4	1.0	mg/L	SW846 9056A	04/07/11	1098198
		Dilution Factor: 1				
Total Dissolved Solids	1470	20.0	mg/L	SM18 2540 C	04/11-04/12/11	1101317
		Dilution Factor: 2				

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040611-NH-009

GC/MS Volatiles

Lot-Sample #...: A1D070505-010 Work Order #...: MGN1Q1AA Matrix.....: WG
 Date Sampled...: 04/06/11 10:19 Date Received..: 04/07/11
 Prep Date.....: 04/15/11 Analysis Date..: 04/15/11
 Prep Batch #...: 1108114
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	2.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	91	(75 - 121)
1,2-Dichloroethane-d4	87	(63 - 129)
Toluene-d8	82	(74 - 115)
4-Bromofluorobenzene	92	(66 - 117)

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040611-NH-009

GC/MS Volatiles

Lot-Sample #...: A1D070505-010 Work Order #...: MGN1Q1C7 Matrix.....: WG
 Date Sampled...: 04/06/11 10:19 Date Received..: 04/07/11
 Prep Date.....: 04/15/11 Analysis Date..: 04/15/11
 Prep Batch #...: 1108114
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	91	(75 - 121)
1,2-Dichloroethane-d4	87	(63 - 129)
Toluene-d8	82	(74 - 115)
4-Bromofluorobenzene	92	(66 - 117)

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040611-NH-009

TOTAL Metals

Lot-Sample #...: A1D070505-010

Matrix.....: WG

Date Sampled...: 04/06/11 10:19 Date Received...: 04/07/11

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #...: 1098011						
Arsenic	ND	10.0	ug/L	SW846 6010B	04/08-04/12/11	MGN1Q1CL
		Dilution Factor: 1				
Barium	ND	200	ug/L	SW846 6010B	04/08-04/12/11	MGN1Q1AW
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	SW846 6010B	04/08-04/12/11	MGN1Q1A1
		Dilution Factor: 1				
Chromium	11.8	10.0	ug/L	SW846 6010B	04/08-04/12/11	MGN1Q1A4
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	SW846 6010B	04/08-04/12/11	MGN1Q1A7
		Dilution Factor: 1				
Iron	13000	100	ug/L	SW846 6010B	04/08-04/12/11	MGN1Q1CA
		Dilution Factor: 1				
Manganese	2270	15.0	ug/L	SW846 6010B	04/08-04/12/11	MGN1Q1CE
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	SW846 6010B	04/08-04/12/11	MGN1Q1CP
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	SW846 6010B	04/08-04/12/11	MGN1Q1CT
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010B	04/08-04/12/11	MGN1Q1CH
		Dilution Factor: 1				

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040611-NH-009

General Chemistry

Lot-Sample #...: A1D070505-010 Work Order #...: MGN1Q Matrix.....: WG
 Date Sampled...: 04/06/11 10:19 Date Received...: 04/07/11

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	58.6	1.0	mg/L	SW846 9056A	04/08/11	1101300
			Dilution Factor: 1			
Fluoride	ND	1.0	mg/L	SW846 9056A	04/08/11	1101296
			Dilution Factor: 1			
Nitrate as N	ND	0.10	mg/L	SW846 9056A	04/07/11	1098196
			Dilution Factor: 1			
Sulfate	193	1.0	mg/L	SW846 9056A	04/08/11	1101309
			Dilution Factor: 1			
Total Dissolved Solids	860	10.0	mg/L	SM18 2540 C	04/11-04/12/11	1101317
			Dilution Factor: 1			

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040611-NH-010

GC/MS Volatiles

Lot-Sample #...: A1D070505-011 Work Order #...: MGN1W1AA Matrix.....: WG
 Date Sampled...: 04/06/11 11:04 Date Received..: 04/07/11
 Prep Date.....: 04/15/11 Analysis Date..: 04/15/11
 Prep Batch #...: 1108114
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	2.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	91	(75 - 121)
1,2-Dichloroethane-d4	87	(63 - 129)
Toluene-d8	82	(74 - 115)
4-Bromofluorobenzene	92	(66 - 117)

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040611-NH-010

GC/MS Volatiles

Lot-Sample #...: A1D070505-011 Work Order #...: MGN1W1AU Matrix.....: WG
 Date Sampled...: 04/06/11 11:04 Date Received..: 04/07/11
 Prep Date.....: 04/15/11 Analysis Date..: 04/15/11
 Prep Batch #...: 1108114
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	91	(75 - 121)
1,2-Dichloroethane-d4	87	(63 - 129)
Toluene-d8	82	(74 - 115)
4-Bromofluorobenzene	92	(66 - 117)

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040611-NH-010

TOTAL Metals

Lot-Sample #...: A1D070505-011

Matrix.....: WG

Date Sampled...: 04/06/11 11:04 Date Received...: 04/07/11

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #...: 1098011						
Arsenic	17.6	10.0	ug/L	SW846 6010B	04/08-04/12/11	MGN1W1AQ
		Dilution Factor: 1				
Barium	ND	200	ug/L	SW846 6010B	04/08-04/12/11	MGN1W1AH
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	SW846 6010B	04/08-04/12/11	MGN1W1AJ
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	04/08-04/12/11	MGN1W1AK
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	SW846 6010B	04/08-04/12/11	MGN1W1AL
		Dilution Factor: 1				
Iron	5670	100	ug/L	SW846 6010B	04/08-04/12/11	MGN1W1AM
		Dilution Factor: 1				
Manganese	459	15.0	ug/L	SW846 6010B	04/08-04/12/11	MGN1W1AN
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	SW846 6010B	04/08-04/12/11	MGN1W1AR
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	SW846 6010B	04/08-04/12/11	MGN1W1AT
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010B	04/08-04/12/11	MGN1W1AP
		Dilution Factor: 1				

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040611-NH-010

General Chemistry

Lot-Sample #...: A1D070505-011 Work Order #...: MGN1W Matrix.....: WG
 Date Sampled...: 04/06/11 11:04 Date Received...: 04/07/11

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	132	1.0	mg/L	SW846 9056A	04/08/11	1098191
			Dilution Factor: 1			
Fluoride	3.5	1.0	mg/L	SW846 9056A	04/08/11	1101296
			Dilution Factor: 1			
Nitrate as N	ND	0.10	mg/L	SW846 9056A	04/08/11	1098196
			Dilution Factor: 1			
Sulfate	ND	1.0	mg/L	SW846 9056A	04/08/11	1098198
			Dilution Factor: 1			
Total Dissolved Solids	1210	20.0	mg/L	SM18 2540 C	04/11-04/12/11	1101317
			Dilution Factor: 2			

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040611-NH-011

GC/MS Volatiles

Lot-Sample #...: A1D070505-012 Work Order #...: MGN101AA Matrix.....: WG
 Date Sampled...: 04/06/11 11:45 Date Received..: 04/07/11
 Prep Date.....: 04/15/11 Analysis Date..: 04/15/11
 Prep Batch #...: 1108114
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	2.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	94	(75 - 121)
1,2-Dichloroethane-d4	90	(63 - 129)
Toluene-d8	84	(74 - 115)
4-Bromofluorobenzene	93	(66 - 117)

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040611-NH-011

GC/MS Volatiles

Lot-Sample #...: A1D070505-012 Work Order #...: MGN101AU Matrix.....: WG
 Date Sampled...: 04/06/11 11:45 Date Received..: 04/07/11
 Prep Date.....: 04/15/11 Analysis Date..: 04/15/11
 Prep Batch #...: 1108114
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	94	(75 - 121)
1,2-Dichloroethane-d4	90	(63 - 129)
Toluene-d8	84	(74 - 115)
4-Bromofluorobenzene	93	(66 - 117)

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040611-NH-011

TOTAL Metals

Lot-Sample #...: A1D070505-012

Matrix.....: WG

Date Sampled...: 04/06/11 11:45 Date Received...: 04/07/11

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #...: 1098011						
Arsenic	ND	10.0	ug/L	SW846 6010B	04/08-04/12/11	MGN101AQ
		Dilution Factor: 1				
Barium	272	200	ug/L	SW846 6010B	04/08-04/12/11	MGN101AH
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	SW846 6010B	04/08-04/12/11	MGN101AJ
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	04/08-04/12/11	MGN101AK
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	SW846 6010B	04/08-04/12/11	MGN101AL
		Dilution Factor: 1				
Iron	23700	100	ug/L	SW846 6010B	04/08-04/12/11	MGN101AM
		Dilution Factor: 1				
Manganese	275	15.0	ug/L	SW846 6010B	04/08-04/12/11	MGN101AN
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	SW846 6010B	04/08-04/12/11	MGN101AR
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	SW846 6010B	04/08-04/12/11	MGN101AT
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010B	04/08-04/12/11	MGN101AP
		Dilution Factor: 1				

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040611-NH-011

General Chemistry

Lot-Sample #...: A1D070505-012 Work Order #...: MGN10 Matrix.....: WG
 Date Sampled...: 04/06/11 11:45 Date Received...: 04/07/11

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	52.3	1.0	mg/L	SW846 9056A	04/08/11	1098191
			Dilution Factor: 1			
Fluoride	ND	1.0	mg/L	SW846 9056A	04/08/11	1101296
			Dilution Factor: 1			
Nitrate as N	ND	0.10	mg/L	SW846 9056A	04/08/11	1098196
			Dilution Factor: 1			
Sulfate	ND	1.0	mg/L	SW846 9056A	04/08/11	1098198
			Dilution Factor: 1			
Total Dissolved Solids	921	10.0	mg/L	SM18 2540 C	04/11-04/12/11	1101317
			Dilution Factor: 1			

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040611-NH-012

GC/MS Volatiles

Lot-Sample #...: A1D070505-013 Work Order #...: MGN111AA Matrix.....: WG
 Date Sampled...: 04/06/11 13:52 Date Received...: 04/07/11
 Prep Date.....: 04/15/11 Analysis Date...: 04/15/11
 Prep Batch #...: 1108114
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	2.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	94	(75 - 121)
1,2-Dichloroethane-d4	90	(63 - 129)
Toluene-d8	84	(74 - 115)
4-Bromofluorobenzene	93	(66 - 117)

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040611-NH-012

GC/MS Volatiles

Lot-Sample #...: A1D070505-013 Work Order #...: MGN111AU Matrix.....: WG
 Date Sampled...: 04/06/11 13:52 Date Received..: 04/07/11
 Prep Date.....: 04/15/11 Analysis Date..: 04/15/11
 Prep Batch #...: 1108114
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	94	(75 - 121)
1,2-Dichloroethane-d4	90	(63 - 129)
Toluene-d8	84	(74 - 115)
4-Bromofluorobenzene	93	(66 - 117)

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040611-NH-012

TOTAL Metals

Lot-Sample #...: A1D070505-013

Matrix.....: WG

Date Sampled...: 04/06/11 13:52 Date Received...: 04/07/11

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #...: 1098011						
Arsenic	ND	10.0	ug/L	SW846 6010B	04/08-04/12/11	MGN111AQ
		Dilution Factor: 1				
Barium	ND	200	ug/L	SW846 6010B	04/08-04/12/11	MGN111AH
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	SW846 6010B	04/08-04/12/11	MGN111AJ
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	04/08-04/12/11	MGN111AK
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	SW846 6010B	04/08-04/12/11	MGN111AL
		Dilution Factor: 1				
Iron	203	100	ug/L	SW846 6010B	04/08-04/12/11	MGN111AM
		Dilution Factor: 1				
Manganese	2350	15.0	ug/L	SW846 6010B	04/08-04/12/11	MGN111AN
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	SW846 6010B	04/08-04/12/11	MGN111AR
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	SW846 6010B	04/08-04/12/11	MGN111AT
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010B	04/08-04/12/11	MGN111AP
		Dilution Factor: 1				

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040611-NH-012

General Chemistry

Lot-Sample #...: A1D070505-013 Work Order #...: MGN11 Matrix.....: WG
 Date Sampled...: 04/06/11 13:52 Date Received...: 04/07/11

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	196	1.0	mg/L	SW846 9056A	04/08/11	1098191
		Dilution Factor: 1				
Fluoride	ND	1.0	mg/L	SW846 9056A	04/08/11	1101296
		Dilution Factor: 1				
Nitrate as N	0.10	0.10	mg/L	SW846 9056A	04/08/11	1098196
		Dilution Factor: 1				
Sulfate	204	2.0	mg/L	SW846 9056A	04/08/11	1101309
		Dilution Factor: 2				
Total Dissolved Solids	1060	10.0	mg/L	SM18 2540 C	04/11-04/12/11	1101317
		Dilution Factor: 1				

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040611-NH-013

GC/MS Volatiles

Lot-Sample #...: A1D070505-014 Work Order #...: MGN131AA Matrix.....: WG
 Date Sampled...: 04/06/11 15:30 Date Received..: 04/07/11
 Prep Date.....: 04/15/11 Analysis Date..: 04/15/11
 Prep Batch #...: 1108114
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	2.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	91	(75 - 121)
1,2-Dichloroethane-d4	87	(63 - 129)
Toluene-d8	80	(74 - 115)
4-Bromofluorobenzene	91	(66 - 117)

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040611-NH-013

GC/MS Volatiles

Lot-Sample #...: A1D070505-014 Work Order #...: MGN131AU Matrix.....: WG
 Date Sampled...: 04/06/11 15:30 Date Received..: 04/07/11
 Prep Date.....: 04/15/11 Analysis Date..: 04/15/11
 Prep Batch #...: 1108114
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroform	2.3	1.0	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	91	(75 - 121)
1,2-Dichloroethane-d4	87	(63 - 129)
Toluene-d8	80	(74 - 115)
4-Bromofluorobenzene	91	(66 - 117)

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040611-NH-013

TOTAL Metals

Lot-Sample #...: A1D070505-014

Matrix.....: WG

Date Sampled...: 04/06/11 15:30 Date Received...: 04/07/11

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #...: 1098011						
Arsenic	ND	10.0	ug/L	SW846 6010B	04/08-04/12/11	MGN131AQ
		Dilution Factor: 1				
Barium	415	200	ug/L	SW846 6010B	04/08-04/12/11	MGN131AH
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	SW846 6010B	04/08-04/12/11	MGN131AJ
		Dilution Factor: 1				
Chromium	155	10.0	ug/L	SW846 6010B	04/08-04/12/11	MGN131AK
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	SW846 6010B	04/08-04/12/11	MGN131AL
		Dilution Factor: 1				
Iron	9550	100	ug/L	SW846 6010B	04/08-04/12/11	MGN131AM
		Dilution Factor: 1				
Manganese	129	15.0	ug/L	SW846 6010B	04/08-04/12/11	MGN131AN
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	SW846 6010B	04/08-04/12/11	MGN131AR
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	SW846 6010B	04/08-04/12/11	MGN131AT
		Dilution Factor: 1				
Zinc	49.9	20.0	ug/L	SW846 6010B	04/08-04/12/11	MGN131AP
		Dilution Factor: 1				

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040611-NH-013

General Chemistry

Lot-Sample #...: A1D070505-014 Work Order #...: MGN13 Matrix.....: WG
 Date Sampled...: 04/06/11 15:30 Date Received...: 04/07/11

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	339	2.0	mg/L	SW846 9056A	04/08/11	1101105
		Dilution Factor: 2				
Fluoride	1.5	1.0	mg/L	SW846 9056A	04/08/11	1101102
		Dilution Factor: 1				
Nitrate as N	1.0	0.10	mg/L	SW846 9056A	04/08/11	1101113
		Dilution Factor: 1				
Sulfate	17.6	1.0	mg/L	SW846 9056A	04/08/11	1101118
		Dilution Factor: 1				
Total Dissolved Solids	1370	20.0	mg/L	SM18 2540 C	04/11-04/12/11	1101317
		Dilution Factor: 2				

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040611-NH-014

GC/MS Volatiles

Lot-Sample #...: A1D070505-015 Work Order #...: MGN171AA Matrix.....: WG
 Date Sampled...: 04/06/11 15:41 Date Received..: 04/07/11
 Prep Date.....: 04/15/11 Analysis Date..: 04/15/11
 Prep Batch #...: 1108114
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	2.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	93	(75 - 121)
1,2-Dichloroethane-d4	88	(63 - 129)
Toluene-d8	82	(74 - 115)
4-Bromofluorobenzene	92	(66 - 117)

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040611-NH-014

GC/MS Volatiles

Lot-Sample #...: A1D070505-015 Work Order #...: MGN171AU Matrix.....: WG
 Date Sampled...: 04/06/11 15:41 Date Received..: 04/07/11
 Prep Date.....: 04/15/11 Analysis Date..: 04/15/11
 Prep Batch #...: 1108114
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	93	(75 - 121)
1,2-Dichloroethane-d4	88	(63 - 129)
Toluene-d8	82	(74 - 115)
4-Bromofluorobenzene	92	(66 - 117)

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040611-NH-014

TOTAL Metals

Lot-Sample #...: A1D070505-015

Matrix.....: WG

Date Sampled...: 04/06/11 15:41 Date Received...: 04/07/11

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #...: 1098011						
Arsenic	20.2	10.0	ug/L	SW846 6010B	04/08-04/12/11	MGN171AQ
		Dilution Factor: 1				
Barium	ND	200	ug/L	SW846 6010B	04/08-04/12/11	MGN171AH
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	SW846 6010B	04/08-04/12/11	MGN171AJ
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	04/08-04/12/11	MGN171AK
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	SW846 6010B	04/08-04/12/11	MGN171AL
		Dilution Factor: 1				
Iron	2980	100	ug/L	SW846 6010B	04/08-04/12/11	MGN171AM
		Dilution Factor: 1				
Manganese	2400	15.0	ug/L	SW846 6010B	04/08-04/12/11	MGN171AN
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	SW846 6010B	04/08-04/12/11	MGN171AR
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	SW846 6010B	04/08-04/12/11	MGN171AT
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010B	04/08-04/12/11	MGN171AP
		Dilution Factor: 1				

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040611-NH-014

General Chemistry

Lot-Sample #...: A1D070505-015 Work Order #...: MGN17 Matrix.....: WG
 Date Sampled...: 04/06/11 15:41 Date Received...: 04/07/11

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	171	1.0	mg/L	SW846 9056A	04/08/11	1101105
		Dilution Factor: 1				
Fluoride	ND	1.0	mg/L	SW846 9056A	04/08/11	1101102
		Dilution Factor: 1				
Nitrate as N	ND	0.10	mg/L	SW846 9056A	04/08/11	1101113
		Dilution Factor: 1				
Sulfate	105	1.0	mg/L	SW846 9056A	04/08/11	1101118
		Dilution Factor: 1				
Total Dissolved Solids	805	10.0	mg/L	SM18 2540 C	04/11-04/12/11	1101317
		Dilution Factor: 1				

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040711-NH-015

GC/MS Volatiles

Lot-Sample #...: A1D080539-001 Work Order #...: MGQ5R1AA Matrix.....: WG
 Date Sampled...: 04/07/11 08:25 Date Received..: 04/08/11
 Prep Date.....: 04/15/11 Analysis Date..: 04/15/11
 Prep Batch #...: 1108114
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	2.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	95	(75 - 121)
1,2-Dichloroethane-d4	90	(63 - 129)
Toluene-d8	84	(74 - 115)
4-Bromofluorobenzene	94	(66 - 117)

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040711-NH-015

GC/MS Volatiles

Lot-Sample #...: A1D080539-001 Work Order #...: MGQ5R1AU Matrix.....: WG
 Date Sampled...: 04/07/11 08:25 Date Received..: 04/08/11
 Prep Date.....: 04/15/11 Analysis Date..: 04/15/11
 Prep Batch #...: 1108114
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
Dibromofluoromethane	95	(75 - 121)	
1,2-Dichloroethane-d4	90	(63 - 129)	
Toluene-d8	84	(74 - 115)	
4-Bromofluorobenzene	94	(66 - 117)	

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040711-NH-015

TOTAL Metals

Lot-Sample #...: A1D080539-001

Matrix.....: WG

Date Sampled...: 04/07/11 08:25 Date Received...: 04/08/11

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS			ANALYSIS DATE	ORDER #
Prep Batch #...:	1101018						
Arsenic	38.1	10.0	ug/L	SW846 6010B	04/11-04/13/11	MGQ5R1AK	
		Dilution Factor: 1					
Barium	457	200	ug/L	SW846 6010B	04/11-04/13/11	MGQ5R1AC	
		Dilution Factor: 1					
Cadmium	9.1	5.0	ug/L	SW846 6010B	04/11-04/13/11	MGQ5R1AD	
		Dilution Factor: 1					
Chromium	128	10.0	ug/L	SW846 6010B	04/11-04/13/11	MGQ5R1AE	
		Dilution Factor: 1					
Copper	240	25.0	ug/L	SW846 6010B	04/11-04/13/11	MGQ5R1AF	
		Dilution Factor: 1					
Iron	138000	100	ug/L	SW846 6010B	04/11-04/13/11	MGQ5R1AG	
		Dilution Factor: 1					
Manganese	2220	15.0	ug/L	SW846 6010B	04/11-04/13/11	MGQ5R1AH	
		Dilution Factor: 1					
Lead	74.7	3.0	ug/L	SW846 6010B	04/11-04/13/11	MGQ5R1AL	
		Dilution Factor: 1					
Selenium	13.5	5.0	ug/L	SW846 6010B	04/11-04/13/11	MGQ5R1AM	
		Dilution Factor: 1					
Zinc	400	20.0	ug/L	SW846 6010B	04/11-04/13/11	MGQ5R1AJ	
		Dilution Factor: 1					

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040711-NH-015

General Chemistry

Lot-Sample #...: A1D080539-001 Work Order #...: MGQ5R Matrix.....: WG
 Date Sampled...: 04/07/11 08:25 Date Received..: 04/08/11

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	57.4	1.0	mg/L	SW846 9056A	04/08/11	1101300
		Dilution Factor: 1				
Fluoride	ND	1.0	mg/L	SW846 9056A	04/08/11	1101296
		Dilution Factor: 1				
Nitrate as N	ND	0.10	mg/L	SW846 9056A	04/08/11	1101305
		Dilution Factor: 1				
Sulfate	197	1.0	mg/L	SW846 9056A	04/08/11	1101309
		Dilution Factor: 1				
Total Dissolved Solids	1000	100	mg/L	SM18 2540 C	04/11-04/12/11	1101317
		Dilution Factor: 10				

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040711-NH-016

GC/MS Volatiles

Lot-Sample #...: A1D080539-002 Work Order #...: MGQ521AA Matrix.....: WG
 Date Sampled...: 04/07/11 07:58 Date Received..: 04/08/11
 Prep Date.....: 04/15/11 Analysis Date..: 04/15/11
 Prep Batch #...: 1108114
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	2.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	93	(75 - 121)
1,2-Dichloroethane-d4	87	(63 - 129)
Toluene-d8	82	(74 - 115)
4-Bromofluorobenzene	92	(66 - 117)

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040711-NH-016

GC/MS Volatiles

Lot-Sample #...: A1D080539-002 Work Order #...: MGQ521AU Matrix.....: WG
 Date Sampled...: 04/07/11 07:58 Date Received..: 04/08/11
 Prep Date.....: 04/15/11 Analysis Date..: 04/15/11
 Prep Batch #...: 1108114
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Bromodichloromethane	2.1	1.0	ug/L
Bromoform	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroform	6.7	1.0	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	93	(75 - 121)
1,2-Dichloroethane-d4	87	(63 - 129)
Toluene-d8	82	(74 - 115)
4-Bromofluorobenzene	92	(66 - 117)

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040711-NH-016

TOTAL Metals

Lot-Sample #...: A1D080539-002

Matrix.....: WG

Date Sampled...: 04/07/11 07:58 Date Received...: 04/08/11

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #...: 1101018						
Arsenic	ND	10.0	ug/L	SW846 6010B	04/11-04/13/11	MGQ521AK
		Dilution Factor: 1				
Barium	ND	200	ug/L	SW846 6010B	04/11-04/13/11	MGQ521AC
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	SW846 6010B	04/11-04/13/11	MGQ521AD
		Dilution Factor: 1				
Chromium	16.7	10.0	ug/L	SW846 6010B	04/11-04/13/11	MGQ521AE
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	SW846 6010B	04/11-04/13/11	MGQ521AF
		Dilution Factor: 1				
Iron	8670	100	ug/L	SW846 6010B	04/11-04/13/11	MGQ521AG
		Dilution Factor: 1				
Manganese	121	15.0	ug/L	SW846 6010B	04/11-04/13/11	MGQ521AH
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	SW846 6010B	04/11-04/13/11	MGQ521AL
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	SW846 6010B	04/11-04/13/11	MGQ521AM
		Dilution Factor: 1				
Zinc	36.2	20.0	ug/L	SW846 6010B	04/11-04/13/11	MGQ521AJ
		Dilution Factor: 1				

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040711-NH-016

General Chemistry

Lot-Sample #...: A1D080539-002 Work Order #...: MGQ52 Matrix.....: WG
 Date Sampled...: 04/07/11 07:58 Date Received...: 04/08/11

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	115	1.0	mg/L	SW846 9056A	04/08/11	1101300
		Dilution Factor: 1				
Fluoride	1.1	1.0	mg/L	SW846 9056A	04/08/11	1101296
		Dilution Factor: 1				
Nitrate as N	2.4	0.10	mg/L	SW846 9056A	04/08/11	1101305
		Dilution Factor: 1				
Sulfate	353	5.0	mg/L	SW846 9056A	04/08/11	1101309
		Dilution Factor: 5				
Total Dissolved Solids	1580	20.0	mg/L	SM18 2540 C	04/11-04/12/11	1101317
		Dilution Factor: 2				

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040711-NH-017

GC/MS Volatiles

Lot-Sample #...: A1D080539-003 Work Order #...: MGQ531AA Matrix.....: WG
 Date Sampled...: 04/07/11 08:24 Date Received..: 04/08/11
 Prep Date.....: 04/15/11 Analysis Date..: 04/15/11
 Prep Batch #...: 1108114
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	2.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	92	(75 - 121)
1,2-Dichloroethane-d4	87	(63 - 129)
Toluene-d8	81	(74 - 115)
4-Bromofluorobenzene	92	(66 - 117)

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040711-NH-017

GC/MS Volatiles

Lot-Sample #...: A1D080539-003 Work Order #...: MGQ531AU Matrix.....: WG
 Date Sampled...: 04/07/11 08:24 Date Received..: 04/08/11
 Prep Date.....: 04/15/11 Analysis Date..: 04/15/11
 Prep Batch #...: 1108114
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Bromodichloromethane	1.4	1.0	ug/L
Bromoform	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroform	8.4	1.0	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	92	(75 - 121)
1,2-Dichloroethane-d4	87	(63 - 129)
Toluene-d8	81	(74 - 115)
4-Bromofluorobenzene	92	(66 - 117)

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040711-NH-017

TOTAL Metals

Lot-Sample #...: A1D080539-003

Matrix.....: WG

Date Sampled...: 04/07/11 08:24 Date Received...: 04/08/11

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS			ANALYSIS DATE	ORDER #
Prep Batch #...:	1101018						
Arsenic	26.1	10.0	ug/L	SW846 6010B	04/11-04/13/11	MGQ531AK	
		Dilution Factor: 1					
Barium	1760	200	ug/L	SW846 6010B	04/11-04/13/11	MGQ531AC	
		Dilution Factor: 1					
Cadmium	ND	5.0	ug/L	SW846 6010B	04/11-04/13/11	MGQ531AD	
		Dilution Factor: 1					
Chromium	1800	10.0	ug/L	SW846 6010B	04/11-04/13/11	MGQ531AE	
		Dilution Factor: 1					
Copper	138	25.0	ug/L	SW846 6010B	04/11-04/13/11	MGQ531AF	
		Dilution Factor: 1					
Iron	187000	100	ug/L	SW846 6010B	04/11-04/13/11	MGQ531AG	
		Dilution Factor: 1					
Manganese	2780	15.0	ug/L	SW846 6010B	04/11-04/13/11	MGQ531AH	
		Dilution Factor: 1					
Lead	70.7	3.0	ug/L	SW846 6010B	04/11-04/13/11	MGQ531AL	
		Dilution Factor: 1					
Selenium	9.2	5.0	ug/L	SW846 6010B	04/11-04/13/11	MGQ531AM	
		Dilution Factor: 1					
Zinc	512	20.0	ug/L	SW846 6010B	04/11-04/13/11	MGQ531AJ	
		Dilution Factor: 1					

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040711-NH-017

General Chemistry

Lot-Sample #...: A1D080539-003 Work Order #...: MGQ53 Matrix.....: WG
 Date Sampled...: 04/07/11 08:24 Date Received...: 04/08/11

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	126	10.0	mg/L	SW846 9056A	04/08/11	1101300
		Dilution Factor: 10				
Fluoride	ND G	10.0	mg/L	SW846 9056A	04/08/11	1101296
		Dilution Factor: 10				
Nitrate as N	3.9	1.0	mg/L	SW846 9056A	04/08/11	1101305
		Dilution Factor: 10				
Sulfate	65.6	10.0	mg/L	SW846 9056A	04/08/11	1101309
		Dilution Factor: 10				
Total Dissolved Solids	3050	500	mg/L	SM18 2540 C	04/11-04/12/11	1101317
		Dilution Factor: 50				

NOTE(S):

RL Reporting Limit

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040711-NH-018

GC/MS Volatiles

Lot-Sample #...: A1D080539-004 Work Order #...: MGQ541AA Matrix.....: WG
 Date Sampled...: 04/07/11 09:45 Date Received..: 04/08/11
 Prep Date.....: 04/15/11 Analysis Date..: 04/15/11
 Prep Batch #...: 1108114
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	2.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	95	(75 - 121)
1,2-Dichloroethane-d4	91	(63 - 129)
Toluene-d8	84	(74 - 115)
4-Bromofluorobenzene	93	(66 - 117)

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040711-NH-018

GC/MS Volatiles

Lot-Sample #...: A1D080539-004 Work Order #...: MGQ541AU Matrix.....: WG
 Date Sampled...: 04/07/11 09:45 Date Received..: 04/08/11
 Prep Date.....: 04/15/11 Analysis Date..: 04/15/11
 Prep Batch #...: 1108114
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	95	(75 - 121)
1,2-Dichloroethane-d4	91	(63 - 129)
Toluene-d8	84	(74 - 115)
4-Bromofluorobenzene	93	(66 - 117)

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040711-NH-018

TOTAL Metals

Lot-Sample #...: A1D080539-004

Matrix.....: WG

Date Sampled...: 04/07/11 09:45 Date Received...: 04/08/11

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #...: 1101018						
Arsenic	ND	10.0	ug/L	SW846 6010B	04/11-04/13/11	MGQ541AK
		Dilution Factor: 1				
Barium	ND	200	ug/L	SW846 6010B	04/11-04/13/11	MGQ541AC
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	SW846 6010B	04/11-04/13/11	MGQ541AD
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	04/11-04/13/11	MGQ541AE
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	SW846 6010B	04/11-04/13/11	MGQ541AF
		Dilution Factor: 1				
Iron	12200	100	ug/L	SW846 6010B	04/11-04/13/11	MGQ541AG
		Dilution Factor: 1				
Manganese	879	15.0	ug/L	SW846 6010B	04/11-04/13/11	MGQ541AH
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	SW846 6010B	04/11-04/13/11	MGQ541AL
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	SW846 6010B	04/11-04/13/11	MGQ541AM
		Dilution Factor: 1				
Zinc	35.9	20.0	ug/L	SW846 6010B	04/11-04/13/11	MGQ541AJ
		Dilution Factor: 1				

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040711-NH-018

General Chemistry

Lot-Sample #...: A1D080539-004 Work Order #...: MGQ54 Matrix.....: WG
 Date Sampled...: 04/07/11 09:45 Date Received...: 04/08/11

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	5.9	1.0	mg/L	SW846 9056A	04/09/11	1101300
			Dilution Factor: 1			
Fluoride	ND	1.0	mg/L	SW846 9056A	04/09/11	1101296
			Dilution Factor: 1			
Nitrate as N	ND	0.10	mg/L	SW846 9056A	04/09/11	1101305
			Dilution Factor: 1			
Sulfate	ND	1.0	mg/L	SW846 9056A	04/09/11	1101309
			Dilution Factor: 1			
Total Dissolved Solids	319	10.0	mg/L	SM18 2540 C	04/11-04/12/11	1101317
			Dilution Factor: 1			

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040711-NH-019

GC/MS Volatiles

Lot-Sample #...: A1D080539-005 Work Order #...: MGQ551AA Matrix.....: WG
 Date Sampled...: 04/07/11 09:50 Date Received..: 04/08/11
 Prep Date.....: 04/18/11 Analysis Date..: 04/18/11
 Prep Batch #...: 1108237
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	2.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	99	(75 - 121)
1,2-Dichloroethane-d4	90	(63 - 129)
Toluene-d8	81	(74 - 115)
4-Bromofluorobenzene	94	(66 - 117)

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040711-NH-019

GC/MS Volatiles

Lot-Sample #...: A1D080539-005 Work Order #...: MGQ551AU Matrix.....: WG
 Date Sampled...: 04/07/11 09:50 Date Received..: 04/08/11
 Prep Date.....: 04/18/11 Analysis Date..: 04/18/11
 Prep Batch #...: 1108237
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	99	(75 - 121)
1,2-Dichloroethane-d4	90	(63 - 129)
Toluene-d8	81	(74 - 115)
4-Bromofluorobenzene	94	(66 - 117)

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040711-NH-019

TOTAL Metals

Lot-Sample #...: A1D080539-005

Matrix.....: WG

Date Sampled...: 04/07/11 09:50 Date Received...: 04/08/11

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #...: 1101018						
Arsenic	ND	10.0	ug/L	SW846 6010B	04/11-04/13/11	MGQ551AK
		Dilution Factor: 1				
Barium	ND	200	ug/L	SW846 6010B	04/11-04/13/11	MGQ551AC
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	SW846 6010B	04/11-04/13/11	MGQ551AD
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	04/11-04/13/11	MGQ551AE
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	SW846 6010B	04/11-04/13/11	MGQ551AF
		Dilution Factor: 1				
Iron	11000	100	ug/L	SW846 6010B	04/11-04/13/11	MGQ551AG
		Dilution Factor: 1				
Manganese	808	15.0	ug/L	SW846 6010B	04/11-04/13/11	MGQ551AH
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	SW846 6010B	04/11-04/13/11	MGQ551AL
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	SW846 6010B	04/11-04/13/11	MGQ551AM
		Dilution Factor: 1				
Zinc	24.2	20.0	ug/L	SW846 6010B	04/11-04/13/11	MGQ551AJ
		Dilution Factor: 1				

Conestoga Rovers & Associates, Inc.

Client Sample ID: GW-070102-040711-NH-019

General Chemistry

Lot-Sample #...: A1D080539-005 Work Order #...: MGQ55 Matrix.....: WG
 Date Sampled...: 04/07/11 09:50 Date Received...: 04/08/11

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	6.9	1.0	mg/L	SW846 9056A	04/09/11	1101300
			Dilution Factor: 1			
Fluoride	ND	1.0	mg/L	SW846 9056A	04/09/11	1101296
			Dilution Factor: 1			
Nitrate as N	ND	0.10	mg/L	SW846 9056A	04/09/11	1101305
			Dilution Factor: 1			
Sulfate	ND	1.0	mg/L	SW846 9056A	04/09/11	1101309
			Dilution Factor: 1			
Total Dissolved Solids	328	10.0	mg/L	SM18 2540 C	04/12-04/13/11	1102236
			Dilution Factor: 1			

Conestoga Rovers & Associates, Inc.

Client Sample ID: TB-070102-040711-NH-002

GC/MS Volatiles

Lot-Sample #...: A1D080539-006 Work Order #...: MGQ561AA Matrix.....: WQ
 Date Sampled...: 04/07/11 09:04 Date Received..: 04/08/11
 Prep Date.....: 04/19/11 Analysis Date..: 04/19/11
 Prep Batch #...: 1110095
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	2.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	84	(75 - 121)
1,2-Dichloroethane-d4	82	(63 - 129)
Toluene-d8	85	(74 - 115)
4-Bromofluorobenzene	88	(66 - 117)

Conestoga Rovers & Associates, Inc.

Client Sample ID: TB-070102-040711-NH-002

GC/MS Volatiles

Lot-Sample #...: A1D080539-006 Work Order #...: MGQ561AC Matrix.....: WQ
 Date Sampled...: 04/07/11 09:04 Date Received..: 04/08/11
 Prep Date.....: 04/19/11 Analysis Date..: 04/19/11
 Prep Batch #...: 1110095
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	84	(75 - 121)
1,2-Dichloroethane-d4	82	(63 - 129)
Toluene-d8	85	(74 - 115)
4-Bromofluorobenzene	88	(66 - 117)



QUALITY CONTROL SECTION

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MG22T1AA Matrix.....: WATER
 MB Lot-Sample #: A1D150000-073
 Prep Date.....: 04/14/11
 Analysis Date..: 04/14/11 Prep Batch #...: 1105073
 Dilution Factor: 1

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	2.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	89	(75 - 121)
1,2-Dichloroethane-d4	87	(63 - 129)
Toluene-d8	87	(74 - 115)
4-Bromofluorobenzene	88	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MG5EX1AA Matrix.....: WATER
 MB Lot-Sample #: A1D180000-114
 Prep Date.....: 04/15/11
 Analysis Date..: 04/15/11 Prep Batch #...: 1108114
 Dilution Factor: 1

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	2.0	ug/L	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	91	(75 - 121)
1,2-Dichloroethane-d4	87	(63 - 129)
Toluene-d8	84	(74 - 115)
4-Bromofluorobenzene	95	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MG51X1AA Matrix.....: WATER
 MB Lot-Sample #: A1D180000-237
 Prep Date.....: 04/18/11
 Analysis Date..: 04/18/11 Prep Batch #...: 1108237
 Dilution Factor: 1

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Chloroform	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	2.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	92	(75 - 121)
1,2-Dichloroethane-d4	87	(63 - 129)
Toluene-d8	80	(74 - 115)
4-Bromofluorobenzene	93	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MG8XL1AA Matrix.....: WATER
 MB Lot-Sample #: A1D200000-095
 Prep Date.....: 04/19/11
 Analysis Date..: 04/19/11 Prep Batch #...: 1110095
 Dilution Factor: 1

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	2.0	ug/L	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	86	(75 - 121)
1,2-Dichloroethane-d4	84	(63 - 129)
Toluene-d8	88	(74 - 115)
4-Bromofluorobenzene	89	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: 1D06583

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS			
MB Lot-Sample #: A1D080000-011 Prep Batch #...: 1098011						
Arsenic	ND	10.0	ug/L	SW846 6010B	04/08-04/11/11	MGPWA1AJ
		Dilution Factor: 1				
Barium	ND	200	ug/L	SW846 6010B	04/08-04/11/11	MGPWA1AA
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	SW846 6010B	04/08-04/11/11	MGPWA1AC
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	04/08-04/11/11	MGPWA1AD
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	SW846 6010B	04/08-04/11/11	MGPWA1AE
		Dilution Factor: 1				
Iron	ND	100	ug/L	SW846 6010B	04/08-04/11/11	MGPWA1AF
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	SW846 6010B	04/08-04/11/11	MGPWA1AK
		Dilution Factor: 1				
Manganese	ND	15.0	ug/L	SW846 6010B	04/08-04/11/11	MGPWA1AG
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	SW846 6010B	04/08-04/11/11	MGPWA1AL
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010B	04/08-04/11/11	MGPWA1AH
		Dilution Factor: 1				

MB Lot-Sample #: A1D110000-018 Prep Batch #...: 1101018						
Arsenic	ND	10.0	ug/L	SW846 6010B	04/11-04/13/11	MGTR31CK
		Dilution Factor: 1				
Barium	ND	200	ug/L	SW846 6010B	04/11-04/13/11	MGTR31CC
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	SW846 6010B	04/11-04/13/11	MGTR31CD
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	04/11-04/13/11	MGTR31CE
		Dilution Factor: 1				

(Continued on next page)

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: 1D06583

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Copper	ND	25.0	ug/L	SW846 6010B	04/11-04/13/11	MGTR31CF
		Dilution Factor: 1				
Iron	ND	100	ug/L	SW846 6010B	04/11-04/13/11	MGTR31CG
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	SW846 6010B	04/11-04/13/11	MGTR31CL
		Dilution Factor: 1				
Manganese	ND	15.0	ug/L	SW846 6010B	04/11-04/13/11	MGTR31CH
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	SW846 6010B	04/11-04/13/11	MGTR31CM
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010B	04/11-04/13/11	MGTR31CJ
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: 1D06583

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	PREP
		LIMIT	UNITS		ANALYSIS DATE	BATCH #
Chloride	ND	Work Order #: MGQL21AA 1.0	mg/L	MB Lot-Sample #: A1D080000-191 SW846 9056A	04/07/11	1098191
		Dilution Factor: 1				
Chloride	ND	Work Order #: MGT051AA 1.0	mg/L	MB Lot-Sample #: A1D110000-105 SW846 9056A	04/08/11	1101105
		Dilution Factor: 1				
Chloride	ND	Work Order #: MGVN61AA 1.0	mg/L	MB Lot-Sample #: A1D110000-300 SW846 9056A	04/08/11	1101300
		Dilution Factor: 1				
Chloride	ND	Work Order #: MG2FL1AA 1.0	mg/L	MB Lot-Sample #: A1D140000-304 SW846 9056A	04/13/11	1104304
		Dilution Factor: 1				
Fluoride	ND	Work Order #: MGQLJ1AA 1.0	mg/L	MB Lot-Sample #: A1D080000-186 SW846 9056A	04/07/11	1098186
		Dilution Factor: 1				
Fluoride	ND	Work Order #: MGT021AA 1.0	mg/L	MB Lot-Sample #: A1D110000-102 SW846 9056A	04/08/11	1101102
		Dilution Factor: 1				
Fluoride	ND	Work Order #: MGVNC1AA 1.0	mg/L	MB Lot-Sample #: A1D110000-296 SW846 9056A	04/08/11	1101296
		Dilution Factor: 1				
Nitrate as N	ND	Work Order #: MGQL71AA 0.10	mg/L	MB Lot-Sample #: A1D080000-196 SW846 9056A	04/07/11	1098196
		Dilution Factor: 1				
Nitrate as N	ND	Work Order #: MGT1M1AA 0.10	mg/L	MB Lot-Sample #: A1D110000-113 SW846 9056A	04/08/11	1101113
		Dilution Factor: 1				
Nitrate as N	ND	Work Order #: MGVPC1AA 0.10	mg/L	MB Lot-Sample #: A1D110000-305 SW846 9056A	04/08/11	1101305
		Dilution Factor: 1				
Sulfate	ND	Work Order #: MGQMC1AA 1.0	mg/L	MB Lot-Sample #: A1D080000-198 SW846 9056A	04/07/11	1098198
		Dilution Factor: 1				

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METHOD BLANK REPORT

General Chemistry

Client Lot #...: 1D06583

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Sulfate	ND	Work Order #: MGT101AA 1.0	mg/L	MB Lot-Sample #: SW846 9056A	A1D110000-118 04/08/11	1101118
		Dilution Factor: 1				
Sulfate	ND	Work Order #: MGVPE1AA 1.0	mg/L	MB Lot-Sample #: SW846 9056A	A1D110000-309 04/08/11	1101309
		Dilution Factor: 1				
Total Dissolved Solids	ND	Work Order #: MGVQM1AA 10.0	mg/L	MB Lot-Sample #: SM18 2540 C	A1D110000-317 04/11-04/12/11	1101317
		Dilution Factor: 1				
Total Dissolved Solids	ND	Work Order #: MGWKP1AA 10.0	mg/L	MB Lot-Sample #: SM18 2540 C	A1D120000-236 04/12-04/13/11	1102236
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MG22T1AC Matrix.....: WATER
 LCS Lot-Sample#: A1D150000-073
 Prep Date.....: 04/14/11 Analysis Date...: 04/14/11
 Prep Batch #...: 1105073
 Dilution Factor: 1

<u>PARAMETER</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>	<u>METHOD</u>
Chloroform	101	(79 - 117)	SW846 8260B
Bromodichloromethane	100	(72 - 121)	SW846 8260B
Dibromochloromethane	97	(64 - 119)	SW846 8260B
Methylene chloride	93	(66 - 131)	SW846 8260B
Carbon disulfide	108	(62 - 142)	SW846 8260B
1,1-Dichloroethane	101	(82 - 115)	SW846 8260B
2-Butanone	88	(60 - 126)	SW846 8260B
cis-1,3-Dichloropropene	92	(61 - 115)	SW846 8260B
1,1,2-Trichloroethane	102	(80 - 112)	SW846 8260B
trans-1,3-Dichloropropene	99	(58 - 117)	SW846 8260B
4-Methyl-2-pentanone	103	(63 - 128)	SW846 8260B
2-Hexanone	101	(55 - 133)	SW846 8260B
1,1,2,2-Tetrachloroethane	97	(68 - 118)	SW846 8260B
Methyl tert-butyl ether (MTBE)	97	(52 - 144)	SW846 8260B
1,2-Dibromoethane	99	(79 - 113)	SW846 8260B
Isopropylbenzene	107	(75 - 114)	SW846 8260B
1,3-Dichlorobenzene	98	(80 - 110)	SW846 8260B
1,4-Dichlorobenzene	97	(82 - 110)	SW846 8260B
1,2-Dichlorobenzene	104	(81 - 110)	SW846 8260B
1,2-Dibromo-3-chloro- propane	105	(42 - 136)	SW846 8260B
Methyl tert-butyl ether	97	(52 - 144)	SW846 8260B
o-Xylene	107	(83 - 113)	SW846 8260B
m-Xylene & p-Xylene	104	(83 - 113)	SW846 8260B
Bromobenzene	94	(76 - 115)	SW846 8260B
Bromochloromethane	99	(77 - 120)	SW846 8260B
n-Butylbenzene	111	(66 - 125)	SW846 8260B
sec-Butylbenzene	105	(70 - 117)	SW846 8260B
tert-Butylbenzene	104	(71 - 115)	SW846 8260B
2-Chlorotoluene	98	(76 - 116)	SW846 8260B
4-Chlorotoluene	98	(77 - 115)	SW846 8260B
Dibromomethane	106	(81 - 120)	SW846 8260B
1,3-Dichloropropane	100	(79 - 116)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MG22T1AC Matrix.....: WATER
 LCS Lot-Sample#: A1D150000-073

<u>PARAMETER</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>	<u>METHOD</u>
1,1-Dichloropropene	100	(83 - 114)	SW846 8260B
p-Isopropyltoluene	110	(74 - 120)	SW846 8260B
n-Propylbenzene	102	(74 - 121)	SW846 8260B
1,1,1,2-Tetrachloroethane	104	(72 - 116)	SW846 8260B
1,2,3-Trichloropropane	95	(73 - 129)	SW846 8260B
1,2,4-Trimethylbenzene	108	(76 - 120)	SW846 8260B
1,3,5-Trimethylbenzene	105	(72 - 118)	SW846 8260B
Vinyl chloride	92	(53 - 127)	SW846 8260B
1,1-Dichloroethene	103	(78 - 131)	SW846 8260B
1,2-Dichloroethane	103	(71 - 127)	SW846 8260B
1,1,1-Trichloroethane	98	(74 - 118)	SW846 8260B
Carbon tetrachloride	102	(66 - 128)	SW846 8260B
1,2-Dichloropropane	100	(81 - 115)	SW846 8260B
Trichloroethene	97	(76 - 117)	SW846 8260B
Benzene	100	(83 - 112)	SW846 8260B
Tetrachloroethene	99	(79 - 114)	SW846 8260B
Toluene	100	(84 - 111)	SW846 8260B
Chlorobenzene	99	(85 - 110)	SW846 8260B
Ethylbenzene	101	(83 - 112)	SW846 8260B
Styrene	107	(79 - 114)	SW846 8260B
Xylenes (total)	105	(83 - 112)	SW846 8260B
cis-1,2-Dichloroethene	97	(80 - 113)	SW846 8260B
trans-1,2-Dichloroethene	100	(83 - 117)	SW846 8260B

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
Dibromofluoromethane	89	(75 - 121)
1,2-Dichloroethane-d4	92	(63 - 129)
Toluene-d8	90	(74 - 115)
4-Bromofluorobenzene	97	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MG22T1AC Matrix.....: WATER
 LCS Lot-Sample#: A1D150000-073
 Prep Date.....: 04/14/11 Analysis Date...: 04/14/11
 Prep Batch #...: 1105073
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>METHOD</u>
Chloroform	10	10	ug/L	101	SW846 8260B
Bromodichloromethane	10	10	ug/L	100	SW846 8260B
Dibromochloromethane	10	9.7	ug/L	97	SW846 8260B
Methylene chloride	10	9.3	ug/L	93	SW846 8260B
Carbon disulfide	10	11	ug/L	108	SW846 8260B
1,1-Dichloroethane	10	10	ug/L	101	SW846 8260B
2-Butanone	20	18	ug/L	88	SW846 8260B
cis-1,3-Dichloropropene	10	9.2	ug/L	92	SW846 8260B
1,1,2-Trichloroethane	10	10	ug/L	102	SW846 8260B
trans-1,3-Dichloropropene	10	9.9	ug/L	99	SW846 8260B
4-Methyl-2-pentanone	20	21	ug/L	103	SW846 8260B
2-Hexanone	20	20	ug/L	101	SW846 8260B
1,1,2,2-Tetrachloroethane	10	9.7	ug/L	97	SW846 8260B
Methyl tert-butyl ether (MTBE)	10	9.7	ug/L	97	SW846 8260B
1,2-Dibromoethane	10	9.9	ug/L	99	SW846 8260B
Isopropylbenzene	10	11	ug/L	107	SW846 8260B
1,3-Dichlorobenzene	10	9.8	ug/L	98	SW846 8260B
1,4-Dichlorobenzene	10	9.7	ug/L	97	SW846 8260B
1,2-Dichlorobenzene	10	10	ug/L	104	SW846 8260B
1,2-Dibromo-3-chloro- propane	10	10	ug/L	105	SW846 8260B
Methyl tert-butyl ether	10	9.7	ug/L	97	SW846 8260B
o-Xylene	10	11	ug/L	107	SW846 8260B
m-Xylene & p-Xylene	20	21	ug/L	104	SW846 8260B
Bromobenzene	10	9.4	ug/L	94	SW846 8260B
Bromochloromethane	10	9.9	ug/L	99	SW846 8260B
n-Butylbenzene	10	11	ug/L	111	SW846 8260B
sec-Butylbenzene	10	10	ug/L	105	SW846 8260B
tert-Butylbenzene	10	10	ug/L	104	SW846 8260B
2-Chlorotoluene	10	9.8	ug/L	98	SW846 8260B
4-Chlorotoluene	10	9.8	ug/L	98	SW846 8260B
Dibromomethane	10	11	ug/L	106	SW846 8260B
1,3-Dichloropropane	10	10	ug/L	100	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MG22T1AC Matrix.....: WATER
 LCS Lot-Sample#: A1D150000-073

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>METHOD</u>
1,1-Dichloropropene	10	10	ug/L	100	SW846 8260B
p-Isopropyltoluene	10	11	ug/L	110	SW846 8260B
n-Propylbenzene	10	10	ug/L	102	SW846 8260B
1,1,1,2-Tetrachloroethane	10	10	ug/L	104	SW846 8260B
1,2,3-Trichloropropane	10	9.5	ug/L	95	SW846 8260B
1,2,4-Trimethylbenzene	10	11	ug/L	108	SW846 8260B
1,3,5-Trimethylbenzene	10	11	ug/L	105	SW846 8260B
Vinyl chloride	10	9.2	ug/L	92	SW846 8260B
1,1-Dichloroethene	10	10	ug/L	103	SW846 8260B
1,2-Dichloroethane	10	10	ug/L	103	SW846 8260B
1,1,1-Trichloroethane	10	9.8	ug/L	98	SW846 8260B
Carbon tetrachloride	10	10	ug/L	102	SW846 8260B
1,2-Dichloropropane	10	10	ug/L	100	SW846 8260B
Trichloroethene	10	9.7	ug/L	97	SW846 8260B
Benzene	10	10	ug/L	100	SW846 8260B
Tetrachloroethene	10	9.9	ug/L	99	SW846 8260B
Toluene	10	10	ug/L	100	SW846 8260B
Chlorobenzene	10	9.9	ug/L	99	SW846 8260B
Ethylbenzene	10	10	ug/L	101	SW846 8260B
Styrene	10	11	ug/L	107	SW846 8260B
Xylenes (total)	30	31	ug/L	105	SW846 8260B
cis-1,2-Dichloroethene	10	9.7	ug/L	97	SW846 8260B
trans-1,2-Dichloroethene	10	10	ug/L	100	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	89	(75 - 121)
1,2-Dichloroethane-d4	92	(63 - 129)
Toluene-d8	90	(74 - 115)
4-Bromofluorobenzene	97	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MG5EX1AC Matrix.....: WATER
 LCS Lot-Sample#: A1D180000-114
 Prep Date.....: 04/15/11 Analysis Date...: 04/15/11
 Prep Batch #...: 1108114
 Dilution Factor: 1

<u>PARAMETER</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>	<u>METHOD</u>
Chloroform	96	(79 - 117)	SW846 8260B
Bromodichloromethane	91	(72 - 121)	SW846 8260B
Dibromochloromethane	85	(64 - 119)	SW846 8260B
Methylene chloride	93	(66 - 131)	SW846 8260B
Carbon disulfide	111	(62 - 142)	SW846 8260B
1,1-Dichloroethane	96	(82 - 115)	SW846 8260B
2-Butanone	88	(60 - 126)	SW846 8260B
cis-1,3-Dichloropropene	82	(61 - 115)	SW846 8260B
1,1,2-Trichloroethane	87	(80 - 112)	SW846 8260B
trans-1,3-Dichloropropene	86	(58 - 117)	SW846 8260B
4-Methyl-2-pentanone	84	(63 - 128)	SW846 8260B
2-Hexanone	78	(55 - 133)	SW846 8260B
1,1,2,2-Tetrachloroethane	75	(68 - 118)	SW846 8260B
Methyl tert-butyl ether (MTBE)	90	(52 - 144)	SW846 8260B
1,2-Dibromoethane	86	(79 - 113)	SW846 8260B
Isopropylbenzene	109	(75 - 114)	SW846 8260B
1,3-Dichlorobenzene	91	(80 - 110)	SW846 8260B
1,4-Dichlorobenzene	90	(82 - 110)	SW846 8260B
1,2-Dichlorobenzene	99	(81 - 110)	SW846 8260B
1,2-Dibromo-3-chloro- propane	87	(42 - 136)	SW846 8260B
Methyl tert-butyl ether	90	(52 - 144)	SW846 8260B
o-Xylene	103	(83 - 113)	SW846 8260B
m-Xylene & p-Xylene	99	(83 - 113)	SW846 8260B
Bromobenzene	80	(76 - 115)	SW846 8260B
Bromochloromethane	91	(77 - 120)	SW846 8260B
n-Butylbenzene	118	(66 - 125)	SW846 8260B
sec-Butylbenzene	106	(70 - 117)	SW846 8260B
tert-Butylbenzene	89	(71 - 115)	SW846 8260B
2-Chlorotoluene	88	(76 - 116)	SW846 8260B
4-Chlorotoluene	86	(77 - 115)	SW846 8260B
Dibromomethane	95	(81 - 120)	SW846 8260B
1,3-Dichloropropane	86	(79 - 116)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MG5EX1AC Matrix.....: WATER
 LCS Lot-Sample#: A1D180000-114

<u>PARAMETER</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>	<u>METHOD</u>
1,1-Dichloropropene	99	(83 - 114)	SW846 8260B
p-Isopropyltoluene	113	(74 - 120)	SW846 8260B
n-Propylbenzene	93	(74 - 121)	SW846 8260B
1,1,1,2-Tetrachloroethane	98	(72 - 116)	SW846 8260B
1,2,3-Trichloropropane	74	(73 - 129)	SW846 8260B
1,2,4-Trimethylbenzene	102	(76 - 120)	SW846 8260B
1,3,5-Trimethylbenzene	98	(72 - 118)	SW846 8260B
Vinyl chloride	89	(53 - 127)	SW846 8260B
1,1-Dichloroethene	102	(78 - 131)	SW846 8260B
1,2-Dichloroethane	92	(71 - 127)	SW846 8260B
1,1,1-Trichloroethane	104	(74 - 118)	SW846 8260B
Carbon tetrachloride	105	(66 - 128)	SW846 8260B
1,2-Dichloropropane	93	(81 - 115)	SW846 8260B
Trichloroethene	94	(76 - 117)	SW846 8260B
Benzene	95	(83 - 112)	SW846 8260B
Tetrachloroethene	95	(79 - 114)	SW846 8260B
Toluene	91	(84 - 111)	SW846 8260B
Chlorobenzene	92	(85 - 110)	SW846 8260B
Ethylbenzene	97	(83 - 112)	SW846 8260B
Styrene	101	(79 - 114)	SW846 8260B
Xylenes (total)	100	(83 - 112)	SW846 8260B
cis-1,2-Dichloroethene	93	(80 - 113)	SW846 8260B
trans-1,2-Dichloroethene	96	(83 - 117)	SW846 8260B

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
Dibromofluoromethane	88	(75 - 121)
1,2-Dichloroethane-d4	87	(63 - 129)
Toluene-d8	87	(74 - 115)
4-Bromofluorobenzene	101	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MG5EX1AC Matrix.....: WATER
 LCS Lot-Sample#: A1D180000-114
 Prep Date.....: 04/15/11 Analysis Date...: 04/15/11
 Prep Batch #...: 1108114
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>METHOD</u>
Chloroform	10	9.6	ug/L	96	SW846 8260B
Bromodichloromethane	10	9.1	ug/L	91	SW846 8260B
Dibromochloromethane	10	8.5	ug/L	85	SW846 8260B
Methylene chloride	10	9.3	ug/L	93	SW846 8260B
Carbon disulfide	10	11	ug/L	111	SW846 8260B
1,1-Dichloroethane	10	9.6	ug/L	96	SW846 8260B
2-Butanone	20	18	ug/L	88	SW846 8260B
cis-1,3-Dichloropropene	10	8.2	ug/L	82	SW846 8260B
1,1,2-Trichloroethane	10	8.7	ug/L	87	SW846 8260B
trans-1,3-Dichloropropene	10	8.6	ug/L	86	SW846 8260B
4-Methyl-2-pentanone	20	17	ug/L	84	SW846 8260B
2-Hexanone	20	16	ug/L	78	SW846 8260B
1,1,2,2-Tetrachloroethane	10	7.5	ug/L	75	SW846 8260B
Methyl tert-butyl ether (MTBE)	10	9.0	ug/L	90	SW846 8260B
1,2-Dibromoethane	10	8.6	ug/L	86	SW846 8260B
Isopropylbenzene	10	11	ug/L	109	SW846 8260B
1,3-Dichlorobenzene	10	9.1	ug/L	91	SW846 8260B
1,4-Dichlorobenzene	10	9.0	ug/L	90	SW846 8260B
1,2-Dichlorobenzene	10	9.9	ug/L	99	SW846 8260B
1,2-Dibromo-3-chloro- propane	10	8.7	ug/L	87	SW846 8260B
Methyl tert-butyl ether	10	9.0	ug/L	90	SW846 8260B
o-Xylene	10	10	ug/L	103	SW846 8260B
m-Xylene & p-Xylene	20	20	ug/L	99	SW846 8260B
Bromobenzene	10	8.0	ug/L	80	SW846 8260B
Bromochloromethane	10	9.1	ug/L	91	SW846 8260B
n-Butylbenzene	10	12	ug/L	118	SW846 8260B
sec-Butylbenzene	10	11	ug/L	106	SW846 8260B
tert-Butylbenzene	10	8.9	ug/L	89	SW846 8260B
2-Chlorotoluene	10	8.8	ug/L	88	SW846 8260B
4-Chlorotoluene	10	8.6	ug/L	86	SW846 8260B
Dibromomethane	10	9.5	ug/L	95	SW846 8260B
1,3-Dichloropropane	10	8.6	ug/L	86	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MG5EX1AC Matrix.....: WATER
 LCS Lot-Sample#: A1D180000-114

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>METHOD</u>
1,1-Dichloropropene	10	9.9	ug/L	99	SW846 8260B
p-Isopropyltoluene	10	11	ug/L	113	SW846 8260B
n-Propylbenzene	10	9.3	ug/L	93	SW846 8260B
1,1,1,2-Tetrachloroethane	10	9.8	ug/L	98	SW846 8260B
1,2,3-Trichloropropane	10	7.4	ug/L	74	SW846 8260B
1,2,4-Trimethylbenzene	10	10	ug/L	102	SW846 8260B
1,3,5-Trimethylbenzene	10	9.8	ug/L	98	SW846 8260B
Vinyl chloride	10	8.9	ug/L	89	SW846 8260B
1,1-Dichloroethene	10	10	ug/L	102	SW846 8260B
1,2-Dichloroethane	10	9.2	ug/L	92	SW846 8260B
1,1,1-Trichloroethane	10	10	ug/L	104	SW846 8260B
Carbon tetrachloride	10	11	ug/L	105	SW846 8260B
1,2-Dichloropropane	10	9.3	ug/L	93	SW846 8260B
Trichloroethene	10	9.4	ug/L	94	SW846 8260B
Benzene	10	9.5	ug/L	95	SW846 8260B
Tetrachloroethene	10	9.5	ug/L	95	SW846 8260B
Toluene	10	9.1	ug/L	91	SW846 8260B
Chlorobenzene	10	9.2	ug/L	92	SW846 8260B
Ethylbenzene	10	9.7	ug/L	97	SW846 8260B
Styrene	10	10	ug/L	101	SW846 8260B
Xylenes (total)	30	30	ug/L	100	SW846 8260B
cis-1,2-Dichloroethene	10	9.3	ug/L	93	SW846 8260B
trans-1,2-Dichloroethene	10	9.6	ug/L	96	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Dibromofluoromethane	88	(75 - 121)
1,2-Dichloroethane-d4	87	(63 - 129)
Toluene-d8	87	(74 - 115)
4-Bromofluorobenzene	101	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MG51X1AC Matrix.....: WATER
 LCS Lot-Sample#: A1D180000-237
 Prep Date.....: 04/18/11 Analysis Date...: 04/18/11
 Prep Batch #...: 1108237
 Dilution Factor: 1

<u>PARAMETER</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>	<u>METHOD</u>
Chloroform	106	(79 - 117)	SW846 8260B
Bromodichloromethane	99	(72 - 121)	SW846 8260B
Dibromochloromethane	93	(64 - 119)	SW846 8260B
Methylene chloride	101	(66 - 131)	SW846 8260B
Carbon disulfide	125	(62 - 142)	SW846 8260B
1,1-Dichloroethane	107	(82 - 115)	SW846 8260B
2-Butanone	91	(60 - 126)	SW846 8260B
cis-1,3-Dichloropropene	91	(61 - 115)	SW846 8260B
1,1,2-Trichloroethane	92	(80 - 112)	SW846 8260B
trans-1,3-Dichloropropene	91	(58 - 117)	SW846 8260B
4-Methyl-2-pentanone	93	(63 - 128)	SW846 8260B
2-Hexanone	87	(55 - 133)	SW846 8260B
1,1,2,2-Tetrachloroethane	78	(68 - 118)	SW846 8260B
Methyl tert-butyl ether (MTBE)	103	(52 - 144)	SW846 8260B
1,2-Dibromoethane	91	(79 - 113)	SW846 8260B
Isopropylbenzene	113	(75 - 114)	SW846 8260B
1,3-Dichlorobenzene	97	(80 - 110)	SW846 8260B
1,4-Dichlorobenzene	95	(82 - 110)	SW846 8260B
1,2-Dichlorobenzene	103	(81 - 110)	SW846 8260B
1,2-Dibromo-3-chloro- propane	92	(42 - 136)	SW846 8260B
Methyl tert-butyl ether	103	(52 - 144)	SW846 8260B
o-Xylene	108	(83 - 113)	SW846 8260B
m-Xylene & p-Xylene	104	(83 - 113)	SW846 8260B
Bromobenzene	86	(76 - 115)	SW846 8260B
Bromochloromethane	103	(77 - 120)	SW846 8260B
n-Butylbenzene	122	(66 - 125)	SW846 8260B
sec-Butylbenzene	106	(70 - 117)	SW846 8260B
tert-Butylbenzene	90	(71 - 115)	SW846 8260B
2-Chlorotoluene	90	(76 - 116)	SW846 8260B
4-Chlorotoluene	90	(77 - 115)	SW846 8260B
Dibromomethane	100	(81 - 120)	SW846 8260B
1,3-Dichloropropane	91	(79 - 116)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MG51X1AC Matrix.....: WATER
 LCS Lot-Sample#: A1D180000-237

<u>PARAMETER</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>	<u>METHOD</u>
1,1-Dichloropropene	102	(83 - 114)	SW846 8260B
p-Isopropyltoluene	115	(74 - 120)	SW846 8260B
n-Propylbenzene	94	(74 - 121)	SW846 8260B
1,1,1,2-Tetrachloroethane	104	(72 - 116)	SW846 8260B
1,2,3-Trichloropropane	79	(73 - 129)	SW846 8260B
1,2,4-Trimethylbenzene	106	(76 - 120)	SW846 8260B
1,3,5-Trimethylbenzene	102	(72 - 118)	SW846 8260B
cis-1,2-Dichloroethene	105	(80 - 113)	SW846 8260B
trans-1,2-Dichloroethene	107	(83 - 117)	SW846 8260B
Vinyl chloride	97	(53 - 127)	SW846 8260B
1,1-Dichloroethene	109	(78 - 131)	SW846 8260B
1,2-Dichloroethane	99	(71 - 127)	SW846 8260B
1,1,1-Trichloroethane	114	(74 - 118)	SW846 8260B
Carbon tetrachloride	113	(66 - 128)	SW846 8260B
1,2-Dichloropropane	100	(81 - 115)	SW846 8260B
Trichloroethene	98	(76 - 117)	SW846 8260B
Benzene	102	(83 - 112)	SW846 8260B
Tetrachloroethene	94	(79 - 114)	SW846 8260B
Toluene	92	(84 - 111)	SW846 8260B
Chlorobenzene	99	(85 - 110)	SW846 8260B
Ethylbenzene	100	(83 - 112)	SW846 8260B
Styrene	109	(79 - 114)	SW846 8260B
Xylenes (total)	105	(83 - 112)	SW846 8260B

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
Dibromofluoromethane	92	(75 - 121)
1,2-Dichloroethane-d4	82	(63 - 129)
Toluene-d8	84	(74 - 115)
4-Bromofluorobenzene	105	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MG51X1AC Matrix.....: WATER
 LCS Lot-Sample#: A1D180000-237
 Prep Date.....: 04/18/11 Analysis Date...: 04/18/11
 Prep Batch #...: 1108237
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>METHOD</u>
Chloroform	10	11	ug/L	106	SW846 8260B
Bromodichloromethane	10	9.9	ug/L	99	SW846 8260B
Dibromochloromethane	10	9.3	ug/L	93	SW846 8260B
Methylene chloride	10	10	ug/L	101	SW846 8260B
Carbon disulfide	10	13	ug/L	125	SW846 8260B
1,1-Dichloroethane	10	11	ug/L	107	SW846 8260B
2-Butanone	20	18	ug/L	91	SW846 8260B
cis-1,3-Dichloropropene	10	9.1	ug/L	91	SW846 8260B
1,1,2-Trichloroethane	10	9.2	ug/L	92	SW846 8260B
trans-1,3-Dichloropropene	10	9.1	ug/L	91	SW846 8260B
4-Methyl-2-pentanone	20	19	ug/L	93	SW846 8260B
2-Hexanone	20	17	ug/L	87	SW846 8260B
1,1,2,2-Tetrachloroethane	10	7.8	ug/L	78	SW846 8260B
Methyl tert-butyl ether (MTBE)	10	10	ug/L	103	SW846 8260B
1,2-Dibromoethane	10	9.1	ug/L	91	SW846 8260B
Isopropylbenzene	10	11	ug/L	113	SW846 8260B
1,3-Dichlorobenzene	10	9.7	ug/L	97	SW846 8260B
1,4-Dichlorobenzene	10	9.5	ug/L	95	SW846 8260B
1,2-Dichlorobenzene	10	10	ug/L	103	SW846 8260B
1,2-Dibromo-3-chloro- propane	10	9.2	ug/L	92	SW846 8260B
Methyl tert-butyl ether	10	10	ug/L	103	SW846 8260B
o-Xylene	10	11	ug/L	108	SW846 8260B
m-Xylene & p-Xylene	20	21	ug/L	104	SW846 8260B
Bromobenzene	10	8.6	ug/L	86	SW846 8260B
Bromochloromethane	10	10	ug/L	103	SW846 8260B
n-Butylbenzene	10	12	ug/L	122	SW846 8260B
sec-Butylbenzene	10	11	ug/L	106	SW846 8260B
tert-Butylbenzene	10	9.0	ug/L	90	SW846 8260B
2-Chlorotoluene	10	9.0	ug/L	90	SW846 8260B
4-Chlorotoluene	10	9.0	ug/L	90	SW846 8260B
Dibromomethane	10	10	ug/L	100	SW846 8260B
1,3-Dichloropropane	10	9.1	ug/L	91	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MG51X1AC Matrix.....: WATER
 LCS Lot-Sample#: A1D180000-237

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>METHOD</u>
1,1-Dichloropropene	10	10	ug/L	102	SW846 8260B
p-Isopropyltoluene	10	12	ug/L	115	SW846 8260B
n-Propylbenzene	10	9.4	ug/L	94	SW846 8260B
1,1,1,2-Tetrachloroethane	10	10	ug/L	104	SW846 8260B
1,2,3-Trichloropropane	10	7.9	ug/L	79	SW846 8260B
1,2,4-Trimethylbenzene	10	11	ug/L	106	SW846 8260B
1,3,5-Trimethylbenzene	10	10	ug/L	102	SW846 8260B
cis-1,2-Dichloroethene	10	10	ug/L	105	SW846 8260B
trans-1,2-Dichloroethene	10	11	ug/L	107	SW846 8260B
Vinyl chloride	10	9.7	ug/L	97	SW846 8260B
1,1-Dichloroethene	10	11	ug/L	109	SW846 8260B
1,2-Dichloroethane	10	9.9	ug/L	99	SW846 8260B
1,1,1-Trichloroethane	10	11	ug/L	114	SW846 8260B
Carbon tetrachloride	10	11	ug/L	113	SW846 8260B
1,2-Dichloropropane	10	10	ug/L	100	SW846 8260B
Trichloroethene	10	9.8	ug/L	98	SW846 8260B
Benzene	10	10	ug/L	102	SW846 8260B
Tetrachloroethene	10	9.4	ug/L	94	SW846 8260B
Toluene	10	9.2	ug/L	92	SW846 8260B
Chlorobenzene	10	9.9	ug/L	99	SW846 8260B
Ethylbenzene	10	10	ug/L	100	SW846 8260B
Styrene	10	11	ug/L	109	SW846 8260B
Xylenes (total)	30	32	ug/L	105	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Dibromofluoromethane	92	(75 - 121)
1,2-Dichloroethane-d4	82	(63 - 129)
Toluene-d8	84	(74 - 115)
4-Bromofluorobenzene	105	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MG8XL1AC Matrix.....: WATER
 LCS Lot-Sample#: A1D200000-095
 Prep Date.....: 04/19/11 Analysis Date...: 04/19/11
 Prep Batch #...: 1110095
 Dilution Factor: 1

<u>PARAMETER</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>	<u>METHOD</u>
Chloroform	97	(79 - 117)	SW846 8260B
Bromodichloromethane	95	(72 - 121)	SW846 8260B
Dibromochloromethane	94	(64 - 119)	SW846 8260B
Methylene chloride	99	(66 - 131)	SW846 8260B
Carbon disulfide	100	(62 - 142)	SW846 8260B
1,1-Dichloroethane	98	(82 - 115)	SW846 8260B
2-Butanone	92	(60 - 126)	SW846 8260B
cis-1,3-Dichloropropene	92	(61 - 115)	SW846 8260B
1,1,2-Trichloroethane	98	(80 - 112)	SW846 8260B
trans-1,3-Dichloropropene	98	(58 - 117)	SW846 8260B
4-Methyl-2-pentanone	95	(63 - 128)	SW846 8260B
2-Hexanone	93	(55 - 133)	SW846 8260B
1,1,2,2-Tetrachloroethane	93	(68 - 118)	SW846 8260B
Methyl tert-butyl ether (MTBE)	96	(52 - 144)	SW846 8260B
1,2-Dibromoethane	95	(79 - 113)	SW846 8260B
Isopropylbenzene	100	(75 - 114)	SW846 8260B
1,3-Dichlorobenzene	95	(80 - 110)	SW846 8260B
1,4-Dichlorobenzene	93	(82 - 110)	SW846 8260B
1,2-Dichlorobenzene	94	(81 - 110)	SW846 8260B
1,2-Dibromo-3-chloro- propane	92	(42 - 136)	SW846 8260B
Methyl tert-butyl ether	96	(52 - 144)	SW846 8260B
o-Xylene	102	(83 - 113)	SW846 8260B
m-Xylene & p-Xylene	99	(83 - 113)	SW846 8260B
Bromobenzene	95	(76 - 115)	SW846 8260B
Bromochloromethane	94	(77 - 120)	SW846 8260B
n-Butylbenzene	103	(66 - 125)	SW846 8260B
sec-Butylbenzene	100	(70 - 117)	SW846 8260B
tert-Butylbenzene	101	(71 - 115)	SW846 8260B
2-Chlorotoluene	98	(76 - 116)	SW846 8260B
4-Chlorotoluene	94	(77 - 115)	SW846 8260B
Dibromomethane	98	(81 - 120)	SW846 8260B
1,3-Dichloropropane	96	(79 - 116)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MG8XL1AC Matrix.....: WATER
 LCS Lot-Sample#: A1D200000-095

<u>PARAMETER</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>	<u>METHOD</u>
1,1-Dichloropropene	100	(83 - 114)	SW846 8260B
p-Isopropyltoluene	105	(74 - 120)	SW846 8260B
n-Propylbenzene	103	(74 - 121)	SW846 8260B
1,1,1,2-Tetrachloroethane	96	(72 - 116)	SW846 8260B
1,2,3-Trichloropropane	94	(73 - 129)	SW846 8260B
1,2,4-Trimethylbenzene	102	(76 - 120)	SW846 8260B
1,3,5-Trimethylbenzene	102	(72 - 118)	SW846 8260B
Vinyl chloride	85	(53 - 127)	SW846 8260B
1,1-Dichloroethene	103	(78 - 131)	SW846 8260B
1,2-Dichloroethane	97	(71 - 127)	SW846 8260B
1,1,1-Trichloroethane	96	(74 - 118)	SW846 8260B
Carbon tetrachloride	98	(66 - 128)	SW846 8260B
1,2-Dichloropropane	97	(81 - 115)	SW846 8260B
Trichloroethene	96	(76 - 117)	SW846 8260B
Benzene	97	(83 - 112)	SW846 8260B
Tetrachloroethene	99	(79 - 114)	SW846 8260B
Toluene	99	(84 - 111)	SW846 8260B
Chlorobenzene	94	(85 - 110)	SW846 8260B
Ethylbenzene	99	(83 - 112)	SW846 8260B
Styrene	98	(79 - 114)	SW846 8260B
Xylenes (total)	100	(83 - 112)	SW846 8260B
cis-1,2-Dichloroethene	97	(80 - 113)	SW846 8260B
trans-1,2-Dichloroethene	98	(83 - 117)	SW846 8260B

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
Dibromofluoromethane	86	(75 - 121)
1,2-Dichloroethane-d4	83	(63 - 129)
Toluene-d8	93	(74 - 115)
4-Bromofluorobenzene	96	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MG8XL1AC Matrix.....: WATER
 LCS Lot-Sample#: A1D200000-095
 Prep Date.....: 04/19/11 Analysis Date...: 04/19/11
 Prep Batch #...: 1110095
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>METHOD</u>
Chloroform	10	9.7	ug/L	97	SW846 8260B
Bromodichloromethane	10	9.5	ug/L	95	SW846 8260B
Dibromochloromethane	10	9.4	ug/L	94	SW846 8260B
Methylene chloride	10	9.9	ug/L	99	SW846 8260B
Carbon disulfide	10	10	ug/L	100	SW846 8260B
1,1-Dichloroethane	10	9.8	ug/L	98	SW846 8260B
2-Butanone	20	18	ug/L	92	SW846 8260B
cis-1,3-Dichloropropene	10	9.2	ug/L	92	SW846 8260B
1,1,2-Trichloroethane	10	9.8	ug/L	98	SW846 8260B
trans-1,3-Dichloropropene	10	9.8	ug/L	98	SW846 8260B
4-Methyl-2-pentanone	20	19	ug/L	95	SW846 8260B
2-Hexanone	20	19	ug/L	93	SW846 8260B
1,1,2,2-Tetrachloroethane	10	9.3	ug/L	93	SW846 8260B
Methyl tert-butyl ether (MTBE)	10	9.6	ug/L	96	SW846 8260B
1,2-Dibromoethane	10	9.5	ug/L	95	SW846 8260B
Isopropylbenzene	10	10	ug/L	100	SW846 8260B
1,3-Dichlorobenzene	10	9.5	ug/L	95	SW846 8260B
1,4-Dichlorobenzene	10	9.3	ug/L	93	SW846 8260B
1,2-Dichlorobenzene	10	9.4	ug/L	94	SW846 8260B
1,2-Dibromo-3-chloro- propane	10	9.2	ug/L	92	SW846 8260B
Methyl tert-butyl ether	10	9.6	ug/L	96	SW846 8260B
o-Xylene	10	10	ug/L	102	SW846 8260B
m-Xylene & p-Xylene	20	20	ug/L	99	SW846 8260B
Bromobenzene	10	9.5	ug/L	95	SW846 8260B
Bromochloromethane	10	9.4	ug/L	94	SW846 8260B
n-Butylbenzene	10	10	ug/L	103	SW846 8260B
sec-Butylbenzene	10	10	ug/L	100	SW846 8260B
tert-Butylbenzene	10	10	ug/L	101	SW846 8260B
2-Chlorotoluene	10	9.8	ug/L	98	SW846 8260B
4-Chlorotoluene	10	9.4	ug/L	94	SW846 8260B
Dibromomethane	10	9.8	ug/L	98	SW846 8260B
1,3-Dichloropropane	10	9.6	ug/L	96	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MG8XL1AC Matrix.....: WATER
 LCS Lot-Sample#: A1D200000-095

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>METHOD</u>
1,1-Dichloropropene	10	10	ug/L	100	SW846 8260B
p-Isopropyltoluene	10	11	ug/L	105	SW846 8260B
n-Propylbenzene	10	10	ug/L	103	SW846 8260B
1,1,1,2-Tetrachloroethane	10	9.6	ug/L	96	SW846 8260B
1,2,3-Trichloropropane	10	9.4	ug/L	94	SW846 8260B
1,2,4-Trimethylbenzene	10	10	ug/L	102	SW846 8260B
1,3,5-Trimethylbenzene	10	10	ug/L	102	SW846 8260B
Vinyl chloride	10	8.5	ug/L	85	SW846 8260B
1,1-Dichloroethene	10	10	ug/L	103	SW846 8260B
1,2-Dichloroethane	10	9.7	ug/L	97	SW846 8260B
1,1,1-Trichloroethane	10	9.6	ug/L	96	SW846 8260B
Carbon tetrachloride	10	9.8	ug/L	98	SW846 8260B
1,2-Dichloropropane	10	9.7	ug/L	97	SW846 8260B
Trichloroethene	10	9.6	ug/L	96	SW846 8260B
Benzene	10	9.7	ug/L	97	SW846 8260B
Tetrachloroethene	10	9.9	ug/L	99	SW846 8260B
Toluene	10	9.9	ug/L	99	SW846 8260B
Chlorobenzene	10	9.4	ug/L	94	SW846 8260B
Ethylbenzene	10	9.9	ug/L	99	SW846 8260B
Styrene	10	9.8	ug/L	98	SW846 8260B
Xylenes (total)	30	30	ug/L	100	SW846 8260B
cis-1,2-Dichloroethene	10	9.7	ug/L	97	SW846 8260B
trans-1,2-Dichloroethene	10	9.8	ug/L	98	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Dibromofluoromethane	86	(75 - 121)
1,2-Dichloroethane-d4	83	(63 - 129)
Toluene-d8	93	(74 - 115)
4-Bromofluorobenzene	96	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: 1D06583

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
LCS Lot-Sample#: A1D080000-011 Prep Batch #...: 1098011					
Barium	93	(80 - 120)	SW846 6010B	04/08-04/11/11	MGPWA1AM
		Dilution Factor: 1			
Cadmium	89	(80 - 120)	SW846 6010B	04/08-04/11/11	MGPWA1AN
		Dilution Factor: 1			
Chromium	90	(80 - 120)	SW846 6010B	04/08-04/11/11	MGPWA1AP
		Dilution Factor: 1			
Copper	93	(80 - 120)	SW846 6010B	04/08-04/11/11	MGPWA1AQ
		Dilution Factor: 1			
Iron	89	(80 - 120)	SW846 6010B	04/08-04/11/11	MGPWA1AR
		Dilution Factor: 1			
Manganese	93	(80 - 120)	SW846 6010B	04/08-04/11/11	MGPWA1AT
		Dilution Factor: 1			
Zinc	96	(80 - 120)	SW846 6010B	04/08-04/11/11	MGPWA1AU
		Dilution Factor: 1			
Arsenic	88	(80 - 120)	SW846 6010B	04/08-04/11/11	MGPWA1AV
		Dilution Factor: 1			
Lead	88	(80 - 120)	SW846 6010B	04/08-04/11/11	MGPWA1AW
		Dilution Factor: 1			
Selenium	90	(80 - 120)	SW846 6010B	04/08-04/11/11	MGPWA1AX
		Dilution Factor: 1			
LCS Lot-Sample#: A1D110000-018 Prep Batch #...: 1101018					
Barium	93	(80 - 120)	SW846 6010B	04/11-04/13/11	MGTR31C9
		Dilution Factor: 1			
Cadmium	90	(80 - 120)	SW846 6010B	04/11-04/13/11	MGTR31DA
		Dilution Factor: 1			
Chromium	90	(80 - 120)	SW846 6010B	04/11-04/13/11	MGTR31DC
		Dilution Factor: 1			

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: 1D06583

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Copper	96	(80 - 120)	SW846 6010B	04/11-04/13/11	MGTR31DD
		Dilution Factor: 1			
Iron	97	(80 - 120)	SW846 6010B	04/11-04/13/11	MGTR31DE
		Dilution Factor: 1			
Manganese	90	(80 - 120)	SW846 6010B	04/11-04/13/11	MGTR31DF
		Dilution Factor: 1			
Zinc	99	(80 - 120)	SW846 6010B	04/11-04/13/11	MGTR31DG
		Dilution Factor: 1			
Arsenic	87	(80 - 120)	SW846 6010B	04/11-04/13/11	MGTR31DH
		Dilution Factor: 1			
Lead	89	(80 - 120)	SW846 6010B	04/11-04/13/11	MGTR31DJ
		Dilution Factor: 1			
Selenium	92	(80 - 120)	SW846 6010B	04/11-04/13/11	MGTR31DK
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: 1D06583

Matrix.....: WATER

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCNT RECVRY</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
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LCS Lot-Sample#: A1D080000-011 Prep Batch #...: 1098011

Barium	2000	1870	ug/L	93	SW846 6010B	04/08-04/11/11	MGPWA1AM
			Dilution Factor: 1				

Cadmium	50.0	44.3	ug/L	89	SW846 6010B	04/08-04/11/11	MGPWA1AN
			Dilution Factor: 1				

Chromium	200	179	ug/L	90	SW846 6010B	04/08-04/11/11	MGPWA1AP
			Dilution Factor: 1				

Copper	250	232	ug/L	93	SW846 6010B	04/08-04/11/11	MGPWA1AQ
			Dilution Factor: 1				

Iron	1000	891	ug/L	89	SW846 6010B	04/08-04/11/11	MGPWA1AR
			Dilution Factor: 1				

Manganese	500	466	ug/L	93	SW846 6010B	04/08-04/11/11	MGPWA1AT
			Dilution Factor: 1				

Zinc	500	479	ug/L	96	SW846 6010B	04/08-04/11/11	MGPWA1AU
			Dilution Factor: 1				

Arsenic	2000	1750	ug/L	88	SW846 6010B	04/08-04/11/11	MGPWA1AV
			Dilution Factor: 1				

Lead	500	439	ug/L	88	SW846 6010B	04/08-04/11/11	MGPWA1AW
			Dilution Factor: 1				

Selenium	2000	1800	ug/L	90	SW846 6010B	04/08-04/11/11	MGPWA1AX
			Dilution Factor: 1				

LCS Lot-Sample#: A1D110000-018 Prep Batch #...: 1101018

Barium	2000	1900	ug/L	93	SW846 6010B	04/11-04/13/11	MGTR31C9
			Dilution Factor: 1				

Cadmium	50.0	45.0	ug/L	90	SW846 6010B	04/11-04/13/11	MGTR31DA
			Dilution Factor: 1				

Chromium	200	180	ug/L	90	SW846 6010B	04/11-04/13/11	MGTR31DC
			Dilution Factor: 1				

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: 1D06583

Matrix.....: WATER

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCNT RECVRY</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Copper	250	240	ug/L	96	SW846 6010B	04/11-04/13/11	MGTR31DD
			Dilution Factor: 1				
Iron	1000	970	ug/L	97	SW846 6010B	04/11-04/13/11	MGTR31DE
			Dilution Factor: 1				
Manganese	500	450	ug/L	90	SW846 6010B	04/11-04/13/11	MGTR31DF
			Dilution Factor: 1				
Zinc	500	490	ug/L	99	SW846 6010B	04/11-04/13/11	MGTR31DG
			Dilution Factor: 1				
Arsenic	2000	1700	ug/L	87	SW846 6010B	04/11-04/13/11	MGTR31DH
			Dilution Factor: 1				
Lead	500	450	ug/L	89	SW846 6010B	04/11-04/13/11	MGTR31DJ
			Dilution Factor: 1				
Selenium	2000	1800	ug/L	92	SW846 6010B	04/11-04/13/11	MGTR31DK
			Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: 1D06583

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride		WO#:MGQL21AC-LCS/MGQL21AD-LCSD		LCS	Lot-Sample#: A1D080000-191		
	98	(90 - 110)			SW846 9056A	04/07/11	1098191
	98	(90 - 110)	0.20	(0-20)	SW846 9056A	04/07/11	1098191
		Dilution Factor: 1					
Chloride		WO#:MGT051AC-LCS/MGT051AD-LCSD		LCS	Lot-Sample#: A1D110000-105		
	105	(90 - 110)			SW846 9056A	04/08/11	1101105
	105	(90 - 110)	0.30	(0-20)	SW846 9056A	04/08/11	1101105
		Dilution Factor: 1					
Chloride		WO#:MGVN61AC-LCS/MGVN61AD-LCSD		LCS	Lot-Sample#: A1D110000-300		
	98	(90 - 110)			SW846 9056A	04/08/11	1101300
	98	(90 - 110)	0.48	(0-20)	SW846 9056A	04/08/11	1101300
		Dilution Factor: 1					
Chloride		WO#:MG2FL1AC-LCS/MG2FL1AD-LCSD		LCS	Lot-Sample#: A1D140000-304		
	103	(90 - 110)			SW846 9056A	04/13/11	1104304
	104	(90 - 110)	0.69	(0-20)	SW846 9056A	04/13/11	1104304
		Dilution Factor: 1					
Fluoride		WO#:MGQLJ1AC-LCS/MGQLJ1AD-LCSD		LCS	Lot-Sample#: A1D080000-186		
	92	(90 - 110)			SW846 9056A	04/07/11	1098186
	93	(90 - 110)	0.60	(0-20)	SW846 9056A	04/07/11	1098186
		Dilution Factor: 1					
Fluoride		WO#:MGT021AC-LCS/MGT021AD-LCSD		LCS	Lot-Sample#: A1D110000-102		
	97	(90 - 110)			SW846 9056A	04/08/11	1101102
	97	(90 - 110)	0.04	(0-20)	SW846 9056A	04/08/11	1101102
		Dilution Factor: 1					
Fluoride		WO#:MGVNC1AC-LCS/MGVNC1AD-LCSD		LCS	Lot-Sample#: A1D110000-296		
	95	(90 - 110)			SW846 9056A	04/08/11	1101296
	95	(90 - 110)	0.29	(0-20)	SW846 9056A	04/08/11	1101296
		Dilution Factor: 1					
Nitrate as N		WO#:MGQL71AC-LCS/MGQL71AD-LCSD		LCS	Lot-Sample#: A1D080000-196		
	95	(90 - 110)			SW846 9056A	04/07/11	1098196
	95	(90 - 110)	0.0	(0-20)	SW846 9056A	04/07/11	1098196
		Dilution Factor: 1					

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: 1D06583

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrate as N		WO#:MGT1M1AC-LCS/MGT1M1AD-LCSD		LCS	Lot-Sample#: A1D110000-113		
	95	(90 - 110)			SW846 9056A	04/08/11	1101113
	95	(90 - 110)	0.42	(0-20)	SW846 9056A	04/08/11	1101113
		Dilution Factor: 1					
Nitrate as N		WO#:MGVPC1AC-LCS/MGVPC1AD-LCSD		LCS	Lot-Sample#: A1D110000-305		
	96	(90 - 110)			SW846 9056A	04/09/11	1101305
	96	(90 - 110)	0.37	(0-20)	SW846 9056A	04/09/11	1101305
		Dilution Factor: 1					
Sulfate		WO#:MGQMC1AC-LCS/MGQMC1AD-LCSD		LCS	Lot-Sample#: A1D080000-198		
	94	(90 - 110)			SW846 9056A	04/07/11	1098198
	94	(90 - 110)	0.25	(0-20)	SW846 9056A	04/07/11	1098198
		Dilution Factor: 1					
Sulfate		WO#:MGT101AC-LCS/MGT101AD-LCSD		LCS	Lot-Sample#: A1D110000-118		
	100	(90 - 110)			SW846 9056A	04/08/11	1101118
	100	(90 - 110)	0.71	(0-20)	SW846 9056A	04/08/11	1101118
		Dilution Factor: 1					
Sulfate		WO#:MGVPE1AC-LCS/MGVPE1AD-LCSD		LCS	Lot-Sample#: A1D110000-309		
	94	(90 - 110)			SW846 9056A	04/08/11	1101309
	94	(90 - 110)	0.36	(0-20)	SW846 9056A	04/08/11	1101309
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: 1D06583

Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #	
Chloride							WO#:MGQL21AC-LCS/MGQL21AD-LCSD LCS Lot-Sample#: A1D080000-191		
	50.0	49.0	mg/L	98		SW846 9056A	04/07/11	1098191	
	50.0	49.1	mg/L	98	0.20	SW846 9056A	04/07/11	1098191	
				Dilution Factor: 1					
Chloride							WO#:MGT051AC-LCS/MGT051AD-LCSD LCS Lot-Sample#: A1D110000-105		
	50.0	52.4	mg/L	105		SW846 9056A	04/08/11	1101105	
	50.0	52.3	mg/L	105	0.30	SW846 9056A	04/08/11	1101105	
				Dilution Factor: 1					
Chloride							WO#:MGVN61AC-LCS/MGVN61AD-LCSD LCS Lot-Sample#: A1D110000-300		
	50.0	48.9	mg/L	98		SW846 9056A	04/08/11	1101300	
	50.0	49.2	mg/L	98	0.48	SW846 9056A	04/08/11	1101300	
				Dilution Factor: 1					
Chloride							WO#:MG2FL1AC-LCS/MG2FL1AD-LCSD LCS Lot-Sample#: A1D140000-304		
	50.0	51.4	mg/L	103		SW846 9056A	04/13/11	1104304	
	50.0	51.8	mg/L	104	0.69	SW846 9056A	04/13/11	1104304	
				Dilution Factor: 1					
Fluoride							WO#:MGQLJ1AC-LCS/MGQLJ1AD-LCSD LCS Lot-Sample#: A1D080000-186		
	2.5	2.3	mg/L	92		SW846 9056A	04/07/11	1098186	
	2.5	2.3	mg/L	93	0.60	SW846 9056A	04/07/11	1098186	
				Dilution Factor: 1					
Fluoride							WO#:MGT021AC-LCS/MGT021AD-LCSD LCS Lot-Sample#: A1D110000-102		
	2.5	2.4	mg/L	97		SW846 9056A	04/08/11	1101102	
	2.5	2.4	mg/L	97	0.04	SW846 9056A	04/08/11	1101102	
				Dilution Factor: 1					
Fluoride							WO#:MGVNC1AC-LCS/MGVNC1AD-LCSD LCS Lot-Sample#: A1D110000-296		
	2.5	2.4	mg/L	95		SW846 9056A	04/08/11	1101296	
	2.5	2.4	mg/L	95	0.29	SW846 9056A	04/08/11	1101296	
				Dilution Factor: 1					
Nitrate as N							WO#:MGQL71AC-LCS/MGQL71AD-LCSD LCS Lot-Sample#: A1D080000-196		
	2.5	2.4	mg/L	95		SW846 9056A	04/07/11	1098196	
	2.5	2.4	mg/L	95	0.0	SW846 9056A	04/07/11	1098196	
				Dilution Factor: 1					

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LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: 1D06583

Matrix.....: WATER

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECVRY</u>	<u>RPD</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>	
Nitrate as N							WO#:MGT1M1AC-LCS/MGT1M1AD-LCSD LCS Lot-Sample#: A1D110000-113		
	2.5	2.4	mg/L	95		SW846 9056A	04/08/11	1101113	
	2.5	2.4	mg/L	95	0.42	SW846 9056A	04/08/11	1101113	
				Dilution Factor: 1					
Nitrate as N							WO#:MGVPC1AC-LCS/MGVPC1AD-LCSD LCS Lot-Sample#: A1D110000-305		
	2.5	2.4	mg/L	96		SW846 9056A	04/09/11	1101305	
	2.5	2.4	mg/L	96	0.37	SW846 9056A	04/09/11	1101305	
				Dilution Factor: 1					
Sulfate							WO#:MGQMC1AC-LCS/MGQMC1AD-LCSD LCS Lot-Sample#: A1D080000-198		
	50.0	47.2	mg/L	94		SW846 9056A	04/07/11	1098198	
	50.0	47.0	mg/L	94	0.25	SW846 9056A	04/07/11	1098198	
				Dilution Factor: 1					
Sulfate							WO#:MGT101AC-LCS/MGT101AD-LCSD LCS Lot-Sample#: A1D110000-118		
	50.0	50.2	mg/L	100		SW846 9056A	04/08/11	1101118	
	50.0	49.9	mg/L	100	0.71	SW846 9056A	04/08/11	1101118	
				Dilution Factor: 1					
Sulfate							WO#:MGVPE1AC-LCS/MGVPE1AD-LCSD LCS Lot-Sample#: A1D110000-309		
	50.0	46.8	mg/L	94		SW846 9056A	04/08/11	1101309	
	50.0	46.9	mg/L	94	0.36	SW846 9056A	04/08/11	1101309	
				Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: 1D06583

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Dissolved Solids	101	(88 - 110)	SM18 2540 C	04/11-04/12/11	1101317
		Work Order #: MGVQM1AC LCS Lot-Sample#: A1D110000-317			
		Dilution Factor: 1			
Total Dissolved Solids	104	(88 - 110)	SM18 2540 C	04/12-04/13/11	1102236
		Work Order #: MGWKP1AC LCS Lot-Sample#: A1D120000-236			
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: 1D06583

Matrix.....: WATER

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCNT</u> <u>RECVRY</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Total Dissolved Solids							
				Work Order #: MGVQM1AC LCS Lot-Sample#: A1D110000-317			
	271	274	mg/L	101	SM18 2540 C	04/11-04/12/11	1101317
				Dilution Factor: 1			
Total Dissolved Solids							
				Work Order #: MGWKP1AC LCS Lot-Sample#: A1D120000-236			
	398	412	mg/L	104	SM18 2540 C	04/12-04/13/11	1102236
				Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MGNX81AD-MS Matrix.....: WG
 MS Lot-Sample #: A1D070505-001 MGNX81AE-MSD
 Date Sampled...: 04/05/11 14:40 Date Received...: 04/07/11
 Prep Date.....: 04/14/11 Analysis Date...: 04/14/11
 Prep Batch #...: 1105073
 Dilution Factor: 1

PARAMETER	PERCENT	RECOVERY	RPD		METHOD
	RECOVERY	LIMITS	RPD	LIMITS	
Chloroform	95	(76 - 118)			SW846 8260B
	95	(76 - 118)	0.02	(0-30)	SW846 8260B
Bromodichloromethane	94	(67 - 120)			SW846 8260B
	94	(67 - 120)	0.63	(0-30)	SW846 8260B
Dibromochloromethane	92	(56 - 118)			SW846 8260B
	91	(56 - 118)	0.76	(0-30)	SW846 8260B
Methylene chloride	83	(63 - 128)			SW846 8260B
	83	(63 - 128)	0.49	(0-30)	SW846 8260B
Carbon disulfide	95	(57 - 147)			SW846 8260B
	94	(57 - 147)	0.23	(0-30)	SW846 8260B
1,1-Dichloroethane	95	(79 - 116)			SW846 8260B
	97	(79 - 116)	1.2	(0-30)	SW846 8260B
2-Butanone	97	(54 - 129)			SW846 8260B
	99	(54 - 129)	2.6	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	89	(51 - 110)			SW846 8260B
	88	(51 - 110)	0.56	(0-30)	SW846 8260B
1,1,2-Trichloroethane	99	(75 - 115)			SW846 8260B
	100	(75 - 115)	0.71	(0-30)	SW846 8260B
trans-1,3-Dichloropropene	97	(46 - 116)			SW846 8260B
	98	(46 - 116)	1.8	(0-30)	SW846 8260B
4-Methyl-2-pentanone	114	(56 - 131)			SW846 8260B
	119	(56 - 131)	3.9	(0-30)	SW846 8260B
2-Hexanone	118	(47 - 139)			SW846 8260B
	123	(47 - 139)	4.0	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	96	(63 - 122)			SW846 8260B
	97	(63 - 122)	0.24	(0-30)	SW846 8260B
Methyl tert-butyl ether (MTBE)	95	(46 - 144)			SW846 8260B
	99	(46 - 144)	4.4	(0-30)	SW846 8260B
1,2-Dibromoethane	97	(74 - 113)			SW846 8260B
	100	(74 - 113)	2.4	(0-30)	SW846 8260B
Isopropylbenzene	102	(68 - 116)			SW846 8260B
	102	(68 - 116)	0.12	(0-30)	SW846 8260B
1,3-Dichlorobenzene	96	(73 - 110)			SW846 8260B
	94	(73 - 110)	1.8	(0-30)	SW846 8260B
1,4-Dichlorobenzene	93	(75 - 110)			SW846 8260B
	94	(75 - 110)	0.71	(0-30)	SW846 8260B
1,2-Dichlorobenzene	99	(75 - 111)			SW846 8260B
	100	(75 - 111)	0.91	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MGNX81AD-MS Matrix.....: WG
 MS Lot-Sample #: A1D070505-001 MGNX81AE-MSD

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
1,2-Dibromo-3-chloro- propane	108	(32 - 139)			SW846 8260B
	111	(32 - 139)	2.0	(0-30)	SW846 8260B
Methyl tert-butyl ether	95	(46 - 144)			SW846 8260B
	99	(46 - 144)	4.4	(0-30)	SW846 8260B
o-Xylene	101	(76 - 116)			SW846 8260B
	101	(76 - 116)	0.17	(0-30)	SW846 8260B
m-Xylene & p-Xylene	98	(75 - 117)			SW846 8260B
	99	(75 - 117)	1.2	(0-30)	SW846 8260B
Bromobenzene	93	(71 - 116)			SW846 8260B
	93	(71 - 116)	0.55	(0-30)	SW846 8260B
Bromochloromethane	94	(73 - 121)			SW846 8260B
	95	(73 - 121)	1.4	(0-30)	SW846 8260B
n-Butylbenzene	112	(56 - 127)			SW846 8260B
	111	(56 - 127)	0.25	(0-30)	SW846 8260B
sec-Butylbenzene	104	(60 - 119)			SW846 8260B
	104	(60 - 119)	0.29	(0-30)	SW846 8260B
tert-Butylbenzene	94	(61 - 119)			SW846 8260B
	104	(61 - 119)	9.9	(0-30)	SW846 8260B
2-Chlorotoluene	96	(69 - 117)			SW846 8260B
	96	(69 - 117)	0.14	(0-30)	SW846 8260B
4-Chlorotoluene	97	(71 - 116)			SW846 8260B
	96	(71 - 116)	1.5	(0-30)	SW846 8260B
Dibromomethane	99	(77 - 121)			SW846 8260B
	101	(77 - 121)	1.3	(0-30)	SW846 8260B
1,3-Dichloropropane	99	(74 - 118)			SW846 8260B
	99	(74 - 118)	0.04	(0-30)	SW846 8260B
1,1-Dichloropropene	98	(80 - 114)			SW846 8260B
	99	(80 - 114)	0.61	(0-30)	SW846 8260B
p-Isopropyltoluene	109	(64 - 122)			SW846 8260B
	108	(64 - 122)	0.77	(0-30)	SW846 8260B
n-Propylbenzene	102	(64 - 124)			SW846 8260B
	101	(64 - 124)	0.69	(0-30)	SW846 8260B
1,1,1,2-Tetrachloroethane	96	(64 - 118)			SW846 8260B
	96	(64 - 118)	0.54	(0-30)	SW846 8260B
1,2,3-Trichloropropane	95	(67 - 132)			SW846 8260B
	96	(67 - 132)	1.6	(0-30)	SW846 8260B
1,2,4-Trimethylbenzene	105	(67 - 124)			SW846 8260B
	105	(67 - 124)	0.31	(0-30)	SW846 8260B
1,3,5-Trimethylbenzene	102	(63 - 121)			SW846 8260B
	101	(63 - 121)	1.1	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MGNX81AD-MS Matrix.....: WG
 MS Lot-Sample #: A1D070505-001 MGNX81AE-MSD

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
1,1-Dichloroethene	96	(74 - 135)			SW846 8260B
	97	(74 - 135)	0.94	(0-30)	SW846 8260B
Vinyl chloride	85	(49 - 130)			SW846 8260B
	86	(49 - 130)	0.68	(0-30)	SW846 8260B
1,2-Dichloroethane	99	(68 - 129)			SW846 8260B
	98	(68 - 129)	0.82	(0-30)	SW846 8260B
1,1,1-Trichloroethane	91	(68 - 121)			SW846 8260B
	92	(68 - 121)	0.33	(0-30)	SW846 8260B
Carbon tetrachloride	92	(59 - 129)			SW846 8260B
	94	(59 - 129)	1.6	(0-30)	SW846 8260B
1,2-Dichloropropane	96	(78 - 115)			SW846 8260B
	96	(78 - 115)	0.05	(0-30)	SW846 8260B
Trichloroethene	93	(66 - 120)			SW846 8260B
	93	(66 - 120)	0.33	(0-30)	SW846 8260B
Benzene	97	(72 - 121)			SW846 8260B
	96	(72 - 121)	0.44	(0-30)	SW846 8260B
Tetrachloroethene	96	(70 - 117)			SW846 8260B
	95	(70 - 117)	0.80	(0-30)	SW846 8260B
Toluene	97	(78 - 114)			SW846 8260B
	96	(78 - 114)	0.72	(0-30)	SW846 8260B
Chlorobenzene	95	(80 - 110)			SW846 8260B
	96	(80 - 110)	0.41	(0-30)	SW846 8260B
Ethylbenzene	98	(75 - 116)			SW846 8260B
	98	(75 - 116)	0.30	(0-30)	SW846 8260B
Styrene	101	(71 - 117)			SW846 8260B
	102	(71 - 117)	0.25	(0-30)	SW846 8260B
Xylenes (total)	99	(76 - 116)			SW846 8260B
	99	(76 - 116)	0.72	(0-30)	SW846 8260B
cis-1,2-Dichloroethene	93	(70 - 120)			SW846 8260B
	94	(70 - 120)	0.87	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	92	(80 - 119)			SW846 8260B
	94	(80 - 119)	2.1	(0-30)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	85	(75 - 121)
	87	(75 - 121)
1,2-Dichloroethane-d4	90	(63 - 129)
	90	(63 - 129)
Toluene-d8	89	(74 - 115)
	90	(74 - 115)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MGNX81AD-MS Matrix.....: WG
MS Lot-Sample #: A1D070505-001 MGNX81AE-MSD

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	95	(66 - 117)
	97	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MGNX81AD-MS Matrix.....: WG
 MS Lot-Sample #: A1D070505-001 MGNX81AE-MSD
 Date Sampled...: 04/05/11 14:40 Date Received...: 04/07/11
 Prep Date.....: 04/14/11 Analysis Date...: 04/14/11
 Prep Batch #...: 1105073
 Dilution Factor: 1

PARAMETER	SAMPLE	SPIKE	MEASRD	UNITS	PERCNT		METHOD
	AMOUNT	AMT	AMOUNT		RECVRY	RPD	
Chloroform	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	9.5	ug/L	95	0.02	SW846 8260B
Bromodichloromethane	ND	10	9.4	ug/L	94		SW846 8260B
	ND	10	9.4	ug/L	94	0.63	SW846 8260B
Dibromochloromethane	ND	10	9.2	ug/L	92		SW846 8260B
	ND	10	9.1	ug/L	91	0.76	SW846 8260B
Methylene chloride	ND	10	8.3	ug/L	83		SW846 8260B
	ND	10	8.3	ug/L	83	0.49	SW846 8260B
Carbon disulfide	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	9.4	ug/L	94	0.23	SW846 8260B
1,1-Dichloroethane	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	9.7	ug/L	97	1.2	SW846 8260B
2-Butanone	ND	20	19	ug/L	97		SW846 8260B
	ND	20	20	ug/L	99	2.6	SW846 8260B
cis-1,3-Dichloropropene	ND	10	8.9	ug/L	89		SW846 8260B
	ND	10	8.8	ug/L	88	0.56	SW846 8260B
1,1,2-Trichloroethane	ND	10	9.9	ug/L	99		SW846 8260B
	ND	10	10	ug/L	100	0.71	SW846 8260B
trans-1,3-Dichloropropene	ND	10	9.7	ug/L	97		SW846 8260B
	ND	10	9.8	ug/L	98	1.8	SW846 8260B
4-Methyl-2-pentanone	ND	20	23	ug/L	114		SW846 8260B
	ND	20	24	ug/L	119	3.9	SW846 8260B
2-Hexanone	ND	20	24	ug/L	118		SW846 8260B
	ND	20	25	ug/L	123	4.0	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	10	9.6	ug/L	96		SW846 8260B
	ND	10	9.7	ug/L	97	0.24	SW846 8260B
Methyl tert-butyl ether (MTBE)	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	9.9	ug/L	99	4.4	SW846 8260B
1,2-Dibromoethane	ND	10	9.7	ug/L	97		SW846 8260B
	ND	10	10	ug/L	100	2.4	SW846 8260B
Isopropylbenzene	ND	10	10	ug/L	102		SW846 8260B
	ND	10	10	ug/L	102	0.12	SW846 8260B
1,3-Dichlorobenzene	ND	10	9.6	ug/L	96		SW846 8260B
	ND	10	9.4	ug/L	94	1.8	SW846 8260B
1,4-Dichlorobenzene	ND	10	9.3	ug/L	93		SW846 8260B
	ND	10	9.4	ug/L	94	0.71	SW846 8260B
1,2-Dichlorobenzene	ND	10	9.9	ug/L	99		SW846 8260B
	ND	10	10	ug/L	100	0.91	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MGNX81AD-MS Matrix.....: WG
 MS Lot-Sample #: A1D070505-001 MGNX81AE-MSD

PARAMETER	SAMPLE	SPIKE	MEASRD	UNITS	PERCNT		METHOD
	AMOUNT	AMT	AMOUNT		RECVRY	RPD	
1,2-Dibromo-3-chloro- propane	ND	10	11	ug/L	108		SW846 8260B
	ND	10	11	ug/L	111	2.0	SW846 8260B
Methyl tert-butyl ether	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	9.9	ug/L	99	4.4	SW846 8260B
o-Xylene	ND	10	10	ug/L	101		SW846 8260B
	ND	10	10	ug/L	101	0.17	SW846 8260B
m-Xylene & p-Xylene	ND	20	20	ug/L	98		SW846 8260B
	ND	20	20	ug/L	99	1.2	SW846 8260B
Bromobenzene	ND	10	9.3	ug/L	93		SW846 8260B
	ND	10	9.3	ug/L	93	0.55	SW846 8260B
Bromochloromethane	ND	10	9.4	ug/L	94		SW846 8260B
	ND	10	9.5	ug/L	95	1.4	SW846 8260B
n-Butylbenzene	ND	10	11	ug/L	112		SW846 8260B
	ND	10	11	ug/L	111	0.25	SW846 8260B
sec-Butylbenzene	ND	10	10	ug/L	104		SW846 8260B
	ND	10	10	ug/L	104	0.29	SW846 8260B
tert-Butylbenzene	ND	10	9.4	ug/L	94		SW846 8260B
	ND	10	10	ug/L	104	9.9	SW846 8260B
2-Chlorotoluene	ND	10	9.6	ug/L	96		SW846 8260B
	ND	10	9.6	ug/L	96	0.14	SW846 8260B
4-Chlorotoluene	ND	10	9.7	ug/L	97		SW846 8260B
	ND	10	9.6	ug/L	96	1.5	SW846 8260B
Dibromomethane	ND	10	9.9	ug/L	99		SW846 8260B
	ND	10	10	ug/L	101	1.3	SW846 8260B
1,3-Dichloropropane	ND	10	9.9	ug/L	99		SW846 8260B
	ND	10	9.9	ug/L	99	0.04	SW846 8260B
1,1-Dichloropropene	ND	10	9.8	ug/L	98		SW846 8260B
	ND	10	9.9	ug/L	99	0.61	SW846 8260B
p-Isopropyltoluene	ND	10	11	ug/L	109		SW846 8260B
	ND	10	11	ug/L	108	0.77	SW846 8260B
n-Propylbenzene	ND	10	10	ug/L	102		SW846 8260B
	ND	10	10	ug/L	101	0.69	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	10	9.6	ug/L	96		SW846 8260B
	ND	10	9.6	ug/L	96	0.54	SW846 8260B
1,2,3-Trichloropropane	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	9.6	ug/L	96	1.6	SW846 8260B
1,2,4-Trimethylbenzene	ND	10	11	ug/L	105		SW846 8260B
	ND	10	10	ug/L	105	0.31	SW846 8260B
1,3,5-Trimethylbenzene	ND	10	10	ug/L	102		SW846 8260B
	ND	10	10	ug/L	101	1.1	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MGNX81AD-MS Matrix.....: WG
 MS Lot-Sample #: A1D070505-001 MGNX81AE-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	ND	10	9.6	ug/L	96		SW846 8260B
	ND	10	9.7	ug/L	97	0.94	SW846 8260B
Vinyl chloride	ND	10	8.5	ug/L	85		SW846 8260B
	ND	10	8.6	ug/L	86	0.68	SW846 8260B
1,2-Dichloroethane	ND	10	9.9	ug/L	99		SW846 8260B
	ND	10	9.8	ug/L	98	0.82	SW846 8260B
1,1,1-Trichloroethane	ND	10	9.1	ug/L	91		SW846 8260B
	ND	10	9.2	ug/L	92	0.33	SW846 8260B
Carbon tetrachloride	ND	10	9.2	ug/L	92		SW846 8260B
	ND	10	9.4	ug/L	94	1.6	SW846 8260B
1,2-Dichloropropane	ND	10	9.6	ug/L	96		SW846 8260B
	ND	10	9.6	ug/L	96	0.05	SW846 8260B
Trichloroethene	ND	10	9.3	ug/L	93		SW846 8260B
	ND	10	9.3	ug/L	93	0.33	SW846 8260B
Benzene	ND	10	9.7	ug/L	97		SW846 8260B
	ND	10	9.6	ug/L	96	0.44	SW846 8260B
Tetrachloroethene	ND	10	9.6	ug/L	96		SW846 8260B
	ND	10	9.5	ug/L	95	0.80	SW846 8260B
Toluene	ND	10	9.7	ug/L	97		SW846 8260B
	ND	10	9.6	ug/L	96	0.72	SW846 8260B
Chlorobenzene	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	9.6	ug/L	96	0.41	SW846 8260B
Ethylbenzene	ND	10	9.8	ug/L	98		SW846 8260B
	ND	10	9.8	ug/L	98	0.30	SW846 8260B
Styrene	ND	10	10	ug/L	101		SW846 8260B
	ND	10	10	ug/L	102	0.25	SW846 8260B
Xylenes (total)	ND	30	30	ug/L	99		SW846 8260B
	ND	30	30	ug/L	99	0.72	SW846 8260B
cis-1,2-Dichloroethene	ND	10	9.3	ug/L	93		SW846 8260B
	ND	10	9.4	ug/L	94	0.87	SW846 8260B
trans-1,2-Dichloroethene	ND	10	9.2	ug/L	92		SW846 8260B
	ND	10	9.4	ug/L	94	2.1	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	85	(75 - 121)
	87	(75 - 121)
1,2-Dichloroethane-d4	90	(63 - 129)
	90	(63 - 129)
Toluene-d8	89	(74 - 115)
	90	(74 - 115)

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MGNX81AD-MS Matrix.....: WG
MS Lot-Sample #: A1D070505-001 MGNX81AE-MSD

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
4-Bromofluorobenzene	95	(66 - 117)
	97	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MGN5T1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A1D070534-001 MGN5T1AD-MSD
 Date Sampled...: 04/06/11 09:55 Date Received...: 04/07/11
 Prep Date.....: 04/15/11 Analysis Date...: 04/15/11
 Prep Batch #...: 1108114
 Dilution Factor: 1

PARAMETER	PERCENT	RECOVERY	RPD		METHOD
	RECOVERY	LIMITS	RPD	LIMITS	
Chloroform	100	(76 - 118)			SW846 8260B
	104	(76 - 118)	4.4	(0-30)	SW846 8260B
Bromodichloromethane	93	(67 - 120)			SW846 8260B
	95	(67 - 120)	2.1	(0-30)	SW846 8260B
Dibromochloromethane	86	(56 - 118)			SW846 8260B
	91	(56 - 118)	5.5	(0-30)	SW846 8260B
Methylene chloride	89	(63 - 128)			SW846 8260B
	94	(63 - 128)	4.7	(0-30)	SW846 8260B
Carbon disulfide	109	(57 - 147)			SW846 8260B
	113	(57 - 147)	3.5	(0-30)	SW846 8260B
1,1-Dichloroethane	101	(79 - 116)			SW846 8260B
	103	(79 - 116)	1.8	(0-30)	SW846 8260B
2-Butanone	94	(54 - 129)			SW846 8260B
	97	(54 - 129)	3.4	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	81	(51 - 110)			SW846 8260B
	84	(51 - 110)	3.5	(0-30)	SW846 8260B
1,1,2-Trichloroethane	91	(75 - 115)			SW846 8260B
	93	(75 - 115)	1.5	(0-30)	SW846 8260B
trans-1,3-Dichloropropene	87	(46 - 116)			SW846 8260B
	91	(46 - 116)	4.7	(0-30)	SW846 8260B
4-Methyl-2-pentanone	92	(56 - 131)			SW846 8260B
	96	(56 - 131)	4.5	(0-30)	SW846 8260B
2-Hexanone	91	(47 - 139)			SW846 8260B
	95	(47 - 139)	4.7	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	78	(63 - 122)			SW846 8260B
	81	(63 - 122)	3.6	(0-30)	SW846 8260B
Methyl tert-butyl ether (MTBE)	96	(46 - 144)			SW846 8260B
	101	(46 - 144)	5.4	(0-30)	SW846 8260B
1,2-Dibromoethane	87	(74 - 113)			SW846 8260B
	92	(74 - 113)	6.1	(0-30)	SW846 8260B
Isopropylbenzene	109	(68 - 116)			SW846 8260B
	116	(68 - 116)	5.5	(0-30)	SW846 8260B
1,3-Dichlorobenzene	94	(73 - 110)			SW846 8260B
	98	(73 - 110)	5.0	(0-30)	SW846 8260B
1,4-Dichlorobenzene	94	(75 - 110)			SW846 8260B
	97	(75 - 110)	3.0	(0-30)	SW846 8260B
1,2-Dichlorobenzene	101	(75 - 111)			SW846 8260B
	107	(75 - 111)	5.8	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MGN5T1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A1D070534-001 MGN5T1AD-MSD

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
1,2-Dibromo-3-chloro- propane	93	(32 - 139)			SW846 8260B
	104	(32 - 139)	11	(0-30)	SW846 8260B
Methyl tert-butyl ether	96	(46 - 144)			SW846 8260B
	101	(46 - 144)	5.4	(0-30)	SW846 8260B
o-Xylene	105	(76 - 116)			SW846 8260B
	111	(76 - 116)	4.9	(0-30)	SW846 8260B
m-Xylene & p-Xylene	102	(75 - 117)			SW846 8260B
	105	(75 - 117)	2.7	(0-30)	SW846 8260B
Bromobenzene	84	(71 - 116)			SW846 8260B
	86	(71 - 116)	2.9	(0-30)	SW846 8260B
Bromochloromethane	95	(73 - 121)			SW846 8260B
	100	(73 - 121)	4.8	(0-30)	SW846 8260B
n-Butylbenzene	119	(56 - 127)			SW846 8260B
	123	(56 - 127)	3.7	(0-30)	SW846 8260B
sec-Butylbenzene	104	(60 - 119)			SW846 8260B
	108	(60 - 119)	3.4	(0-30)	SW846 8260B
tert-Butylbenzene	89	(61 - 119)			SW846 8260B
	103	(61 - 119)	15	(0-30)	SW846 8260B
2-Chlorotoluene	90	(69 - 117)			SW846 8260B
	92	(69 - 117)	2.6	(0-30)	SW846 8260B
4-Chlorotoluene	90	(71 - 116)			SW846 8260B
	93	(71 - 116)	2.9	(0-30)	SW846 8260B
Dibromomethane	96	(77 - 121)			SW846 8260B
	99	(77 - 121)	2.6	(0-30)	SW846 8260B
1,3-Dichloropropane	89	(74 - 118)			SW846 8260B
	94	(74 - 118)	5.0	(0-30)	SW846 8260B
1,1-Dichloropropene	101	(80 - 114)			SW846 8260B
	101	(80 - 114)	0.74	(0-30)	SW846 8260B
p-Isopropyltoluene	112	(64 - 122)			SW846 8260B
	118	(64 - 122)	4.5	(0-30)	SW846 8260B
n-Propylbenzene	93	(64 - 124)			SW846 8260B
	98	(64 - 124)	4.6	(0-30)	SW846 8260B
1,1,1,2-Tetrachloroethane	100	(64 - 118)			SW846 8260B
	104	(64 - 118)	4.8	(0-30)	SW846 8260B
1,2,3-Trichloropropane	80	(67 - 132)			SW846 8260B
	84	(67 - 132)	4.6	(0-30)	SW846 8260B
1,2,4-Trimethylbenzene	104	(67 - 124)			SW846 8260B
	109	(67 - 124)	4.2	(0-30)	SW846 8260B
1,3,5-Trimethylbenzene	99	(63 - 121)			SW846 8260B
	103	(63 - 121)	4.1	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MGN5T1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A1D070534-001 MGN5T1AD-MSD

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
1,1-Dichloroethene	101	(74 - 135)			SW846 8260B
	103	(74 - 135)	2.5	(0-30)	SW846 8260B
Vinyl chloride	87	(49 - 130)			SW846 8260B
	89	(49 - 130)	2.1	(0-30)	SW846 8260B
1,2-Dichloroethane	96	(68 - 129)			SW846 8260B
	99	(68 - 129)	3.0	(0-30)	SW846 8260B
1,1,1-Trichloroethane	104	(68 - 121)			SW846 8260B
	109	(68 - 121)	4.5	(0-30)	SW846 8260B
Carbon tetrachloride	104	(59 - 129)			SW846 8260B
	106	(59 - 129)	2.5	(0-30)	SW846 8260B
1,2-Dichloropropane	94	(78 - 115)			SW846 8260B
	98	(78 - 115)	3.9	(0-30)	SW846 8260B
Trichloroethene	97	(66 - 120)			SW846 8260B
	101	(66 - 120)	4.8	(0-30)	SW846 8260B
Benzene	97	(72 - 121)			SW846 8260B
	99	(72 - 121)	3.0	(0-30)	SW846 8260B
Tetrachloroethene	94	(70 - 117)			SW846 8260B
	99	(70 - 117)	4.6	(0-30)	SW846 8260B
Toluene	92	(78 - 114)			SW846 8260B
	97	(78 - 114)	5.4	(0-30)	SW846 8260B
Chlorobenzene	94	(80 - 110)			SW846 8260B
	99	(80 - 110)	5.4	(0-30)	SW846 8260B
Ethylbenzene	99	(75 - 116)			SW846 8260B
	104	(75 - 116)	5.0	(0-30)	SW846 8260B
Styrene	105	(71 - 117)			SW846 8260B
	110	(71 - 117)	4.4	(0-30)	SW846 8260B
Xylenes (total)	103	(76 - 116)			SW846 8260B
	107	(76 - 116)	3.5	(0-30)	SW846 8260B
cis-1,2-Dichloroethene	98	(70 - 120)			SW846 8260B
	102	(70 - 120)	4.0	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	98	(80 - 119)			SW846 8260B
	103	(80 - 119)	4.3	(0-30)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	89	(75 - 121)
	92	(75 - 121)
1,2-Dichloroethane-d4	90	(63 - 129)
	89	(63 - 129)
Toluene-d8	87	(74 - 115)
	89	(74 - 115)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MGN5T1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A1D070534-001 MGN5T1AD-MSD

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	105	(66 - 117)
	108	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MGN5T1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A1D070534-001 MGN5T1AD-MSD
 Date Sampled...: 04/06/11 09:55 Date Received...: 04/07/11
 Prep Date.....: 04/15/11 Analysis Date...: 04/15/11
 Prep Batch #...: 1108114
 Dilution Factor: 1

PARAMETER	SAMPLE	SPIKE	MEASRD	UNITS	PERCNT		METHOD
	AMOUNT	AMT	AMOUNT		RECVRY	RPD	
Chloroform	ND	10	10	ug/L	100		SW846 8260B
	ND	10	10	ug/L	104	4.4	SW846 8260B
Bromodichloromethane	ND	10	9.3	ug/L	93		SW846 8260B
	ND	10	9.5	ug/L	95	2.1	SW846 8260B
Dibromochloromethane	ND	10	8.6	ug/L	86		SW846 8260B
	ND	10	9.1	ug/L	91	5.5	SW846 8260B
Methylene chloride	ND	10	8.9	ug/L	89		SW846 8260B
	ND	10	9.4	ug/L	94	4.7	SW846 8260B
Carbon disulfide	ND	10	11	ug/L	109		SW846 8260B
	ND	10	11	ug/L	113	3.5	SW846 8260B
1,1-Dichloroethane	ND	10	10	ug/L	101		SW846 8260B
	ND	10	10	ug/L	103	1.8	SW846 8260B
2-Butanone	ND	20	19	ug/L	94		SW846 8260B
	ND	20	19	ug/L	97	3.4	SW846 8260B
cis-1,3-Dichloropropene	ND	10	8.1	ug/L	81		SW846 8260B
	ND	10	8.4	ug/L	84	3.5	SW846 8260B
1,1,2-Trichloroethane	ND	10	9.1	ug/L	91		SW846 8260B
	ND	10	9.3	ug/L	93	1.5	SW846 8260B
trans-1,3-Dichloropropene	ND	10	8.7	ug/L	87		SW846 8260B
	ND	10	9.1	ug/L	91	4.7	SW846 8260B
4-Methyl-2-pentanone	ND	20	18	ug/L	92		SW846 8260B
	ND	20	19	ug/L	96	4.5	SW846 8260B
2-Hexanone	ND	20	18	ug/L	91		SW846 8260B
	ND	20	19	ug/L	95	4.7	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	10	7.8	ug/L	78		SW846 8260B
	ND	10	8.1	ug/L	81	3.6	SW846 8260B
Methyl tert-butyl ether (MTBE)	ND	10	9.6	ug/L	96		SW846 8260B
	ND	10	10	ug/L	101	5.4	SW846 8260B
1,2-Dibromoethane	ND	10	8.7	ug/L	87		SW846 8260B
	ND	10	9.2	ug/L	92	6.1	SW846 8260B
Isopropylbenzene	ND	10	11	ug/L	109		SW846 8260B
	ND	10	12	ug/L	116	5.5	SW846 8260B
1,3-Dichlorobenzene	ND	10	9.4	ug/L	94		SW846 8260B
	ND	10	9.8	ug/L	98	5.0	SW846 8260B
1,4-Dichlorobenzene	ND	10	9.4	ug/L	94		SW846 8260B
	ND	10	9.7	ug/L	97	3.0	SW846 8260B
1,2-Dichlorobenzene	ND	10	10	ug/L	101		SW846 8260B
	ND	10	11	ug/L	107	5.8	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MGN5T1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A1D070534-001 MGN5T1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,2-Dibromo-3-chloro-propane	ND	10	9.3	ug/L	93		SW846 8260B
	ND	10	10	ug/L	104	11	SW846 8260B
Methyl tert-butyl ether	ND	10	9.6	ug/L	96		SW846 8260B
	ND	10	10	ug/L	101	5.4	SW846 8260B
o-Xylene		10	11	ug/L	105		SW846 8260B
		10	11	ug/L	111	4.9	SW846 8260B
m-Xylene & p-Xylene		20	20	ug/L	102		SW846 8260B
		20	21	ug/L	105	2.7	SW846 8260B
Bromobenzene		10	8.4	ug/L	84		SW846 8260B
		10	8.6	ug/L	86	2.9	SW846 8260B
Bromochloromethane		10	9.5	ug/L	95		SW846 8260B
		10	10	ug/L	100	4.8	SW846 8260B
n-Butylbenzene		10	12	ug/L	119		SW846 8260B
		10	12	ug/L	123	3.7	SW846 8260B
sec-Butylbenzene		10	10	ug/L	104		SW846 8260B
		10	11	ug/L	108	3.4	SW846 8260B
tert-Butylbenzene		10	8.9	ug/L	89		SW846 8260B
		10	10	ug/L	103	15	SW846 8260B
2-Chlorotoluene		10	9.0	ug/L	90		SW846 8260B
		10	9.2	ug/L	92	2.6	SW846 8260B
4-Chlorotoluene		10	9.0	ug/L	90		SW846 8260B
		10	9.3	ug/L	93	2.9	SW846 8260B
Dibromomethane		10	9.6	ug/L	96		SW846 8260B
		10	9.9	ug/L	99	2.6	SW846 8260B
1,3-Dichloropropane		10	8.9	ug/L	89		SW846 8260B
		10	9.4	ug/L	94	5.0	SW846 8260B
1,1-Dichloropropene		10	10	ug/L	101		SW846 8260B
		10	10	ug/L	101	0.74	SW846 8260B
p-Isopropyltoluene		10	11	ug/L	112		SW846 8260B
		10	12	ug/L	118	4.5	SW846 8260B
n-Propylbenzene		10	9.3	ug/L	93		SW846 8260B
		10	9.8	ug/L	98	4.6	SW846 8260B
1,1,1,2-Tetrachloroethane		10	10	ug/L	100		SW846 8260B
		10	10	ug/L	104	4.8	SW846 8260B
1,2,3-Trichloropropane		10	8.0	ug/L	80		SW846 8260B
		10	8.4	ug/L	84	4.6	SW846 8260B
1,2,4-Trimethylbenzene		10	10	ug/L	104		SW846 8260B
		10	11	ug/L	109	4.2	SW846 8260B
1,3,5-Trimethylbenzene		10	9.9	ug/L	99		SW846 8260B
		10	10	ug/L	103	4.1	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MGN5T1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A1D070534-001 MGN5T1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	ND	10	10	ug/L	101		SW846 8260B
	ND	10	10	ug/L	103	2.5	SW846 8260B
Vinyl chloride	ND	10	8.7	ug/L	87		SW846 8260B
	ND	10	8.9	ug/L	89	2.1	SW846 8260B
1,2-Dichloroethane	ND	10	9.6	ug/L	96		SW846 8260B
	ND	10	9.9	ug/L	99	3.0	SW846 8260B
1,1,1-Trichloroethane	ND	10	10	ug/L	104		SW846 8260B
	ND	10	11	ug/L	109	4.5	SW846 8260B
Carbon tetrachloride	ND	10	10	ug/L	104		SW846 8260B
	ND	10	11	ug/L	106	2.5	SW846 8260B
1,2-Dichloropropane	ND	10	9.4	ug/L	94		SW846 8260B
	ND	10	9.8	ug/L	98	3.9	SW846 8260B
Trichloroethene	ND	10	9.7	ug/L	97		SW846 8260B
	ND	10	10	ug/L	101	4.8	SW846 8260B
Benzene	ND	10	9.7	ug/L	97		SW846 8260B
	ND	10	9.9	ug/L	99	3.0	SW846 8260B
Tetrachloroethene	ND	10	9.4	ug/L	94		SW846 8260B
	ND	10	9.9	ug/L	99	4.6	SW846 8260B
Toluene	ND	10	9.2	ug/L	92		SW846 8260B
	ND	10	9.7	ug/L	97	5.4	SW846 8260B
Chlorobenzene	ND	10	9.4	ug/L	94		SW846 8260B
	ND	10	9.9	ug/L	99	5.4	SW846 8260B
Ethylbenzene	ND	10	9.9	ug/L	99		SW846 8260B
	ND	10	10	ug/L	104	5.0	SW846 8260B
Styrene	ND	10	11	ug/L	105		SW846 8260B
	ND	10	11	ug/L	110	4.4	SW846 8260B
Xylenes (total)	ND	30	31	ug/L	103		SW846 8260B
	ND	30	32	ug/L	107	3.5	SW846 8260B
cis-1,2-Dichloroethene	ND	10	9.8	ug/L	98		SW846 8260B
	ND	10	10	ug/L	102	4.0	SW846 8260B
trans-1,2-Dichloroethene	ND	10	9.8	ug/L	98		SW846 8260B
	ND	10	10	ug/L	103	4.3	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	89	(75 - 121)
	92	(75 - 121)
1,2-Dichloroethane-d4	90	(63 - 129)
	89	(63 - 129)
Toluene-d8	87	(74 - 115)
	89	(74 - 115)

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MGN5T1AC-MS Matrix.....: WATER
MS Lot-Sample #: A1D070534-001 MGN5T1AD-MSD

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
4-Bromofluorobenzene	105	(66 - 117)
	108	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MGRN91AU-MS Matrix.....: WATER
 MS Lot-Sample #: A1D080599-013 MGRN91AV-MSD
 Date Sampled...: 04/07/11 14:47 Date Received...: 04/08/11
 Prep Date.....: 04/18/11 Analysis Date...: 04/18/11
 Prep Batch #...: 1108237
 Dilution Factor: 1

PARAMETER	PERCENT	RECOVERY	RPD		METHOD
	RECOVERY	LIMITS	RPD	LIMITS	
Chloroform	107	(76 - 118)			SW846 8260B
	108	(76 - 118)	1.3	(0-30)	SW846 8260B
Bromodichloromethane	98	(67 - 120)			SW846 8260B
	97	(67 - 120)	0.64	(0-30)	SW846 8260B
Dibromochloromethane	87	(56 - 118)			SW846 8260B
	88	(56 - 118)	0.14	(0-30)	SW846 8260B
Methylene chloride	97	(63 - 128)			SW846 8260B
	99	(63 - 128)	2.0	(0-30)	SW846 8260B
Carbon disulfide	126	(57 - 147)			SW846 8260B
	130	(57 - 147)	2.8	(0-30)	SW846 8260B
1,1-Dichloroethane	107	(79 - 116)			SW846 8260B
	108	(79 - 116)	1.7	(0-30)	SW846 8260B
2-Butanone	94	(54 - 129)			SW846 8260B
	94	(54 - 129)	0.17	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	84	(51 - 110)			SW846 8260B
	86	(51 - 110)	2.1	(0-30)	SW846 8260B
1,1,2-Trichloroethane	90	(75 - 115)			SW846 8260B
	90	(75 - 115)	0.50	(0-30)	SW846 8260B
trans-1,3-Dichloropropene	86	(46 - 116)			SW846 8260B
	88	(46 - 116)	2.6	(0-30)	SW846 8260B
4-Methyl-2-pentanone	91	(56 - 131)			SW846 8260B
	92	(56 - 131)	0.75	(0-30)	SW846 8260B
2-Hexanone	88	(47 - 139)			SW846 8260B
	88	(47 - 139)	0.30	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	80	(63 - 122)			SW846 8260B
	81	(63 - 122)	0.93	(0-30)	SW846 8260B
Methyl tert-butyl ether (MTBE)	105	(46 - 144)			SW846 8260B
	105	(46 - 144)	0.53	(0-30)	SW846 8260B
1,2-Dibromoethane	91	(74 - 113)			SW846 8260B
	90	(74 - 113)	1.4	(0-30)	SW846 8260B
Isopropylbenzene	110	(68 - 116)			SW846 8260B
	112	(68 - 116)	2.0	(0-30)	SW846 8260B
1,3-Dichlorobenzene	94	(73 - 110)			SW846 8260B
	95	(73 - 110)	0.80	(0-30)	SW846 8260B
1,4-Dichlorobenzene	93	(75 - 110)			SW846 8260B
	94	(75 - 110)	0.22	(0-30)	SW846 8260B
1,2-Dichlorobenzene	102	(75 - 111)			SW846 8260B
	102	(75 - 111)	0.48	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MGRN91AU-MS Matrix.....: WATER
 MS Lot-Sample #: A1D080599-013 MGRN91AV-MSD

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
1,2-Dibromo-3-chloro- propane	91	(32 - 139)			SW846 8260B
	90	(32 - 139)	0.54	(0-30)	SW846 8260B
Methyl tert-butyl ether	105	(46 - 144)			SW846 8260B
	105	(46 - 144)	0.53	(0-30)	SW846 8260B
o-Xylene	105	(76 - 116)			SW846 8260B
	107	(76 - 116)	2.0	(0-30)	SW846 8260B
m-Xylene & p-Xylene	102	(75 - 117)			SW846 8260B
	102	(75 - 117)	0.38	(0-30)	SW846 8260B
Bromobenzene	84	(71 - 116)			SW846 8260B
	85	(71 - 116)	1.2	(0-30)	SW846 8260B
Bromochloromethane	104	(73 - 121)			SW846 8260B
	104	(73 - 121)	0.39	(0-30)	SW846 8260B
n-Butylbenzene	118	(56 - 127)			SW846 8260B
	122	(56 - 127)	3.5	(0-30)	SW846 8260B
sec-Butylbenzene	104	(60 - 119)			SW846 8260B
	107	(60 - 119)	2.7	(0-30)	SW846 8260B
tert-Butylbenzene	89	(61 - 119)			SW846 8260B
	91	(61 - 119)	2.1	(0-30)	SW846 8260B
2-Chlorotoluene	89	(69 - 117)			SW846 8260B
	91	(69 - 117)	2.5	(0-30)	SW846 8260B
4-Chlorotoluene	89	(71 - 116)			SW846 8260B
	90	(71 - 116)	1.9	(0-30)	SW846 8260B
Dibromomethane	99	(77 - 121)			SW846 8260B
	101	(77 - 121)	1.4	(0-30)	SW846 8260B
1,3-Dichloropropane	89	(74 - 118)			SW846 8260B
	90	(74 - 118)	0.21	(0-30)	SW846 8260B
1,1-Dichloropropene	104	(80 - 114)			SW846 8260B
	107	(80 - 114)	3.0	(0-30)	SW846 8260B
p-Isopropyltoluene	114	(64 - 122)			SW846 8260B
	117	(64 - 122)	2.6	(0-30)	SW846 8260B
n-Propylbenzene	93	(64 - 124)			SW846 8260B
	94	(64 - 124)	0.92	(0-30)	SW846 8260B
1,1,1,2-Tetrachloroethane	99	(64 - 118)			SW846 8260B
	101	(64 - 118)	1.6	(0-30)	SW846 8260B
1,2,3-Trichloropropane	80	(67 - 132)			SW846 8260B
	78	(67 - 132)	2.7	(0-30)	SW846 8260B
1,2,4-Trimethylbenzene	104	(67 - 124)			SW846 8260B
	105	(67 - 124)	0.91	(0-30)	SW846 8260B
1,3,5-Trimethylbenzene	99	(63 - 121)			SW846 8260B
	100	(63 - 121)	0.78	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MGRN91AU-MS Matrix.....: WATER
 MS Lot-Sample #: A1D080599-013 MGRN91AV-MSD

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
1,1-Dichloroethene	108	(74 - 135)			SW846 8260B
	113	(74 - 135)	4.6	(0-30)	SW846 8260B
Vinyl chloride	98	(49 - 130)			SW846 8260B
	102	(49 - 130)	3.2	(0-30)	SW846 8260B
1,2-Dichloroethane	99	(68 - 129)			SW846 8260B
	99	(68 - 129)	0.52	(0-30)	SW846 8260B
1,1,1-Trichloroethane	113	(68 - 121)			SW846 8260B
	115	(68 - 121)	1.8	(0-30)	SW846 8260B
Carbon tetrachloride	113	(59 - 129)			SW846 8260B
	113	(59 - 129)	0.04	(0-30)	SW846 8260B
1,2-Dichloropropane	98	(78 - 115)			SW846 8260B
	97	(78 - 115)	1.3	(0-30)	SW846 8260B
Trichloroethene	98	(66 - 120)			SW846 8260B
	98	(66 - 120)	0.36	(0-30)	SW846 8260B
Benzene	102	(72 - 121)			SW846 8260B
	102	(72 - 121)	0.05	(0-30)	SW846 8260B
Tetrachloroethene	91	(70 - 117)			SW846 8260B
	93	(70 - 117)	1.8	(0-30)	SW846 8260B
Toluene	90	(78 - 114)			SW846 8260B
	91	(78 - 114)	0.22	(0-30)	SW846 8260B
Chlorobenzene	96	(80 - 110)			SW846 8260B
	96	(80 - 110)	0.03	(0-30)	SW846 8260B
Ethylbenzene	99	(75 - 116)			SW846 8260B
	100	(75 - 116)	1.7	(0-30)	SW846 8260B
Styrene	108	(71 - 117)			SW846 8260B
	107	(71 - 117)	0.08	(0-30)	SW846 8260B
Xylenes (total)	103	(76 - 116)			SW846 8260B
	104	(76 - 116)	0.95	(0-30)	SW846 8260B
cis-1,2-Dichloroethene	104	(70 - 120)			SW846 8260B
	106	(70 - 120)	2.1	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	107	(80 - 119)			SW846 8260B
	109	(80 - 119)	1.8	(0-30)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	95	(75 - 121)
	95	(75 - 121)
1,2-Dichloroethane-d4	89	(63 - 129)
	83	(63 - 129)
Toluene-d8	83	(74 - 115)
	82	(74 - 115)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MGRN91AU-MS Matrix.....: WATER
MS Lot-Sample #: A1D080599-013 MGRN91AV-MSD

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	106	(66 - 117)
	105	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MGRN91AU-MS Matrix.....: WATER
 MS Lot-Sample #: A1D080599-013 MGRN91AV-MSD
 Date Sampled...: 04/07/11 14:47 Date Received...: 04/08/11
 Prep Date.....: 04/18/11 Analysis Date...: 04/18/11
 Prep Batch #...: 1108237
 Dilution Factor: 1

PARAMETER	SAMPLE	SPIKE	MEASRD	UNITS	PERCNT		METHOD
	AMOUNT	AMT	AMOUNT		RECVRY	RPD	
Chloroform	ND	10	11	ug/L	107		SW846 8260B
	ND	10	11	ug/L	108	1.3	SW846 8260B
Bromodichloromethane		10	9.8	ug/L	98		SW846 8260B
		10	9.7	ug/L	97	0.64	SW846 8260B
Dibromochloromethane		10	8.7	ug/L	87		SW846 8260B
		10	8.8	ug/L	88	0.14	SW846 8260B
Methylene chloride	ND	10	9.7	ug/L	97		SW846 8260B
	ND	10	9.9	ug/L	99	2.0	SW846 8260B
Carbon disulfide		10	13	ug/L	126		SW846 8260B
		10	13	ug/L	130	2.8	SW846 8260B
1,1-Dichloroethane	ND	10	11	ug/L	107		SW846 8260B
	ND	10	11	ug/L	108	1.7	SW846 8260B
2-Butanone	ND	20	19	ug/L	94		SW846 8260B
	ND	20	19	ug/L	94	0.17	SW846 8260B
cis-1,3-Dichloropropene		10	8.4	ug/L	84		SW846 8260B
		10	8.6	ug/L	86	2.1	SW846 8260B
1,1,2-Trichloroethane		10	9.0	ug/L	90		SW846 8260B
		10	9.0	ug/L	90	0.50	SW846 8260B
trans-1,3-Dichloropropene		10	8.6	ug/L	86		SW846 8260B
		10	8.8	ug/L	88	2.6	SW846 8260B
4-Methyl-2-pentanone		20	18	ug/L	91		SW846 8260B
		20	18	ug/L	92	0.75	SW846 8260B
2-Hexanone		20	18	ug/L	88		SW846 8260B
		20	18	ug/L	88	0.30	SW846 8260B
1,1,2,2-Tetrachloroethane		10	8.0	ug/L	80		SW846 8260B
		10	8.1	ug/L	81	0.93	SW846 8260B
Methyl tert-butyl ether (MTBE)		10	10	ug/L	105		SW846 8260B
		10	11	ug/L	105	0.53	SW846 8260B
1,2-Dibromoethane		10	9.1	ug/L	91		SW846 8260B
		10	9.0	ug/L	90	1.4	SW846 8260B
Isopropylbenzene		10	11	ug/L	110		SW846 8260B
		10	11	ug/L	112	2.0	SW846 8260B
1,3-Dichlorobenzene		10	9.4	ug/L	94		SW846 8260B
		10	9.5	ug/L	95	0.80	SW846 8260B
1,4-Dichlorobenzene		10	9.3	ug/L	93		SW846 8260B
		10	9.4	ug/L	94	0.22	SW846 8260B
1,2-Dichlorobenzene		10	10	ug/L	102		SW846 8260B
		10	10	ug/L	102	0.48	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MGRN91AU-MS Matrix.....: WATER
 MS Lot-Sample #: A1D080599-013 MGRN91AV-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,2-Dibromo-3-chloro- propane		10	9.1	ug/L	91		SW846 8260B
		10	9.0	ug/L	90	0.54	SW846 8260B
Methyl tert-butyl ether		10	10	ug/L	105		SW846 8260B
		10	11	ug/L	105	0.53	SW846 8260B
o-Xylene		10	10	ug/L	105		SW846 8260B
		10	11	ug/L	107	2.0	SW846 8260B
m-Xylene & p-Xylene		20	20	ug/L	102		SW846 8260B
		20	20	ug/L	102	0.38	SW846 8260B
Bromobenzene		10	8.4	ug/L	84		SW846 8260B
		10	8.5	ug/L	85	1.2	SW846 8260B
Bromochloromethane		10	10	ug/L	104		SW846 8260B
		10	10	ug/L	104	0.39	SW846 8260B
n-Butylbenzene		10	12	ug/L	118		SW846 8260B
		10	12	ug/L	122	3.5	SW846 8260B
sec-Butylbenzene		10	10	ug/L	104		SW846 8260B
		10	11	ug/L	107	2.7	SW846 8260B
tert-Butylbenzene		10	8.9	ug/L	89		SW846 8260B
		10	9.1	ug/L	91	2.1	SW846 8260B
2-Chlorotoluene		10	8.9	ug/L	89		SW846 8260B
		10	9.1	ug/L	91	2.5	SW846 8260B
4-Chlorotoluene		10	8.9	ug/L	89		SW846 8260B
		10	9.0	ug/L	90	1.9	SW846 8260B
Dibromomethane		10	9.9	ug/L	99		SW846 8260B
		10	10	ug/L	101	1.4	SW846 8260B
1,3-Dichloropropane		10	8.9	ug/L	89		SW846 8260B
		10	9.0	ug/L	90	0.21	SW846 8260B
1,1-Dichloropropene		10	10	ug/L	104		SW846 8260B
		10	11	ug/L	107	3.0	SW846 8260B
p-Isopropyltoluene		10	11	ug/L	114		SW846 8260B
		10	12	ug/L	117	2.6	SW846 8260B
n-Propylbenzene		10	9.3	ug/L	93		SW846 8260B
		10	9.4	ug/L	94	0.92	SW846 8260B
1,1,1,2-Tetrachloroethane		10	9.9	ug/L	99		SW846 8260B
		10	10	ug/L	101	1.6	SW846 8260B
1,2,3-Trichloropropane		10	8.0	ug/L	80		SW846 8260B
		10	7.8	ug/L	78	2.7	SW846 8260B
1,2,4-Trimethylbenzene		10	10	ug/L	104		SW846 8260B
		10	10	ug/L	105	0.91	SW846 8260B
1,3,5-Trimethylbenzene		10	9.9	ug/L	99		SW846 8260B
		10	10	ug/L	100	0.78	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MGRN91AU-MS Matrix.....: WATER
 MS Lot-Sample #: A1D080599-013 MGRN91AV-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	ND	10	11	ug/L	108		SW846 8260B
	ND	10	11	ug/L	113	4.6	SW846 8260B
Vinyl chloride	ND	10	9.8	ug/L	98		SW846 8260B
	ND	10	10	ug/L	102	3.2	SW846 8260B
1,2-Dichloroethane	ND	10	9.9	ug/L	99		SW846 8260B
	ND	10	9.9	ug/L	99	0.52	SW846 8260B
1,1,1-Trichloroethane	ND	10	11	ug/L	113		SW846 8260B
	ND	10	12	ug/L	115	1.8	SW846 8260B
Carbon tetrachloride		10	11	ug/L	113		SW846 8260B
		10	11	ug/L	113	0.04	SW846 8260B
1,2-Dichloropropane		10	9.8	ug/L	98		SW846 8260B
		10	9.7	ug/L	97	1.3	SW846 8260B
Trichloroethene	ND	10	9.8	ug/L	98		SW846 8260B
	ND	10	9.8	ug/L	98	0.36	SW846 8260B
Benzene	ND	10	10	ug/L	102		SW846 8260B
	ND	10	10	ug/L	102	0.05	SW846 8260B
Tetrachloroethene		10	9.1	ug/L	91		SW846 8260B
		10	9.3	ug/L	93	1.8	SW846 8260B
Toluene	ND	10	9.0	ug/L	90		SW846 8260B
	ND	10	9.1	ug/L	91	0.22	SW846 8260B
Chlorobenzene	ND	10	9.6	ug/L	96		SW846 8260B
	ND	10	9.6	ug/L	96	0.03	SW846 8260B
Ethylbenzene	ND	10	9.9	ug/L	99		SW846 8260B
	ND	10	10	ug/L	100	1.7	SW846 8260B
Styrene		10	11	ug/L	108		SW846 8260B
		10	11	ug/L	107	0.08	SW846 8260B
Xylenes (total)	ND	30	31	ug/L	103		SW846 8260B
	ND	30	31	ug/L	104	0.95	SW846 8260B
cis-1,2-Dichloroethene		10	10	ug/L	104		SW846 8260B
		10	11	ug/L	106	2.1	SW846 8260B
trans-1,2-Dichloroethene		10	11	ug/L	107		SW846 8260B
		10	11	ug/L	109	1.8	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(75 - 121)
	95	(75 - 121)
1,2-Dichloroethane-d4	89	(63 - 129)
	83	(63 - 129)
Toluene-d8	83	(74 - 115)
	82	(74 - 115)

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 **Work Order #...:** MGRN91AU-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D080599-013 MGRN91AV-MSD

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	106	(66 - 117)
	105	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MGRMT1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A1D080595-001 MGRMT1AD-MSD
 Date Sampled...: 04/07/11 11:50 Date Received...: 04/08/11
 Prep Date.....: 04/19/11 Analysis Date...: 04/19/11
 Prep Batch #...: 1110095
 Dilution Factor: 1

PARAMETER	PERCENT	RECOVERY	RPD		METHOD
	RECOVERY	LIMITS	RPD	LIMITS	
Chloroform	100	(76 - 118)			SW846 8260B
	100	(76 - 118)	0.0	(0-30)	SW846 8260B
Bromodichloromethane	97	(67 - 120)			SW846 8260B
	99	(67 - 120)	2.1	(0-30)	SW846 8260B
Dibromochloromethane	94	(56 - 118)			SW846 8260B
	98	(56 - 118)	4.1	(0-30)	SW846 8260B
Methylene chloride	99	(63 - 128)			SW846 8260B
	99	(63 - 128)	0.46	(0-30)	SW846 8260B
Carbon disulfide	103	(57 - 147)			SW846 8260B
	104	(57 - 147)	1.4	(0-30)	SW846 8260B
1,1-Dichloroethane	104	(79 - 116)			SW846 8260B
	104	(79 - 116)	0.44	(0-30)	SW846 8260B
2-Butanone	100	(54 - 129)			SW846 8260B
	101	(54 - 129)	0.85	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	94	(51 - 110)			SW846 8260B
	96	(51 - 110)	1.9	(0-30)	SW846 8260B
1,1,2-Trichloroethane	96	(75 - 115)			SW846 8260B
	99	(75 - 115)	2.5	(0-30)	SW846 8260B
trans-1,3-Dichloropropene	99	(46 - 116)			SW846 8260B
	100	(46 - 116)	0.95	(0-30)	SW846 8260B
4-Methyl-2-pentanone	131	(56 - 131)			SW846 8260B
	129	(56 - 131)	0.51	(0-30)	SW846 8260B
2-Hexanone	107	(47 - 139)			SW846 8260B
	109	(47 - 139)	1.4	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	95	(63 - 122)			SW846 8260B
	97	(63 - 122)	2.4	(0-30)	SW846 8260B
Methyl tert-butyl ether (MTBE)	98	(46 - 144)			SW846 8260B
	104	(46 - 144)	5.8	(0-30)	SW846 8260B
1,2-Dibromoethane	96	(74 - 113)			SW846 8260B
	97	(74 - 113)	0.58	(0-30)	SW846 8260B
Isopropylbenzene	101	(68 - 116)			SW846 8260B
	103	(68 - 116)	2.0	(0-30)	SW846 8260B
1,3-Dichlorobenzene	94	(73 - 110)			SW846 8260B
	96	(73 - 110)	2.6	(0-30)	SW846 8260B
1,4-Dichlorobenzene	94	(75 - 110)			SW846 8260B
	95	(75 - 110)	1.4	(0-30)	SW846 8260B
1,2-Dichlorobenzene	93	(75 - 111)			SW846 8260B
	95	(75 - 111)	1.7	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MGRMT1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A1D080595-001 MGRMT1AD-MSD

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
1,2-Dibromo-3-chloro- propane	100	(32 - 139)			SW846 8260B
	99	(32 - 139)	1.5	(0-30)	SW846 8260B
Methyl tert-butyl ether	98	(46 - 144)			SW846 8260B
	104	(46 - 144)	5.8	(0-30)	SW846 8260B
o-Xylene	107	(76 - 116)			SW846 8260B
	105	(76 - 116)	0.88	(0-30)	SW846 8260B
m-Xylene & p-Xylene	95	(75 - 117)			SW846 8260B
	92	(75 - 117)	0.84	(0-30)	SW846 8260B
Bromobenzene	95	(71 - 116)			SW846 8260B
	97	(71 - 116)	2.6	(0-30)	SW846 8260B
Bromochloromethane	98	(73 - 121)			SW846 8260B
	99	(73 - 121)	1.0	(0-30)	SW846 8260B
n-Butylbenzene	104	(56 - 127)			SW846 8260B
	106	(56 - 127)	1.6	(0-30)	SW846 8260B
sec-Butylbenzene	100	(60 - 119)			SW846 8260B
	103	(60 - 119)	3.0	(0-30)	SW846 8260B
tert-Butylbenzene	101	(61 - 119)			SW846 8260B
	104	(61 - 119)	2.4	(0-30)	SW846 8260B
2-Chlorotoluene	98	(69 - 117)			SW846 8260B
	100	(69 - 117)	2.2	(0-30)	SW846 8260B
4-Chlorotoluene	94	(71 - 116)			SW846 8260B
	98	(71 - 116)	4.0	(0-30)	SW846 8260B
Dibromomethane	101	(77 - 121)			SW846 8260B
	102	(77 - 121)	0.27	(0-30)	SW846 8260B
1,3-Dichloropropane	95	(74 - 118)			SW846 8260B
	98	(74 - 118)	2.3	(0-30)	SW846 8260B
1,1-Dichloropropene	102	(80 - 114)			SW846 8260B
	102	(80 - 114)	0.08	(0-30)	SW846 8260B
p-Isopropyltoluene	106	(64 - 122)			SW846 8260B
	108	(64 - 122)	2.5	(0-30)	SW846 8260B
n-Propylbenzene	103	(64 - 124)			SW846 8260B
	107	(64 - 124)	3.8	(0-30)	SW846 8260B
1,1,1,2-Tetrachloroethane	95	(64 - 118)			SW846 8260B
	98	(64 - 118)	2.4	(0-30)	SW846 8260B
1,2,3-Trichloropropane	96	(67 - 132)			SW846 8260B
	100	(67 - 132)	4.1	(0-30)	SW846 8260B
1,2,4-Trimethylbenzene	105	(67 - 124)			SW846 8260B
	108	(67 - 124)	2.2	(0-30)	SW846 8260B
1,3,5-Trimethylbenzene	102	(63 - 121)			SW846 8260B
	104	(63 - 121)	1.6	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MGRMT1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A1D080595-001 MGRMT1AD-MSD

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
1,1-Dichloroethene	106	(74 - 135)			SW846 8260B
	107	(74 - 135)	1.2	(0-30)	SW846 8260B
Vinyl chloride	87	(49 - 130)			SW846 8260B
	86	(49 - 130)	0.88	(0-30)	SW846 8260B
1,2-Dichloroethane	100	(68 - 129)			SW846 8260B
	100	(68 - 129)	0.27	(0-30)	SW846 8260B
1,1,1-Trichloroethane	100	(68 - 121)			SW846 8260B
	102	(68 - 121)	2.7	(0-30)	SW846 8260B
Carbon tetrachloride	103	(59 - 129)			SW846 8260B
	103	(59 - 129)	0.43	(0-30)	SW846 8260B
1,2-Dichloropropane	99	(78 - 115)			SW846 8260B
	100	(78 - 115)	1.3	(0-30)	SW846 8260B
Trichloroethene	97	(66 - 120)			SW846 8260B
	98	(66 - 120)	1.3	(0-30)	SW846 8260B
Benzene	100	(72 - 121)			SW846 8260B
	99	(72 - 121)	0.86	(0-30)	SW846 8260B
Tetrachloroethene	96	(70 - 117)			SW846 8260B
	98	(70 - 117)	2.2	(0-30)	SW846 8260B
Toluene	99	(78 - 114)			SW846 8260B
	97	(78 - 114)	0.62	(0-30)	SW846 8260B
Chlorobenzene	94	(80 - 110)			SW846 8260B
	95	(80 - 110)	0.83	(0-30)	SW846 8260B
Ethylbenzene	106	(75 - 116)			SW846 8260B
	104	(75 - 116)	0.71	(0-30)	SW846 8260B
Styrene	104	(71 - 117)			SW846 8260B
	104	(71 - 117)	0.36	(0-30)	SW846 8260B
Xylenes (total)	99	(76 - 116)			SW846 8260B
	96	(76 - 116)	0.85	(0-30)	SW846 8260B
cis-1,2-Dichloroethene	101	(70 - 120)			SW846 8260B
	100	(70 - 120)	0.55	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	103	(80 - 119)			SW846 8260B
	102	(80 - 119)	1.1	(0-30)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	88	(75 - 121)
	86	(75 - 121)
1,2-Dichloroethane-d4	85	(63 - 129)
	82	(63 - 129)
Toluene-d8	93	(74 - 115)
	92	(74 - 115)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MGRMT1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A1D080595-001 MGRMT1AD-MSD

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	97	(66 - 117)
	97	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MGRMT1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A1D080595-001 MGRMT1AD-MSD
 Date Sampled...: 04/07/11 11:50 Date Received...: 04/08/11
 Prep Date.....: 04/19/11 Analysis Date...: 04/19/11
 Prep Batch #...: 1110095
 Dilution Factor: 1

PARAMETER	SAMPLE	SPIKE	MEASRD	UNITS	PERCNT		METHOD
	AMOUNT	AMT	AMOUNT		RECVRY	RPD	
Chloroform	ND	330	330	ug/L	100		SW846 8260B
	ND	330	330	ug/L	100	0.0	SW846 8260B
Bromodichloromethane	ND	330	320	ug/L	97		SW846 8260B
	ND	330	330	ug/L	99	2.1	SW846 8260B
Dibromochloromethane	ND	330	310	ug/L	94		SW846 8260B
	ND	330	330	ug/L	98	4.1	SW846 8260B
Methylene chloride	52	330	380	ug/L	99		SW846 8260B
	52	330	380	ug/L	99	0.46	SW846 8260B
Carbon disulfide	ND	330	340	ug/L	103		SW846 8260B
	ND	330	350	ug/L	104	1.4	SW846 8260B
1,1-Dichloroethane	ND	330	350	ug/L	104		SW846 8260B
	ND	330	350	ug/L	104	0.44	SW846 8260B
2-Butanone	450	670	1100	ug/L	100		SW846 8260B
	450	670	1100	ug/L	101	0.85	SW846 8260B
cis-1,3-Dichloropropene	ND	330	310	ug/L	94		SW846 8260B
	ND	330	320	ug/L	96	1.9	SW846 8260B
1,1,2-Trichloroethane	ND	330	320	ug/L	96		SW846 8260B
	ND	330	330	ug/L	99	2.5	SW846 8260B
trans-1,3-Dichloropropene	ND	330	330	ug/L	99		SW846 8260B
	ND	330	330	ug/L	100	0.95	SW846 8260B
4-Methyl-2-pentanone	1900	670	2700	ug/L	131		SW846 8260B
	1900	670	2700	ug/L	129	0.51	SW846 8260B
2-Hexanone	ND	670	710	ug/L	107		SW846 8260B
	ND	670	720	ug/L	109	1.4	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	330	320	ug/L	95		SW846 8260B
	ND	330	320	ug/L	97	2.4	SW846 8260B
Methyl tert-butyl ether (MTBE)	ND	330	330	ug/L	98		SW846 8260B
	ND	330	350	ug/L	104	5.8	SW846 8260B
1,2-Dibromoethane	ND	330	320	ug/L	96		SW846 8260B
	ND	330	320	ug/L	97	0.58	SW846 8260B
Isopropylbenzene	ND	330	340	ug/L	101		SW846 8260B
	ND	330	350	ug/L	103	2.0	SW846 8260B
1,3-Dichlorobenzene	ND	330	310	ug/L	94		SW846 8260B
	ND	330	320	ug/L	96	2.6	SW846 8260B
1,4-Dichlorobenzene	ND	330	310	ug/L	94		SW846 8260B
	ND	330	320	ug/L	95	1.4	SW846 8260B
1,2-Dichlorobenzene	ND	330	310	ug/L	93		SW846 8260B
	ND	330	320	ug/L	95	1.7	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MGRMT1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A1D080595-001 MGRMT1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,2-Dibromo-3-chloro- propane	ND	330	330	ug/L	100		SW846 8260B
	ND	330	330	ug/L	99	1.5	SW846 8260B
Methyl tert-butyl ether	ND	330	330	ug/L	98		SW846 8260B
	ND	330	350	ug/L	104	5.8	SW846 8260B
o-Xylene	420	330	780	ug/L	107		SW846 8260B
	420	330	770	ug/L	105	0.88	SW846 8260B
m-Xylene & p-Xylene	1700	670	2300	ug/L	95		SW846 8260B
	1700	670	2300	ug/L	92	0.84	SW846 8260B
Bromobenzene	ND	330	320	ug/L	95		SW846 8260B
	ND	330	320	ug/L	97	2.6	SW846 8260B
Bromochloromethane	ND	330	330	ug/L	98		SW846 8260B
	ND	330	330	ug/L	99	1.0	SW846 8260B
n-Butylbenzene	ND	330	350	ug/L	104		SW846 8260B
	ND	330	350	ug/L	106	1.6	SW846 8260B
sec-Butylbenzene	ND	330	330	ug/L	100		SW846 8260B
	ND	330	340	ug/L	103	3.0	SW846 8260B
tert-Butylbenzene	ND	330	340	ug/L	101		SW846 8260B
	ND	330	350	ug/L	104	2.4	SW846 8260B
2-Chlorotoluene	ND	330	330	ug/L	98		SW846 8260B
	ND	330	330	ug/L	100	2.2	SW846 8260B
4-Chlorotoluene	ND	330	310	ug/L	94		SW846 8260B
	ND	330	330	ug/L	98	4.0	SW846 8260B
Dibromomethane	ND	330	340	ug/L	101		SW846 8260B
	ND	330	340	ug/L	102	0.27	SW846 8260B
1,3-Dichloropropane	ND	330	320	ug/L	95		SW846 8260B
	ND	330	330	ug/L	98	2.3	SW846 8260B
1,1-Dichloropropene	ND	330	340	ug/L	102		SW846 8260B
	ND	330	340	ug/L	102	0.08	SW846 8260B
p-Isopropyltoluene	ND	330	350	ug/L	106		SW846 8260B
	ND	330	360	ug/L	108	2.5	SW846 8260B
n-Propylbenzene	ND	330	340	ug/L	103		SW846 8260B
	ND	330	360	ug/L	107	3.8	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	330	320	ug/L	95		SW846 8260B
	ND	330	330	ug/L	98	2.4	SW846 8260B
1,2,3-Trichloropropane	ND	330	320	ug/L	96		SW846 8260B
	ND	330	330	ug/L	100	4.1	SW846 8260B
1,2,4-Trimethylbenzene	43	330	390	ug/L	105		SW846 8260B
	43	330	400	ug/L	108	2.2	SW846 8260B
1,3,5-Trimethylbenzene	ND	330	350	ug/L	102		SW846 8260B
	ND	330	360	ug/L	104	1.6	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MGRMT1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A1D080595-001 MGRMT1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	ND	330	350	ug/L	106		SW846 8260B
	ND	330	360	ug/L	107	1.2	SW846 8260B
Vinyl chloride	ND	330	300	ug/L	87		SW846 8260B
	ND	330	300	ug/L	86	0.88	SW846 8260B
1,2-Dichloroethane	ND	330	330	ug/L	100		SW846 8260B
	ND	330	330	ug/L	100	0.27	SW846 8260B
1,1,1-Trichloroethane	ND	330	330	ug/L	100		SW846 8260B
	ND	330	340	ug/L	102	2.7	SW846 8260B
Carbon tetrachloride	ND	330	340	ug/L	103		SW846 8260B
	ND	330	340	ug/L	103	0.43	SW846 8260B
1,2-Dichloropropane	ND	330	330	ug/L	99		SW846 8260B
	ND	330	330	ug/L	100	1.3	SW846 8260B
Trichloroethene	ND	330	320	ug/L	97		SW846 8260B
	ND	330	330	ug/L	98	1.3	SW846 8260B
Benzene	70	330	400	ug/L	100		SW846 8260B
	70	330	400	ug/L	99	0.86	SW846 8260B
Tetrachloroethene	ND	330	320	ug/L	96		SW846 8260B
	ND	330	330	ug/L	98	2.2	SW846 8260B
Toluene	480	330	810	ug/L	99		SW846 8260B
	480	330	800	ug/L	97	0.62	SW846 8260B
Chlorobenzene	ND	330	320	ug/L	94		SW846 8260B
	ND	330	320	ug/L	95	0.83	SW846 8260B
Ethylbenzene	560	330	920	ug/L	106		SW846 8260B
	560	330	910	ug/L	104	0.71	SW846 8260B
Styrene	ND	330	350	ug/L	104		SW846 8260B
	ND	330	350	ug/L	104	0.36	SW846 8260B
Xylenes (total)	2100	1000	3100	ug/L	99		SW846 8260B
	2100	1000	3100	ug/L	96	0.85	SW846 8260B
cis-1,2-Dichloroethene	35	330	370	ug/L	101		SW846 8260B
	35	330	370	ug/L	100	0.55	SW846 8260B
trans-1,2-Dichloroethene	ND	330	340	ug/L	103		SW846 8260B
	ND	330	340	ug/L	102	1.1	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	88	(75 - 121)
	86	(75 - 121)
1,2-Dichloroethane-d4	85	(63 - 129)
	82	(63 - 129)
Toluene-d8	93	(74 - 115)
	92	(74 - 115)

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 1D06583 Work Order #...: MGRMT1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A1D080595-001 MGRMT1AD-MSD

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	97	(66 - 117)
	97	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: 1D06583

Matrix.....: WG

Date Sampled...: 04/06/11 10:19 Date Received...: 04/07/11

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
MS Lot-Sample #: A1D070505-010 Prep Batch #... : 1098011							
Arsenic	101	(75 - 125)			SW846 6010B	04/08-04/12/11	MGN1Q1CM
	101	(75 - 125)	0.57	(0-20)	SW846 6010B	04/08-04/12/11	MGN1Q1CN
			Dilution Factor: 1				
Barium	108	(75 - 125)			SW846 6010B	04/08-04/12/11	MGN1Q1AX
	107	(75 - 125)	0.75	(0-20)	SW846 6010B	04/08-04/12/11	MGN1Q1A0
			Dilution Factor: 1				
Cadmium	100	(75 - 125)			SW846 6010B	04/08-04/12/11	MGN1Q1A2
	99	(75 - 125)	0.04	(0-20)	SW846 6010B	04/08-04/12/11	MGN1Q1A3
			Dilution Factor: 1				
Chromium	102	(75 - 125)			SW846 6010B	04/08-04/12/11	MGN1Q1A5
	101	(75 - 125)	0.11	(0-20)	SW846 6010B	04/08-04/12/11	MGN1Q1A6
			Dilution Factor: 1				
Copper	107	(75 - 125)			SW846 6010B	04/08-04/12/11	MGN1Q1A8
	106	(75 - 125)	0.57	(0-20)	SW846 6010B	04/08-04/12/11	MGN1Q1A9
			Dilution Factor: 1				
Iron	NC,MSB	(75 - 125)			SW846 6010B	04/08-04/12/11	MGN1Q1CC
	NC,MSB	(75 - 125)		(0-20)	SW846 6010B	04/08-04/12/11	MGN1Q1CD
			Dilution Factor: 1				
Lead	99	(75 - 125)			SW846 6010B	04/08-04/12/11	MGN1Q1CQ
	98	(75 - 125)	1.0	(0-20)	SW846 6010B	04/08-04/12/11	MGN1Q1CR
			Dilution Factor: 1				
Manganese	NC,MSB	(75 - 125)			SW846 6010B	04/08-04/12/11	MGN1Q1CF
	NC,MSB	(75 - 125)		(0-20)	SW846 6010B	04/08-04/12/11	MGN1Q1CG
			Dilution Factor: 1				
Selenium	103	(75 - 125)			SW846 6010B	04/08-04/12/11	MGN1Q1CU
	102	(75 - 125)	1.0	(0-20)	SW846 6010B	04/08-04/12/11	MGN1Q1CV
			Dilution Factor: 1				
Zinc	106	(75 - 125)			SW846 6010B	04/08-04/12/11	MGN1Q1CJ
	105	(75 - 125)	1.2	(0-20)	SW846 6010B	04/08-04/12/11	MGN1Q1CK
			Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD may be outside control limits because the sample amount was greater than 4X the spike amount.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: 1D06583

Matrix.....: WG

Date Sampled...: 04/06/11 10:19 Date Received...: 04/07/11

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
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MS Lot-Sample #: A1D070505-010 Prep Batch #...: 1098011

Arsenic

ND	2000	2030	ug/L	101			SW846 6010B	04/08-04/12/11	MGN1Q1CM
ND	2000	2020	ug/L	101	0.57		SW846 6010B	04/08-04/12/11	MGN1Q1CN

Dilution Factor: 1

Barium

ND	2000	2300	ug/L	108			SW846 6010B	04/08-04/12/11	MGN1Q1AX
ND	2000	2280	ug/L	107	0.75		SW846 6010B	04/08-04/12/11	MGN1Q1A0

Dilution Factor: 1

Cadmium

ND	50.0	49.8	ug/L	100			SW846 6010B	04/08-04/12/11	MGN1Q1A2
ND	50.0	49.7	ug/L	99	0.04		SW846 6010B	04/08-04/12/11	MGN1Q1A3

Dilution Factor: 1

Chromium

11.8	200	215	ug/L	102			SW846 6010B	04/08-04/12/11	MGN1Q1A5
11.8	200	215	ug/L	101	0.11		SW846 6010B	04/08-04/12/11	MGN1Q1A6

Dilution Factor: 1

Copper

ND	250	267	ug/L	107			SW846 6010B	04/08-04/12/11	MGN1Q1A8
ND	250	265	ug/L	106	0.57		SW846 6010B	04/08-04/12/11	MGN1Q1A9

Dilution Factor: 1

Iron

13000	1000	13900	ug/L				SW846 6010B	04/08-04/12/11	MGN1Q1CC
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Qualifiers: NC,MSB

13000	1000	14300	ug/L				SW846 6010B	04/08-04/12/11	MGN1Q1CD
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Qualifiers: NC,MSB

Dilution Factor: 1

Lead

ND	500	496	ug/L	99			SW846 6010B	04/08-04/12/11	MGN1Q1CQ
ND	500	491	ug/L	98	1.0		SW846 6010B	04/08-04/12/11	MGN1Q1CR

Dilution Factor: 1

Manganese

2270	500	2790	ug/L				SW846 6010B	04/08-04/12/11	MGN1Q1CF
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Qualifiers: NC,MSB

2270	500	2840	ug/L				SW846 6010B	04/08-04/12/11	MGN1Q1CG
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Qualifiers: NC,MSB

Dilution Factor: 1

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: 1D06583

Matrix.....: WG

Date Sampled...: 04/06/11 10:19 Date Received...: 04/07/11

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Selenium									
ND		2000	2060	ug/L	103		SW846 6010B	04/08-04/12/11	MGN1Q1CU
ND		2000	2040	ug/L	102	1.0	SW846 6010B	04/08-04/12/11	MGN1Q1CV

Dilution Factor: 1

Zinc									
ND		500	532	ug/L	106		SW846 6010B	04/08-04/12/11	MGN1Q1CJ
ND		500	525	ug/L	105	1.2	SW846 6010B	04/08-04/12/11	MGN1Q1CK

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD may be outside control limits because the sample amount was greater than 4X the spike amount.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: 1D06583

Matrix.....: WATER

Date Sampled...: 04/05/11 11:51 Date Received...: 04/06/11

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
MS Lot-Sample #: A1D060624-002 Prep Batch #... : 1101018							
Arsenic	94	(75 - 125)			SW846 6010B	04/11-04/13/11	MGMTX1D2
	96	(75 - 125)	2.5	(0-20)	SW846 6010B	04/11-04/13/11	MGMTX1D3
			Dilution Factor: 1				
Copper	105	(75 - 125)			SW846 6010B	04/11-04/13/11	MGMTX1DM
	107	(75 - 125)	2.1	(0-20)	SW846 6010B	04/11-04/13/11	MGMTX1DN
			Dilution Factor: 1				
Iron	NC,MSB	(75 - 125)			SW846 6010B	04/11-04/13/11	MGMTX1DQ
	NC,MSB	(75 - 125)		(0-20)	SW846 6010B	04/11-04/13/11	MGMTX1DR
			Dilution Factor: 1				
Lead	94	(75 - 125)			SW846 6010B	04/11-04/13/11	MGMTX1D5
	97	(75 - 125)	2.7	(0-20)	SW846 6010B	04/11-04/13/11	MGMTX1D6
			Dilution Factor: 1				
Manganese	96	(75 - 125)			SW846 6010B	04/11-04/13/11	MGMTX1DU
	100	(75 - 125)	3.1	(0-20)	SW846 6010B	04/11-04/13/11	MGMTX1DV
			Dilution Factor: 1				
Selenium	100	(75 - 125)			SW846 6010B	04/11-04/13/11	MGMTX1D8
	102	(75 - 125)	2.3	(0-20)	SW846 6010B	04/11-04/13/11	MGMTX1D9
			Dilution Factor: 1				
Zinc	104	(75 - 125)			SW846 6010B	04/11-04/13/11	MGMTX1DX
	108	(75 - 125)	3.4	(0-20)	SW846 6010B	04/11-04/13/11	MGMTX1D0
			Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD may be outside control limits because the sample amount was greater than 4X the spike amount.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: 1D06583

Matrix.....: WATER

Date Sampled...: 04/05/11 11:51 Date Received...: 04/06/11

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
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MS Lot-Sample #: A1D060624-002 Prep Batch #...: 1101018

Arsenic

ND	2000	1900	ug/L	94			SW846 6010B	04/11-04/13/11	MGMTX1D2
ND	2000	1900	ug/L	96	2.5		SW846 6010B	04/11-04/13/11	MGMTX1D3

Dilution Factor: 1

Copper

ND	250	270	ug/L	105			SW846 6010B	04/11-04/13/11	MGMTX1DM
ND	250	270	ug/L	107	2.1		SW846 6010B	04/11-04/13/11	MGMTX1DN

Dilution Factor: 1

Iron

5100	1000	6000	ug/L				SW846 6010B	04/11-04/13/11	MGMTX1DQ
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Qualifiers: NC,MSB

5100	1000	6200	ug/L				SW846 6010B	04/11-04/13/11	MGMTX1DR
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Qualifiers: NC,MSB

Dilution Factor: 1

Lead

ND	500	470	ug/L	94			SW846 6010B	04/11-04/13/11	MGMTX1D5
ND	500	480	ug/L	97	2.7		SW846 6010B	04/11-04/13/11	MGMTX1D6

Dilution Factor: 1

Manganese

140	500	620	ug/L	96			SW846 6010B	04/11-04/13/11	MGMTX1DU
140	500	640	ug/L	100	3.1		SW846 6010B	04/11-04/13/11	MGMTX1DV

Dilution Factor: 1

Selenium

ND	2000	2000	ug/L	100			SW846 6010B	04/11-04/13/11	MGMTX1D8
ND	2000	2000	ug/L	102	2.3		SW846 6010B	04/11-04/13/11	MGMTX1D9

Dilution Factor: 1

Zinc

ND	500	520	ug/L	104			SW846 6010B	04/11-04/13/11	MGMTX1DX
ND	500	540	ug/L	108	3.4		SW846 6010B	04/11-04/13/11	MGMTX1D0

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD may be outside control limits because the sample amount was greater than 4X the spike amount.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: 1D06583

Matrix.....: WG

Date Sampled...: 04/07/11 09:45 Date Received...: 04/08/11

PARAMETER	PERCENT RECOVERY	RPD	PREPARATION-	PREP
	RECOVERY LIMITS	RPD LIMITS	ANALYSIS DATE	BATCH #
Chloride		WO#: MGN1Q1AF-MS/MGN1Q1AG-MSD	MS Lot-Sample #: A1D070505-010	
	103 (80 - 120)	SW846 9056A	04/08/11	1101300
	104 (80 - 120)	0.63 (0-20) SW846 9056A	04/08/11	1101300
	Dilution Factor: 1			
Fluoride		WO#: MGN1Q1AJ-MS/MGN1Q1AK-MSD	MS Lot-Sample #: A1D070505-010	
	82 (80 - 120)	SW846 9056A	04/08/11	1101296
	84 (80 - 120)	1.5 (0-20) SW846 9056A	04/08/11	1101296
	Dilution Factor: 1			
Nitrate as N		WO#: MGN1Q1AM-MS/MGN1Q1AN-MSD	MS Lot-Sample #: A1D070505-010	
	113 (80 - 120)	SW846 9056A	04/07/11	1098196
	117 (80 - 120)	2.8 (0-20) SW846 9056A	04/08/11	1098196
	Dilution Factor: 1			
Sulfate		WO#: MGN1Q1AQ-MS/MGN1Q1AR-MSD	MS Lot-Sample #: A1D070505-010	
	62 N (80 - 120)	SW846 9056A	04/08/11	1101309
	53 N (80 - 120)	2.0 (0-20) SW846 9056A	04/08/11	1101309
	Dilution Factor: 2			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: 1D06583

Matrix.....: WG

Date Sampled...: 04/07/11 09:45 Date Received...: 04/08/11

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride			WO#: MGN1Q1AF-MS/MGN1Q1AG-MSD MS Lot-Sample #: A1D070505-010						
	58.6	50.0	110	mg/L	103		SW846 9056A	04/08/11	1101300
	58.6	50.0	111	mg/L	104	0.63	SW846 9056A	04/08/11	1101300
	Dilution Factor: 1								
Fluoride			WO#: MGN1Q1AJ-MS/MGN1Q1AK-MSD MS Lot-Sample #: A1D070505-010						
	ND	2.5	2.5	mg/L	82		SW846 9056A	04/08/11	1101296
	ND	2.5	2.5	mg/L	84	1.5	SW846 9056A	04/08/11	1101296
	Dilution Factor: 1								
Nitrate as N			WO#: MGN1Q1AM-MS/MGN1Q1AN-MSD MS Lot-Sample #: A1D070505-010						
	ND	2.5	2.8	mg/L	113		SW846 9056A	04/07/11	1098196
	ND	2.5	2.9	mg/L	117	2.8	SW846 9056A	04/08/11	1098196
	Dilution Factor: 1								
Sulfate			WO#: MGN1Q1AQ-MS/MGN1Q1AR-MSD MS Lot-Sample #: A1D070505-010						
	193	50.0	223 N	mg/L	62		SW846 9056A	04/08/11	1101309
	193	50.0	219 N	mg/L	53	2.0	SW846 9056A	04/08/11	1101309
	Dilution Factor: 2								

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: 1D06583

Matrix.....: WG

Date Sampled...: 04/05/11 16:26 Date Received...: 04/06/11

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	111	Work Order #...: MGMJ71AU (80 - 120)	SW846 9056A	MS Lot-Sample #: A1D060583-006 04/07/11	1098191
		Dilution Factor: 1			
Chloride	98	Work Order #...: MGQ541AW (80 - 120)	SW846 9056A	MS Lot-Sample #: A1D080539-004 04/09/11	1101300
		Dilution Factor: 1			
Fluoride	101	Work Order #...: MGMJ71AT (80 - 120)	SW846 9056A	MS Lot-Sample #: A1D060583-006 04/07/11	1098186
		Dilution Factor: 1			
Fluoride	92	Work Order #...: MGQ541AV (80 - 120)	SW846 9056A	MS Lot-Sample #: A1D080539-004 04/09/11	1101296
		Dilution Factor: 1			
Nitrate as N	99	Work Order #...: MGMJ71AV (80 - 120)	SW846 9056A	MS Lot-Sample #: A1D060583-006 04/07/11	1098196
		Dilution Factor: 1			
Nitrate as N	91	Work Order #...: MGQ541AX (80 - 120)	SW846 9056A	MS Lot-Sample #: A1D080539-004 04/09/11	1101305
		Dilution Factor: 1			
Sulfate	98	Work Order #...: MGMJ71AW (80 - 120)	SW846 9056A	MS Lot-Sample #: A1D060583-006 04/07/11	1098198
		Dilution Factor: 1			
Sulfate	88	Work Order #...: MGQ541A0 (80 - 120)	SW846 9056A	MS Lot-Sample #: A1D080539-004 04/09/11	1101309
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: 1D06583

Matrix.....: WG

Date Sampled...: 04/05/11 16:26 Date Received...: 04/06/11

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	29.1	50.0	84.6	mg/L	111	SW846 9056A	04/07/11	1098191
			Work Order #...: MGMJ71AU MS Lot-Sample #: A1D060583-006					
			Dilution Factor: 1					
Chloride	5.9	50.0	54.8	mg/L	98	SW846 9056A	04/09/11	1101300
			Work Order #...: MGQ541AW MS Lot-Sample #: A1D080539-004					
			Dilution Factor: 1					
Fluoride	ND	2.5	2.7	mg/L	101	SW846 9056A	04/07/11	1098186
			Work Order #...: MGMJ71AT MS Lot-Sample #: A1D060583-006					
			Dilution Factor: 1					
Fluoride	ND	2.5	3.0	mg/L	92	SW846 9056A	04/09/11	1101296
			Work Order #...: MGQ541AV MS Lot-Sample #: A1D080539-004					
			Dilution Factor: 1					
Nitrate as N	ND	2.5	2.5	mg/L	99	SW846 9056A	04/07/11	1098196
			Work Order #...: MGMJ71AV MS Lot-Sample #: A1D060583-006					
			Dilution Factor: 1					
Nitrate as N	ND	2.5	2.3	mg/L	91	SW846 9056A	04/09/11	1101305
			Work Order #...: MGQ541AX MS Lot-Sample #: A1D080539-004					
			Dilution Factor: 1					
Sulfate	10.4	50.0	59.6	mg/L	98	SW846 9056A	04/07/11	1098198
			Work Order #...: MGMJ71AW MS Lot-Sample #: A1D060583-006					
			Dilution Factor: 1					
Sulfate	ND	50.0	44.0	mg/L	88	SW846 9056A	04/09/11	1101309
			Work Order #...: MGQ541A0 MS Lot-Sample #: A1D080539-004					
			Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: 1D06583

Matrix.....: WATER

Date Sampled...: 04/06/11 15:19 Date Received...: 04/07/11

PARAMETER	PERCENT RECOVERY	RPD	PREPARATION-		PREP
	RECOVERY LIMITS	RPD LIMITS	METHOD	ANALYSIS DATE	BATCH #
Chloride		WO#: MGPAF1AM-MS/MGPAF1AN-MSD	MS Lot-Sample #:	A1D070566-001	
	102 (80 - 120)		SW846 9056A	04/08/11	1101106
	100 (80 - 120)	1.4 (0-20)	SW846 9056A	04/08/11	1101106
	Dilution Factor: 1				
Chloride		WO#: MGPA71AN-MS/MGPA71AP-MSD	MS Lot-Sample #:	A1D070566-009	
	105 (80 - 120)		SW846 9056A	04/08/11	1101106
	104 (80 - 120)	0.71 (0-20)	SW846 9056A	04/08/11	1101106
	Dilution Factor: 1				
Chloride		WO#: MGPC1CP-MS/MGPC1CQ-MSD	MS Lot-Sample #:	A1D070566-011	
	95 (80 - 120)		SW846 9056A	04/08/11	1101106
	96 (80 - 120)	1.1 (0-20)	SW846 9056A	04/08/11	1101106
	Dilution Factor: 1				
Fluoride		WO#: MGPAF1AK-MS/MGPAF1AL-MSD	MS Lot-Sample #:	A1D070566-001	
	99 (80 - 120)		SW846 9056A	04/08/11	1101103
	98 (80 - 120)	0.53 (0-20)	SW846 9056A	04/08/11	1101103
	Dilution Factor: 1				
Fluoride		WO#: MGPA71AK-MS/MGPA71AL-MSD	MS Lot-Sample #:	A1D070566-009	
	94 (80 - 120)		SW846 9056A	04/08/11	1101103
	93 (80 - 120)	0.95 (0-20)	SW846 9056A	04/08/11	1101103
	Dilution Factor: 1				
Nitrate as N		WO#: MGPAF1AU-MS/MGPAF1AV-MSD	MS Lot-Sample #:	A1D070566-001	
	94 (80 - 120)		SW846 9056A	04/08/11	1101114
	94 (80 - 120)	0.50 (0-20)	SW846 9056A	04/08/11	1101114
	Dilution Factor: 1				
Nitrate as N		WO#: MGPA71A0-MS/MGPA71A1-MSD	MS Lot-Sample #:	A1D070566-009	
	95 (80 - 120)		SW846 9056A	04/08/11	1101114
	94 (80 - 120)	0.76 (0-20)	SW846 9056A	04/08/11	1101114
	Dilution Factor: 1				
Nitrate as N		WO#: MGPC1CW-MS/MGPC1CX-MSD	MS Lot-Sample #:	A1D070566-011	
	92 (80 - 120)		SW846 9056A	04/08/11	1101114
	94 (80 - 120)	2.5 (0-20)	SW846 9056A	04/08/11	1101114
	Dilution Factor: 1				
Sulfate		WO#: MGPAF1A0-MS/MGPAF1A1-MSD	MS Lot-Sample #:	A1D070566-001	
	113 (80 - 120)		SW846 9056A	04/08/11	1101119
	112 (80 - 120)	0.57 (0-20)	SW846 9056A	04/08/11	1101119
	Dilution Factor: 1				

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: 1D06583

Matrix.....: WATER

Date Sampled...: 04/06/11 15:19 Date Received...: 04/07/11

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Sulfate			WO#: MG	PCC1C2-MS/MG	PCC1C3-MSD	MS Lot-Sample #:	A1D070566-011
	90	(80 - 120)			SW846 9056A	04/08/11	1101119
	92	(80 - 120)	1.3	(0-20)	SW846 9056A	04/08/11	1101119
			Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: 1D06583

Matrix.....: WATER

Date Sampled...: 04/06/11 15:19 Date Received...: 04/07/11

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride			WO#: MGPAF1AM-MS/MGPAF1AN-MSD MS Lot-Sample #: A1D070566-001						
	1.4	50.0	52.3	mg/L	102		SW846 9056A	04/08/11	1101106
	1.4	50.0	51.6	mg/L	100	1.4	SW846 9056A	04/08/11	1101106
	Dilution Factor: 1								
Chloride			WO#: MGPA71AN-MS/MGPA71AP-MSD MS Lot-Sample #: A1D070566-009						
	6.7	50.0	59.4	mg/L	105		SW846 9056A	04/08/11	1101106
	6.7	50.0	58.9	mg/L	104	0.71	SW846 9056A	04/08/11	1101106
	Dilution Factor: 1								
Chloride			WO#: MGPAF1AK-MS/MGPAF1AL-MSD MS Lot-Sample #: A1D070566-001						
	ND	50.0	47.5	mg/L	95		SW846 9056A	04/08/11	1101106
	ND	50.0	48.0	mg/L	96	1.1	SW846 9056A	04/08/11	1101106
	Dilution Factor: 1								
Fluoride			WO#: MGPAF1AK-MS/MGPAF1AL-MSD MS Lot-Sample #: A1D070566-001						
	ND	2.5	2.6	mg/L	99		SW846 9056A	04/08/11	1101103
	ND	2.5	2.6	mg/L	98	0.53	SW846 9056A	04/08/11	1101103
	Dilution Factor: 1								
Fluoride			WO#: MGPA71AK-MS/MGPA71AL-MSD MS Lot-Sample #: A1D070566-009						
	ND	2.5	2.7	mg/L	94		SW846 9056A	04/08/11	1101103
	ND	2.5	2.7	mg/L	93	0.95	SW846 9056A	04/08/11	1101103
	Dilution Factor: 1								
Nitrate as N			WO#: MGPAF1AU-MS/MGPAF1AV-MSD MS Lot-Sample #: A1D070566-001						
	ND	2.5	2.4	mg/L	94		SW846 9056A	04/08/11	1101114
	ND	2.5	2.4	mg/L	94	0.50	SW846 9056A	04/08/11	1101114
	Dilution Factor: 1								
Nitrate as N			WO#: MGPA71A0-MS/MGPA71A1-MSD MS Lot-Sample #: A1D070566-009						
	ND	2.5	2.4	mg/L	95		SW846 9056A	04/08/11	1101114
	ND	2.5	2.4	mg/L	94	0.76	SW846 9056A	04/08/11	1101114
	Dilution Factor: 1								
Nitrate as N			WO#: MGPAF1AU-MS/MGPAF1AV-MSD MS Lot-Sample #: A1D070566-001						
	ND	2.5	2.3	mg/L	92		SW846 9056A	04/08/11	1101114
	ND	2.5	2.3	mg/L	94	2.5	SW846 9056A	04/08/11	1101114
	Dilution Factor: 1								
Sulfate			WO#: MGPAF1A0-MS/MGPAF1A1-MSD MS Lot-Sample #: A1D070566-001						
	101	50.0	158	mg/L	113		SW846 9056A	04/08/11	1101119
	101	50.0	157	mg/L	112	0.57	SW846 9056A	04/08/11	1101119
	Dilution Factor: 1								

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: 1D06583

Matrix.....: WATER

Date Sampled...: 04/06/11 15:19 Date Received...: 04/07/11

<u>PARAMETER</u>	<u>SAMPLE AMOUNT</u>	<u>SPIKE AMT</u>	<u>MEASRD AMOUNT</u>	<u>UNITS</u>	<u>PERCNT RECVRY</u>	<u>RPD</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Sulfate			WO#: MGPCC1C2-MS/MGPCC1C3-MSD MS Lot-Sample #: A1D070566-011						
	ND	50.0	45.2	mg/L	90		SW846 9056A	04/08/11	1101119
	ND	50.0	45.8	mg/L	92	1.3	SW846 9056A	04/08/11	1101119
			Dilution Factor: 1						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A1D060583

Work Order #...: MGPA1-SMP
MGPA1-DUP

Matrix.....: WATER

Date Sampled...: 04/06/11 15:31

Date Received...: 04/07/11

<u>PARAM</u>	<u>RESULT</u>	<u>DUPLICATE</u> <u>RESULT</u>	<u>UNITS</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>LIMIT</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Fluoride	ND	ND	mg/L	12	(0-20)	SD Lot-Sample #: A1D070566-005 SW846 9056A	04/08/11	1101103
			Dilution Factor: 1					
Chloride	1.1	1.1	mg/L	0.45	(0-20)	SD Lot-Sample #: A1D070566-005 SW846 9056A	04/08/11	1101106
			Dilution Factor: 1					
Nitrate as N	ND	ND	mg/L	7.3	(0-20)	SD Lot-Sample #: A1D070566-005 SW846 9056A	04/08/11	1101114
			Dilution Factor: 1					
Sulfate	13.4	13.3	mg/L	0.22	(0-20)	SD Lot-Sample #: A1D070566-005 SW846 9056A	04/08/11	1101119
			Dilution Factor: 1					

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A1D060583

Work Order #...: MGPA7-SMP
MGPA7-DUP

Matrix.....: WATER

Date Sampled...: 04/06/11 11:03

Date Received...: 04/07/11

<u>PARAM</u>	<u>RESULT</u>	<u>DUPLICATE</u> <u>RESULT</u>	<u>UNITS</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>LIMIT</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Fluoride	ND	ND	mg/L	0.081	(0-20)	SD Lot-Sample #: A1D070566-009 SW846 9056A	04/08/11	1101103
			Dilution Factor: 1					
Chloride	6.7	6.8	mg/L	0.40	(0-20)	SD Lot-Sample #: A1D070566-009 SW846 9056A	04/08/11	1101106
			Dilution Factor: 1					
Nitrate as N	ND	ND	mg/L	0	(0-20)	SD Lot-Sample #: A1D070566-009 SW846 9056A	04/08/11	1101114
			Dilution Factor: 1					

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A1D060583

Work Order #...: MGPCP-SMP
MGPCP-DUP

Matrix.....: WATER

Date Sampled...: 04/06/11 09:22

Date Received...: 04/07/11

<u>PARAM</u>	<u>RESULT</u>	<u>DUPLICATE</u> <u>RESULT</u>	<u>UNITS</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>LIMIT</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Chloride	1.4	1.3	mg/L	1.8	(0-20)	SD Lot-Sample #: A1D070566-013 SW846 9056A	04/08/11	1101106
			Dilution Factor: 1					
Nitrate as N	ND	ND	mg/L	0	(0-20)	SD Lot-Sample #: A1D070566-013 SW846 9056A	04/08/11	1101114
			Dilution Factor: 1					
Sulfate	25.2	25.2	mg/L	0.0	(0-20)	SD Lot-Sample #: A1D070566-013 SW846 9056A	04/08/11	1101119
			Dilution Factor: 1					

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A1D060583

Work Order #...: MGN1Q-SMP
MGN1Q-DUP

Matrix.....: WG

Date Sampled...: 04/06/11 10:19

Date Received...: 04/07/11

<u>PARAM</u>	<u>RESULT</u>	<u>DUPLICATE</u> <u>RESULT</u>	<u>UNITS</u>	<u>RPD</u> <u>RPD</u>	<u>LIMIT</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Total Dissolved Solids	860	881	mg/L	2.4	(0-20)	SM18 2540 C	04/11-04/12/11	1101317
SD Lot-Sample #: A1D070505-010								
Dilution Factor: 1								

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A1D060583

Work Order #...: MGQ45-SMP
MGQ45-DUP

Matrix.....: WATER

Date Sampled...: 04/07/11 10:59

Date Received...: 04/08/11

<u>PARAM</u>	<u>RESULT</u>	<u>DUPLICATE</u> <u>RESULT</u>	<u>UNITS</u>	<u>RPD</u>	<u>RPD</u> <u>LIMIT</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Total Dissolved Solids	550	560	mg/L	2.4	(0-20)	SM18 2540 C	SD Lot-Sample #: A1D080529-001 04/12-04/13/11	1102235

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A1D060583

Work Order #...: MGQ5N-SMP
MGQ5N-DUP

Matrix.....: WATER

Date Sampled...: 04/07/11 10:59

Date Received...: 04/08/11

<u>PARAM</u>	<u>RESULT</u>	<u>DUPLICATE</u> <u>RESULT</u>	<u>UNITS</u>	<u>RPD</u>	<u>RPD</u> <u>LIMIT</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Total Dissolved Solids	550	550	mg/L	0.0	(0-20)	SM18 2540 C	04/12-04/13/11	1102235
Dilution Factor: 1							SD Lot-Sample #: A1D080529-002	

CONESTOGA-ROVERS & ASSOCIATES
 6520 Corporate Drive
 Indianapolis, Indiana 46278
 (317) 291-7007 phone
 (317) 328-2666 fax

SHIPPED TO
 (Laboratory Name):
 Test America, North Canton OH
REFERENCE NUMBER:
 070102-03

PROJECT NAME:
 CAT, Marpleton IL

CHAIN-OF-CUSTODY RECORD
SAMPLERS SIGNATURE: *[Signature]*
PRINTED NAME: Nicholas Hill

SEQ. No.	DATE	TIME	SAMPLE IDENTIFICATION No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS	REMARKS
	4/5/11	1030	SW - 070102 - 040511 - NH - 001	WATER	1	X	
	1/30		SW - 070102 - 040511 - NH - 002		2	X	
	1/40		GW - 070102 - 040511 - NH - 001		2	X	
	1/35				2	X	
	1/30				2	X	
	4/5/11	1630	GW - 070102 - 040511 - NH - 004	WATER	2	X	
TOTAL NUMBER OF CONTAINERS					10		

RELINQUISHED BY: *[Signature]* **DATE:** 4/5/11 **RECEIVED BY:** *[Signature]* **DATE:** 4/5/11
RELINQUISHED BY: *[Signature]* **DATE:** 1/30 **RECEIVED BY:** *[Signature]* **DATE:** 1/30
RELINQUISHED BY: *[Signature]* **DATE:** 1/35 **RECEIVED BY:** *[Signature]* **DATE:** 1/35
RELINQUISHED BY: *[Signature]* **DATE:** 1/30 **RECEIVED BY:** *[Signature]* **DATE:** 1/30
RELINQUISHED BY: *[Signature]* **DATE:** 4/5/11 **RECEIVED BY:** *[Signature]* **DATE:** 4/5/11

METHOD OF SHIPMENT: FedEx

TRACKING No. 8724 1431 7609

White - Fully Executed Copy
 Yellow - Receiving Laboratory Copy
 Pink - Shipper Copy
 Goldenrod - Sampler Copy

SAMPLE TEAM:
 Nick Hill
 Nade Ziegler

RECEIVED FOR LABORATORY BY: *[Signature]* **DATE:** 4/5/11
TEST 2425
 America

TestAmerica Cooler Receipt Form/Narrative

Lot Number: A0060583

North Canton Facility

Client CRA Project CAT By: Mathew [Signature]
 Cooler Received on 6 APR 2011 Opened on 6 APR 2011 (Signature)

FedEx UPS DHL FAS Stetson Client Drop Off TestAmerica Courier Other

TestAmerica Cooler # _____ Multiple Coolers Foam Box Client Cooler Other

1. Were custody seals on the outside of the cooler(s)? Yes No Intact? Yes No NA

If YES, Quantity _____ Quantity Unsalvageable _____
 Were custody seals on the outside of cooler(s) signed and dated? Yes No NA
 Were custody seals on the bottle(s)? Yes No

If YES, are there any exceptions? _____
 2. Shippers' packing slip attached to the cooler(s)? Yes No

3. Did custody papers accompany the sample(s)? Yes No Relinquished by client? Yes No

4. Were the custody papers signed in the appropriate place? Yes No

5. Packing material used: Bubble Wrap Foam None Other PLASTIC BAGS

6. Cooler temperature upon receipt 0.0 °C See back of form for multiple coolers/temps

METHOD: IR Other
 COOLANT: Wet Ice Blue Ice Dry Ice Water None

7. Did all bottles arrive in good condition (Unbroken)? Yes No

8. Could all bottle labels be reconciled with the COC? Yes No

9. Were sample(s) at the correct pH upon receipt? Yes No NA

10. Were correct bottle(s) used for the test(s) indicated? Yes No

11. Were air bubbles >6 mm in any VOA vials? Yes No NA

12. Sufficient quantity received to perform indicated analyses? Yes No

13. Was a trip blank present in the cooler(s)? Yes No Were VOAs on the COC? Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) METALS LITERS were further preserved in Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 100110-HNO₃; Sulfuric Acid Lot# 110410-H₂SO₄; Sodium Hydroxide Lot# 100108-NaOH; Hydrochloric Acid Lot# 002006-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH₃COO)₂ZN/NaOH. What time was preservative added to sample(s)? 1330 A.M.

Client ID	pH	Date	Initials
<u>001</u>	<u>6.2</u>	<u>6 APR 2011</u>	<u>MAF</u>
<u>002</u>	<u>6.2</u>		
<u>003</u>	<u>6.2</u>		
<u>004</u>	<u>6.2</u>		
<u>ref 4/6</u>			

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

<u>Client ID</u>	<u>pH</u>	<u>Date</u>	<u>Initials</u>
<u>Cooler #</u>	<u>Temp. °C</u>	<u>Method</u>	<u>Coolant</u>

Discrepancies Cont'd:

CONESTOGA-ROVERS & ASSOCIATES
 6520 Corporate Drive
 Indianapolis, Indiana 46278
 (317) 291-7007 phone
 (317) 328-2666 fax

SHIPPED TO
 (Laboratory Name):
 Test America, North Canton, OH
REFERENCE NUMBER:
 070102-03

PROJECT NAME:
 CAT Wapleton, IL

CHAIN-OF-CUSTODY RECORD
SAMPLERS SIGNATURE: [Signature]
PRINTED NAME: Nicholas 1411

SEQ. No.	DATE	TIME	SAMPLE IDENTIFICATION No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS	REMARKS
	4/5/11	1440	GW-070102-040511-NH-001	WATER	3	X	
		1435			3	X	
		1430			3	X	
	4/5/11	1020	GW-070102-040511-NH-004	WATER	3	X	
	4/5/11	1130	TB-070102-040511-NH-001	WATER	1	X	
	4/6/11	840	GW-070102-040611-NH-005		5	X X X X	
		852			5	X X X X	
		1010			5	X X X X	
		1015			5	X X X X	
		1019			13	X X X X X	MS/MSD
		1104			5	X X X X	
		1145			5	X X X X	
		1352			5	X X X X	
		1530			5	X X X X	
	4/6/11	1541	GW-070102-040611-NH-014	WATER	5	X X X X	
TOTAL NUMBER OF CONTAINERS					71		

RELINQUISHED BY: [Signature] **DATE:** 4/6/11 **RECEIVED BY:** [Signature] **DATE:** 4/6/11
RELINQUISHED BY: [Signature] **DATE:** 1730 **RECEIVED BY:** [Signature] **DATE:** 1730
RELINQUISHED BY: [Signature] **DATE:** [] **RECEIVED BY:** [Signature] **DATE:** []
RELINQUISHED BY: [Signature] **DATE:** [] **RECEIVED BY:** [Signature] **DATE:** []

METHOD OF SHIPMENT: Fedex
TRACKING No. 8724 1431 7594

White -Fully Executed Copy
Yellow -Receiving Laboratory Copy
Pink -Shipper Copy
Goldenrod -Sampler Copy

SAMPLE TEAM:
 Nick 1411
 Nick Ziegler

RECEIVED FOR LABORATORY BY: [Signature] **DATE:** 7 APR 2011 **TIME:** 0930
TEST 2424
 AMERICA

TestAmerica Cooler Receipt Form/Narrative Lot Number: AID 070505
North Canton Facility

Client CRA Project CAT By: Matthew J. Fenwick
 Cooler Received on 7 APR 2011 Opened on 7 APR 2011 (Signature)

FedEx UPS DHL FAS Stetson Client Drop Off TestAmerica Courier Other
 TestAmerica Cooler # _____ Multiple Coolers Foam Box Client Cooler Other _____

1. Were custody seals on the outside of the cooler(s)? Yes No Intact? Yes No NA
 If YES, Quantity _____ Quantity Unsalvageable _____
 Were custody seals on the outside of cooler(s) signed and dated? Yes No NA
 Were custody seals on the bottle(s)? Yes No
 If YES, are there any exceptions? _____
 2. Shippers' packing slip attached to the cooler(s)? Yes No
 3. Did custody papers accompany the sample(s)? Yes No Relinquished by client? Yes No
 4. Were the custody papers signed in the appropriate place? Yes No
 5. Packing material used: Bubble Wrap Foam None Other PLASTIC BAG
 6. Cooler temperature upon receipt 0.2 °C See back of form for multiple coolers/temps
 METHOD: IR Other
 COOLANT: Wet Ice Blue Ice Dry Ice Water None
 7. Did all bottles arrive in good condition (Unbroken)? Yes No
 8. Could all bottle labels be reconciled with the COC? Yes No
 9. Were sample(s) at the correct pH upon receipt? Yes No NA
 10. Were correct bottle(s) used for the test(s) indicated? Yes No
 11. Were air bubbles >6 mm in any VOA vials? Yes No NA
 12. Sufficient quantity received to perform indicated analyses? Yes No
 13. Was a trip blank present in the cooler(s)? Yes No Were VOAs on the COC? Yes No
- Contacted PM ALM Date 4/7/11 by ALM via Verbal Voice Mail Other
 Concerning #14

14. CHAIN OF CUSTODY

The following discrepancies occurred:
Received metals bottle for OOS thru 014 not marked on COC. Will log for metals per email.

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 100110-HNO₃; Sulfuric Acid Lot# 110410-H₂SO₄; Sodium Hydroxide Lot# 100108 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH₃COO)₂ZN/NaOH. What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials
1 5	22	7 APR 2011	MAF
2 6	22		
3 7	22		
4 8	22		
5 9	22		
10	22		
11	22		
12	22		

TestAmerica Cooler Receipt Form/Narrative			
North Canton Facility			
<u>Client ID</u>	<u>pH</u>	<u>Date</u>	<u>Initials</u>
13	7.2	7 Apr 2011	MAF
14	7.2	I	I
<u>Cooler #</u>	<u>Temp. °C</u>	<u>Method</u>	<u>Coolant</u>
Discrepancies Cont'd:			

CONESTOGA-ROVERS & ASSOCIATES
 6520 Corporate Drive
 Indianapolis, Indiana 46278
 (317) 291-7007 phone
 (317) 328-2666 fax

SHIPPED TO
 (Laboratory Name):
West America, North Center, IL

CHAIN-OF-CUSTODY RECORD

REFERENCE NUMBER:
 070102-03

PROJECT NAME:
 CAT, Mapleton, IL

SAMPLER'S SIGNATURE: *[Signature]*
 PRINTED NAME: *Nicholas Hill*

SEQ. No.	DATE	TIME	SAMPLE IDENTIFICATION No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS	REMARKS
	4/7/11	258	GW-070102-040711-NH-015	WATER	5	X X X X X X X X X X X X	
		824			5	X X X X X X X X X X X X	
		945			5	X X X X X X X X X X X X	
	4/7/11	950	GW-070102-040711-NH-019	WATER	5	X X X X X X X X X X X X	
	4/7/11	904	TB-070102-040711-NH-002	WATER	1	X X X X X X X X X X X X	
END OF BATCH							
TOTAL NUMBER OF CONTAINERS					26		

RELINQUISHED BY: *[Signature]* DATE: 4/7/11 TIME: 1800 RECEIVED BY: *[Signature]* DATE: TIME:
 RELINQUISHED BY: DATE: TIME: RECEIVED BY: DATE: TIME:
 RELINQUISHED BY: DATE: TIME: RECEIVED BY: DATE: TIME:

METHOD OF SHIPMENT: *Fedex* TRACKING No. 8724 1431 7583

White - Fully Executed Copy
 Yellow - Receiving Laboratory Copy
 Pink - Shipper Copy
 Goldenrod - Sampler Copy

SAMPLE TEAM:
Nick Hill
Nate Ziegler

RECEIVED FOR LABORATORY BY: *[Signature]* DATE: 4/18/11 TIME: 915

TestAmerica Cooler Receipt Form/Narrative

Lot Number: AID 080539

North Canton Facility

Client CRA Project CA7 By: [Signature]
 Cooler Received on 4-8-11 Opened on 4-8-11 (Signature)

FedEx UPS DHL FAS Stetson Client Drop Off TestAmerica Courier Other _____
 TestAmerica Cooler # _____ Multiple Coolers Foam Box Client Cooler Other _____

1. Were custody seals on the outside of the cooler(s)? Yes No Intact? Yes No NA
 If YES, Quantity _____ Quantity Unsalvageable _____
 Were custody seals on the outside of cooler(s) signed and dated? Yes No NA
 Were custody seals on the bottle(s)? Yes No
 If YES, are there any exceptions? _____
 2. Shippers' packing slip attached to the cooler(s)? Yes No
 3. Did custody papers accompany the sample(s)? Yes No Relinquished by client? Yes No
 4. Were the custody papers signed in the appropriate place? Yes No
 5. Packing material used: Bubble Wrap Foam None Other _____
 6. Cooler temperature upon receipt 15 °C See back of form for multiple coolers/temps
 METHOD: IR Other
 COOLANT: Wet Ice Blue Ice Dry Ice Water None
 7. Did all bottles arrive in good condition (Unbroken)? Yes No
 8. Could all bottle labels be reconciled with the COC? Yes No
 9. Were sample(s) at the correct pH upon receipt? Yes No NA
 10. Were correct bottle(s) used for the test(s) indicated? Yes No
 11. Were air bubbles >6 mm in any VOA vials? Yes No NA
 12. Sufficient quantity received to perform indicated analyses? Yes No
 13. Was a trip blank present in the cooler(s)? Yes No Were VOAs on the COC? Yes No
- Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other
 Concerning _____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 100110-HNO₃; Sulfuric Acid Lot# 110410-H₂SO₄; Sodium Hydroxide Lot# 100108 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH₃COO)₂ZN/NaOH. What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials
15	2.2	4-8-11	CSC
16	2.2		
17	2.2		
18	2.2		
19	2.2		

**TestAmerica Cooler Receipt Form/Narrative
North Canton Facility**

<u>Client ID</u>	<u>pH</u>	<u>Date</u>	<u>Initials</u>

<u>Cooler #</u>	<u>Temp. °C</u>	<u>Method</u>	<u>Coolant</u>

Discrepancies Cont'd:



ANALYTICAL REPORT

Job Number: 500-25717-1

Job Description: Mapleton Landfill

For:

Caterpillar Inc.

8826 W. Route 24

Mapleton, IL 61547

Attention: Mr. Dennis Riehl

Approved for release.
Donna L. Ingersoll
Project Manager II
6/14/2010 2:45 PM

Donna L Ingersoll
Project Manager II
donna.ingersoll@testamericainc.com
06/14/2010

cc: Peggy Popp

These test results meet all the requirements of NELAC for accredited parameters.

The Lab Certification ID#:
TestAmerica Chicago 100201

All questions regarding this test report should be directed to the TestAmerica Project Manager whose signature appears on this report. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.

TestAmerica Chicago 2417 Bond Street, University Park, IL 60484

Tel (708) 534-5200 Fax (708) 534-5211 www.testamericainc.com



Job Narrative
500-25717-1**Comments**

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) for batch 500-86846 exceeded control limits for the following analyte: 1,2-Dichloroethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data has been reported.

No other analytical or quality issues were noted.

Metals

Method(s) 6010B: The serial dilution performed for the following sample, 500-25717-1, was outside control limits for K-.

Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for sample 500-25717-1 were outside control limits for K-. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 6020: The continuing calibration verification (CCV) at line 35 in AD batch 86891 recovered above the upper control limit for Pb. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 6020: The internal standard (Sc) was slightly outside control limits for the ICSAB in AD batch 87090 . All the individual elements were within acceptance limits. The samples were reported.

Method(s) 6020: The internal standard (Sc) was used instead of (Y) for all samples in AD batch 87090 which required the elements Se and As.

No other analytical or quality issues were noted.

General Chemistry

Method(s) 9056: The following samples were manually integration due to incorrect ion chromatography baseline. L301 (500-25717-1), L305 (500-25717-2)

Method(s) 9056: Compound bromide eluted outside the retention time window on the ion chromatography column for the following sample(s): (500-25717-1 MS), (500-25717-1 MSD). This retention time shift was taken into account when reviewing the sample(s) for target compounds.

Method(s) 9056: The bromide matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 86590 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. L301 (500-25717-1)

Method(s) 9056: The orthophosphate continuing calibration verification (CCV) for 86708 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. L302 (500-25717-4), L304 (500-25717-3)

Method(s) 9056: The following samples were analyzed for orthophosphate and were affected by high CCVs and LCS. The results are being reported due to hold times having expired. (500-25717-5 MS), (500-25717-5 MSD), L303R (500-25717-5) The orthophosphate MS/MSD recoveries were also high.

Method(s) 300.0, 9056: Compounds bromide and nitrate eluted outside the retention time window on the ion chromatography column for the following sample(s): (500-25717-5 MS), (500-25717-5 MSD), (CCV 500-86784/25), (CCV 500-86784/37), (ICV 500-86784/1), L303R (500-25717-5). This retention time shift was taken into account when reviewing the sample(s) for target compounds.

Method(s) 9056: Manual integration was performed for the following ion chromatography results due to incorrect bromide baselines. (500-25717-3 MS), (500-25717-3 MSD), L302 (500-25717-4)

No other analytical or quality issues were noted.

Subcontract non-Sister

No analytical or quality issues were noted.

Subcontract Work

Method(s) Sulfite by SM4500-SO3B (Nashville): The sample has been subcontracted to TestAmerica Nashville the subcontract certifications are different from those listed on the TestAmerica cover page of this final report.

EXECUTIVE SUMMARY - Detections

Client: Caterpillar Inc.

Job Number: 500-25717-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
500-25717-1	L301				
Barium		0.16	0.010	mg/L	6010B
Sodium		440	100	mg/L	6010B
Calcium		30	0.20	mg/L	6010B
Iron		0.70	0.20	mg/L	6010B
Magnesium		23	0.10	mg/L	6010B
Manganese		0.20	0.010	mg/L	6010B
Potassium		23	0.50	mg/L	6010B
Silicon		9.6	0.20	mg/L	6010B
Sulfate		220	50	mg/L	9038
Bromide		1.5	0.20	mg/L	9056
Chloride		130	10	mg/L	9251
Bicarbonate Alkalinity as CaCO ₃		760	5.0	mg/L	SM 2320B
Total Dissolved Solids		1500	17	mg/L	SM 2540C
Fluoride		2.3	0.10	mg/L	SM 4500 F C
Ammonia		6.7	0.40	mg/L	SM 4500 NH ₃ C
Sulfide		1.4	1.0	mg/L	SM 4500 S ₂ F
<i>Total Recoverable</i>					
Lead		0.0022	0.00050	mg/L	6020
500-25717-2	L305				
Barium		0.018	0.010	mg/L	6010B
Sodium		440	100	mg/L	6010B
Calcium		7.9	0.20	mg/L	6010B
Magnesium		5.5	0.10	mg/L	6010B
Manganese		0.062	0.010	mg/L	6010B
Potassium		43	0.50	mg/L	6010B
Silicon		4.9	0.20	mg/L	6010B
Sulfate		270	50	mg/L	9038
Bromide		2.7	0.20	mg/L	9056
Chloride		170	10	mg/L	9251
Bicarbonate Alkalinity as CaCO ₃		510	5.0	mg/L	SM 2320B
Carbonate Alkalinity as CaCO ₃		43	5.0	mg/L	SM 2320B
Total Dissolved Solids		1400	10	mg/L	SM 2540C
Fluoride		4.3	0.10	mg/L	SM 4500 F C
Ammonia		1.9	0.20	mg/L	SM 4500 NH ₃ C
<i>Total Recoverable</i>					
Arsenic		0.0017	0.0010	mg/L	6020

EXECUTIVE SUMMARY - Detections

Client: Caterpillar Inc.

Job Number: 500-25717-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
500-25717-3	L304				
Barium		0.036	0.010	mg/L	6010B
Sodium		350	20	mg/L	6010B
Calcium		7.3	0.20	mg/L	6010B
Iron		0.69	0.20	mg/L	6010B
Magnesium		11	0.10	mg/L	6010B
Manganese		0.051	0.010	mg/L	6010B
Potassium		37	0.50	mg/L	6010B
Silicon		6.3	0.20	mg/L	6010B
Sulfate		25	5.0	mg/L	9038
Bromide		1.6	0.20	mg/L	9056
Chloride		110	10	mg/L	9251
Bicarbonate Alkalinity as CaCO3		690	5.0	mg/L	SM 2320B
Total Dissolved Solids		1000	10	mg/L	SM 2540C
Fluoride		4.5	0.10	mg/L	SM 4500 F C
Ammonia		1.8	0.20	mg/L	SM 4500 NH3 C
500-25717-4	L302				
Benzene		15	1.0	ug/L	8260B
Barium		0.11	0.010	mg/L	6010B
Chromium		0.010	0.010	mg/L	6010B
Sodium		660	20	mg/L	6010B
Calcium		13	0.20	mg/L	6010B
Iron		5.3	0.20	mg/L	6010B
Magnesium		8.6	0.10	mg/L	6010B
Manganese		0.060	0.010	mg/L	6010B
Potassium		26	0.50	mg/L	6010B
Silicon		14	0.20	mg/L	6010B
Bromide		3.4	0.20	mg/L	9056
Chloride		430	250	mg/L	9251
Bicarbonate Alkalinity as CaCO3		1000	5.0	mg/L	SM 2320B
Total Dissolved Solids		2100	25	mg/L	SM 2540C
Fluoride		2.4	0.10	mg/L	SM 4500 F C
Ammonia		18	1.0	mg/L	SM 4500 NH3 C
Total Recoverable					
Arsenic		0.0071	0.0010	mg/L	6020

EXECUTIVE SUMMARY - Detections

Client: Caterpillar Inc.

Job Number: 500-25717-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
500-25717-5	L303R				
Benzene		2.0	1.0	ug/L	8260B
Aluminum		1.1	0.20	mg/L	6010B
Barium		0.036	0.010	mg/L	6010B
Sodium		440	20	mg/L	6010B
Calcium		9.4	0.20	mg/L	6010B
Iron		1.9	0.20	mg/L	6010B
Magnesium		6.5	0.10	mg/L	6010B
Manganese		0.19	0.010	mg/L	6010B
Potassium		12	0.50	mg/L	6010B
Silicon		8.9	0.20	mg/L	6010B
Sulfate		420	100	mg/L	9038
Bromide		1.8	0.20	mg/L	9056
Orthophosphate as P		0.37	0.20	mg/L	9056
Chloride		52	2.0	mg/L	9251
Bicarbonate Alkalinity as CaCO3		680	5.0	mg/L	SM 2320B
Total Dissolved Solids		1400	25	mg/L	SM 2540C
Fluoride		2.3	0.10	mg/L	SM 4500 F C
Ammonia		2.5	0.20	mg/L	SM 4500 NH3 C
Total Recoverable					
Lead		0.0019	0.00050	mg/L	6020
Arsenic		0.0030	0.0020	mg/L	6020

METHOD SUMMARY

Client: Caterpillar Inc.

Job Number: 500-25717-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL CHI	SW846 8260B	
Purge and Trap	TAL CHI		SW846 5030B
Metals (ICP)	TAL CHI	SW846 6010B	
Preparation, Total Metals	TAL CHI		SW846 3010A
Metals (ICP/MS)	TAL CHI	SW846 6020	
Preparation, Total Recoverable or Dissolved Metals	TAL CHI		SW846 3005A
Sulfate, Turbidimetric	TAL CHI	SW846 9038	
Anions, Ion Chromatography	TAL CHI	SW846 9056	
Chloride	TAL CHI	SW846 9251	
Nitrogen, Nitrate-Nitrite	TAL CHI	SM Nitrate by calc	
Alkalinity	TAL CHI	SM SM 2320B	
Solids, Total Dissolved (TDS)	TAL CHI	SM SM 2540C	
Fluoride	TAL CHI	SM SM 4500 F C	
Ammonia	TAL CHI	SM SM 4500 NH3 C	
Ammonia, Distillation	TAL CHI		SM SM 4500 NH3 B
Nitrogen, Nitrite	TAL CHI	SM SM 4500 NO2 B	
Nitrogen, Nitrate	TAL CHI	SM SM 4500 NO3 F	
Sulfide, Total	TAL CHI	SM SM 4500 S2 F	
General Sub Contract Method	TAL NSH	Subcontract	

Lab References:

TAL CHI = TestAmerica Chicago

TAL NSH = TestAmerica Nashville

Method References:

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Caterpillar Inc.

Job Number: 500-25717-1

Method	Analyst	Analyst ID
SW846 8260B	Manzano, Louis	LM
SW846 6010B	Kolarczyk, Paul F	PFK
SW846 6010B	Roach, Jessica	JR
SW846 6010B	Smith, Todd D	TDS
SW846 6020	Kolarczyk, Paul F	PFK
SW846 9038	Boyd, Cheryl L	CLB
SW846 9056	Ficarello, Peter M	PMF
SW846 9251	Deb, Khona	KD
SM Nitrate by calc	Ficarello, Peter M	PMF
SM SM 2320B	Moore, Colleen L	CLM
SM SM 2540C	Boyd, Cheryl L	CLB
SM SM 2540C	Moore, Colleen L	CLM
SM SM 4500 F C	Moore, Colleen L	CLM
SM SM 4500 NH3 C	Brogan, Mary T	MTB
SM SM 4500 NO2 B	Deb, Khona	KD
SM SM 4500 NO2 B	Moore, Colleen L	CLM
SM SM 4500 NO3 F	Ficarello, Peter M	PMF
SM SM 4500 S2 F	Boyd, Cheryl L	CLB

SAMPLE SUMMARY

Client: Caterpillar Inc.

Job Number: 500-25717-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
500-25717-1	L301	Water	05/25/2010 0905	05/26/2010 1000
500-25717-2	L305	Water	05/25/2010 1025	05/26/2010 1000
500-25717-3	L304	Water	05/26/2010 0833	05/27/2010 1015
500-25717-4	L302	Water	05/26/2010 1029	05/27/2010 1015
500-25717-5	L303R	Water	05/27/2010 1007	05/28/2010 1025

SAMPLE RESULTS

Mr. Dennis Riehl
 Caterpillar Inc.
 8826 W. Route 24
 Mapleton, IL 61547

Job Number: 500-25717-1

Client Sample ID: L301
Lab Sample ID: 500-25717-1

Date Sampled: 05/25/2010 0905
 Date Received: 05/26/2010 1000
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: 8260B		Date Analyzed:	05/31/2010 0136	
Prep Method: 5030B		Date Prepared:	05/31/2010 0136	
Vinyl chloride	ND	ug/L	1.0	1.0
1,1-Dichloroethene	ND	ug/L	1.0	1.0
trans-1,2-Dichloroethene	ND	ug/L	1.0	1.0
cis-1,2-Dichloroethene	ND	ug/L	1.0	1.0
Chloroform	ND	ug/L	1.0	1.0
1,1,1-Trichloroethane	ND	ug/L	1.0	1.0
Carbon tetrachloride	ND	ug/L	1.0	1.0
Benzene	ND	ug/L	1.0	1.0
1,2-Dichloroethane	ND *	ug/L	1.0	1.0
Trichloroethene	ND	ug/L	1.0	1.0
1,2-Dichloropropane	ND	ug/L	1.0	1.0
Bromodichloromethane	ND	ug/L	1.0	1.0
Toluene	ND	ug/L	1.0	1.0
Tetrachloroethene	ND	ug/L	1.0	1.0
Dibromochloromethane	ND	ug/L	1.0	1.0
Chlorobenzene	ND	ug/L	1.0	1.0
Ethylbenzene	ND	ug/L	1.0	1.0
Xylenes, Total	ND	ug/L	2.0	1.0
Styrene	ND	ug/L	1.0	1.0
Bromoform	ND	ug/L	1.0	1.0
Surrogate			Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	96	%	80 - 129	
Toluene-d8 (Surr)	100	%	80 - 115	
4-Bromofluorobenzene (Surr)	93	%	80 - 115	
Dibromofluoromethane	93	%	80 - 124	
Method: 6010B		Date Analyzed:	06/08/2010 1654	
Prep Method: 3010A		Date Prepared:	05/27/2010 0919	
Aluminum	ND	mg/L	0.20	1.0
Barium	0.16	mg/L	0.010	1.0
Chromium	ND	mg/L	0.010	1.0
Calcium	30	mg/L	0.20	1.0
Copper	ND	mg/L	0.010	1.0
Iron	0.70	mg/L	0.20	1.0
Magnesium	23	mg/L	0.10	1.0
Manganese	0.20	mg/L	0.010	1.0
Potassium	23 V	mg/L	0.50	1.0
Silicon	9.6	mg/L	0.20	1.0
Zinc	ND	mg/L	0.020	1.0

Mr. Dennis Riehl
Caterpillar Inc.
8826 W. Route 24
Mapleton, IL 61547

Job Number: 500-25717-1

Client Sample ID: L301
Lab Sample ID: 500-25717-1

Date Sampled: 05/25/2010 0905
Date Received: 05/26/2010 1000
Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: 6010B		Date Analyzed:	06/13/2010 1032	
Prep Method: 3010A		Date Prepared:	05/27/2010 0919	
Sodium	440	mg/L	100	100
Method: Total Recoverable-6020		Date Analyzed:	06/05/2010 1620	
Prep Method: 3005A		Date Prepared:	05/27/2010 0915	
Lead	0.0022	mg/L	0.00050	1.0
Arsenic	ND	mg/L	0.0010	1.0
Cadmium	ND	mg/L	0.00050	1.0
Selenium	ND	mg/L	0.0025	1.0
Method: 9038		Date Analyzed:	06/10/2010 0200	
Sulfate	220	mg/L	50	10
Method: 9056		Date Analyzed:	05/26/2010 1302	
Bromide	1.5	mg/L	0.20	1.0
Orthophosphate as P	ND	mg/L	0.20	1.0
Method: 9251		Date Analyzed:	06/09/2010 0931	
Chloride	130	mg/L	10	5.0
Method: Nitrate by calc		Date Analyzed:	06/03/2010 1416	
Nitrogen, Nitrate	ND	mg/L	0.10	1.0
Method: SM 2320B		Date Analyzed:	05/28/2010 1412	
Bicarbonate Alkalinity as CaCO3	760	mg/L	5.0	1.0
Carbonate Alkalinity as CaCO3	ND	mg/L	5.0	1.0
Method: SM 2540C		Date Analyzed:	05/28/2010 0934	
Total Dissolved Solids	1500	mg/L	17	1.0
Method: SM 4500 F C		Date Analyzed:	05/27/2010 1447	
Fluoride	2.3	mg/L	0.10	1.0
Method: SM 4500 NH3 C		Date Analyzed:	06/04/2010 1055	
Prep Method: SM 4500 NH3 B		Date Prepared:	06/03/2010 0900	
Ammonia	6.7	mg/L	0.40	2.0
Method: SM 4500 NO2 B		Date Analyzed:	05/26/2010 1526	
Nitrogen, Nitrite	ND	mg/L	0.020	1.0
Method: SM 4500 NO3 F		Date Analyzed:	06/03/2010 0907	
Nitrogen, Nitrate Nitrite	ND	mg/L	0.10	1.0
Method: SM 4500 S2 F		Date Analyzed:	05/28/2010 1237	
Sulfide	1.4	mg/L	1.0	1.0

Mr. Dennis Riehl
 Caterpillar Inc.
 8826 W. Route 24
 Mapleton, IL 61547

Job Number: 500-25717-1

Client Sample ID: L305
Lab Sample ID: 500-25717-2

Date Sampled: 05/25/2010 1025
 Date Received: 05/26/2010 1000
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: 8260B		Date Analyzed:	05/31/2010 0155	
Prep Method: 5030B		Date Prepared:	05/31/2010 0155	
Vinyl chloride	ND	ug/L	1.0	1.0
1,1-Dichloroethene	ND	ug/L	1.0	1.0
trans-1,2-Dichloroethene	ND	ug/L	1.0	1.0
cis-1,2-Dichloroethene	ND	ug/L	1.0	1.0
Chloroform	ND	ug/L	1.0	1.0
1,1,1-Trichloroethane	ND	ug/L	1.0	1.0
Carbon tetrachloride	ND	ug/L	1.0	1.0
Benzene	ND	ug/L	1.0	1.0
1,2-Dichloroethane	ND *	ug/L	1.0	1.0
Trichloroethene	ND	ug/L	1.0	1.0
1,2-Dichloropropane	ND	ug/L	1.0	1.0
Bromodichloromethane	ND	ug/L	1.0	1.0
Toluene	ND	ug/L	1.0	1.0
Tetrachloroethene	ND	ug/L	1.0	1.0
Dibromochloromethane	ND	ug/L	1.0	1.0
Chlorobenzene	ND	ug/L	1.0	1.0
Ethylbenzene	ND	ug/L	1.0	1.0
Xylenes, Total	ND	ug/L	2.0	1.0
Styrene	ND	ug/L	1.0	1.0
Bromoform	ND	ug/L	1.0	1.0
Surrogate			Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	113	%	80 - 129	
Toluene-d8 (Surr)	110	%	80 - 115	
4-Bromofluorobenzene (Surr)	99	%	80 - 115	
Dibromofluoromethane	110	%	80 - 124	
Method: 6010B		Date Analyzed:	06/08/2010 1725	
Prep Method: 3010A		Date Prepared:	05/27/2010 0919	
Aluminum	ND	mg/L	0.20	1.0
Barium	0.018	mg/L	0.010	1.0
Chromium	ND	mg/L	0.010	1.0
Calcium	7.9	mg/L	0.20	1.0
Copper	ND	mg/L	0.010	1.0
Iron	ND	mg/L	0.20	1.0
Magnesium	5.5	mg/L	0.10	1.0
Manganese	0.062	mg/L	0.010	1.0
Potassium	43	mg/L	0.50	1.0
Silicon	4.9	mg/L	0.20	1.0
Zinc	ND	mg/L	0.020	1.0

Mr. Dennis Riehl
Caterpillar Inc.
8826 W. Route 24
Mapleton, IL 61547

Job Number: 500-25717-1

Client Sample ID: L305
Lab Sample ID: 500-25717-2

Date Sampled: 05/25/2010 1025
Date Received: 05/26/2010 1000
Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: 6010B		Date Analyzed:	06/13/2010 1115	
Prep Method: 3010A		Date Prepared:	05/27/2010 0919	
Sodium	440	mg/L	100	100
Method: Total Recoverable-6020		Date Analyzed:	06/05/2010 1622	
Prep Method: 3005A		Date Prepared:	05/27/2010 0915	
Lead	ND	mg/L	0.00050	1.0
Arsenic	0.0017	mg/L	0.0010	1.0
Cadmium	ND	mg/L	0.00050	1.0
Selenium	ND	mg/L	0.0025	1.0
Method: 9038		Date Analyzed:	06/10/2010 0201	
Sulfate	270	mg/L	50	10
Method: 9056		Date Analyzed:	05/26/2010 1316	
Bromide	2.7	mg/L	0.20	1.0
Orthophosphate as P	ND	mg/L	0.20	1.0
Method: 9251		Date Analyzed:	06/09/2010 0931	
Chloride	170	mg/L	10	5.0
Method: Nitrate by calc		Date Analyzed:	06/03/2010 1416	
Nitrogen, Nitrate	ND	mg/L	0.10	1.0
Method: SM 2320B		Date Analyzed:	05/28/2010 1421	
Bicarbonate Alkalinity as CaCO3	510	mg/L	5.0	1.0
Carbonate Alkalinity as CaCO3	43	mg/L	5.0	1.0
Method: SM 2540C		Date Analyzed:	05/28/2010 0937	
Total Dissolved Solids	1400	mg/L	10	1.0
Method: SM 4500 F C		Date Analyzed:	06/08/2010 1228	
Fluoride	4.3	mg/L	0.10	1.0
Method: SM 4500 NH3 C		Date Analyzed:	06/04/2010 1056	
Prep Method: SM 4500 NH3 B		Date Prepared:	06/03/2010 0900	
Ammonia	1.9	mg/L	0.20	1.0
Method: SM 4500 NO2 B		Date Analyzed:	05/26/2010 1526	
Nitrogen, Nitrite	ND	mg/L	0.020	1.0
Method: SM 4500 NO3 F		Date Analyzed:	06/03/2010 0909	
Nitrogen, Nitrate Nitrite	ND	mg/L	0.10	1.0
Method: SM 4500 S2 F		Date Analyzed:	05/28/2010 1240	
Sulfide	ND	mg/L	1.0	1.0

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Job Number: 500-25717-1

Client Sample ID: L304
Lab Sample ID: 500-25717-3

Date Sampled: 05/26/2010 0833
 Date Received: 05/27/2010 1015
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: 8260B		Date Analyzed:	06/02/2010 1917	
Prep Method: 5030B		Date Prepared:	06/02/2010 1917	
Vinyl chloride	ND	ug/L	1.0	1.0
1,1-Dichloroethene	ND	ug/L	1.0	1.0
trans-1,2-Dichloroethene	ND	ug/L	1.0	1.0
cis-1,2-Dichloroethene	ND	ug/L	1.0	1.0
Chloroform	ND	ug/L	1.0	1.0
1,1,1-Trichloroethane	ND	ug/L	1.0	1.0
Carbon tetrachloride	ND	ug/L	1.0	1.0
Benzene	ND	ug/L	1.0	1.0
1,2-Dichloroethane	ND	ug/L	1.0	1.0
Trichloroethene	ND	ug/L	1.0	1.0
1,2-Dichloropropane	ND	ug/L	1.0	1.0
Bromodichloromethane	ND	ug/L	1.0	1.0
Toluene	ND	ug/L	1.0	1.0
Tetrachloroethene	ND	ug/L	1.0	1.0
Dibromochloromethane	ND	ug/L	1.0	1.0
Chlorobenzene	ND	ug/L	1.0	1.0
Ethylbenzene	ND	ug/L	1.0	1.0
Xylenes, Total	ND	ug/L	2.0	1.0
Styrene	ND	ug/L	1.0	1.0
Bromoform	ND	ug/L	1.0	1.0
Surrogate			Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	102	%	80 - 129	
Toluene-d8 (Surr)	101	%	80 - 115	
4-Bromofluorobenzene (Surr)	94	%	80 - 115	
Dibromofluoromethane	93	%	80 - 124	
Method: 6010B		Date Analyzed:	06/04/2010 1814	
Prep Method: 3010A		Date Prepared:	06/03/2010 0846	
Aluminum	ND	mg/L	0.20	1.0
Barium	0.036	mg/L	0.010	1.0
Chromium	ND	mg/L	0.010	1.0
Calcium	7.3	mg/L	0.20	1.0
Copper	ND	mg/L	0.010	1.0
Iron	0.69	mg/L	0.20	1.0
Magnesium	11	mg/L	0.10	1.0
Manganese	0.051	mg/L	0.010	1.0
Potassium	37	mg/L	0.50	1.0
Silicon	6.3	mg/L	0.20	1.0
Zinc	ND	mg/L	0.020	1.0

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Mapleton, IL 61547

Job Number: 500-25717-1

Client Sample ID: L304
Lab Sample ID: 500-25717-3

Date Sampled: 05/26/2010 0833
Date Received: 05/27/2010 1015
Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: 6010B		Date Analyzed:	06/06/2010 0643	
Prep Method: 3010A		Date Prepared:	06/03/2010 0846	
Sodium	350	mg/L	20	20
Method: Total Recoverable-6020		Date Analyzed:	06/01/2010 1256	
Prep Method: 3005A		Date Prepared:	05/28/2010 0856	
Lead	ND	mg/L	0.00050	1.0
Cadmium	ND	mg/L	0.00050	1.0
Method: Total Recoverable-6020		Date Analyzed:	06/02/2010 1958	
Prep Method: 3005A		Date Prepared:	05/28/2010 0856	
Arsenic	ND	mg/L	0.0010	1.0
Selenium	ND	mg/L	0.0025	1.0
Method: 9038		Date Analyzed:	06/10/2010 2028	
Sulfate	25	mg/L	5.0	1.0
Method: 9056		Date Analyzed:	05/27/2010 1321	
Orthophosphate as P	ND	mg/L	0.20	1.0
Method: 9056		Date Analyzed:	06/10/2010 1408	
Bromide	1.6	mg/L	0.20	1.0
Method: 9251		Date Analyzed:	06/09/2010 0932	
Chloride	110	mg/L	10	5.0
Method: Nitrate by calc		Date Analyzed:	06/08/2010 1132	
Nitrogen, Nitrate	ND	mg/L	0.10	1.0
Method: SM 2320B		Date Analyzed:	05/28/2010 1444	
Bicarbonate Alkalinity as CaCO3	690	mg/L	5.0	1.0
Carbonate Alkalinity as CaCO3	ND	mg/L	5.0	1.0
Method: SM 2540C		Date Analyzed:	05/28/2010 1643	
Total Dissolved Solids	1000	mg/L	10	1.0
Method: SM 4500 F C		Date Analyzed:	06/08/2010 1232	
Fluoride	4.5	mg/L	0.10	1.0
Method: SM 4500 NH3 C		Date Analyzed:	06/04/2010 1056	
Prep Method: SM 4500 NH3 B		Date Prepared:	06/03/2010 0900	
Ammonia	1.8	mg/L	0.20	1.0
Method: SM 4500 NO2 B		Date Analyzed:	05/27/2010 1631	
Nitrogen, Nitrite	ND	mg/L	0.020	1.0
Method: SM 4500 NO3 F		Date Analyzed:	06/07/2010 1216	

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Job Number: 500-25717-1

Client Sample ID: L304
Lab Sample ID: 500-25717-3

Date Sampled: 05/26/2010 0833
 Date Received: 05/27/2010 1015
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Nitrogen, Nitrate Nitrite	ND	mg/L	0.10	1.0
Method: SM 4500 S2 F			Date Analyzed: 05/28/2010 1250	
Sulfide	ND	mg/L	1.0	1.0

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Job Number: 500-25717-1

Client Sample ID: L302
Lab Sample ID: 500-25717-4

Date Sampled: 05/26/2010 1029
 Date Received: 05/27/2010 1015
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: 8260B		Date Analyzed:	06/02/2010 1939	
Prep Method: 5030B		Date Prepared:	06/02/2010 1939	
Vinyl chloride	ND	ug/L	1.0	1.0
1,1-Dichloroethene	ND	ug/L	1.0	1.0
trans-1,2-Dichloroethene	ND	ug/L	1.0	1.0
cis-1,2-Dichloroethene	ND	ug/L	1.0	1.0
Chloroform	ND	ug/L	1.0	1.0
1,1,1-Trichloroethane	ND	ug/L	1.0	1.0
Carbon tetrachloride	ND	ug/L	1.0	1.0
Benzene	15	ug/L	1.0	1.0
1,2-Dichloroethane	ND	ug/L	1.0	1.0
Trichloroethene	ND	ug/L	1.0	1.0
1,2-Dichloropropane	ND	ug/L	1.0	1.0
Bromodichloromethane	ND	ug/L	1.0	1.0
Toluene	ND	ug/L	1.0	1.0
Tetrachloroethene	ND	ug/L	1.0	1.0
Dibromochloromethane	ND	ug/L	1.0	1.0
Chlorobenzene	ND	ug/L	1.0	1.0
Ethylbenzene	ND	ug/L	1.0	1.0
Xylenes, Total	ND	ug/L	2.0	1.0
Styrene	ND	ug/L	1.0	1.0
Bromoform	ND	ug/L	1.0	1.0
Surrogate			Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	107	%	80 - 129	
Toluene-d8 (Surr)	105	%	80 - 115	
4-Bromofluorobenzene (Surr)	100	%	80 - 115	
Dibromofluoromethane	98	%	80 - 124	
Method: 6010B		Date Analyzed:	06/04/2010 1820	
Prep Method: 3010A		Date Prepared:	06/03/2010 0846	
Aluminum	ND	mg/L	0.20	1.0
Barium	0.11	mg/L	0.010	1.0
Chromium	0.010	mg/L	0.010	1.0
Calcium	13	mg/L	0.20	1.0
Copper	ND	mg/L	0.010	1.0
Iron	5.3	mg/L	0.20	1.0
Magnesium	8.6	mg/L	0.10	1.0
Manganese	0.060	mg/L	0.010	1.0
Potassium	26	mg/L	0.50	1.0
Silicon	14	mg/L	0.20	1.0
Zinc	ND	mg/L	0.020	1.0

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Job Number: 500-25717-1

Client Sample ID: L302
Lab Sample ID: 500-25717-4

Date Sampled: 05/26/2010 1029
 Date Received: 05/27/2010 1015
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: 6010B				
Prep Method: 3010A				
Sodium	660	mg/L	20	20
Method: Total Recoverable-6020				
Prep Method: 3005A				
Lead	ND	mg/L	0.00050	1.0
Cadmium	ND	mg/L	0.00050	1.0
Method: Total Recoverable-6020				
Prep Method: 3005A				
Arsenic	0.0071	mg/L	0.0010	1.0
Selenium	ND	mg/L	0.0025	1.0
Method: 9038				
Sulfate	ND	mg/L	5.0	1.0
Method: 9056				
Orthophosphate as P	ND	mg/L	0.20	1.0
Method: 9056				
Bromide	3.4	mg/L	0.20	1.0
Method: 9251				
Chloride	430	mg/L	250	125
Method: Nitrate by calc				
Nitrogen, Nitrate	ND	mg/L	0.10	1.0
Method: SM 2320B				
Bicarbonate Alkalinity as CaCO3	1000	mg/L	5.0	1.0
Carbonate Alkalinity as CaCO3	ND	mg/L	5.0	1.0
Method: SM 2540C				
Total Dissolved Solids	2100	mg/L	25	1.0
Method: SM 4500 F C				
Fluoride	2.4	mg/L	0.10	1.0
Method: SM 4500 NH3 C				
Prep Method: SM 4500 NH3 B				
Ammonia	18	mg/L	1.0	5.0
Method: SM 4500 NO2 B				
Nitrogen, Nitrite	ND	mg/L	0.020	1.0
Method: SM 4500 NO3 F				
			Date Analyzed: 06/07/2010 1218	

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 Mapleton, IL 61547

Job Number: 500-25717-1

Client Sample ID: L302
Lab Sample ID: 500-25717-4

Date Sampled: 05/26/2010 1029
 Date Received: 05/27/2010 1015
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Nitrogen, Nitrate Nitrite	ND	mg/L	0.10	1.0
Method: SM 4500 S2 F			Date Analyzed: 05/28/2010 1253	
Sulfide	ND	mg/L	1.0	1.0

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Job Number: 500-25717-1

Client Sample ID: L303R
Lab Sample ID: 500-25717-5

Date Sampled: 05/27/2010 1007
 Date Received: 05/28/2010 1025
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: 8260B		Date Analyzed:	06/02/2010 2000	
Prep Method: 5030B		Date Prepared:	06/02/2010 2000	
Vinyl chloride	ND	ug/L	1.0	1.0
1,1-Dichloroethene	ND	ug/L	1.0	1.0
trans-1,2-Dichloroethene	ND	ug/L	1.0	1.0
cis-1,2-Dichloroethene	ND	ug/L	1.0	1.0
Chloroform	ND	ug/L	1.0	1.0
1,1,1-Trichloroethane	ND	ug/L	1.0	1.0
Carbon tetrachloride	ND	ug/L	1.0	1.0
Benzene	2.0	ug/L	1.0	1.0
1,2-Dichloroethane	ND	ug/L	1.0	1.0
Trichloroethene	ND	ug/L	1.0	1.0
1,2-Dichloropropane	ND	ug/L	1.0	1.0
Bromodichloromethane	ND	ug/L	1.0	1.0
Toluene	ND	ug/L	1.0	1.0
Tetrachloroethene	ND	ug/L	1.0	1.0
Dibromochloromethane	ND	ug/L	1.0	1.0
Chlorobenzene	ND	ug/L	1.0	1.0
Ethylbenzene	ND	ug/L	1.0	1.0
Xylenes, Total	ND	ug/L	2.0	1.0
Styrene	ND	ug/L	1.0	1.0
Bromoform	ND	ug/L	1.0	1.0
Surrogate			Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	106	%	80 - 129	
Toluene-d8 (Surr)	108	%	80 - 115	
4-Bromofluorobenzene (Surr)	97	%	80 - 115	
Dibromofluoromethane	98	%	80 - 124	
Method: 6010B		Date Analyzed:	06/04/2010 1826	
Prep Method: 3010A		Date Prepared:	06/03/2010 0846	
Aluminum	1.1	mg/L	0.20	1.0
Barium	0.036	mg/L	0.010	1.0
Chromium	ND	mg/L	0.010	1.0
Calcium	9.4	mg/L	0.20	1.0
Copper	ND	mg/L	0.010	1.0
Iron	1.9	mg/L	0.20	1.0
Magnesium	6.5	mg/L	0.10	1.0
Manganese	0.19	mg/L	0.010	1.0
Potassium	12	mg/L	0.50	1.0
Silicon	8.9	mg/L	0.20	1.0
Zinc	ND	mg/L	0.020	1.0

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Job Number: 500-25717-1

Client Sample ID: L303R
Lab Sample ID: 500-25717-5

Date Sampled: 05/27/2010 1007
 Date Received: 05/28/2010 1025
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: 6010B				
Prep Method: 3010A				
Sodium	440	mg/L	20	20
Method: Total Recoverable-6020				
Prep Method: 3005A				
Lead	0.0019	mg/L	0.00050	1.0
Cadmium	ND	mg/L	0.00050	1.0
Method: Total Recoverable-6020				
Prep Method: 3005A				
Arsenic	0.0030	mg/L	0.0020	2.0
Selenium	ND	mg/L	0.0050	2.0
Method: 9038				
Sulfate	420	mg/L	100	20
Method: 9056				
Bromide	1.8	mg/L	0.20	1.0
Orthophosphate as P	0.37	mg/L ^ *	0.20	1.0
Method: 9251				
Chloride	52	mg/L	2.0	1.0
Method: Nitrate by calc				
Nitrogen, Nitrate	ND	mg/L	0.10	1.0
Method: SM 2320B				
Bicarbonate Alkalinity as CaCO3	680	mg/L	5.0	1.0
Carbonate Alkalinity as CaCO3	ND	mg/L	5.0	1.0
Method: SM 2540C				
Total Dissolved Solids	1400	mg/L	25	1.0
Method: SM 4500 F C				
Fluoride	2.3	mg/L	0.10	1.0
Method: SM 4500 NH3 C				
Prep Method: SM 4500 NH3 B				
Ammonia	2.5	mg/L	0.20	1.0
Method: SM 4500 NO2 B				
Nitrogen, Nitrite	ND	mg/L	0.020	1.0
Method: SM 4500 NO3 F				
Nitrogen, Nitrate Nitrite	ND	mg/L	0.10	1.0

Mr. Dennis Riehl
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Mapleton, IL 61547

Job Number: 500-25717-1

Client Sample ID: L303R
Lab Sample ID: 500-25717-5

Date Sampled: 05/27/2010 1007
Date Received: 05/28/2010 1025
Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: SM 4500 S2 F			Date Analyzed: 06/01/2010 2324	
Sulfide	ND	mg/L	1.0	1.0

DATA REPORTING QUALIFIERS

Client: Caterpillar Inc.

Job Number: 500-25717-1

Lab Section	Qualifier	Description
GC/MS VOA	*	LCS or LCSD exceeds the control limits
Metals	^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
	F	MS or MSD exceeds the control limits
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	V	Serial Dilution exceeds the control limits
General Chemistry	^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
	*	LCS or LCSD exceeds the control limits
	F	MS or MSD exceeds the control limits

QUALITY CONTROL RESULTS

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:500-86846					
LCS 500-86846/8	Lab Control Sample	T	Water	8260B	
MB 500-86846/7	Method Blank	T	Water	8260B	
500-25717-1	L301	T	Water	8260B	
500-25717-2	L305	T	Water	8260B	
Analysis Batch:500-86964					
LCS 500-86964/9	Lab Control Sample	T	Water	8260B	
MB 500-86964/8	Method Blank	T	Water	8260B	
500-25717-3	L304	T	Water	8260B	
500-25717-4	L302	T	Water	8260B	
500-25717-5	L303R	T	Water	8260B	

Report Basis

T = Total

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 500-86609					
LCS 500-86609/2-A	Lab Control Sample	R	Water	3005A	
MB 500-86609/1-A	Method Blank	R	Water	3005A	
500-25717-1	L301	R	Water	3005A	
500-25717-2	L305	R	Water	3005A	
Prep Batch: 500-86611					
LCS 500-86611/2-A	Lab Control Sample	T	Water	3010A	
MB 500-86611/1-A	Method Blank	T	Water	3010A	
500-25717-1	L301	T	Water	3010A	
500-25717-1DU	Duplicate	T	Water	3010A	
500-25717-1MS	Matrix Spike	T	Water	3010A	
500-25717-1MSD	Matrix Spike Duplicate	T	Water	3010A	
500-25717-2	L305	T	Water	3010A	
Prep Batch: 500-86712					
LCS 500-86712/2-A	Lab Control Sample	R	Water	3005A	
MB 500-86712/1-A	Method Blank	R	Water	3005A	
500-25717-3	L304	R	Water	3005A	
500-25717-4	L302	R	Water	3005A	
Prep Batch: 500-86860					
LCS 500-86860/2-A	Lab Control Sample	R	Water	3005A	
MB 500-86860/1-A	Method Blank	R	Water	3005A	
500-25717-5	L303R	R	Water	3005A	
Analysis Batch:500-86891					
LCS 500-86712/2-A	Lab Control Sample	R	Water	6020	500-86712
MB 500-86712/1-A	Method Blank	R	Water	6020	500-86712
500-25717-3	L304	R	Water	6020	500-86712
500-25717-4	L302	R	Water	6020	500-86712
Analysis Batch:500-87023					
LCS 500-86712/2-A	Lab Control Sample	R	Water	6020	500-86712
MB 500-86712/1-A	Method Blank	R	Water	6020	500-86712
LCS 500-86860/2-A	Lab Control Sample	R	Water	6020	500-86860
MB 500-86860/1-A	Method Blank	R	Water	6020	500-86860
500-25717-3	L304	R	Water	6020	500-86712
Prep Batch: 500-87031					
LCS 500-87031/2-A	Lab Control Sample	T	Water	3010A	
MB 500-87031/1-A	Method Blank	T	Water	3010A	
500-25717-3	L304	T	Water	3010A	
500-25717-4	L302	T	Water	3010A	
500-25717-5	L303R	T	Water	3010A	

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Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:500-87090					
500-25717-5	L303R	R	Water	6020	500-86860
Analysis Batch:500-87202					
LCS 500-87031/2-A	Lab Control Sample	T	Water	6010B	500-87031
MB 500-87031/1-A	Method Blank	T	Water	6010B	500-87031
500-25717-3	L304	T	Water	6010B	500-87031
500-25717-4	L302	T	Water	6010B	500-87031
500-25717-5	L303R	T	Water	6010B	500-87031
Analysis Batch:500-87214					
500-25717-3	L304	T	Water	6010B	500-87031
500-25717-4	L302	T	Water	6010B	500-87031
500-25717-5	L303R	T	Water	6010B	500-87031
Analysis Batch:500-87248					
LCS 500-86609/2-A	Lab Control Sample	R	Water	6020	500-86609
MB 500-86609/1-A	Method Blank	R	Water	6020	500-86609
500-25717-1	L301	R	Water	6020	500-86609
500-25717-2	L305	R	Water	6020	500-86609
Analysis Batch:500-87398					
LCS 500-86611/2-A	Lab Control Sample	T	Water	6010B	500-86611
MB 500-86611/1-A	Method Blank	T	Water	6010B	500-86611
500-25717-1	L301	T	Water	6010B	500-86611
500-25717-1DU	Duplicate	T	Water	6010B	500-86611
500-25717-1MS	Matrix Spike	T	Water	6010B	500-86611
500-25717-1MSD	Matrix Spike Duplicate	T	Water	6010B	500-86611
500-25717-2	L305	T	Water	6010B	500-86611
Analysis Batch:500-87506					
500-25717-4	L302	R	Water	6020	500-86712
Analysis Batch:500-87644					
LCS 500-86611/2-A	Lab Control Sample	T	Water	6010B	500-86611
MB 500-86611/1-A	Method Blank	T	Water	6010B	500-86611
500-25717-1	L301	T	Water	6010B	500-86611
500-25717-1DU	Duplicate	T	Water	6010B	500-86611
500-25717-1MS	Matrix Spike	T	Water	6010B	500-86611
500-25717-1MSD	Matrix Spike Duplicate	T	Water	6010B	500-86611
500-25717-2	L305	T	Water	6010B	500-86611

Report Basis

R = Total Recoverable

T = Total

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Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:500-86575					
LCS 500-86575/4	Lab Control Sample	T	Water	SM 4500 NO2 B	
MB 500-86575/3	Method Blank	T	Water	SM 4500 NO2 B	
500-25717-1	L301	T	Water	SM 4500 NO2 B	
500-25717-2	L305	T	Water	SM 4500 NO2 B	
500-25717-2MS	Matrix Spike	T	Water	SM 4500 NO2 B	
500-25717-2MSD	Matrix Spike Duplicate	T	Water	SM 4500 NO2 B	
Analysis Batch:500-86590					
LCS 500-86590/4	Lab Control Sample	T	Water	9056	
MB 500-86590/3	Method Blank	T	Water	9056	
500-25717-1	L301	T	Water	9056	
500-25717-1MS	Matrix Spike	T	Water	9056	
500-25717-1MSD	Matrix Spike Duplicate	T	Water	9056	
500-25717-2	L305	T	Water	9056	
Analysis Batch:500-86657					
LCS 500-86657/4	Lab Control Sample	T	Water	SM 4500 F C	
MB 500-86657/3	Method Blank	T	Water	SM 4500 F C	
500-25717-1	L301	T	Water	SM 4500 F C	
Analysis Batch:500-86708					
LCS 500-86708/4	Lab Control Sample	T	Water	9056	
MB 500-86708/3	Method Blank	T	Water	9056	
500-25717-3	L304	T	Water	9056	
500-25717-3MS	Matrix Spike	T	Water	9056	
500-25717-3MSD	Matrix Spike Duplicate	T	Water	9056	
500-25717-4	L302	T	Water	9056	
Analysis Batch:500-86710					
LCS 500-86710/2	Lab Control Sample	T	Water	SM 2540C	
MB 500-86710/1	Method Blank	T	Water	SM 2540C	
500-25717-1	L301	T	Water	SM 2540C	
500-25717-2	L305	T	Water	SM 2540C	
Analysis Batch:500-86744					
LCS 500-86744/2	Lab Control Sample	T	Water	SM 4500 S2 F	
MB 500-86744/1	Method Blank	T	Water	SM 4500 S2 F	
500-25717-1	L301	T	Water	SM 4500 S2 F	
500-25717-2	L305	T	Water	SM 4500 S2 F	
500-25717-2MS	Matrix Spike	T	Water	SM 4500 S2 F	
500-25717-2MSD	Matrix Spike Duplicate	T	Water	SM 4500 S2 F	
500-25717-3	L304	T	Water	SM 4500 S2 F	
500-25717-4	L302	T	Water	SM 4500 S2 F	

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Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:500-86756					
LCS 500-86756/2	Lab Control Sample	T	Water	SM 2540C	
MB 500-86756/1	Method Blank	T	Water	SM 2540C	
500-25717-3	L304	T	Water	SM 2540C	
500-25717-4	L302	T	Water	SM 2540C	
Analysis Batch:500-86766					
LCS 500-86766/3	Lab Control Sample	T	Water	SM 2320B	
MB 500-86766/2	Method Blank	T	Water	SM 2320B	
500-25717-1	L301	T	Water	SM 2320B	
500-25717-2	L305	T	Water	SM 2320B	
500-25717-3	L304	T	Water	SM 2320B	
500-25717-4	L302	T	Water	SM 2320B	
Analysis Batch:500-86784					
LCS 500-86784/4	Lab Control Sample	T	Water	9056	
MB 500-86784/3	Method Blank	T	Water	9056	
500-25717-5	L303R	T	Water	9056	
500-25717-5MS	Matrix Spike	T	Water	9056	
500-25717-5MSD	Matrix Spike Duplicate	T	Water	9056	
Analysis Batch:500-86828					
LCS 500-86828/4	Lab Control Sample	T	Water	SM 4500 NO2 B	
MB 500-86828/3	Method Blank	T	Water	SM 4500 NO2 B	
500-25717-3	L304	T	Water	SM 4500 NO2 B	
500-25717-4	L302	T	Water	SM 4500 NO2 B	
Analysis Batch:500-86829					
LCS 500-86829/4	Lab Control Sample	T	Water	SM 4500 NO2 B	
MB 500-86829/3	Method Blank	T	Water	SM 4500 NO2 B	
500-25717-5	L303R	T	Water	SM 4500 NO2 B	
500-25717-5MS	Matrix Spike	T	Water	SM 4500 NO2 B	
500-25717-5MSD	Matrix Spike Duplicate	T	Water	SM 4500 NO2 B	
Analysis Batch:500-86897					
LCS 500-86897/2	Lab Control Sample	T	Water	SM 2540C	
MB 500-86897/1	Method Blank	T	Water	SM 2540C	
500-25717-5	L303R	T	Water	SM 2540C	
Analysis Batch:500-86902					
LCS 500-86902/2	Lab Control Sample	T	Water	SM 4500 S2 F	
MB 500-86902/1	Method Blank	T	Water	SM 4500 S2 F	
500-25717-5	L303R	T	Water	SM 4500 S2 F	

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Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Prep Batch: 500-87009					
LCS 500-87009/2-A	Lab Control Sample	T	Water	SM 4500 NH3 B	
MB 500-87009/1-A	Method Blank	T	Water	SM 4500 NH3 B	
500-25717-1	L301	T	Water	SM 4500 NH3 B	
500-25717-2	L305	T	Water	SM 4500 NH3 B	
500-25717-3	L304	T	Water	SM 4500 NH3 B	
500-25717-4	L302	T	Water	SM 4500 NH3 B	
500-25717-5	L303R	T	Water	SM 4500 NH3 B	
Analysis Batch:500-87048					
LCS 500-87048/13	Lab Control Sample	T	Water	SM 4500 NO3 F	
MB 500-87048/12	Method Blank	T	Water	SM 4500 NO3 F	
500-25717-1	L301	T	Water	SM 4500 NO3 F	
500-25717-2	L305	T	Water	SM 4500 NO3 F	
Analysis Batch:500-87077					
500-25717-1	L301	T	Water	Nitrate by calc	
500-25717-2	L305	T	Water	Nitrate by calc	
Analysis Batch:500-87153					
LCS 500-87009/2-A	Lab Control Sample	T	Water	SM 4500 NH3 C	500-87009
MB 500-87009/1-A	Method Blank	T	Water	SM 4500 NH3 C	500-87009
500-25717-1	L301	T	Water	SM 4500 NH3 C	500-87009
500-25717-2	L305	T	Water	SM 4500 NH3 C	500-87009
500-25717-3	L304	T	Water	SM 4500 NH3 C	500-87009
500-25717-4	L302	T	Water	SM 4500 NH3 C	500-87009
500-25717-5	L303R	T	Water	SM 4500 NH3 C	500-87009
Analysis Batch:500-87287					
LCS 500-87287/32	Lab Control Sample	T	Water	SM 4500 NO3 F	
MB 500-87287/31	Method Blank	T	Water	SM 4500 NO3 F	
500-25717-3	L304	T	Water	SM 4500 NO3 F	
500-25717-4	L302	T	Water	SM 4500 NO3 F	
500-25717-5	L303R	T	Water	SM 4500 NO3 F	
Analysis Batch:500-87298					
LCS 500-87298/3	Lab Control Sample	T	Water	SM 2320B	
MB 500-87298/2	Method Blank	T	Water	SM 2320B	
500-25717-5	L303R	T	Water	SM 2320B	
Analysis Batch:500-87346					
500-25717-3	L304	T	Water	Nitrate by calc	
500-25717-4	L302	T	Water	Nitrate by calc	
500-25717-5	L303R	T	Water	Nitrate by calc	

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Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:500-87371					
LCS 500-87371/4	Lab Control Sample	T	Water	SM 4500 F C	
MB 500-87371/3	Method Blank	T	Water	SM 4500 F C	
500-25717-2	L305	T	Water	SM 4500 F C	
500-25717-3	L304	T	Water	SM 4500 F C	
500-25717-4	L302	T	Water	SM 4500 F C	
500-25717-5	L303R	T	Water	SM 4500 F C	
Analysis Batch:500-87438					
LCS 500-87438/18	Lab Control Sample	T	Water	9251	
MB 500-87438/47	Method Blank	T	Water	9251	
500-25717-1	L301	T	Water	9251	
500-25717-2	L305	T	Water	9251	
500-25717-3	L304	T	Water	9251	
500-25717-4	L302	T	Water	9251	
500-25717-5	L303R	T	Water	9251	
Analysis Batch:500-87487					
LCS 500-87487/4	Lab Control Sample	T	Water	9038	
MB 500-87487/3	Method Blank	T	Water	9038	
500-25717-1	L301	T	Water	9038	
500-25717-2	L305	T	Water	9038	
Analysis Batch:500-87551					
LCS 500-87551/4	Lab Control Sample	T	Water	9038	
MB 500-87551/3	Method Blank	T	Water	9038	
500-25717-3	L304	T	Water	9038	
500-25717-4	L302	T	Water	9038	
500-25717-5	L303R	T	Water	9038	
Analysis Batch:500-87630					
LCS 500-87630/4	Lab Control Sample	T	Water	9056	
MB 500-87630/3	Method Blank	T	Water	9056	
500-25717-3	L304	T	Water	9056	
500-25717-3MS	Matrix Spike	T	Water	9056	
500-25717-3MSD	Matrix Spike Duplicate	T	Water	9056	
500-25717-4	L302	T	Water	9056	

Report Basis

T = Total

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Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

Surrogate Recovery Report**8260B Volatile Organic Compounds (GC/MS)****Client Matrix: Water**

Lab Sample ID	Client Sample ID	DCA %Rec	TOL %Rec	BFB %Rec	DBFM %Rec
500-25717-1	L301	96	100	93	93
500-25717-2	L305	113	110	99	110
500-25717-3	L304	102	101	94	93
500-25717-4	L302	107	105	100	98
500-25717-5	L303R	106	108	97	98
MB 500-86846/7		116	108	100	106
MB 500-86964/8		108	109	98	97
LCS 500-86846/8		109	106	101	109
LCS 500-86964/9		105	106	101	101

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	80-129
TOL = Toluene-d8 (Surr)	80-115
BFB = 4-Bromofluorobenzene (Surr)	80-115
DBFM = Dibromofluoromethane	80-124

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

Method Blank - Batch: 500-86846

**Method: 8260B
Preparation: 5030B**

Lab Sample ID: MB 500-86846/7
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 05/31/2010 0118
 Date Prepared: 05/31/2010 0118

Analysis Batch: 500-86846
 Prep Batch: N/A
 Units: ug/L

Instrument ID: MS06
 Lab File ID: 6M0530A.D
 Initial Weight/Volume: 10 mL
 Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Vinyl chloride	ND		1.0
1,1-Dichloroethene	ND		1.0
trans-1,2-Dichloroethene	ND		1.0
cis-1,2-Dichloroethene	ND		1.0
Chloroform	ND		1.0
1,1,1-Trichloroethane	ND		1.0
Carbon tetrachloride	ND		1.0
Benzene	ND		1.0
1,2-Dichloroethane	ND		1.0
Trichloroethene	ND		1.0
1,2-Dichloropropane	ND		1.0
Bromodichloromethane	ND		1.0
Toluene	ND		1.0
Tetrachloroethene	ND		1.0
Dibromochloromethane	ND		1.0
Chlorobenzene	ND		1.0
Ethylbenzene	ND		1.0
Xylenes, Total	ND		2.0
Styrene	ND		1.0
Bromoform	ND		1.0
Surrogate	% Rec	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	116	80 - 129	
Toluene-d8 (Surr)	108	80 - 115	
4-Bromofluorobenzene (Surr)	100	80 - 115	
Dibromofluoromethane	106	80 - 124	

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

Lab Control Sample - Batch: 500-86846

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 500-86846/8

Analysis Batch: 500-86846

Instrument ID: MS06

Client Matrix: Water

Prep Batch: N/A

Lab File ID: 6S0530A.D

Dilution: 1.0

Units: ug/L

Initial Weight/Volume: 10 mL

Date Analyzed: 05/31/2010 0056

Final Weight/Volume: 10 mL

Date Prepared: 05/31/2010 0056

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Vinyl chloride	25.0	27.1	109	56 - 128	
1,1-Dichloroethene	25.0	29.8	119	55 - 127	
trans-1,2-Dichloroethene	25.0	29.6	118	67 - 125	
cis-1,2-Dichloroethene	25.0	28.0	112	65 - 115	
Chloroform	25.0	29.8	119	74 - 121	
1,1,1-Trichloroethane	25.0	27.7	111	76 - 127	
Carbon tetrachloride	25.0	26.4	106	66 - 138	
Benzene	25.0	28.7	115	73 - 117	
1,2-Dichloroethane	25.0	31.2	125	71 - 124	*
Trichloroethene	25.0	27.5	110	77 - 118	
1,2-Dichloropropane	25.0	29.7	119	75 - 120	
Bromodichloromethane	25.0	28.2	113	79 - 124	
Toluene	25.0	26.8	107	76 - 119	
Tetrachloroethene	25.0	25.9	104	76 - 116	
Dibromochloromethane	25.0	27.3	109	68 - 122	
Chlorobenzene	25.0	27.8	111	78 - 113	
Ethylbenzene	25.0	27.0	108	80 - 116	
Xylenes, Total	75.0	80.8	108	79 - 120	
Styrene	25.0	27.9	112	80 - 120	
Bromoform	25.0	21.2	85	59 - 122	
Surrogate			% Rec	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)			109	80 - 129	
Toluene-d8 (Surr)			106	80 - 115	
4-Bromofluorobenzene (Surr)			101	80 - 115	
Dibromofluoromethane			109	80 - 124	

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

Method Blank - Batch: 500-86964

**Method: 8260B
Preparation: 5030B**

Lab Sample ID: MB 500-86964/8
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 06/02/2010 1123
 Date Prepared: 06/02/2010 1123

Analysis Batch: 500-86964
 Prep Batch: N/A
 Units: ug/L

Instrument ID: MS06
 Lab File ID: 6M0602.D
 Initial Weight/Volume: 10 mL
 Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Vinyl chloride	ND		1.0
1,1-Dichloroethene	ND		1.0
trans-1,2-Dichloroethene	ND		1.0
cis-1,2-Dichloroethene	ND		1.0
Chloroform	ND		1.0
1,1,1-Trichloroethane	ND		1.0
Carbon tetrachloride	ND		1.0
Benzene	ND		1.0
1,2-Dichloroethane	ND		1.0
Trichloroethene	ND		1.0
1,2-Dichloropropane	ND		1.0
Bromodichloromethane	ND		1.0
Toluene	ND		1.0
Tetrachloroethene	ND		1.0
Dibromochloromethane	ND		1.0
Chlorobenzene	ND		1.0
Ethylbenzene	ND		1.0
Xylenes, Total	ND		2.0
Styrene	ND		1.0
Bromoform	ND		1.0
Surrogate	% Rec	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	108	80 - 129	
Toluene-d8 (Surr)	109	80 - 115	
4-Bromofluorobenzene (Surr)	98	80 - 115	
Dibromofluoromethane	97	80 - 124	

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

Lab Control Sample - Batch: 500-86964

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 500-86964/9
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 06/02/2010 1101
 Date Prepared: 06/02/2010 1101

Analysis Batch: 500-86964
 Prep Batch: N/A
 Units: ug/L

Instrument ID: MS06
 Lab File ID: 6S0602.D
 Initial Weight/Volume: 10 mL
 Final Weight/Volume: 10 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Vinyl chloride	25.0	28.1	113	56 - 128	
1,1-Dichloroethene	25.0	24.5	98	55 - 127	
trans-1,2-Dichloroethene	25.0	25.1	100	67 - 125	
cis-1,2-Dichloroethene	25.0	23.3	93	65 - 115	
Chloroform	25.0	25.0	100	74 - 121	
1,1,1-Trichloroethane	25.0	23.4	93	76 - 127	
Carbon tetrachloride	25.0	22.9	92	66 - 138	
Benzene	25.0	25.2	101	73 - 117	
1,2-Dichloroethane	25.0	25.9	104	71 - 124	
Trichloroethene	25.0	23.8	95	77 - 118	
1,2-Dichloropropane	25.0	25.3	101	75 - 120	
Bromodichloromethane	25.0	23.7	95	79 - 124	
Toluene	25.0	23.1	93	76 - 119	
Tetrachloroethene	25.0	23.6	94	76 - 116	
Dibromochloromethane	25.0	22.1	88	68 - 122	
Chlorobenzene	25.0	24.3	97	78 - 113	
Ethylbenzene	25.0	24.8	99	80 - 116	
Xylenes, Total	75.0	74.4	99	79 - 120	
Styrene	25.0	24.9	100	80 - 120	
Bromoform	25.0	17.1	68	59 - 122	
Surrogate			% Rec	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)			105	80 - 129	
Toluene-d8 (Surr)			106	80 - 115	
4-Bromofluorobenzene (Surr)			101	80 - 115	
Dibromofluoromethane			101	80 - 124	

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

Method Blank - Batch: 500-86611

**Method: 6010B
Preparation: 3010A**

Lab Sample ID: MB 500-86611/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/08/2010 1641
Date Prepared: 05/27/2010 0919

Analysis Batch: 500-87398
Prep Batch: 500-86611
Units: mg/L

Instrument ID: ICP5
Lab File ID: P50608B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Aluminum	ND		0.20
Barium	ND		0.010
Chromium	ND		0.010
Calcium	ND		0.20
Copper	ND		0.010
Iron	ND		0.20
Magnesium	ND		0.10
Manganese	ND		0.010
Potassium	ND		0.50
Silicon	ND		0.20
Zinc	ND		0.020

Method Blank - Batch: 500-86611

**Method: 6010B
Preparation: 3010A**

Lab Sample ID: MB 500-86611/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/13/2010 1019
Date Prepared: 05/27/2010 0919

Analysis Batch: 500-87644
Prep Batch: 500-86611
Units: mg/L

Instrument ID: ICP5
Lab File ID: P50613A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Sodium	ND		1.0

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

Lab Control Sample - Batch: 500-86611

**Method: 6010B
Preparation: 3010A**

Lab Sample ID: LCS 500-86611/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/08/2010 1648
Date Prepared: 05/27/2010 0919

Analysis Batch: 500-87398
Prep Batch: 500-86611
Units: mg/L

Instrument ID: ICP5
Lab File ID: P50608B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	2.00	2.06	103	80 - 120	
Barium	2.00	2.01	100	80 - 120	
Chromium	0.200	0.210	105	80 - 120	
Calcium	10.0	10.6	106	80 - 120	
Copper	0.250	0.257	103	80 - 120	
Iron	1.00	1.04	104	80 - 120	
Magnesium	10.0	10.1	101	80 - 120	
Manganese	0.500	0.540	108	80 - 120	
Potassium	10.0	10.6	106	80 - 120	
Silicon	5.00	4.93	99	80 - 120	
Zinc	0.500	0.526	105	80 - 120	

Lab Control Sample - Batch: 500-86611

**Method: 6010B
Preparation: 3010A**

Lab Sample ID: LCS 500-86611/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/13/2010 1025
Date Prepared: 05/27/2010 0919

Analysis Batch: 500-87644
Prep Batch: 500-86611
Units: mg/L

Instrument ID: ICP5
Lab File ID: P50613A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sodium	10.0	9.44	94	80 - 120	

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 500-86611**

**Method: 6010B
Preparation: 3010A**

MS Lab Sample ID: 500-25717-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/08/2010 1712
Date Prepared: 05/27/2010 0919

Analysis Batch: 500-87398
Prep Batch: 500-86611

Instrument ID: ICP5
Lab File ID: P50608B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 500-25717-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/08/2010 1718
Date Prepared: 05/27/2010 0919

Analysis Batch: 500-87398
Prep Batch: 500-86611

Instrument ID: ICP5
Lab File ID: P50608B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Aluminum	110	112	75 - 125	2	20		
Barium	99	101	75 - 125	2	20		
Chromium	103	105	75 - 125	1	20		
Calcium	100	93	75 - 125	2	20		
Copper	109	112	75 - 125	3	20		
Iron	101	106	75 - 125	3	20		
Magnesium	98	96	75 - 125	1	20		
Manganese	108	108	75 - 125	0	20		
Potassium	148	158	75 - 125	3	20	F	F
Silicon	84	84	75 - 125	0	20		
Zinc	104	104	75 - 125	0	20		

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 500-86611**

**Method: 6010B
Preparation: 3010A**

MS Lab Sample ID: 500-25717-1
Client Matrix: Water
Dilution: 100
Date Analyzed: 06/13/2010 1103
Date Prepared: 05/27/2010 0919

Analysis Batch: 500-87644
Prep Batch: 500-86611

Instrument ID: ICP5
Lab File ID: P50613A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 500-25717-1
Client Matrix: Water
Dilution: 100
Date Analyzed: 06/13/2010 1109
Date Prepared: 05/27/2010 0919

Analysis Batch: 500-87644
Prep Batch: 500-86611

Instrument ID: ICP5
Lab File ID: P50613A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Sodium	143	-15	75 - 125	4	20	4	4

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

Duplicate - Batch: 500-86611

Method: 6010B
Preparation: 3010A

Lab Sample ID: 500-25717-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/08/2010 1706
Date Prepared: 05/27/2010 0919

Analysis Batch: 500-87398
Prep Batch: 500-86611
Units: mg/L

Instrument ID: ICP5
Lab File ID: P50608B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Aluminum	ND	ND	5	20	
Barium	0.16	0.150	4	20	
Chromium	ND	ND	1	20	
Calcium	30	28.3	5	20	
Copper	ND	ND	NC	20	
Iron	0.70	0.663	6	20	
Magnesium	23	22.1	4	20	
Manganese	0.20	0.191	5	20	
Potassium	23	21.5	5	20	
Silicon	9.6	9.19	4	20	
Zinc	ND	ND	34	20	

Duplicate - Batch: 500-86611

Method: 6010B
Preparation: 3010A

Lab Sample ID: 500-25717-1
Client Matrix: Water
Dilution: 100
Date Analyzed: 06/13/2010 1044
Date Prepared: 05/27/2010 0919

Analysis Batch: 500-87644
Prep Batch: 500-86611
Units: mg/L

Instrument ID: ICP5
Lab File ID: P50613A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Sodium	440	434	2	20	

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

Method Blank - Batch: 500-87031

**Method: 6010B
Preparation: 3010A**

Lab Sample ID: MB 500-87031/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/04/2010 1657
Date Prepared: 06/03/2010 0846

Analysis Batch: 500-87202
Prep Batch: 500-87031
Units: mg/L

Instrument ID: ICP5
Lab File ID: P50604B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Aluminum	ND		0.20
Barium	ND		0.010
Chromium	ND		0.010
Calcium	ND		0.20
Copper	ND		0.010
Iron	ND		0.20
Magnesium	ND		0.10
Manganese	ND		0.010
Potassium	ND		0.50
Silicon	ND		0.20
Zinc	ND		0.020

Lab Control Sample - Batch: 500-87031

**Method: 6010B
Preparation: 3010A**

Lab Sample ID: LCS 500-87031/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/04/2010 1704
Date Prepared: 06/03/2010 0846

Analysis Batch: 500-87202
Prep Batch: 500-87031
Units: mg/L

Instrument ID: ICP5
Lab File ID: P50604B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	2.00	1.98	99	80 - 120	
Barium	2.00	1.96	98	80 - 120	
Chromium	0.200	0.205	102	80 - 120	
Calcium	10.0	10.2	102	80 - 120	
Copper	0.250	0.256	103	80 - 120	
Iron	1.00	1.02	102	80 - 120	
Magnesium	10.0	10.0	100	80 - 120	
Manganese	0.500	0.525	105	80 - 120	
Potassium	10.0	10.2	102	80 - 120	
Silicon	5.00	4.86	97	80 - 120	
Zinc	0.500	0.499	100	80 - 120	

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

Method Blank - Batch: 500-86609

Lab Sample ID: MB 500-86609/1-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 06/05/2010 1609
 Date Prepared: 05/27/2010 0915

Analysis Batch: 500-87248
 Prep Batch: 500-86609
 Units: mg/L

Method: 6020
Preparation: 3005A
Total Recoverable

Instrument ID: ICPMS2
 Lab File ID: MS2060510A.csv
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Lead	ND		0.00050
Arsenic	ND		0.0010
Cadmium	ND		0.00050
Selenium	ND		0.0025

Lab Control Sample - Batch: 500-86609

Lab Sample ID: LCS 500-86609/2-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 06/05/2010 1612
 Date Prepared: 05/27/2010 0915

Analysis Batch: 500-87248
 Prep Batch: 500-86609
 Units: mg/L

Method: 6020
Preparation: 3005A
Total Recoverable

Instrument ID: ICPMS2
 Lab File ID: MS2060510A.csv
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Lead	0.100	0.111	111	80 - 120	
Arsenic	0.100	0.107	107	80 - 120	
Cadmium	0.0500	0.0535	107	80 - 120	
Selenium	0.100	0.112	112	80 - 120	

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

Method Blank - Batch: 500-86712

Lab Sample ID: MB 500-86712/1-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 06/01/2010 1232
 Date Prepared: 05/28/2010 0856

Analysis Batch: 500-86891
 Prep Batch: 500-86712
 Units: mg/L

**Method: 6020
 Preparation: 3005A
 Total Recoverable**

Instrument ID: ICPMS2
 Lab File ID: ms2060110a.csv
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Lead	ND	^	0.00050
Cadmium	ND		0.00050

Method Blank - Batch: 500-86712

Lab Sample ID: MB 500-86712/1-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 06/02/2010 1935
 Date Prepared: 05/28/2010 0856

Analysis Batch: 500-87023
 Prep Batch: 500-86712
 Units: mg/L

**Method: 6020
 Preparation: 3005A
 Total Recoverable**

Instrument ID: ICPMS2
 Lab File ID: MS2060210C.csv
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Arsenic	ND		0.0010
Selenium	ND		0.0025

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

Lab Control Sample - Batch: 500-86712

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 500-86712/2-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 06/01/2010 1235
 Date Prepared: 05/28/2010 0856

Analysis Batch: 500-86891
 Prep Batch: 500-86712
 Units: mg/L

Instrument ID: ICPMS2
 Lab File ID: ms2060110a.csv
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Lead	0.100	0.116	116	80 - 120	^
Cadmium	0.0500	0.0552	110	80 - 120	

Lab Control Sample - Batch: 500-86712

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 500-86712/2-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 06/02/2010 1938
 Date Prepared: 05/28/2010 0856

Analysis Batch: 500-87023
 Prep Batch: 500-86712
 Units: mg/L

Instrument ID: ICPMS2
 Lab File ID: MS2060210C.csv
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	0.100	0.101	101	80 - 120	
Selenium	0.100	0.103	103	80 - 120	

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

Method Blank - Batch: 500-86860

Lab Sample ID: MB 500-86860/1-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 06/02/2010 1817
 Date Prepared: 06/01/2010 1030

Analysis Batch: 500-87023
 Prep Batch: 500-86860
 Units: mg/L

Method: 6020
Preparation: 3005A
Total Recoverable

Instrument ID: ICPMS2
 Lab File ID: MS2060210C.csv
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Lead	ND		0.00050
Arsenic	ND		0.0010
Cadmium	ND		0.00050
Selenium	ND		0.0025

Lab Control Sample - Batch: 500-86860

Lab Sample ID: LCS 500-86860/2-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 06/02/2010 1820
 Date Prepared: 06/01/2010 1030

Analysis Batch: 500-87023
 Prep Batch: 500-86860
 Units: mg/L

Method: 6020
Preparation: 3005A
Total Recoverable

Instrument ID: ICPMS2
 Lab File ID: MS2060210C.csv
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Lead	0.100	0.111	111	80 - 120	
Arsenic	0.100	0.104	104	80 - 120	
Cadmium	0.0500	0.0534	107	80 - 120	
Selenium	0.100	0.108	108	80 - 120	

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

Method Blank - Batch: 500-87487

**Method: 9038
Preparation: N/A**

Lab Sample ID: MB 500-87487/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/10/2010 0140
Date Prepared: N/A

Analysis Batch: 500-87487
Prep Batch: N/A
Units: mg/L

Instrument ID: SPEC3
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL
Sulfate	ND		5.0

Lab Control Sample - Batch: 500-87487

**Method: 9038
Preparation: N/A**

Lab Sample ID: LCS 500-87487/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/10/2010 0141
Date Prepared: N/A

Analysis Batch: 500-87487
Prep Batch: N/A
Units: mg/L

Instrument ID: SPEC3
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfate	20.0	19.8	99	80 - 120	

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

Method Blank - Batch: 500-87551

**Method: 9038
Preparation: N/A**

Lab Sample ID: MB 500-87551/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/10/2010 2026
Date Prepared: N/A

Analysis Batch: 500-87551
Prep Batch: N/A
Units: mg/L

Instrument ID: SPEC3
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL
Sulfate	ND		5.0

Lab Control Sample - Batch: 500-87551

**Method: 9038
Preparation: N/A**

Lab Sample ID: LCS 500-87551/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/10/2010 2027
Date Prepared: N/A

Analysis Batch: 500-87551
Prep Batch: N/A
Units: mg/L

Instrument ID: SPEC3
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfate	20.0	21.7	108	80 - 120	

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

Method Blank - Batch: 500-86590

Method: 9056
Preparation: N/A

Lab Sample ID: MB 500-86590/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/26/2010 0958
Date Prepared: N/A

Analysis Batch: 500-86590
Prep Batch: N/A
Units: mg/L

Instrument ID: IC4
Lab File ID: C:\PEAKNET\DATA\20100
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL
Bromide	ND		0.20
Orthophosphate as P	ND		0.20

Lab Control Sample - Batch: 500-86590

Method: 9056
Preparation: N/A

Lab Sample ID: LCS 500-86590/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/26/2010 1012
Date Prepared: N/A

Analysis Batch: 500-86590
Prep Batch: N/A
Units: mg/L

Instrument ID: IC4
Lab File ID: C:\PEAKNET\DATA\20100
Initial Weight/Volume:
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Bromide	2.00	2.09	104	80 - 120	
Orthophosphate as P	2.00	2.05	103	80 - 120	

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 500-86590**

**Method: 9056
Preparation: N/A**

MS Lab Sample ID: 500-25717-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/26/2010 1748
Date Prepared: N/A

Analysis Batch: 500-86590
Prep Batch: N/A

Instrument ID: IC4
Lab File ID: C:\PEAKNET\DATA\2010
Initial Weight/Volume:
Final Weight/Volume: 100 mL

MSD Lab Sample ID: 500-25717-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/26/2010 1803
Date Prepared: N/A

Analysis Batch: 500-86590
Prep Batch: N/A

Instrument ID: IC4
Lab File ID: C:\PEAKNET\DATA\2010
Initial Weight/Volume:
Final Weight/Volume: 100 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Bromide	228	222	75 - 125	2	20	F	F
Orthophosphate as P	88	89	75 - 125	1	20	^	^

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

Method Blank - Batch: 500-86708

**Method: 9056
Preparation: N/A**

Lab Sample ID: MB 500-86708/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/27/2010 1027
Date Prepared: N/A

Analysis Batch: 500-86708
Prep Batch: N/A
Units: mg/L

Instrument ID: IC4
Lab File ID: C:\PEAKNET\DATA\20100
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL
Orthophosphate as P	ND		0.20

Lab Control Sample - Batch: 500-86708

**Method: 9056
Preparation: N/A**

Lab Sample ID: LCS 500-86708/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/27/2010 1042
Date Prepared: N/A

Analysis Batch: 500-86708
Prep Batch: N/A
Units: mg/L

Instrument ID: IC4
Lab File ID: C:\PEAKNET\DATA\20100
Initial Weight/Volume:
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Orthophosphate as P	2.00	2.03	102	80 - 120	

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 500-86708**

**Method: 9056
Preparation: N/A**

MS Lab Sample ID: 500-25717-3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/27/2010 1447
Date Prepared: N/A

Analysis Batch: 500-86708
Prep Batch: N/A

Instrument ID: IC4
Lab File ID: C:\PEAKNET\DATA\2010
Initial Weight/Volume:
Final Weight/Volume: 100 mL

MSD Lab Sample ID: 500-25717-3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/27/2010 1501
Date Prepared: N/A

Analysis Batch: 500-86708
Prep Batch: N/A

Instrument ID: IC4
Lab File ID: C:\PEAKNET\DATA\20100
Initial Weight/Volume:
Final Weight/Volume: 100 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Orthophosphate as P	104	105	75 - 125	1	20	^	^

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

Method Blank - Batch: 500-86784

Method: 9056
Preparation: N/A

Lab Sample ID: MB 500-86784/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/28/2010 1016
Date Prepared: N/A

Analysis Batch: 500-86784
Prep Batch: N/A
Units: mg/L

Instrument ID: IC4
Lab File ID: C:\PEAKNET\DATA\20100
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL
Bromide	ND		0.20
Orthophosphate as P	ND	^	0.20

Lab Control Sample - Batch: 500-86784

Method: 9056
Preparation: N/A

Lab Sample ID: LCS 500-86784/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/28/2010 1031
Date Prepared: N/A

Analysis Batch: 500-86784
Prep Batch: N/A
Units: mg/L

Instrument ID: IC4
Lab File ID: C:\PEAKNET\DATA\20100
Initial Weight/Volume:
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Bromide	2.00	2.28	114	80 - 120	
Orthophosphate as P	2.00	3.07	153	80 - 120	^ *

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 500-86784**

**Method: 9056
Preparation: N/A**

MS Lab Sample ID: 500-25717-5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/28/2010 1754
Date Prepared: N/A

Analysis Batch: 500-86784
Prep Batch: N/A

Instrument ID: IC4
Lab File ID: C:\PEAKNET\DATA\2010
Initial Weight/Volume:
Final Weight/Volume: 100 mL

MSD Lab Sample ID: 500-25717-5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/28/2010 1809
Date Prepared: N/A

Analysis Batch: 500-86784
Prep Batch: N/A

Instrument ID: IC4
Lab File ID: C:\PEAKNET\DATA\2010
Initial Weight/Volume:
Final Weight/Volume: 100 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Orthophosphate as P	139	141	75 - 125	1	20	^ F	^ F

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

Method Blank - Batch: 500-87630

**Method: 9056
Preparation: N/A**

Lab Sample ID: MB 500-87630/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/10/2010 1339
Date Prepared: N/A

Analysis Batch: 500-87630
Prep Batch: N/A
Units: mg/L

Instrument ID: IC4
Lab File ID: C:\PEAKNET\DATA\20100
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL
Bromide	ND		0.20

Lab Control Sample - Batch: 500-87630

**Method: 9056
Preparation: N/A**

Lab Sample ID: LCS 500-87630/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/10/2010 1353
Date Prepared: N/A

Analysis Batch: 500-87630
Prep Batch: N/A
Units: mg/L

Instrument ID: IC4
Lab File ID: C:\PEAKNET\DATA\20100
Initial Weight/Volume:
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Bromide	2.00	1.95	98	80 - 120	

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 500-87630**

**Method: 9056
Preparation: N/A**

MS Lab Sample ID: 500-25717-3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/10/2010 1422
Date Prepared: N/A

Analysis Batch: 500-87630
Prep Batch: N/A

Instrument ID: IC4
Lab File ID: C:\PEAKNET\DATA\2010
Initial Weight/Volume:
Final Weight/Volume: 100 mL

MSD Lab Sample ID: 500-25717-3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/10/2010 1436
Date Prepared: N/A

Analysis Batch: 500-87630
Prep Batch: N/A

Instrument ID: IC4
Lab File ID: C:\PEAKNET\DATA\20100
Initial Weight/Volume:
Final Weight/Volume: 100 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Bromide	83	97	75 - 125	8	20		

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

Method Blank - Batch: 500-87438

**Method: 9251
Preparation: N/A**

Lab Sample ID: MB 500-87438/47
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/09/2010 1006
Date Prepared: N/A

Analysis Batch: 500-87438
Prep Batch: N/A
Units: mg/L

Instrument ID: AQ2
Lab File ID: 2010-6-9-9-49-1a.csv
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL
Chloride	ND		2.0

Lab Control Sample - Batch: 500-87438

**Method: 9251
Preparation: N/A**

Lab Sample ID: LCS 500-87438/18
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/09/2010 0923
Date Prepared: N/A

Analysis Batch: 500-87438
Prep Batch: N/A
Units: mg/L

Instrument ID: AQ2
Lab File ID: 2010-6-9-9-49-1a.csv
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride	50.0	53.2	106	80 - 120	

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

Method Blank - Batch: 500-86766

Method: SM 2320B
Preparation: N/A

Lab Sample ID: MB 500-86766/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/28/2010 1121
Date Prepared: N/A

Analysis Batch: 500-86766
Prep Batch: N/A
Units: mg/L

Instrument ID: PC-Titrate
Lab File ID: 10052800.txt
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL
Bicarbonate Alkalinity as CaCO3	ND		5.0
Carbonate Alkalinity as CaCO3	ND		5.0

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

Method Blank - Batch: 500-87298

Method: SM 2320B
Preparation: N/A

Lab Sample ID: MB 500-87298/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/07/2010 1324
Date Prepared: N/A

Analysis Batch: 500-87298
Prep Batch: N/A
Units: mg/L

Instrument ID: PC-Titrate
Lab File ID: 10060700.txt
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL
Bicarbonate Alkalinity as CaCO3	ND		5.0
Carbonate Alkalinity as CaCO3	ND		5.0

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

Method Blank - Batch: 500-86710

Method: SM 2540C
Preparation: N/A

Lab Sample ID: MB 500-86710/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/28/2010 0859
Date Prepared: N/A

Analysis Batch: 500-86710
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Total Dissolved Solids	ND		10

Lab Control Sample - Batch: 500-86710

Method: SM 2540C
Preparation: N/A

Lab Sample ID: LCS 500-86710/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/28/2010 0902
Date Prepared: N/A

Analysis Batch: 500-86710
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Dissolved Solids	250	254	102	80 - 120	

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

Method Blank - Batch: 500-86756

Method: SM 2540C
Preparation: N/A

Lab Sample ID: MB 500-86756/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/28/2010 1625
Date Prepared: N/A

Analysis Batch: 500-86756
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Total Dissolved Solids	ND		10

Lab Control Sample - Batch: 500-86756

Method: SM 2540C
Preparation: N/A

Lab Sample ID: LCS 500-86756/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/28/2010 1626
Date Prepared: N/A

Analysis Batch: 500-86756
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Dissolved Solids	250	256	102	80 - 120	

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

Method Blank - Batch: 500-86897

Method: SM 2540C
Preparation: N/A

Lab Sample ID: MB 500-86897/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/01/2010 2130
Date Prepared: N/A

Analysis Batch: 500-86897
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Total Dissolved Solids	ND		10

Lab Control Sample - Batch: 500-86897

Method: SM 2540C
Preparation: N/A

Lab Sample ID: LCS 500-86897/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/01/2010 2133
Date Prepared: N/A

Analysis Batch: 500-86897
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Dissolved Solids	250	244	98	80 - 120	

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

Method Blank - Batch: 500-86657

**Method: SM 4500 F C
Preparation: N/A**

Lab Sample ID: MB 500-86657/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/27/2010 1322
Date Prepared: N/A

Analysis Batch: 500-86657
Prep Batch: N/A
Units: mg/L

Instrument ID: PC-Titrate
Lab File ID: 10052700.txt
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL
Fluoride	ND		0.10

Lab Control Sample - Batch: 500-86657

**Method: SM 4500 F C
Preparation: N/A**

Lab Sample ID: LCS 500-86657/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/27/2010 1325
Date Prepared: N/A

Analysis Batch: 500-86657
Prep Batch: N/A
Units: mg/L

Instrument ID: PC-Titrate
Lab File ID: 10052700.txt
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Fluoride	10.0	10.1	101	80 - 120	

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

Method Blank - Batch: 500-87371

**Method: SM 4500 F C
Preparation: N/A**

Lab Sample ID: MB 500-87371/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/08/2010 1209
Date Prepared: N/A

Analysis Batch: 500-87371
Prep Batch: N/A
Units: mg/L

Instrument ID: PC-Titrate
Lab File ID: 10060800.txt
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL
Fluoride	ND		0.10

Lab Control Sample - Batch: 500-87371

**Method: SM 4500 F C
Preparation: N/A**

Lab Sample ID: LCS 500-87371/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/08/2010 1211
Date Prepared: N/A

Analysis Batch: 500-87371
Prep Batch: N/A
Units: mg/L

Instrument ID: PC-Titrate
Lab File ID: 10060800.txt
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Fluoride	10.0	9.72	97	80 - 120	

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

Method Blank - Batch: 500-87009

Method: SM 4500 NH3 C
Preparation: SM 4500 NH3 B

Lab Sample ID: MB 500-87009/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/04/2010 1054
Date Prepared: 06/03/2010 0900

Analysis Batch: 500-87153
Prep Batch: 500-87009
Units: mg/L

Instrument ID: SPEC5
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	Result	Qual	RL
Ammonia	ND		0.20

Lab Control Sample - Batch: 500-87009

Method: SM 4500 NH3 C
Preparation: SM 4500 NH3 B

Lab Sample ID: LCS 500-87009/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/04/2010 1055
Date Prepared: 06/03/2010 0900

Analysis Batch: 500-87153
Prep Batch: 500-87009
Units: mg/L

Instrument ID: SPEC5
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Ammonia	2.50	2.60	104	80 - 120	

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

Method Blank - Batch: 500-86575

**Method: SM 4500 NO2 B
Preparation: N/A**

Lab Sample ID: MB 500-86575/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/26/2010 1525
Date Prepared: N/A

Analysis Batch: 500-86575
Prep Batch: N/A
Units: mg/L

Instrument ID: SPEC5
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL
Nitrogen, Nitrite	ND		0.020

Lab Control Sample - Batch: 500-86575

**Method: SM 4500 NO2 B
Preparation: N/A**

Lab Sample ID: LCS 500-86575/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/26/2010 1526
Date Prepared: N/A

Analysis Batch: 500-86575
Prep Batch: N/A
Units: mg/L

Instrument ID: SPEC5
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrogen, Nitrite	0.100	0.103	103	80 - 120	

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 500-86575**

**Method: SM 4500 NO2 B
Preparation: N/A**

MS Lab Sample ID: 500-25717-2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/26/2010 1527
Date Prepared: N/A

Analysis Batch: 500-86575
Prep Batch: N/A

Instrument ID: SPEC5
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 500-25717-2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/26/2010 1527
Date Prepared: N/A

Analysis Batch: 500-86575
Prep Batch: N/A

Instrument ID: SPEC5
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Nitrogen, Nitrite	90	91	75 - 125	1	20		

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

Method Blank - Batch: 500-86828

**Method: SM 4500 NO2 B
Preparation: N/A**

Lab Sample ID: MB 500-86828/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/27/2010 1630
Date Prepared: N/A

Analysis Batch: 500-86828
Prep Batch: N/A
Units: mg/L

Instrument ID: SPEC5
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Nitrogen, Nitrite	ND		0.020

Lab Control Sample - Batch: 500-86828

**Method: SM 4500 NO2 B
Preparation: N/A**

Lab Sample ID: LCS 500-86828/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/27/2010 1630
Date Prepared: N/A

Analysis Batch: 500-86828
Prep Batch: N/A
Units: mg/L

Instrument ID: SPEC5
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrogen, Nitrite	0.100	0.101	101	80 - 120	

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

Method Blank - Batch: 500-86829

**Method: SM 4500 NO2 B
Preparation: N/A**

Lab Sample ID: MB 500-86829/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/28/2010 1616
Date Prepared: N/A

Analysis Batch: 500-86829
Prep Batch: N/A
Units: mg/L

Instrument ID: SPEC5
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Nitrogen, Nitrite	ND		0.020

Lab Control Sample - Batch: 500-86829

**Method: SM 4500 NO2 B
Preparation: N/A**

Lab Sample ID: LCS 500-86829/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/28/2010 1616
Date Prepared: N/A

Analysis Batch: 500-86829
Prep Batch: N/A
Units: mg/L

Instrument ID: SPEC5
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrogen, Nitrite	0.100	0.101	101	80 - 120	

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 500-86829**

**Method: SM 4500 NO2 B
Preparation: N/A**

MS Lab Sample ID: 500-25717-5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/28/2010 1617
Date Prepared: N/A

Analysis Batch: 500-86829
Prep Batch: N/A

Instrument ID: SPEC5
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 500-25717-5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/28/2010 1618
Date Prepared: N/A

Analysis Batch: 500-86829
Prep Batch: N/A

Instrument ID: SPEC5
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Nitrogen, Nitrite	88	87	75 - 125	1	20		

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

Method Blank - Batch: 500-87048

**Method: SM 4500 NO3 F
Preparation: N/A**

Lab Sample ID: MB 500-87048/12
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/03/2010 0903
Date Prepared: N/A

Analysis Batch: 500-87048
Prep Batch: N/A
Units: mg/L

Instrument ID: AQ2
Lab File ID: 2010-6-3-10-18-2.csv
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL
Nitrogen, Nitrate Nitrite	ND		0.10

Lab Control Sample - Batch: 500-87048

**Method: SM 4500 NO3 F
Preparation: N/A**

Lab Sample ID: LCS 500-87048/13
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/03/2010 0905
Date Prepared: N/A

Analysis Batch: 500-87048
Prep Batch: N/A
Units: mg/L

Instrument ID: AQ2
Lab File ID: 2010-6-3-10-18-2.csv
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrogen, Nitrate Nitrite	1.00	0.994	99	80 - 120	

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

Method Blank - Batch: 500-87287

**Method: SM 4500 NO3 F
Preparation: N/A**

Lab Sample ID: MB 500-87287/31
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/07/2010 1210
Date Prepared: N/A

Analysis Batch: 500-87287
Prep Batch: N/A
Units: mg/L

Instrument ID: AQ2
Lab File ID: 20100607.csv
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL
Nitrogen, Nitrate Nitrite	ND		0.10

Lab Control Sample - Batch: 500-87287

**Method: SM 4500 NO3 F
Preparation: N/A**

Lab Sample ID: LCS 500-87287/32
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/07/2010 1212
Date Prepared: N/A

Analysis Batch: 500-87287
Prep Batch: N/A
Units: mg/L

Instrument ID: AQ2
Lab File ID: 20100607.csv
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrogen, Nitrate Nitrite	1.00	0.995	100	80 - 120	

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

Method Blank - Batch: 500-86744

Method: SM 4500 S2 F
Preparation: N/A

Lab Sample ID: MB 500-86744/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/28/2010 1210
Date Prepared: N/A

Analysis Batch: 500-86744
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 250 mL

Analyte	Result	Qual	RL
Sulfide	ND		1.0

Lab Control Sample - Batch: 500-86744

Method: SM 4500 S2 F
Preparation: N/A

Lab Sample ID: LCS 500-86744/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/28/2010 1213
Date Prepared: N/A

Analysis Batch: 500-86744
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 250 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfide	3.95	3.75	95	80 - 120	

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 500-86744**

Method: SM 4500 S2 F
Preparation: N/A

MS Lab Sample ID: 500-25717-2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/28/2010 1243
Date Prepared: N/A

Analysis Batch: 500-86744
Prep Batch: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 250 mL

MSD Lab Sample ID: 500-25717-2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/28/2010 1247
Date Prepared: N/A

Analysis Batch: 500-86744
Prep Batch: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 250 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Sulfide	94	101	75 - 125	7	20		

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-25717-1

Method Blank - Batch: 500-86902

Method: SM 4500 S2 F
Preparation: N/A

Lab Sample ID: MB 500-86902/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/01/2010 2240
Date Prepared: N/A

Analysis Batch: 500-86902
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 250 mL

Analyte	Result	Qual	RL
Sulfide	ND		1.0

Lab Control Sample - Batch: 500-86902

Method: SM 4500 S2 F
Preparation: N/A

Lab Sample ID: LCS 500-86902/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/01/2010 2243
Date Prepared: N/A

Analysis Batch: 500-86902
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 250 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfide	3.95	4.03	102	80 - 120	

June 04, 2010 1:02:33PM

Client: TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Attn: Donna Ingersoll

Work Order: NTE2537
Project Name: TA-Chicago
Project Nbr: 500-25717
P/O Nbr:
Date Received: 05/26/10

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
L301	NTE2537-01	05/25/10 09:05
L305	NTE2537-02	05/25/10 10:25

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

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Illinois Certification Number: 002179

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

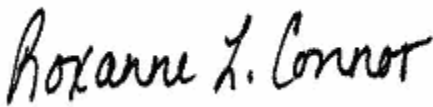
These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

All solids results are reported in wet weight unless specifically stated.

Estimated uncertainty is available upon request.

This report has been electronically signed.

Report Approved By:



Roxanne Connor

Program Manager - Conventional Accounts

Client TestAmerica Chicago
 2417 Bond Street
 University Park, IL 60484
 Attn Donna Ingersoll

Work Order: NTE2537
 Project Name: TA-Chicago
 Project Number: 500-25717
 Received: 05/26/10 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NTE2537-01 (L301 - Water) Sampled: 05/25/10 09:05									
General Chemistry Parameters									
Sulfite	10.8	HTI	mg/L	2.50	5.00	1	06/03/10 12:46	SM4500-SO3 B	10F0565
Sample ID: NTE2537-02 (L305 - Water) Sampled: 05/25/10 10:25									
General Chemistry Parameters									
Sulfite	14.4	HTI	mg/L	2.50	5.00	1	06/03/10 12:46	SM4500-SO3 B	10F0565

Client TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Attn Donna Ingersoll

Work Order: NTE2537
Project Name: TA-Chicago
Project Number: 500-25717
Received: 05/26/10 08:00

PROJECT QUALITY CONTROL DATA
Blank

Analyte Blank Value Q Units Q.C. Batch Lab Number Analyzed Date/Time

General Chemistry Parameters

10F0565-BLK1

Sulfite <2.50 mg/L 10F0565 10F0565-BLK1 06/03/10 12:46

Client TestAmerica Chicago
 2417 Bond Street
 University Park, IL 60484
 Attn Donna Ingersoll

Work Order: NTE2537
 Project Name: TA-Chicago
 Project Number: 500-25717
 Received: 05/26/10 08:00

PROJECT QUALITY CONTROL DATA

Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	% Rec.	Analyzed Date/Time
General Chemistry Parameters										
10F0565-DUP1										
Sulfite	10.8	10.8		mg/L	0	10	10F0565	NTE2761-02		06/03/10 12:46

Client TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Attn Donna Ingersoll

Work Order: NTE2537
Project Name: TA-Chicago
Project Number: 500-25717
Received: 05/26/10 08:00

PROJECT QUALITY CONTROL DATA
LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
General Chemistry Parameters								
10F0565-BS1								
Sulfite	20.0	19.6		ug/mL	98%	90 - 110	10F0565	06/03/10 12:46

Client TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Attn Donna Ingersoll

Work Order: NTE2537
Project Name: TA-Chicago
Project Number: 500-25717
Received: 05/26/10 08:00

CERTIFICATION SUMMARY

TestAmerica Nashville

Method	Matrix	AIHA	Nelac	Illinois
SM4500-SO3 B	Water		X	X

Client TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Attn Donna Ingersoll

Work Order: NTE2537
Project Name: TA-Chicago
Project Number: 500-25717
Received: 05/26/10 08:00

NELAC CERTIFICATION SUMMARY

TestAmerica Analytical - Nashville does not hold NELAC certifications for the following analytes included in this report

<u>Method</u>	<u>Matrix</u>	<u>Analyte</u>
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Client TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Attn Donna Ingersoll

Work Order: NTE2537
Project Name: TA-Chicago
Project Number: 500-25717
Received: 05/26/10 08:00

DATA QUALIFIERS AND DEFINITIONS

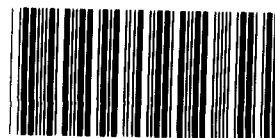
HTI The holding time for this test is immediate. The laboratory measurement, therefore, may not be suitable for compliance purposes.
ND Not detected at the reporting limit (or method detection limit if shown)

METHOD MODIFICATION NOTES

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT



NTE2537

Cooler Received/Opened On 5/26/10 @ 08:00_

1. Tracking # 3913 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 94660220

2. Temperature of rep. sample or temp blank when opened: 0.9 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: (1) front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) [Signature]

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (initial) [Signature]

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) [Signature]

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) [Signature]

I certify that I attached a label with the unique LIMS number to each container (initial) [Signature]

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO # _____

500-25717
Chain of Custody Record

NTE2537
06/07/10 23:59

Sampler ID _____
Temperature on Receipt _____
Drinking Water? Yes No

TestAmerica
The LEADER in ENVIRONMENTAL TESTING
TAL-4124-500 (11107)
Client: CAT MARLTON
Address: 6827 W. Rt. 24
City: _____ State: IL Zip Code: 62547
Project Name and Location (State):
Contract/Purchase Order/Quote No.

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix						Containers & Preservatives						Special Instructions/ Conditions of Receipt			
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc	NaOH					
L301	5/25/10	9:05A	X							4	1	1						
L305	5/25/10	10:25A	X							4	1	1						

Analysis (Attach list if more space is needed):
See attached 6/2/10/10

Project Manager: *[Signature]*
Date: 5/25/10
Lab Number: *[Handwritten]*
Chain of Custody Number: _____ of _____

Site Contact: _____ Lab Contact: _____
Carrier/Waybill Number: _____

Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison B Unknown
 Turn Around Time Required 24 Hours 48 Hours 7 Days 14 Days 21 Days Other _____

Sample Disposal:
 Return To Client Disposal By Lab Archive For _____ Months
 (A fee may be assessed if samples are retained longer than 1 month)

QC Requirements (Specify):
 1. Relinquished By: *[Signature]* Date: 5/25/10 Time: *[Handwritten]*
 2. Relinquished By: *[Signature]* Date: 5/25/10 Time: *[Handwritten]*
 3. Relinquished By: *[Signature]* Date: 5-26-10 Time: 0800

Comments: 6/1/2010

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

June 04, 2010 1:09:26PM

Client: TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Attn: Donna Ingersoll

Work Order: NTE2761
Project Name: TA-Chicago: CAT Mapleton LF
Project Nbr: 500-25717
P/O Nbr:
Date Received: 05/27/10

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
L304	NTE2761-01	05/26/10 08:33
L302	NTE2761-02	05/26/10 10:29

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

This material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the employee or agent responsible for delivering this material to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify us immediately at 615-726-0177.

Illinois Certification Number: 002179

The Chain(s) of Custody, 3 pages, are included and are an integral part of this report.

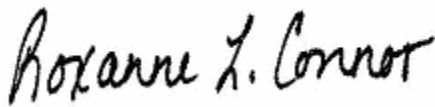
These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

All solids results are reported in wet weight unless specifically stated.

Estimated uncertainty is available upon request.

This report has been electronically signed.

Report Approved By:



Roxanne Connor

Program Manager - Conventional Accounts

Client TestAmerica Chicago
 2417 Bond Street
 University Park, IL 60484
 Attn Donna Ingersoll

Work Order: NTE2761
 Project Name: TA-Chicago: CAT Mapleton LF
 Project Number: 500-25717
 Received: 05/27/10 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NTE2761-01 (L304 - Water) Sampled: 05/26/10 08:33									
General Chemistry Parameters									
Sulfite	10.4	HTI	mg/L	2.50	5.00	1	06/03/10 12:46	SM4500-SO3 B	10F0565
Sample ID: NTE2761-02 (L302 - Water) Sampled: 05/26/10 10:29									
General Chemistry Parameters									
Sulfite	10.8	HTI	mg/L	2.50	5.00	1	06/03/10 12:46	SM4500-SO3 B	10F0565

Client TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Attn Donna Ingersoll

Work Order: NTE2761
Project Name: TA-Chicago: CAT Mapleton LF
Project Number: 500-25717
Received: 05/27/10 08:00

PROJECT QUALITY CONTROL DATA
Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
General Chemistry Parameters						
10F0565-BLK1						
Sulfite	<2.50		mg/L	10F0565	10F0565-BLK1	06/03/10 12:46

Client TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Attn Donna Ingersoll

Work Order: NTE2761
Project Name: TA-Chicago: CAT Mapleton LF
Project Number: 500-25717
Received: 05/27/10 08:00

PROJECT QUALITY CONTROL DATA

Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	% Rec.	Analyzed Date/Time
General Chemistry Parameters										
10F0565-DUP1										
Sulfite	10.8	10.8		mg/L	0	10	10F0565	NTE2761-02		06/03/10 12:46

Client TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Attn Donna Ingersoll

Work Order: NTE2761
Project Name: TA-Chicago: CAT Mapleton LF
Project Number: 500-25717
Received: 05/27/10 08:00

PROJECT QUALITY CONTROL DATA
LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
General Chemistry Parameters								
10F0565-BS1								
Sulfite	20.0	19.6		ug/mL	98%	90 - 110	10F0565	06/03/10 12:46

Client TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Attn Donna Ingersoll

Work Order: NTE2761
Project Name: TA-Chicago: CAT Mapleton LF
Project Number: 500-25717
Received: 05/27/10 08:00

CERTIFICATION SUMMARY

TestAmerica Nashville

Method	Matrix	AIHA	Nelac	Illinois
SM4500-SO3 B	Water		X	X

Client TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Attn Donna Ingersoll

Work Order: NTE2761
Project Name: TA-Chicago: CAT Mapleton LF
Project Number: 500-25717
Received: 05/27/10 08:00

NELAC CERTIFICATION SUMMARY

TestAmerica Analytical - Nashville does not hold NELAC certifications for the following analytes included in this report

<u>Method</u>	<u>Matrix</u>	<u>Analyte</u>
---------------	---------------	----------------

Client TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Attn Donna Ingersoll

Work Order: NTE2761
Project Name: TA-Chicago: CAT Mapleton LF
Project Number: 500-25717
Received: 05/27/10 08:00

DATA QUALIFIERS AND DEFINITIONS

HTI The holding time for this test is immediate. The laboratory measurement, therefore, may not be suitable for compliance purposes.
ND Not detected at the reporting limit (or method detection limit if shown)

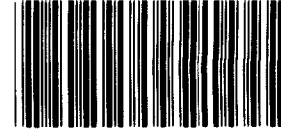
METHOD MODIFICATION NOTES

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Nashville, TN

COOLER RECEI



Cooler Received/Opened On 5/27/10 @ 08:00

NTE2761

1. Tracking # 3902 (last 4 digits, FedEx)

Courier: Fed_Ex IR Gun ID 96210146

2. Temperature of rep. sample or temp blank when opened: 1.4 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 from

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) PH

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: PH 5/27/10 Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (initial) PH

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) PH

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) PH

I certify that I attached a label with the unique LIMS number to each container (initial) PH

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...# _____

Test **NTE2761**

THE LEAD: 06/08/10 23:59

America
7 Bond Street
Versity Park, IL 60466
3534.5200

Sampler ID _____
Temperature on Receipt _____
Drinking Water? Yes No

Chain of Custody Record

TAL-4124-500 (1107)

Client: **DATE RESOURCE INC**

Date: **5/26/10**

Chain of Custody Number

Address: **8826 S HOMER ST**

Project Manager: **ANJELINA SHARICE**

Lab Number

Page _____ of _____

City/State/Zip Code: **IL 60577**

Telephone Number (Area Code)/Fax Number: **630-633-8802**

Lab Contact

Special Instructions/Conditions of Receipt

Project Name and Location (State): **LABORATE LABORATE**

Carrier/Waybill Number

Analysis (Attach list if more space is needed)

Matrix

Contract/Purchase Order/Quote No.

Containers & Preservatives

Unpres. H2SO4 HNO3 HCl NaOH ZnAc/NaOH

Containers for each sample may be combined on one line)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix			Containers & Preservatives						Analysis (Attach list if more space is needed)	Special Instructions/Conditions of Receipt				
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH			ZnAc/NaOH			
L304	5/26/10	8:30am	X														
L307	5/26/10	10:20am	X														

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown
 Turn Around Time Required
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other _____
 Sample Disposal
 Return To Client Disposal By Lab Archive For _____ Months
 QC Requirements (Specify)
 (A fee may be assessed if samples are retained longer than 1 month)

1. Relinquished By: **[Signature]** Date: **5/26/10** Time: **8:30am**
 2. Relinquished By: **[Signature]** Date: **5/26/10** Time: **10:20am**
 3. Relinquished By: **[Signature]** Date: **5/27/10** Time: **8:00am**

Comments

TRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

MS-111111

TestAmerica		Work Sharing Agreement (Include with every sample shipment)		Exporting Lab		TAL Chicago	
Import Lab Information		Lab Name	TAL Nashville	Export Lab Information		Exporting Lab Project Name	
PM Contact Name		Roxanne Conner		PM Contact Name		CAT Mapleton LF	
Backup Contact Name		Andy Johnson		Backup Contact Name		Donna Ingersoll	
Agreement Date				Agreement Date			
Pricing Information				Project Information			
QA/QC (ie MS/MSD) Billable?		No		Client Company Name		Caterpillar Mapleton	
Raw Data Surcharge		0 %		Date First Samples to Arrive		5/26/2010	
EDD Surcharge		0 %		Est. Duration of Sampling Event		one-time	
TAT Surcharges		0 %		Quote or Contract Reference ID		500-25717	
Other Charges Not in Unit Price? (ie. canisters, Level IV/III, shipping, bottles)		None					
Project Details		Non-Standard Work Product No					
Quality Assurance Plan		No					
List Certifications Required		IL					
Analyte/Cmpd. List with RLS Attached		No					
Results Dry-Weight Corrected		No					
Special Method Holding Times		None					
Internal Chain of Custody Required		No					
Known Hazards/High Analyte Level		No					
Saturday/Special Delivery Options		None					
Special Instructions		None					
Reporting Limit Value Convention		Report to MDL with "J" Values up to					
				"Non-Detect" Presentation Convention U			
Deliverable Requirements							
Preliminary Report		No	Transmittal medium	Format Column		Date Due to Export Lab	
Final Report		No	Email	IL		6/9/2010	
EDD		No	Email	Sid Chi		6/9/2010	
Total Access Reporting		NA	NA	NA			
Custom Forms		No	NA	Type Format Name			
Other Deliverable Definitions or Notes		Report & invoice to Karen LeClair at TAL Chicago.					
Analysis							
Sulfite	Method	SM4500-SO3	Matrix	# of Samples	Import Lab's Unit Price	Unit Price w/Surcharges	Extended Price
			Water	5	\$ 30.00	30.00	\$ 150.00
Approximate Total Project Value							\$ 150.00

Work Instruction No. CA-WI-010/B-10/08

June 04, 2010 1:32:13PM

Client: TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Attn: Donna Ingersoll

Work Order: NTE2823
Project Name: TA-Chicago: CAT Mapleton LF
Project Nbr: 500-25717
P/O Nbr:
Date Received: 05/28/10

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
L303R	NTE2823-01	05/27/10 10:07

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

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Illinois Certification Number: 002179

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

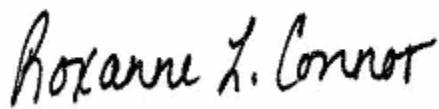
These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

All solids results are reported in wet weight unless specifically stated.

Estimated uncertainty is available upon request.

This report has been electronically signed.

Report Approved By:



Roxanne Connor

Program Manager - Conventional Accounts

Client TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Attn Donna Ingersoll

Work Order: NTE2823
Project Name: TA-Chicago: CAT Mapleton LF
Project Number: 500-25717
Received: 05/28/10 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NTE2823-01 (L303R - Water) Sampled: 05/27/10 10:07									
General Chemistry Parameters									
Sulfite	18.4	HTI	mg/L	2.50	5.00	1	06/03/10 12:46	SM4500-SO3 B	10F0565

Client TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Attn Donna Ingersoll

Work Order: NTE2823
Project Name: TA-Chicago: CAT Mapleton LF
Project Number: 500-25717
Received: 05/28/10 08:00

PROJECT QUALITY CONTROL DATA
Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
General Chemistry Parameters						
10F0565-BLK1						
Sulfite	<2.50		mg/L	10F0565	10F0565-BLK1	06/03/10 12:46

Client TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Attn Donna Ingersoll

Work Order: NTE2823
Project Name: TA-Chicago: CAT Mapleton LF
Project Number: 500-25717
Received: 05/28/10 08:00

PROJECT QUALITY CONTROL DATA

Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	% Rec.	Analyzed Date/Time
General Chemistry Parameters										
10F0565-DUP1										
Sulfite	10.8	10.8		mg/L	0	10	10F0565	NTE2761-02		06/03/10 12:46

Client TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Attn Donna Ingersoll

Work Order: NTE2823
Project Name: TA-Chicago: CAT Mapleton LF
Project Number: 500-25717
Received: 05/28/10 08:00

PROJECT QUALITY CONTROL DATA
LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
General Chemistry Parameters								
10F0565-BS1								
Sulfite	20.0	19.6		ug/mL	98%	90 - 110	10F0565	06/03/10 12:46

Client TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Attn Donna Ingersoll

Work Order: NTE2823
Project Name: TA-Chicago: CAT Mapleton LF
Project Number: 500-25717
Received: 05/28/10 08:00

CERTIFICATION SUMMARY

TestAmerica Nashville

Method	Matrix	AIHA	Nelac	Illinois
SM4500-SO3 B	Water		X	X

Client TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Attn Donna Ingersoll

Work Order: NTE2823
Project Name: TA-Chicago: CAT Mapleton LF
Project Number: 500-25717
Received: 05/28/10 08:00

NELAC CERTIFICATION SUMMARY

TestAmerica Analytical - Nashville does not hold NELAC certifications for the following analytes included in this report

<u>Method</u>	<u>Matrix</u>	<u>Analyte</u>
---------------	---------------	----------------

Client TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Attn Donna Ingersoll

Work Order: NTE2823
Project Name: TA-Chicago: CAT Mapleton LF
Project Number: 500-25717
Received: 05/28/10 08:00

DATA QUALIFIERS AND DEFINITIONS

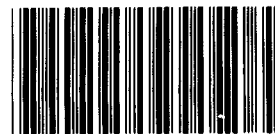
HTI The holding time for this test is immediate. The laboratory measurement, therefore, may not be suitable for compliance purposes.
ND Not detected at the reporting limit (or method detection limit if shown)

METHOD MODIFICATION NOTES

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER R



NTE2823

Cooler Received/Opened On: 5/28/2010 @ 8:00

Fed-ex Tracking number 9162

IR Gun ID: 9560068

- 1. Temperature of rep. sample or temp blank when opened: 12 Degrees Celsius
- 3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO... NA
- 4. Were custody seals on outside of cooler? YES...NO...NA
If yes, how many and where: front
- 5. Were the seals intact, signed, and dated correctly? YES...NO...NA
- 6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial)

- 7. Were custody seals on containers: YES NO and Intact YES...NO...NA
Were these signed and dated correctly? YES...NO...NA
- 8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None
- 9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None
- 10. Did all containers arrive in good condition (unbroken)? YES...NO...NA
- 11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA
- 12. Did all container labels and tags agree with custody papers? YES...NO...NA
- 13a. Were VOA vials received? YES...NO...NA
- b. Was there any observable headspace present in any VOA vial? YES...NO...NA
- 14. Was there a Trip Blank in this cooler? YES...NO... NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (initial)

- 15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES NO...NA
- b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA
- 16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial)

- 17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA
- 18. Did you sign the custody papers in the appropriate place? YES...NO...NA
- 19. Were correct containers used for the analysis requested? YES...NO...NA
- 20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial)

I certify that I attached a label with the unique LIMS number to each container (initial)

- 21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...# 57051

TestAmerica

TestAmerica
2417 Bond Street
University Park, IL 60466
708.534.5200

Sampler ID _____
Temperature on Receipt _____
Drinking Water? Yes No

502-45719
Chain of
Custody Record

TAL-4124-500 (1107)

Client _____

Date _____

Chain of Custody Number _____

Address _____

Project Manager _____

Lab Number _____

City _____ State _____ Zip Code _____

Telephone Number (Area Code)/Fax Number _____

Analysis (Attach list if _____)

Page _____ of _____

Project Name and Location (State) _____

Site Contact _____

Lab Contact _____

Contract/Purchase Order/Quote No. _____

Carrier/Waybill Number _____

06/09/10 23:59
NTE2823

Special Instructions/
Conditions of Receipt

Sample I.D. No. and Description
(Containers for each sample may be combined on one line)

Date _____ Time _____

Matrix _____

Containers & Preservatives

Air _____ Aqueous _____ Sed. _____ Soil _____ Unpres. _____ H2SO4 _____ HNO3 _____ HCl _____ NaOH _____ ZnAc/NaOH _____

Sample I.D. No. and Description	Date	Time	Matrix	Containers & Preservatives	Received By	Date	Time
502K	5/27/10	14:14	Soil	Sealed in plastic bag	S.N.	5/28/10	8:40

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown
 Turn Around Time Required
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other _____

Sample Disposal
 Return To Client Disposal By Lab Archive For _____ Months
 QC Requirements (Specify)
 (A fee may be assessed if samples are retained longer than 1 month)

1. Relinquished By _____ Date _____ Time _____

1. Received By _____ Date _____ Time _____

2. Relinquished By _____ Date _____ Time _____

2. Received By _____ Date _____ Time _____

3. Relinquished By _____ Date _____ Time _____

3. Received By _____ Date _____ Time _____

Comments _____

TestAmerica

TestAmerica
2417 Bond Street
University Park, IL 60466
708.534.5200

THE LEADER IN ENVIRONMENTAL TESTING

Sampler ID _____

Temperature on Receipt _____

Drinking Water? Yes No

Chain of Custody Record

TAL-4124-500 (1107)

Client CAT MAPLETON		Project Manager ANDREW JARRICK		Date 5/25/10	Chain of Custody Number
Address 8826 W. RT. 24		Telephone Number (Area Code)/Fax Number (309) 633-8482		Lab Number	Page _____ of _____

City MAPLETON	State IL	Zip Code 61547	Site Contact	Lab Contact	Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt
Project Name and Location (State) MAPLETON LANDFILL, MAPLETON IL			Carrier/Waybill Number			
Contract/Purchase Order/Quote No.			Matrix		Containers & Preservatives	

SEE PARAMETER LIST

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix				Containers & Preservatives							Special Instructions/ Conditions of Receipt		
			Air	Aqueous	Sed.	Soil	Urnnes.	AgSO4	HM03	HCl	NaOH	ZnAc2/ NaOH				
1 L301	5/25/10	9:05 AM		X				4	1	1	3					Sulfide work
2 L305	5/25/10	10:25 AM		X				4	1	1	3					Shared to JAL Nashville. DU 5/26/10

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown

Sample Disposal: Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other _____

QC Requirements (Specify)

1. Relinquished By 	Date 5/25/10	Time 2:55 PM	1. Received By 	Date 5/26/10	Time 14:55
2. Relinquished By 	Date 5/25/10	Time 4:40	2. Received By 	Date 5/26/10	Time 1000
3. Relinquished By	Date	Time 6:40	3. Received By	Date	Time

Comments

TestAmerica

TestAmerica
2417 Bond Street
University Park, IL 60466
708.534.5200

Sampler ID _____

Temperature on Receipt _____

Drinking Water? Yes No

Chain of Custody Record

500-25717

TAL-4124-500 (1107)

Client CATERPILLAR INC		Project Manager ANDREW JARRICK		Date 5/26/10	Chain of Custody Number
Address 8826 W. ROUTE 24		Telephone Number (Area Code)/Fax Number 309-633-8482		Lab Number	Page _____ of _____

City MAPLETON	State IL	Zip Code 61547	Site Contact	Lab Contact	Analysis (Attach list if more space is needed)
Project Name and Location (State) LANDFILL LEACHATE			Carrier/Waybill Number		

Contract/Purchase Order/Quote No.	Matrix	Containers & Preservatives	Special Instructions/ Conditions of Receipt
-----------------------------------	--------	----------------------------	---

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix				Containers & Preservatives						Special Instructions/ Conditions of Receipt
			AV	Aqueous	Sed.	Soil	Unres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	
3 L304	5/26/10	8:33 AM	X				4	1	1	3		1	SEE PARAMETER LIST
4 L302	5/26/10	10:29 AM	X				4	1	1	3		1	

Sulfite
work sent
directly
TO
TAC
Nashville

Possible Hazard Identification	Sample Disposal	(A fee may be assessed if samples are retained longer than 1 month)
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown	<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	

Turn Around Time Required	QC Requirements (Specify)
<input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input type="checkbox"/> Other _____	

1. Relinquished By <i>[Signature]</i>	Date 5/26/10	Time 3:02	1. Received By <i>[Signature]</i>	Date 5/26/10	Time 1502
2. Relinquished By <i>[Signature]</i>	Date 5-26-10	Time 1657	2. Received By <i>[Signature]</i>	Date 5/27/10	Time 1015
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

TestAmerica

TestAmerica
2417 Bond Street
University Park, IL 60466
708.534.5200

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124-600 (1107)

Client
CATERPILLAR INC.

Address
8826 W ROUTE 24

City
MAPLETON State **IL** Zip Code **61547**

Project Name and Location (State)
MAPLETON LANDFILL

Contract/Purchase Order/Quote No.

Sampler ID _____

Temperature on Receipt _____

Drinking Water? Yes No

500 25717
**Chain of
Custody Record**

Project Manager
ANDREW JARRICK

Date

Chain of Custody Number

Telephone Number (Area Code)/Fax Number
309-633-8482

Lab Number

Page _____ of _____

Site Contact _____ Lab Contact _____

Analysis (Attach list if more space is needed)

Carrier/Waybill Number

Special Instructions/
Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix				Containers & Preservatives						Analysis	Special Instructions/ Conditions of Receipt		
			Air	Aqueous	Solid	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc2			NaOH	
5 L303R	5/27/10	10:07am	X				4	1	1	3	1				SEE PARAMETER LIST	Salt + H ₂ O Wash put directly to TAL NASHVILLE

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other _____

QC Requirements (Specify)

1. Relinquished By 	Date 5/27/10	Time 12:22	1. Received By 	Date May 27, 2010	Time 12:24
2. Relinquished By 	Date 5/27/10	Time 1:04	2. Received By 	Date 5/27/10	Time 10:25
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

Bottle Order Information

Bottle Order: *Mapleton Landfill*
 Bottle Order #: *4784*
 Date Order Posted: *4/20/2009 9:25:18AM*
 Order Status: *Ready To Process*
 Prepared By: *James Andrews*
 Deliver By Date: *4/30/2010 4:18:00PM*
 Lab Project Number: *50002345*

Order Completion Information

Filled by:
 Sent Date:
 Sent Via:
 Tracking #:

Sets	Bottles/Set	Qty	Bottle Type Description	Preservative	Method	Matrix	Sample Type	Comments
5	1	5	Plastic 500ml - with Nitric Acid	Nitric Acid	6010B - (MOD) RCRA Metals - Hg	Water	Normal	Metals - Total
5	3	15	Voa Vial 40ml - Hydrochloric Acid	Hydrochloric Acid	8260B - (MOD) Target Compound List - 4.2	Water	Normal	VOCs
5	1	5	Plastic 1 liter - unpreserved	None	9251 - Chloride	Water	Normal	TDS, Cl, F, NO2, SO4
					4500_F_C - Fluoride	Water	Normal	
					SM4500_NO2_B - Nitrogen, Nitrite	Water	Normal	
					9038 - Sulfate	Water	Normal	
					2540C - Total Dissolved Solids	Water	Normal	
5	1	5	Plastic 500ml - with Sulfuric Acid	Sulfuric Acid	SM4500_NO3_F - Nitrogen, Nitrate Nitrite	Water	Normal	NO2 + NO3

Notes to Field Staff

Health and Safety Notes

Preservative	Comment
Hydrochloric Acid	CAUTION! CONTAINS 1:1 HYDROCHLORIC ACID. Avoid skin and eye contact. If contact is made, FLUSH IMMEDIATELY with water.
Nitric Acid	CAUTION! STRONG OXIDIZER! CONTAINS 1:1 NITRIC ACID. Avoid skin and eye contact. If contact is made, FLUSH IMMEDIATELY with water.
Sulfuric Acid	CAUTION! CONTAINS 1:1 SULFURIC ACID. Avoid skin and eye contact. If contact is made, FLUSH IMMEDIATELY with water.

Relinquished By	Company	Date	Time	Received By	Company	Seal #:
Relinquished By	Company	Date	Time	Received By	Company	Seal #:
						Seal #:
						Seal #:
						Seal #:

Please notify us immediately if an error is found in shipment

Bottle Order Information

Order Completion Information

Bottle Order: *Mapleton Landfill - Add'l Sampling*
 Bottle Order #: *5649*
 Date Order Posted: *5/19/2010 11:35:22AM*
 Order Status: *Ready To Process*
 Prepared By: *Donna Ingersoll*
 Deliver By Date: *5/24/2010 2:44:00PM*
 Lab Project Number: *50002345*

Filled by:
 Sent Date:
 Sent Via:
 Tracking #:

Sets	Bottles/Set	Qty	Bottle Type Description	Preservative	Method	Matrix	Sample Type	Comments
5	1	5	Plastic 250ml - unpreserved	None	9056 - (MOD) Local Method	Water	Normal	Anions - Bromide, OrthoP
5	1	5	Plastic 1 liter - Zn Acetate and NaOH	Zinc Acetate and Sodium Hydroxide	SM4500_S2_F - Sulfide	Water	Normal	Sulfide
5	1	5	Plastic 1 liter - unpreserved	None	2320B - (MOD) Local Method	Water	Normal	Alk - Carb & Bicarb
5	1	5	Plastic 1 liter - unpreserved	None		Water	Normal	Sulfite

Notes to Field Staff:

Health and Safety Notes:

Preservative	Comment
Zinc Acetate and Sodium Hydroxide	Contains 2N Zinc Acetate. Avoid skin and eye contact. If contact is made, FLUSH IMMEDIATELY with water. CAUTION! STRONG CAUSTIC! CONTAINS SODIUM HYDROXIDE PELLETS. Avoid skin and eye contact. If contact is made, FLUSH IMMEDIATELY with water.

Relinquished By	Company	Date	Time	Received By	Company	Seal #.
Relinquished By	Company	Date	Time	Received By	Company	Seal #.

Please notify us immediately if an error is found in shipment

Login Sample Receipt Check List

Client: Caterpillar Inc.

Job Number: 500-25717-1

Login Number: 25717**List Source: TestAmerica Chicago****Creator: Lunt, Jeff T****List Number: 1**

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	3.2
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	True	



ANALYTICAL REPORT

Job Number: 500-27047-1

Job Description: Mapleton Landfill

For:

Caterpillar Inc.

8826 W. Route 24

Mapleton, IL 61547

Attention: Mr. Dennis Riehl

A handwritten signature in black ink that reads "Donna L. Ingersoll".

Approved for release.
Donna L. Ingersoll
Project Manager II
8/13/2010 2:48 PM

Donna L Ingersoll
Project Manager II
donna.ingersoll@testamericainc.com
08/13/2010

cc: Peggy Popp

These test results meet all the requirements of NELAC for accredited parameters.

The Lab Certification ID# is 100201.

All questions regarding this test report should be directed to the TestAmerica Project Manager whose signature appears on this report. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.

TestAmerica Chicago 2417 Bond Street, University Park, IL 60484

Tel (708) 534-5200 Fax (708) 534-5211 www.testamericainc.com



Job Narrative
500-27047-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

Metals

No analytical or quality issues were noted.

General Chemistry

Method(s) SM 4500 P E: The phosphorus matrix spike (MS) recovery for batch 91405 was outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. L301 (500-27047-1)

Method(s) 353.2, SM 4500 NO3 F: The nitrate+nitrite continuing calibration verification (CCV) for 91644 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. L301 (500-27047-1), L302 (500-27047-2), L303R (500-27047-3), L304 (500-27047-4), L305 (500-27047-5)

Method(s) SM 4500 NO3 F: The nitrate + nitrite matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 91644 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.L305 (500-27047-5)

No other analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: Caterpillar Inc.

Job Number: 500-27047-1

Lab Sample ID	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
500-27047-1	L301				
Barium		0.13	0.010	mg/L	6010B
Calcium		22	0.20	mg/L	6010B
Iron		1.5	0.20	mg/L	6010B
Magnesium		16	0.10	mg/L	6010B
Manganese		0.18	0.010	mg/L	6010B
Potassium		11	0.50	mg/L	6010B
Silicon		9.0	0.20	mg/L	6010B
Sodium		420	1.0	mg/L	6010B
Sulfate		150	50	mg/L	9038
Chloride		130	10	mg/L	9251
Bicarbonate Alkalinity as CaCO3		790	5.0	mg/L	SM 2320B
Total Dissolved Solids		1400	20	mg/L	SM 2540C
Fluoride		2.6	0.10	mg/L	SM 4500 F C
Phosphorus as P		0.47	0.050	mg/L	SM 4500 P E
Phosphorus as PO4		1.4	0.15	mg/L	SM 4500 P E
Sulfide		1.1	1.0	mg/L	SM 4500 S2 F
500-27047-2	L302				
Barium		0.088	0.010	mg/L	6010B
Calcium		11	0.20	mg/L	6010B
Iron		4.9	0.20	mg/L	6010B
Magnesium		6.4	0.10	mg/L	6010B
Manganese		0.052	0.010	mg/L	6010B
Potassium		11	0.50	mg/L	6010B
Silicon		13	0.20	mg/L	6010B
Sodium		570	20	mg/L	6010B
Chloride		380	50	mg/L	9251
Bicarbonate Alkalinity as CaCO3		880	5.0	mg/L	SM 2320B
Total Dissolved Solids		2000	20	mg/L	SM 2540C
Fluoride		2.9	0.10	mg/L	SM 4500 F C
Phosphorus as P		0.39	0.050	mg/L	SM 4500 P E
Phosphorus as PO4		1.2	0.15	mg/L	SM 4500 P E
Sulfide		1.1	1.0	mg/L	SM 4500 S2 F

EXECUTIVE SUMMARY - Detections

Client: Caterpillar Inc.

Job Number: 500-27047-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
500-27047-3	L303R				
Barium		0.078	0.010	mg/L	6010B
Calcium		28	0.20	mg/L	6010B
Iron		1.9	0.20	mg/L	6010B
Magnesium		28	0.10	mg/L	6010B
Manganese		0.45	0.010	mg/L	6010B
Potassium		12	0.50	mg/L	6010B
Silicon		7.8	0.20	mg/L	6010B
Sodium		400	1.0	mg/L	6010B
Sulfate		510	100	mg/L	9038
Chloride		21	2.0	mg/L	9251
Bicarbonate Alkalinity as CaCO3		720	5.0	mg/L	SM 2320B
Total Dissolved Solids		1400	12	mg/L	SM 2540C
Fluoride		1.9	0.10	mg/L	SM 4500 F C
Phosphorus as P		0.084	0.050	mg/L	SM 4500 P E
Phosphorus as PO4		0.26	0.15	mg/L	SM 4500 P E
Total Recoverable					
Lead		0.0010	0.00050	mg/L	6020
500-27047-4	L304				
Barium		0.038	0.010	mg/L	6010B
Calcium		7.1	0.20	mg/L	6010B
Iron		0.49	0.20	mg/L	6010B
Magnesium		12	0.10	mg/L	6010B
Manganese		0.051	0.010	mg/L	6010B
Potassium		24	0.50	mg/L	6010B
Silicon		6.2	0.20	mg/L	6010B
Sodium		370	1.0	mg/L	6010B
Sulfate		5.1	5.0	mg/L	9038
Chloride		100	10	mg/L	9251
Bicarbonate Alkalinity as CaCO3		690	5.0	mg/L	SM 2320B
Total Dissolved Solids		1100	10	mg/L	SM 2540C
Fluoride		4.8	0.10	mg/L	SM 4500 F C
Phosphorus as P		0.15	0.050	mg/L	SM 4500 P E
Phosphorus as PO4		0.45	0.15	mg/L	SM 4500 P E
Sulfide		1.2	1.0	mg/L	SM 4500 S2 F

EXECUTIVE SUMMARY - Detections

Client: Caterpillar Inc.

Job Number: 500-27047-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
500-27047-5	L305				
Barium		0.015	0.010	mg/L	6010B
Calcium		6.7	0.20	mg/L	6010B
Magnesium		5.0	0.10	mg/L	6010B
Manganese		0.058	0.010	mg/L	6010B
Potassium		23	0.50	mg/L	6010B
Silicon		4.6	0.20	mg/L	6010B
Sodium		400	1.0	mg/L	6010B
Sulfate		250	50	mg/L	9038
Chloride		160	10	mg/L	9251
Bicarbonate Alkalinity as CaCO ₃		550	5.0	mg/L	SM 2320B
Carbonate Alkalinity as CaCO ₃		39	5.0	mg/L	SM 2320B
Total Dissolved Solids		1300	10	mg/L	SM 2540C
Fluoride		4.5	0.10	mg/L	SM 4500 F C
Phosphorus as P		0.11	0.050	mg/L	SM 4500 P E
Phosphorus as PO ₄		0.35	0.15	mg/L	SM 4500 P E

METHOD SUMMARY

Client: Caterpillar Inc.

Job Number: 500-27047-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Metals (ICP)	TAL CHI	SW846 6010B	
Preparation, Total Metals	TAL CHI		SW846 3010A
Metals (ICP/MS)	TAL CHI	SW846 6020	
Preparation, Total Recoverable or Dissolved Metals	TAL CHI		SW846 3005A
Sulfate, Turbidimetric	TAL CHI	SW846 9038	
Chloride	TAL CHI	SW846 9251	
Nitrogen, Nitrate-Nitrite	TAL CHI	SM Nitrate by calc	
Alkalinity	TAL CHI	SM SM 2320B	
Solids, Total Dissolved (TDS)	TAL CHI	SM SM 2540C	
Fluoride	TAL CHI	SM SM 4500 F C	
Nitrogen, Nitrite	TAL CHI	SM SM 4500 NO2 B	
Nitrogen, Nitrate	TAL CHI	SM SM 4500 NO3 F	
Phosphorus	TAL CHI	SM SM 4500 P E	
Phosphorous, Total and Ortho	TAL CHI		SM SM 4500 P B
Sulfide, Total	TAL CHI	SM SM 4500 S2 F	

Lab References:

TAL CHI = TestAmerica Chicago

Method References:

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Caterpillar Inc.

Job Number: 500-27047-1

Method	Analyst	Analyst ID
SW846 6010B	Smith, Todd D	TDS
SW846 6020	Kolarczyk, Paul F	PFK
SW846 9038	Boyd, Cheryl L	CLB
SW846 9251	Deb, Khona	KD
SM Nitrate by calc	Ficarello, Peter M	PMF
SM SM 2320B	Moore, Colleen L	CLM
SM SM 2540C	Moore, Colleen L	CLM
SM SM 4500 F C	Moore, Colleen L	CLM
SM SM 4500 NO2 B	Moore, Colleen L	CLM
SM SM 4500 NO3 F	Ficarello, Peter M	PMF
SM SM 4500 P E	Ficarello, Peter M	PMF
SM SM 4500 S2 F	Boyd, Cheryl L	CLB

SAMPLE SUMMARY

Client: Caterpillar Inc.

Job Number: 500-27047-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
500-27047-1	L301	Water	08/04/2010 0850	08/05/2010 1000
500-27047-2	L302	Water	08/04/2010 1305	08/05/2010 1000
500-27047-3	L303R	Water	08/04/2010 1400	08/05/2010 1000
500-27047-4	L304	Water	08/04/2010 1120	08/05/2010 1000
500-27047-5	L305	Water	08/04/2010 1005	08/05/2010 1000

SAMPLE RESULTS

Mr. Dennis Riehl
 Caterpillar Inc.
 8826 W. Route 24
 Mapleton, IL 61547

Job Number: 500-27047-1

Client Sample ID: L301
Lab Sample ID: 500-27047-1

Date Sampled: 08/04/2010 0850
 Date Received: 08/05/2010 1000
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: 6010B			Date Analyzed: 08/11/2010 1506	
Prep Method: 3010A			Date Prepared: 08/11/2010 0845	
Barium	0.13	mg/L	0.010	1.0
Calcium	22	mg/L	0.20	1.0
Chromium	ND	mg/L	0.010	1.0
Copper	ND	mg/L	0.010	1.0
Iron	1.5	mg/L	0.20	1.0
Magnesium	16	mg/L	0.10	1.0
Manganese	0.18	mg/L	0.010	1.0
Potassium	11	mg/L	0.50	1.0
Silicon	9.0	mg/L	0.20	1.0
Sodium	420	mg/L	1.0	1.0
Zinc	ND	mg/L	0.020	1.0
Method: Total Recoverable-6020			Date Analyzed: 08/12/2010 0338	
Prep Method: 3005A			Date Prepared: 08/11/2010 0820	
Lead	ND	mg/L	0.00050	1.0
Cadmium	ND	mg/L	0.00050	1.0
Selenium	ND	mg/L	0.0025	1.0
Method: 9038			Date Analyzed: 08/08/2010 1718	
Sulfate	150	mg/L	50	10
Method: 9251			Date Analyzed: 08/12/2010 1521	
Chloride	130	mg/L	10	5.0
Method: Nitrate by calc			Date Analyzed: 08/12/2010 1553	
Nitrogen, Nitrate	ND	mg/L	0.10	1.0
Method: SM 2320B			Date Analyzed: 08/10/2010 1127	
Bicarbonate Alkalinity as CaCO3	790	mg/L	5.0	1.0
Carbonate Alkalinity as CaCO3	ND	mg/L	5.0	1.0
Method: SM 2540C			Date Analyzed: 08/06/2010 1527	
Total Dissolved Solids	1400	mg/L	20	1.0
Method: SM 4500 F C			Date Analyzed: 08/11/2010 1051	
Fluoride	2.6	mg/L	0.10	1.0
Method: SM 4500 NO2 B			Date Analyzed: 08/05/2010 1736	
Nitrogen, Nitrite	ND	mg/L	0.020	1.0
Method: SM 4500 NO3 F			Date Analyzed: 08/12/2010 0940	
Nitrogen, Nitrate Nitrite	ND	mg/L	0.10	1.0

Mr. Dennis Riehl
 Caterpillar Inc.
 8826 W. Route 24
 Mapleton, IL 61547

Job Number: 500-27047-1

Client Sample ID: L301
Lab Sample ID: 500-27047-1

Date Sampled: 08/04/2010 0850
 Date Received: 08/05/2010 1000
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: SM 4500 P E		Date Analyzed:	08/10/2010 1159	
Prep Method: SM 4500 P B		Date Prepared:	08/06/2010 1430	
Phosphorus as P	0.47	mg/L	0.050	1.0
Phosphorus as PO4	1.4	mg/L	0.15	1.0
Method: SM 4500 S2 F		Date Analyzed:	08/09/2010 2315	
Sulfide	1.1	mg/L	1.0	1.0

Mr. Dennis Riehl
Caterpillar Inc.
8826 W. Route 24
Mapleton, IL 61547

Job Number: 500-27047-1

Client Sample ID: L302
Lab Sample ID: 500-27047-2

Date Sampled: 08/04/2010 1305
Date Received: 08/05/2010 1000
Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: 6010B			Date Analyzed: 08/11/2010 1527	
Prep Method: 3010A			Date Prepared: 08/11/2010 0845	
Barium	0.088	mg/L	0.010	1.0
Calcium	11	mg/L	0.20	1.0
Chromium	ND	mg/L	0.010	1.0
Copper	ND	mg/L	0.010	1.0
Iron	4.9	mg/L	0.20	1.0
Magnesium	6.4	mg/L	0.10	1.0
Manganese	0.052	mg/L	0.010	1.0
Potassium	11	mg/L	0.50	1.0
Silicon	13	mg/L	0.20	1.0
Zinc	ND	mg/L	0.020	1.0
Method: 6010B			Date Analyzed: 08/12/2010 1002	
Prep Method: 3010A			Date Prepared: 08/11/2010 0845	
Sodium	570	mg/L	20	20
Method: Total Recoverable-6020			Date Analyzed: 08/12/2010 0341	
Prep Method: 3005A			Date Prepared: 08/11/2010 0820	
Lead	ND	mg/L	0.00050	1.0
Cadmium	ND	mg/L	0.00050	1.0
Selenium	ND	mg/L	0.0025	1.0
Method: 9038			Date Analyzed: 08/06/2010 0611	
Sulfate	ND	mg/L	5.0	1.0
Method: 9251			Date Analyzed: 08/12/2010 1521	
Chloride	380	mg/L	50	25
Method: Nitrate by calc			Date Analyzed: 08/12/2010 1553	
Nitrogen, Nitrate	ND	mg/L	0.10	1.0
Method: SM 2320B			Date Analyzed: 08/10/2010 1139	
Bicarbonate Alkalinity as CaCO ₃	880	mg/L	5.0	1.0
Carbonate Alkalinity as CaCO ₃	ND	mg/L	5.0	1.0
Method: SM 2540C			Date Analyzed: 08/06/2010 1528	
Total Dissolved Solids	2000	mg/L	20	1.0
Method: SM 4500 F C			Date Analyzed: 08/11/2010 1054	
Fluoride	2.9	mg/L	0.10	1.0
Method: SM 4500 NO2 B			Date Analyzed: 08/05/2010 1737	
Nitrogen, Nitrite	ND	mg/L	0.020	1.0

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Job Number: 500-27047-1

Client Sample ID: L302
Lab Sample ID: 500-27047-2

Date Sampled: 08/04/2010 1305
 Date Received: 08/05/2010 1000
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: SM 4500 NO3 F Nitrogen, Nitrate Nitrite	ND ^	mg/L	Date Analyzed: 08/12/2010 0943 0.10	1.0
Method: SM 4500 P E Prep Method: SM 4500 P B Phosphorus as P	0.39	mg/L	Date Analyzed: 08/10/2010 1158 Date Prepared: 08/06/2010 1430 0.050	1.0
Phosphorus as PO4	1.2	mg/L	0.15	1.0
Method: SM 4500 S2 F Sulfide	1.1	mg/L	Date Analyzed: 08/09/2010 2324 1.0	1.0

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Job Number: 500-27047-1

Client Sample ID: L303R
Lab Sample ID: 500-27047-3

Date Sampled: 08/04/2010 1400
 Date Received: 08/05/2010 1000
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: 6010B		Date Analyzed:	08/11/2010 1539	
Prep Method: 3010A		Date Prepared:	08/11/2010 0845	
Barium	0.078	mg/L	0.010	1.0
Calcium	28	mg/L	0.20	1.0
Chromium	ND	mg/L	0.010	1.0
Copper	ND	mg/L	0.010	1.0
Potassium	12	mg/L	0.50	1.0
Silicon	7.8	mg/L	0.20	1.0
Sodium	400	mg/L	1.0	1.0
Zinc	ND	mg/L	0.020	1.0
Method: 6010B		Date Analyzed:	08/12/2010 1009	
Prep Method: 3010A		Date Prepared:	08/11/2010 0845	
Iron	1.9	mg/L	0.20	1.0
Magnesium	28	mg/L	0.10	1.0
Manganese	0.45	mg/L	0.010	1.0
Method: Total Recoverable-6020		Date Analyzed:	08/12/2010 0344	
Prep Method: 3005A		Date Prepared:	08/11/2010 0820	
Lead	0.0010	mg/L	0.00050	1.0
Cadmium	ND	mg/L	0.00050	1.0
Selenium	ND	mg/L	0.0025	1.0
Method: 9038		Date Analyzed:	08/08/2010 1811	
Sulfate	510	mg/L	100	20
Method: 9251		Date Analyzed:	08/12/2010 1522	
Chloride	21	mg/L	2.0	1.0
Method: Nitrate by calc		Date Analyzed:	08/12/2010 1553	
Nitrogen, Nitrate	ND	mg/L	0.10	1.0
Method: SM 2320B		Date Analyzed:	08/10/2010 1149	
Bicarbonate Alkalinity as CaCO3	720	mg/L	5.0	1.0
Carbonate Alkalinity as CaCO3	ND	mg/L	5.0	1.0
Method: SM 2540C		Date Analyzed:	08/06/2010 1529	
Total Dissolved Solids	1400	mg/L	12	1.0
Method: SM 4500 F C		Date Analyzed:	08/11/2010 1057	
Fluoride	1.9	mg/L	0.10	1.0
Method: SM 4500 NO2 B		Date Analyzed:	08/05/2010 1737	
Nitrogen, Nitrite	ND	mg/L	0.020	1.0

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Job Number: 500-27047-1

Client Sample ID: L303R
Lab Sample ID: 500-27047-3

Date Sampled: 08/04/2010 1400
 Date Received: 08/05/2010 1000
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: SM 4500 NO3 F Nitrogen, Nitrate Nitrite	ND ^	mg/L	Date Analyzed: 08/12/2010 0949 0.10	1.0
Method: SM 4500 P E Prep Method: SM 4500 P B Phosphorus as P	0.084	mg/L	Date Analyzed: 08/10/2010 1200 Date Prepared: 08/06/2010 1430 0.050	1.0
Phosphorus as PO4	0.26	mg/L	0.15	1.0
Method: SM 4500 S2 F Sulfide	ND	mg/L	Date Analyzed: 08/09/2010 2326 1.0	1.0

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Job Number: 500-27047-1

Client Sample ID: L304
Lab Sample ID: 500-27047-4

Date Sampled: 08/04/2010 1120
 Date Received: 08/05/2010 1000
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: 6010B		Date Analyzed:	08/11/2010 1543	
Prep Method: 3010A		Date Prepared:	08/11/2010 0845	
Barium	0.038	mg/L	0.010	1.0
Calcium	7.1	mg/L	0.20	1.0
Chromium	ND	mg/L	0.010	1.0
Copper	ND	mg/L	0.010	1.0
Potassium	24	mg/L	0.50	1.0
Silicon	6.2	mg/L	0.20	1.0
Sodium	370	mg/L	1.0	1.0
Zinc	ND	mg/L	0.020	1.0
Method: 6010B		Date Analyzed:	08/12/2010 1015	
Prep Method: 3010A		Date Prepared:	08/11/2010 0845	
Iron	0.49	mg/L	0.20	1.0
Magnesium	12	mg/L	0.10	1.0
Manganese	0.051	mg/L	0.010	1.0
Method: Total Recoverable-6020		Date Analyzed:	08/12/2010 0346	
Prep Method: 3005A		Date Prepared:	08/11/2010 0820	
Lead	ND	mg/L	0.00050	1.0
Cadmium	ND	mg/L	0.00050	1.0
Selenium	ND	mg/L	0.0025	1.0
Method: 9038		Date Analyzed:	08/06/2010 0612	
Sulfate	5.1	mg/L	5.0	1.0
Method: 9251		Date Analyzed:	08/12/2010 1523	
Chloride	100	mg/L	10	5.0
Method: Nitrate by calc		Date Analyzed:	08/12/2010 1553	
Nitrogen, Nitrate	ND	mg/L	0.10	1.0
Method: SM 2320B		Date Analyzed:	08/10/2010 1159	
Bicarbonate Alkalinity as CaCO3	690	mg/L	5.0	1.0
Carbonate Alkalinity as CaCO3	ND	mg/L	5.0	1.0
Method: SM 2540C		Date Analyzed:	08/06/2010 1530	
Total Dissolved Solids	1100	mg/L	10	1.0
Method: SM 4500 F C		Date Analyzed:	08/11/2010 1100	
Fluoride	4.8	mg/L	0.10	1.0
Method: SM 4500 NO2 B		Date Analyzed:	08/05/2010 1737	
Nitrogen, Nitrite	ND	mg/L	0.020	1.0

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Job Number: 500-27047-1

Client Sample ID: L304
Lab Sample ID: 500-27047-4

Date Sampled: 08/04/2010 1120
 Date Received: 08/05/2010 1000
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: SM 4500 NO3 F Nitrogen, Nitrate Nitrite	ND ^	mg/L	Date Analyzed: 08/12/2010 0951 0.10	1.0
Method: SM 4500 P E Prep Method: SM 4500 P B Phosphorus as P	0.15	mg/L	Date Analyzed: 08/13/2010 0938 Date Prepared: 08/12/2010 1430 0.050	1.0
Phosphorus as PO4	0.45	mg/L	0.15	1.0
Method: SM 4500 S2 F Sulfide	1.2	mg/L	Date Analyzed: 08/09/2010 2329 1.0	1.0

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Job Number: 500-27047-1

Client Sample ID: L305
Lab Sample ID: 500-27047-5

Date Sampled: 08/04/2010 1005
 Date Received: 08/05/2010 1000
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: 6010B		Date Analyzed:	08/11/2010 1547	
Prep Method: 3010A		Date Prepared:	08/11/2010 0845	
Barium	0.015	mg/L	0.010	1.0
Calcium	6.7	mg/L	0.20	1.0
Chromium	ND	mg/L	0.010	1.0
Copper	ND	mg/L	0.010	1.0
Potassium	23	mg/L	0.50	1.0
Silicon	4.6	mg/L	0.20	1.0
Sodium	400	mg/L	1.0	1.0
Zinc	ND	mg/L	0.020	1.0
Method: 6010B		Date Analyzed:	08/12/2010 1021	
Prep Method: 3010A		Date Prepared:	08/11/2010 0845	
Iron	ND	mg/L	0.20	1.0
Magnesium	5.0	mg/L	0.10	1.0
Manganese	0.058	mg/L	0.010	1.0
Method: Total Recoverable-6020		Date Analyzed:	08/12/2010 0349	
Prep Method: 3005A		Date Prepared:	08/11/2010 0820	
Lead	ND	mg/L	0.00050	1.0
Cadmium	ND	mg/L	0.00050	1.0
Selenium	ND	mg/L	0.0025	1.0
Method: 9038		Date Analyzed:	08/08/2010 1812	
Sulfate	250	mg/L	50	10
Method: 9251		Date Analyzed:	08/12/2010 1525	
Chloride	160	mg/L	10	5.0
Method: Nitrate by calc		Date Analyzed:	08/12/2010 1553	
Nitrogen, Nitrate	ND	mg/L	0.10	1.0
Method: SM 2320B		Date Analyzed:	08/10/2010 1222	
Bicarbonate Alkalinity as CaCO3	550	mg/L	5.0	1.0
Carbonate Alkalinity as CaCO3	39	mg/L	5.0	1.0
Method: SM 2540C		Date Analyzed:	08/06/2010 1531	
Total Dissolved Solids	1300	mg/L	10	1.0
Method: SM 4500 F C		Date Analyzed:	08/11/2010 1103	
Fluoride	4.5	mg/L	0.10	1.0
Method: SM 4500 NO2 B		Date Analyzed:	08/05/2010 1738	
Nitrogen, Nitrite	ND	mg/L	0.020	1.0

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Job Number: 500-27047-1

Client Sample ID: L305
Lab Sample ID: 500-27047-5

Date Sampled: 08/04/2010 1005
 Date Received: 08/05/2010 1000
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: SM 4500 NO3 F Nitrogen, Nitrate Nitrite	ND ^	mg/L	Date Analyzed: 08/12/2010 0953 0.10	1.0
Method: SM 4500 P E Prep Method: SM 4500 P B Phosphorus as P	0.11	mg/L	Date Analyzed: 08/13/2010 0940 Date Prepared: 08/12/2010 1430 0.050	1.0
Phosphorus as PO4	0.35	mg/L	0.15	1.0
Method: SM 4500 S2 F Sulfide	ND	mg/L	Date Analyzed: 08/09/2010 2332 1.0	1.0

DATA REPORTING QUALIFIERS

Client: Caterpillar Inc.

Job Number: 500-27047-1

Lab Section	Qualifier	Description
Metals		
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
General Chemistry		
	^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
	F	MS or MSD exceeds the control limits
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

QUALITY CONTROL RESULTS

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-27047-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 500-91492					
LCS 500-91492/2-A	Lab Control Sample	R	Water	3005A	
MB 500-91492/1-A	Method Blank	R	Water	3005A	
500-27047-1	L301	R	Water	3005A	
500-27047-2	L302	R	Water	3005A	
500-27047-3	L303R	R	Water	3005A	
500-27047-4	L304	R	Water	3005A	
500-27047-5	L305	R	Water	3005A	
Prep Batch: 500-91495					
LCS 500-91495/2-A	Lab Control Sample	T	Water	3010A	
MB 500-91495/1-A	Method Blank	T	Water	3010A	
500-27047-1	L301	T	Water	3010A	
500-27047-1DU	Duplicate	T	Water	3010A	
500-27047-1MS	Matrix Spike	T	Water	3010A	
500-27047-1MSD	Matrix Spike Duplicate	T	Water	3010A	
500-27047-2	L302	T	Water	3010A	
500-27047-3	L303R	T	Water	3010A	
500-27047-4	L304	T	Water	3010A	
500-27047-5	L305	T	Water	3010A	
Analysis Batch:500-91591					
LCS 500-91495/2-A	Lab Control Sample	T	Water	6010B	500-91495
MB 500-91495/1-A	Method Blank	T	Water	6010B	500-91495
500-27047-1	L301	T	Water	6010B	500-91495
500-27047-1DU	Duplicate	T	Water	6010B	500-91495
500-27047-1MS	Matrix Spike	T	Water	6010B	500-91495
500-27047-1MSD	Matrix Spike Duplicate	T	Water	6010B	500-91495
500-27047-2	L302	T	Water	6010B	500-91495
500-27047-3	L303R	T	Water	6010B	500-91495
500-27047-4	L304	T	Water	6010B	500-91495
500-27047-5	L305	T	Water	6010B	500-91495
Analysis Batch:500-91595					
LCS 500-91492/2-A	Lab Control Sample	R	Water	6020	500-91492
MB 500-91492/1-A	Method Blank	R	Water	6020	500-91492
500-27047-1	L301	R	Water	6020	500-91492
500-27047-2	L302	R	Water	6020	500-91492
500-27047-3	L303R	R	Water	6020	500-91492
500-27047-4	L304	R	Water	6020	500-91492
500-27047-5	L305	R	Water	6020	500-91492

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Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-27047-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:500-91643					
500-27047-2	L302	T	Water	6010B	500-91495
500-27047-3	L303R	T	Water	6010B	500-91495
500-27047-4	L304	T	Water	6010B	500-91495
500-27047-5	L305	T	Water	6010B	500-91495

Report Basis

R = Total Recoverable

T = Total

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-27047-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:500-91123					
LCS 500-91123/4	Lab Control Sample	T	Water	9038	
MB 500-91123/3	Method Blank	T	Water	9038	
500-27047-2	L302	T	Water	9038	
500-27047-4	L304	T	Water	9038	
500-27047-4MS	Matrix Spike	T	Water	9038	
500-27047-4MSD	Matrix Spike Duplicate	T	Water	9038	
Analysis Batch:500-91184					
LCS 500-91184/2	Lab Control Sample	T	Water	SM 2540C	
MB 500-91184/1	Method Blank	T	Water	SM 2540C	
500-27047-1	L301	T	Water	SM 2540C	
500-27047-2	L302	T	Water	SM 2540C	
500-27047-3	L303R	T	Water	SM 2540C	
500-27047-4	L304	T	Water	SM 2540C	
500-27047-5	L305	T	Water	SM 2540C	
500-27047-5DU	Duplicate	T	Water	SM 2540C	
500-27047-5MS	Matrix Spike	T	Water	SM 2540C	
Analysis Batch:500-91236					
LCS 500-91236/4	Lab Control Sample	T	Water	9038	
MB 500-91236/3	Method Blank	T	Water	9038	
500-27047-1	L301	T	Water	9038	
Analysis Batch:500-91237					
LCS 500-91237/4	Lab Control Sample	T	Water	9038	
MB 500-91237/3	Method Blank	T	Water	9038	
500-27047-3	L303R	T	Water	9038	
500-27047-5	L305	T	Water	9038	
Analysis Batch:500-91311					
LCS 500-91311/4	Lab Control Sample	T	Water	SM 4500 NO2 B	
MB 500-91311/3	Method Blank	T	Water	SM 4500 NO2 B	
500-27047-1	L301	T	Water	SM 4500 NO2 B	
500-27047-2	L302	T	Water	SM 4500 NO2 B	
500-27047-3	L303R	T	Water	SM 4500 NO2 B	
500-27047-4	L304	T	Water	SM 4500 NO2 B	
500-27047-5	L305	T	Water	SM 4500 NO2 B	

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Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-27047-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:500-91343					
LCS 500-91343/2	Lab Control Sample	T	Water	SM 4500 S2 F	
MB 500-91343/1	Method Blank	T	Water	SM 4500 S2 F	
500-27047-1	L301	T	Water	SM 4500 S2 F	
500-27047-1MS	Matrix Spike	T	Water	SM 4500 S2 F	
500-27047-1MSD	Matrix Spike Duplicate	T	Water	SM 4500 S2 F	
500-27047-2	L302	T	Water	SM 4500 S2 F	
500-27047-3	L303R	T	Water	SM 4500 S2 F	
500-27047-4	L304	T	Water	SM 4500 S2 F	
500-27047-5	L305	T	Water	SM 4500 S2 F	
Prep Batch: 500-91404					
LCS 500-91404/2-A	Lab Control Sample	T	Water	SM 4500 P B	
MB 500-91404/1-A	Method Blank	T	Water	SM 4500 P B	
500-27047-1	L301	T	Water	SM 4500 P B	
500-27047-1MS	Matrix Spike	T	Water	SM 4500 P B	
500-27047-1MSD	Matrix Spike Duplicate	T	Water	SM 4500 P B	
500-27047-2	L302	T	Water	SM 4500 P B	
500-27047-3	L303R	T	Water	SM 4500 P B	
Analysis Batch:500-91405					
LCS 500-91404/2-A	Lab Control Sample	T	Water	SM 4500 P E	500-91404
MB 500-91404/1-A	Method Blank	T	Water	SM 4500 P E	500-91404
500-27047-1	L301	T	Water	SM 4500 P E	500-91404
500-27047-1MS	Matrix Spike	T	Water	SM 4500 P E	500-91404
500-27047-1MSD	Matrix Spike Duplicate	T	Water	SM 4500 P E	500-91404
500-27047-2	L302	T	Water	SM 4500 P E	500-91404
500-27047-3	L303R	T	Water	SM 4500 P E	500-91404
Analysis Batch:500-91418					
LCS 500-91418/3	Lab Control Sample	T	Water	SM 2320B	
MB 500-91418/2	Method Blank	T	Water	SM 2320B	
500-27047-1	L301	T	Water	SM 2320B	
500-27047-2	L302	T	Water	SM 2320B	
500-27047-3	L303R	T	Water	SM 2320B	
500-27047-4	L304	T	Water	SM 2320B	
500-27047-5	L305	T	Water	SM 2320B	

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Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-27047-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:500-91510					
LCS 500-91510/4	Lab Control Sample	T	Water	SM 4500 F C	
MB 500-91510/3	Method Blank	T	Water	SM 4500 F C	
500-27047-1	L301	T	Water	SM 4500 F C	
500-27047-2	L302	T	Water	SM 4500 F C	
500-27047-3	L303R	T	Water	SM 4500 F C	
500-27047-4	L304	T	Water	SM 4500 F C	
500-27047-5	L305	T	Water	SM 4500 F C	
500-27047-5MS	Matrix Spike	T	Water	SM 4500 F C	
500-27047-5MSD	Matrix Spike Duplicate	T	Water	SM 4500 F C	
Analysis Batch:500-91644					
LCS 500-91644/66	Lab Control Sample	T	Water	SM 4500 NO3 F	
MB 500-91644/25	Method Blank	T	Water	SM 4500 NO3 F	
500-27047-1	L301	T	Water	SM 4500 NO3 F	
500-27047-2	L302	T	Water	SM 4500 NO3 F	
500-27047-3	L303R	T	Water	SM 4500 NO3 F	
500-27047-4	L304	T	Water	SM 4500 NO3 F	
500-27047-5	L305	T	Water	SM 4500 NO3 F	
500-27047-5MS	Matrix Spike	T	Water	SM 4500 NO3 F	
500-27047-5MSD	Matrix Spike Duplicate	T	Water	SM 4500 NO3 F	
Analysis Batch:500-91662					
LCS 500-91662/12	Lab Control Sample	T	Water	9251	
MB 500-91662/11	Method Blank	T	Water	9251	
500-27047-1	L301	T	Water	9251	
500-27047-2	L302	T	Water	9251	
500-27047-3	L303R	T	Water	9251	
500-27047-3MS	Matrix Spike	T	Water	9251	
500-27047-3MSD	Matrix Spike Duplicate	T	Water	9251	
500-27047-4	L304	T	Water	9251	
500-27047-5	L305	T	Water	9251	
Analysis Batch:500-91666					
500-27047-1	L301	T	Water	Nitrate by calc	
500-27047-2	L302	T	Water	Nitrate by calc	
500-27047-3	L303R	T	Water	Nitrate by calc	
500-27047-4	L304	T	Water	Nitrate by calc	
500-27047-5	L305	T	Water	Nitrate by calc	

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Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-27047-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Prep Batch: 500-91717					
LCS 500-91717/2-A	Lab Control Sample	T	Water	SM 4500 P B	
MB 500-91717/1-A	Method Blank	T	Water	SM 4500 P B	
500-27047-4	L304	T	Water	SM 4500 P B	
500-27047-4MS	Matrix Spike	T	Water	SM 4500 P B	
500-27047-4MSD	Matrix Spike Duplicate	T	Water	SM 4500 P B	
500-27047-5	L305	T	Water	SM 4500 P B	
Analysis Batch:500-91719					
LCS 500-91717/2-A	Lab Control Sample	T	Water	SM 4500 P E	500-91717
MB 500-91717/1-A	Method Blank	T	Water	SM 4500 P E	500-91717
500-27047-4	L304	T	Water	SM 4500 P E	500-91717
500-27047-4MS	Matrix Spike	T	Water	SM 4500 P E	500-91717
500-27047-4MSD	Matrix Spike Duplicate	T	Water	SM 4500 P E	500-91717
500-27047-5	L305	T	Water	SM 4500 P E	500-91717

Report Basis

T = Total

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-27047-1

Method Blank - Batch: 500-91495

**Method: 6010B
Preparation: 3010A**

Lab Sample ID: MB 500-91495/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/11/2010 1459
Date Prepared: 08/11/2010 0845

Analysis Batch: 500-91591
Prep Batch: 500-91495
Units: mg/L

Instrument ID: ICP6
Lab File ID: P6081110A.txt
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Aluminum	ND		0.20
Barium	ND		0.010
Calcium	ND		0.20
Chromium	ND		0.010
Copper	ND		0.010
Iron	ND		0.20
Magnesium	ND		0.10
Manganese	ND		0.010
Potassium	ND		0.50
Silicon	ND		0.20
Sodium	ND		1.0
Zinc	ND		0.020

Lab Control Sample - Batch: 500-91495

**Method: 6010B
Preparation: 3010A**

Lab Sample ID: LCS 500-91495/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/11/2010 1503
Date Prepared: 08/11/2010 0845

Analysis Batch: 500-91591
Prep Batch: 500-91495
Units: mg/L

Instrument ID: ICP6
Lab File ID: P6081110A.txt
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	2.00	1.94	97	80 - 120	
Barium	2.00	1.97	99	80 - 120	
Calcium	10.0	9.58	96	80 - 120	
Chromium	0.200	0.191	96	80 - 120	
Copper	0.250	0.252	101	80 - 120	
Iron	1.00	0.964	96	80 - 120	
Magnesium	10.0	9.19	92	80 - 120	
Manganese	0.500	0.496	99	80 - 120	
Potassium	10.0	9.50	95	80 - 120	
Silicon	5.00	4.76	95	80 - 120	
Sodium	10.0	9.78	98	80 - 120	
Zinc	0.500	0.439	88	80 - 120	

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-27047-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 500-91495**

**Method: 6010B
Preparation: 3010A**

MS Lab Sample ID: 500-27047-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/11/2010 1519
Date Prepared: 08/11/2010 0845

Analysis Batch: 500-91591
Prep Batch: 500-91495

Instrument ID: ICP6
Lab File ID: P6081110A.txt
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 500-27047-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/11/2010 1523
Date Prepared: 08/11/2010 0845

Analysis Batch: 500-91591
Prep Batch: 500-91495

Instrument ID: ICP6
Lab File ID: P6081110A.txt
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Aluminum	100	97	75 - 125	3	20		
Barium	99	96	75 - 125	3	20		
Calcium	100	107	75 - 125	2	20		
Chromium	94	91	75 - 125	4	20		
Copper	104	100	75 - 125	3	20		
Iron	105	107	75 - 125	1	20		
Magnesium	96	100	75 - 125	1	20		
Manganese	101	100	75 - 125	1	20		
Potassium	97	97	75 - 125	0	20		
Silicon	97	96	75 - 125	0	20		
Sodium	104	193	75 - 125	2	20	4	4
Zinc	95	92	75 - 125	3	20		

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-27047-1

Duplicate - Batch: 500-91495

**Method: 6010B
Preparation: 3010A**

Lab Sample ID: 500-27047-1
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/11/2010 1514
 Date Prepared: 08/11/2010 0845

Analysis Batch: 500-91591
 Prep Batch: 500-91495
 Units: mg/L

Instrument ID: ICP6
 Lab File ID: P6081110A.txt
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Barium	0.13	0.131	0	20	
Calcium	22	22.0	1	20	
Chromium	ND	ND	NC	20	
Copper	ND	ND	NC	20	
Iron	1.5	1.50	4	20	
Magnesium	16	16.4	1	20	
Manganese	0.18	0.183	1	20	
Potassium	11	10.9	0	20	
Silicon	9.0	9.05	0	20	
Sodium	420	430	1	20	
Zinc	ND	ND	NC	20	

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-27047-1

Method Blank - Batch: 500-91492

Lab Sample ID: MB 500-91492/1-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/12/2010 0305
 Date Prepared: 08/11/2010 0820

Analysis Batch: 500-91595
 Prep Batch: 500-91492
 Units: mg/L

Method: 6020
Preparation: 3005A
Total Recoverable

Instrument ID: ICPMS2
 Lab File ID: MS2081210A.csv
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Lead	ND		0.00050
Arsenic	ND		0.0010
Cadmium	ND		0.00050
Selenium	ND		0.0025

Lab Control Sample - Batch: 500-91492

Lab Sample ID: LCS 500-91492/2-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/12/2010 0308
 Date Prepared: 08/11/2010 0820

Analysis Batch: 500-91595
 Prep Batch: 500-91492
 Units: mg/L

Method: 6020
Preparation: 3005A
Total Recoverable

Instrument ID: ICPMS2
 Lab File ID: MS2081210A.csv
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Lead	0.100	0.108	108	80 - 120	
Arsenic	0.100	0.107	107	80 - 120	
Cadmium	0.0500	0.0525	105	80 - 120	
Selenium	0.100	0.106	106	80 - 120	

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-27047-1

Method Blank - Batch: 500-91123

**Method: 9038
Preparation: N/A**

Lab Sample ID: MB 500-91123/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/06/2010 0553
Date Prepared: N/A

Analysis Batch: 500-91123
Prep Batch: N/A
Units: mg/L

Instrument ID: SPEC3
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL
Sulfate	ND		5.0

Lab Control Sample - Batch: 500-91123

**Method: 9038
Preparation: N/A**

Lab Sample ID: LCS 500-91123/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/06/2010 0554
Date Prepared: N/A

Analysis Batch: 500-91123
Prep Batch: N/A
Units: mg/L

Instrument ID: SPEC3
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfate	20.0	18.4	92	80 - 120	

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 500-91123**

**Method: 9038
Preparation: N/A**

MS Lab Sample ID: 500-27047-4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/06/2010 0613
Date Prepared: N/A

Analysis Batch: 500-91123
Prep Batch: N/A

Instrument ID: SPEC3
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

MSD Lab Sample ID: 500-27047-4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/06/2010 0614
Date Prepared: N/A

Analysis Batch: 500-91123
Prep Batch: N/A

Instrument ID: SPEC3
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Sulfate	95	110	75 - 125	12	20		

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-27047-1

Method Blank - Batch: 500-91236

**Method: 9038
Preparation: N/A**

Lab Sample ID: MB 500-91236/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/08/2010 1657
Date Prepared: N/A

Analysis Batch: 500-91236
Prep Batch: N/A
Units: mg/L

Instrument ID: SPEC3
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL
Sulfate	ND		5.0

Lab Control Sample - Batch: 500-91236

**Method: 9038
Preparation: N/A**

Lab Sample ID: LCS 500-91236/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/08/2010 1658
Date Prepared: N/A

Analysis Batch: 500-91236
Prep Batch: N/A
Units: mg/L

Instrument ID: SPEC3
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfate	20.0	20.5	102	80 - 120	

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-27047-1

Method Blank - Batch: 500-91237

Method: 9038
Preparation: N/A

Lab Sample ID: MB 500-91237/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/08/2010 1755
Date Prepared: N/A

Analysis Batch: 500-91237
Prep Batch: N/A
Units: mg/L

Instrument ID: SPEC3
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL
Sulfate	ND		5.0

Lab Control Sample - Batch: 500-91237

Method: 9038
Preparation: N/A

Lab Sample ID: LCS 500-91237/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/08/2010 1756
Date Prepared: N/A

Analysis Batch: 500-91237
Prep Batch: N/A
Units: mg/L

Instrument ID: SPEC3
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfate	20.0	19.9	100	80 - 120	

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-27047-1

Method Blank - Batch: 500-91662

**Method: 9251
Preparation: N/A**

Lab Sample ID: MB 500-91662/11
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/12/2010 1519
Date Prepared: N/A

Analysis Batch: 500-91662
Prep Batch: N/A
Units: mg/L

Instrument ID: AQ2
Lab File ID: 2010-8-12-15-28-2.csv
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL
Chloride	ND		2.0

Lab Control Sample - Batch: 500-91662

**Method: 9251
Preparation: N/A**

Lab Sample ID: LCS 500-91662/12
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/12/2010 1519
Date Prepared: N/A

Analysis Batch: 500-91662
Prep Batch: N/A
Units: mg/L

Instrument ID: AQ2
Lab File ID: 2010-8-12-15-28-2.csv
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride	50.0	47.5	95	80 - 120	

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 500-91662**

**Method: 9251
Preparation: N/A**

MS Lab Sample ID: 500-27047-3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/12/2010 1522
Date Prepared: N/A

Analysis Batch: 500-91662
Prep Batch: N/A

Instrument ID: AQ2
Lab File ID: 2010-8-12-15-28-2.csv
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 500-27047-3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/12/2010 1523
Date Prepared: N/A

Analysis Batch: 500-91662
Prep Batch: N/A

Instrument ID: AQ2
Lab File ID: 2010-8-12-15-28-2.csv
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Chloride	93	91	75 - 125	1	20		

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-27047-1

Method Blank - Batch: 500-91418

Method: SM 2320B
Preparation: N/A

Lab Sample ID: MB 500-91418/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/10/2010 1037
Date Prepared: N/A

Analysis Batch: 500-91418
Prep Batch: N/A
Units: mg/L

Instrument ID: PC-Titrate
Lab File ID: 10081000.txt
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL
Bicarbonate Alkalinity as CaCO3	ND		5.0
Carbonate Alkalinity as CaCO3	ND		5.0

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-27047-1

Method Blank - Batch: 500-91184

Method: SM 2540C
Preparation: N/A

Lab Sample ID: MB 500-91184/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/06/2010 1520
Date Prepared: N/A

Analysis Batch: 500-91184
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Total Dissolved Solids	ND		10

Lab Control Sample - Batch: 500-91184

Method: SM 2540C
Preparation: N/A

Lab Sample ID: LCS 500-91184/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/06/2010 1521
Date Prepared: N/A

Analysis Batch: 500-91184
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Dissolved Solids	250	256	102	80 - 120	

Matrix Spike - Batch: 500-91184

Method: SM 2540C
Preparation: N/A

Lab Sample ID: 500-27047-5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/06/2010 1533
Date Prepared: N/A

Analysis Batch: 500-91184
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Total Dissolved Solids	1300	250	1530	86	75 - 125	4

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-27047-1

Duplicate - Batch: 500-91184

Method: SM 2540C
Preparation: N/A

Lab Sample ID: 500-27047-5
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/06/2010 1532
 Date Prepared: N/A

Analysis Batch: 500-91184
 Prep Batch: N/A
 Units: mg/L

Instrument ID: No Equipment Assigned
 Lab File ID: N/A
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Dissolved Solids	1300	1300	1	20	

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-27047-1

Method Blank - Batch: 500-91510

**Method: SM 4500 F C
Preparation: N/A**

Lab Sample ID: MB 500-91510/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/11/2010 1044
Date Prepared: N/A

Analysis Batch: 500-91510
Prep Batch: N/A
Units: mg/L

Instrument ID: PC-Titrate
Lab File ID: 10081100.txt
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL
Fluoride	ND		0.10

Lab Control Sample - Batch: 500-91510

**Method: SM 4500 F C
Preparation: N/A**

Lab Sample ID: LCS 500-91510/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/11/2010 1048
Date Prepared: N/A

Analysis Batch: 500-91510
Prep Batch: N/A
Units: mg/L

Instrument ID: PC-Titrate
Lab File ID: 10081100.txt
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Fluoride	10.0	10.1	101	80 - 120	

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 500-91510**

**Method: SM 4500 F C
Preparation: N/A**

MS Lab Sample ID: 500-27047-5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/11/2010 1107
Date Prepared: N/A

Analysis Batch: 500-91510
Prep Batch: N/A

Instrument ID: PC-Titrate
Lab File ID: 10081100.txt
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

MSD Lab Sample ID: 500-27047-5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/11/2010 1110
Date Prepared: N/A

Analysis Batch: 500-91510
Prep Batch: N/A

Instrument ID: PC-Titrate
Lab File ID: 10081100.txt
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Fluoride	102	103	75 - 125	1	20		

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-27047-1

Method Blank - Batch: 500-91311

**Method: SM 4500 NO2 B
Preparation: N/A**

Lab Sample ID: MB 500-91311/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/05/2010 1735
Date Prepared: N/A

Analysis Batch: 500-91311
Prep Batch: N/A
Units: mg/L

Instrument ID: SPEC5
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Nitrogen, Nitrite	ND		0.020

Lab Control Sample - Batch: 500-91311

**Method: SM 4500 NO2 B
Preparation: N/A**

Lab Sample ID: LCS 500-91311/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/05/2010 1736
Date Prepared: N/A

Analysis Batch: 500-91311
Prep Batch: N/A
Units: mg/L

Instrument ID: SPEC5
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrogen, Nitrite	0.100	0.0980	98	80 - 120	

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-27047-1

Method Blank - Batch: 500-91644

**Method: SM 4500 NO3 F
Preparation: N/A**

Lab Sample ID: MB 500-91644/25
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/12/2010 0924
Date Prepared: N/A

Analysis Batch: 500-91644
Prep Batch: N/A
Units: mg/L

Instrument ID: AQ2
Lab File ID: 2010-8-12-11-53-10.csv
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL
Nitrogen, Nitrate Nitrite	ND	^	0.10

Lab Control Sample - Batch: 500-91644

**Method: SM 4500 NO3 F
Preparation: N/A**

Lab Sample ID: LCS 500-91644/66
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/12/2010 1129
Date Prepared: N/A

Analysis Batch: 500-91644
Prep Batch: N/A
Units: mg/L

Instrument ID: AQ2
Lab File ID: 2010-8-12-11-53-10.csv
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrogen, Nitrate Nitrite	1.00	1.05	105	80 - 120	

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 500-91644**

**Method: SM 4500 NO3 F
Preparation: N/A**

MS Lab Sample ID: 500-27047-5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/12/2010 0955
Date Prepared: N/A

Analysis Batch: 500-91644
Prep Batch: N/A

Instrument ID: AQ2
Lab File ID: 2010-8-12-11-53-10.csv
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 500-27047-5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/12/2010 0957
Date Prepared: N/A

Analysis Batch: 500-91644
Prep Batch: N/A

Instrument ID: AQ2
Lab File ID: 2010-8-12-11-53-10.csv
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Nitrogen, Nitrate Nitrite	133	137	75 - 125	3	20	^ F	^ F

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-27047-1

Method Blank - Batch: 500-91404

Method: SM 4500 P E
Preparation: SM 4500 P B

Lab Sample ID: MB 500-91404/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/10/2010 1150
Date Prepared: 08/06/2010 1430

Analysis Batch: 500-91405
Prep Batch: 500-91404
Units: mg/L

Instrument ID: SPEC5
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Phosphorus as P	ND		0.050
Phosphorus as PO4	ND		0.15

Lab Control Sample - Batch: 500-91404

Method: SM 4500 P E
Preparation: SM 4500 P B

Lab Sample ID: LCS 500-91404/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/10/2010 1151
Date Prepared: 08/06/2010 1430

Analysis Batch: 500-91405
Prep Batch: 500-91404
Units: mg/L

Instrument ID: SPEC5
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Phosphorus as P	0.500	0.469	94	80 - 120	

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 500-91404**

Method: SM 4500 P E
Preparation: SM 4500 P B

MS Lab Sample ID: 500-27047-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/10/2010 1159
Date Prepared: 08/06/2010 1430

Analysis Batch: 500-91405
Prep Batch: 500-91404

Instrument ID: SPEC5
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 500-27047-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/10/2010 1200
Date Prepared: 08/06/2010 1430

Analysis Batch: 500-91405
Prep Batch: 500-91404

Instrument ID: SPEC5
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Phosphorus as P	63	79	75 - 125	6	20	F	

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-27047-1

Method Blank - Batch: 500-91717

Method: SM 4500 P E
Preparation: SM 4500 P B

Lab Sample ID: MB 500-91717/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/13/2010 0935
Date Prepared: 08/12/2010 1430

Analysis Batch: 500-91719
Prep Batch: 500-91717
Units: mg/L

Instrument ID: SPEC5
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Phosphorus as P	ND		0.050
Phosphorus as PO4	ND		0.15

Lab Control Sample - Batch: 500-91717

Method: SM 4500 P E
Preparation: SM 4500 P B

Lab Sample ID: LCS 500-91717/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/13/2010 0936
Date Prepared: 08/12/2010 1430

Analysis Batch: 500-91719
Prep Batch: 500-91717
Units: mg/L

Instrument ID: SPEC5
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Phosphorus as P	0.500	0.448	90	80 - 120	

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 500-91717**

Method: SM 4500 P E
Preparation: SM 4500 P B

MS Lab Sample ID: 500-27047-4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/13/2010 0938
Date Prepared: 08/12/2010 1430

Analysis Batch: 500-91719
Prep Batch: 500-91717

Instrument ID: SPEC5
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 500-27047-4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/13/2010 0940
Date Prepared: 08/12/2010 1430

Analysis Batch: 500-91719
Prep Batch: 500-91717

Instrument ID: SPEC5
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Phosphorus as P	81	91	75 - 125	7	20		

Quality Control Results

Client: Caterpillar Inc.

Job Number: 500-27047-1

Method Blank - Batch: 500-91343

Method: SM 4500 S2 F
Preparation: N/A

Lab Sample ID: MB 500-91343/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/09/2010 2310
Date Prepared: N/A

Analysis Batch: 500-91343
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 250 mL

Analyte	Result	Qual	RL
Sulfide	ND		1.0

Lab Control Sample - Batch: 500-91343

Method: SM 4500 S2 F
Preparation: N/A

Lab Sample ID: LCS 500-91343/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/09/2010 2312
Date Prepared: N/A

Analysis Batch: 500-91343
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 250 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfide	3.95	3.74	95	80 - 120	

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 500-91343**

Method: SM 4500 S2 F
Preparation: N/A

MS Lab Sample ID: 500-27047-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/09/2010 2318
Date Prepared: N/A

Analysis Batch: 500-91343
Prep Batch: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 250 mL

MSD Lab Sample ID: 500-27047-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/09/2010 2321
Date Prepared: N/A

Analysis Batch: 500-91343
Prep Batch: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 250 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Sulfide	99	94	75 - 125	4	20		

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To _____ (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To _____ (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-27047
 Chain of Custody Number: _____
 Page _____ of _____
 Temperature °C of Cooler: (3.0) (2.7)

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
CATERPILLAR - MAPLETON				2	3	5	8				
Project Name		Lab Project #		NO ₂ +NO ₃ -TP		METALS - TOTAL		SULFIDE		ALKALINITY	
Project Location/State		Lab PM									
MAPLETON, IL											
Sampler		Lab PM									
ANDREW JARRICK											
Lab ID	MS/MSO	Sample ID	Sampling		# of Containers	Matrix					
			Date	Time							
1		L301	8/4/10	8:50A	4	W	X	X	X	X	
2		L302	8/4/10	1:05P	4	W	X	X	X	X	
3		L303R	8/4/10	2:00P	4	W	X	X	X	X	
4		L304	8/4/10	11:20A	4	W	X	X	X	X	
5		L305	8/4/10	10:05A	4	W	X	X	X	X	

- Preservative Key
1. HCL, Cool to 4°
 2. H2SO4, Cool to 4°
 3. HNO3, Cool to 4°
 4. NaOH, Cool to 4°
 5. NaOH/Zn, Cool to 4°
 6. NaHSO4
 7. Cool to 4°
 8. None
 9. Other

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ Other

Requested Due Date _____

Sample Disposal
 Return to Client Disposal by Lab Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Requested By: <u>[Signature]</u> Company: <u>CAT</u> Date: <u>8/4/10</u> Time: <u>3:20 PM</u>	Received By: <u>[Signature]</u> Company: <u>Test America</u> Date: <u>8/4/10</u> Time: <u>1:40</u>	Requested By: <u>[Signature]</u> Company: <u>[Signature]</u> Date: <u>8-4-10</u> Time: <u>1:40</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>8/5/10</u> Time: <u>1000</u>	Lab Courier: _____
				Shipped: <u>FX</u>
				Hand Delivered: _____

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SF - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments:

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Electronic Filing - Received, Clerk's Office: 06/27/2013 - * * * AS 2013-005 * * *

Report To: _____
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To: _____
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference#: _____

Chain of Custody Record

500-27047

Lab Job #: _____
 Chain of Custody Number: _____
 Page _____ of _____
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Matrix		Comments		
CATERPILLAR MAPLETON				NONE		TDS, Cl, F, NO2		504				
Project Name		Project Location/State		Lab Project #		Sampler		Lab PM		Preservative Key		
LANDFILL VERIFY AUG 2010 TDS		MAPLETON, IL				ANDREW JARRICE				1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHCO4 7. Cool to 4° 8. None 9. Other		
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	TDS	Cl	F	NO2	504	
			Date	Time								
1		L301	8/4/10	8:50A	1	W						
2		L302	1:05P	8/4/10	1	W						
3		L303R	8/4/10	2:00P	1	W						
4		L304	8/4/10	11:20A	1	W						
5		L305	8/4/10	10:05A	1	W						

Turnaround Time Required (Business Days) _____
 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other _____
 Requested Due Date _____
 Sample Disposal: Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished by: <i>[Signature]</i> Company: <i>CAE</i> Date: 8/4/10 Time: 3:20PM	Received by: <i>[Signature]</i> Company: <i>TestAmerica</i> Date: Aug 4 2010 Time: 7:52Z	Lab Courier: _____
Relinquished by: <i>[Signature]</i> Company: _____ Date: 8/4/10 Time: 17:40	Received by: <i>[Signature]</i> Company: <i>FA</i> Date: 8/5/10 Time: 1:00	Shipped: <i>FX</i>
Relinquished by: _____ Company: _____ Date: _____ Time: _____	Received by: _____ Company: _____ Date: _____ Time: _____	Hand Delivered: _____

Matrix Key
 WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WL - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments: _____

Lab Comments: _____

Login Sample Receipt Check List

Client: Caterpillar Inc.

Job Number: 500-27047-1

Login Number: 27047**List Source: TestAmerica Chicago****Creator: Lunt, Jeff T****List Number: 1**

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	3.0,2.7
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

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THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-34638-2
Client Project/Site: Caterpillar-Mapleton 817 Landfill

For:
Conestoga-Rovers & Associates, Inc.
6520 Corporate Drive
Indianapolis, Indiana 46278

Attn: Mr. Michael Richardson



Authorized for release by:
06/01/2011 01:35:32 PM

Richard Wright
Project Manager II
richard.wright@testamericainc.com



LINKS

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www.testamericainc.com

Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all 2003 NELAC requirements for accredited parameters, exceptions are noted in this report. Pursuant to NELAC, this report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Client: Conestoga-Rovers & Associates, Inc.
Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34638-2

Job ID: 500-34638-2

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-34638-2

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

General Chemistry

No analytical or quality issues were noted.

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Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34638-2

Client Sample ID: WL-052511-TP-001

Lab Sample ID: 500-34638-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	730000		10000	9400	ug/L	1		SM 2540C	Total/NA

Client Sample ID: WL-052511-TP-002

Lab Sample ID: 500-34638-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	1100000		10000	9400	ug/L	1		SM 2540C	Total/NA

Client Sample ID: WL-052511-TP-003

Lab Sample ID: 500-34638-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	1400000		10000	9400	ug/L	1		SM 2540C	Total/NA

Client Sample ID: WL-052511-TP-004

Lab Sample ID: 500-34638-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	780000		10000	9400	ug/L	1		SM 2540C	Total/NA

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Client: Conestoga-Rovers & Associates, Inc.
Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34638-2

Method	Method Description	Protocol	Laboratory
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CHI

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Client: Conestoga-Rovers & Associates, Inc.
Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34638-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-34638-1	WL-052511-TP-001	Water	05/25/11 08:55	05/26/11 10:30
500-34638-2	WL-052511-TP-002	Water	05/25/11 09:00	05/26/11 10:30
500-34638-3	WL-052511-TP-003	Water	05/25/11 09:15	05/26/11 10:30
500-34638-4	WL-052511-TP-004	Water	05/25/11 09:30	05/26/11 10:30

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Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34638-2

Client Sample ID: WL-052511-TP-001

Lab Sample ID: 500-34638-1

Date Collected: 05/25/11 08:55

Matrix: Water

Date Received: 05/26/11 10:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	730000		10000	9400	ug/L			05/31/11 02:12	1

- 1
- 2
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Client: Conestoga-Rovers & Associates, Inc.
Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34638-2

Client Sample ID: WL-052511-TP-002

Lab Sample ID: 500-34638-2

Date Collected: 05/25/11 09:00

Matrix: Water

Date Received: 05/26/11 10:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100000		10000	9400	ug/L			05/31/11 02:16	1

- 1
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Client: Conestoga-Rovers & Associates, Inc.
Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34638-2

Client Sample ID: WL-052511-TP-003

Lab Sample ID: 500-34638-3

Date Collected: 05/25/11 09:15

Matrix: Water

Date Received: 05/26/11 10:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1400000		10000	9400	ug/L			05/31/11 02:19	1

- 1
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Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34638-2

Client Sample ID: WL-052511-TP-004

Lab Sample ID: 500-34638-4

Date Collected: 05/25/11 09:30

Matrix: Water

Date Received: 05/26/11 10:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	780000		10000	9400	ug/L			05/31/11 02:22	1

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Client: Conestoga-Rovers & Associates, Inc.
Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34638-2

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

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Client: Conestoga-Rovers & Associates, Inc.
Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34638-2

General Chemistry

Analysis Batch: 114902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-114902/1	MB 500-114902/1	Total/NA	Water	SM 2540C	
LCS 500-114902/2	LCS 500-114902/2	Total/NA	Water	SM 2540C	
500-34638-1	WL-052511-TP-001	Total/NA	Water	SM 2540C	
500-34638-2	WL-052511-TP-002	Total/NA	Water	SM 2540C	
500-34638-3	WL-052511-TP-003	Total/NA	Water	SM 2540C	
500-34638-4	WL-052511-TP-004	Total/NA	Water	SM 2540C	

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Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34638-2

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-114902/1
Matrix: Water
Analysis Batch: 114902

Client Sample ID: MB 500-114902/1
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10000		10000	9400	ug/L			05/31/11 01:40	1

Lab Sample ID: LCS 500-114902/2
Matrix: Water
Analysis Batch: 114902

Client Sample ID: LCS 500-114902/2
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Total Dissolved Solids	250000	252000		ug/L		101	80 - 120



Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34638-2

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Chicago		USDA		P330-09-00027
TestAmerica Chicago	ACLASS	DoD ELAP	0	ADE-1429
TestAmerica Chicago	ACLASS	ISO/IEC 17025	0	AT-1428
TestAmerica Chicago	Alabama	State Program	4	40461
TestAmerica Chicago	California	NELAC	9	01132CA
TestAmerica Chicago	Florida	NELAC	4	E871072
TestAmerica Chicago	Georgia	Georgia EPD	4	N/A
TestAmerica Chicago	Georgia	State Program	4	939
TestAmerica Chicago	Hawaii	State Program	9	N/A
TestAmerica Chicago	Illinois	NELAC	5	100201
TestAmerica Chicago	Indiana	State Program	5	C-IL-02
TestAmerica Chicago	Iowa	State Program	7	82
TestAmerica Chicago	Kansas	NELAC	7	E-10161
TestAmerica Chicago	Kentucky	Kentucky UST	4	66
TestAmerica Chicago	Kentucky	State Program	4	90023
TestAmerica Chicago	Louisiana	NELAC	6	30720
TestAmerica Chicago	Massachusetts	State Program	1	M-IL035
TestAmerica Chicago	Mississippi	State Program	4	N/A
TestAmerica Chicago	North Carolina	North Carolina DENR	4	291
TestAmerica Chicago	Oklahoma	State Program	6	8908
TestAmerica Chicago	South Carolina	State Program	4	77001
TestAmerica Chicago	Texas	NELAC	6	T104704252-09-TX
TestAmerica Chicago	Wisconsin	State Program	5	999580010
TestAmerica Chicago	Wyoming	State Program	8	8TMS-Q

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.



CONESTOGA-ROVERS & ASSOCIATES 6520 Corporate Drive Indianapolis, Indiana 46278 (317) 291-7007 phone (317) 328-2666 fax		SHIPPED TO (Laboratory Name): <i>IA</i>		500-34638						
		REFERENCE NUMBER: <i>070102-3</i>		PROJECT NAME: <i>CAT-Mapleton</i>						
CHAIN-OF-CUSTODY RECORD										
SAMPLER'S SIGNATURE: <i>[Signature]</i>			PRINTED NAME: <i>Tim Ranyer</i>							
SEQ. No.		DATE	TIME	SAMPLE IDENTIFICATION No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS <i>IDS</i> <i>Select metals</i> <i>NDA FI (L) SW</i>	REMARKS		
1	5/25/11	855		WL-052511-TP-001	Water	1	X			} <i>50mg TAT</i>
2		900		↓ ↓ ↓ -002	↓	1	X			
3		915		↓ ↓ ↓ -003	↓	1	X			
4	5/25/11	950		WL-052511-TP-004	Water	1	X			
5	5/25/11	950		WS-052511-TP-001	Water	1	X			
6	5/25/11	1000		WS-052511-TP-002	Water	1	X			
7	5/25/11	1045		GLW-052511-TP-001	Water	2	X	X	X	
8	5/25/11	1135		↓ ↓ ↓ -002	Water	2	X	X	X	
9	5/25/11	1545		GLW-052511-TP-003	Water	2	X	X	X	
TOTAL NUMBER OF CONTAINERS						<i>12</i>				
RELINQUISHED BY: <i>[Signature]</i>		DATE: <i>5/25/11</i>		RECEIVED BY:		DATE:				
①		TIME: <i>1730</i>		②		TIME:				
RELINQUISHED BY:		DATE:		RECEIVED BY:		DATE:				
②		TIME:		③		TIME:				
RELINQUISHED BY:		DATE:		RECEIVED BY:		DATE:				
③		TIME:		④		TIME:				
METHOD OF SHIPMENT: <i>Fed Ex</i>				TRACKING No. <i>8724 2398 4489</i>						
White - Fully Executed Copy Yellow - Receiving Laboratory Copy Pink - Shipper Copy Goldenrod - Sampler Copy		SAMPLE TEAM: <i>Tim Ranyer</i> <i>Jim Bolter</i>		RECEIVED FOR LABORATORY BY:		2404				
				DATE: <i>5/26/11</i>		TIME: <i>1030</i>				

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Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 500-34638-2

Login Number: 34638

List Source: TestAmerica Chicago

List Number: 1

Creator: Lunt, Jeff T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	2.2
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

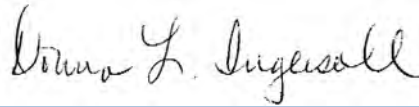
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-34266-1
Client Project/Site: Mapleton Landfill

For:
Caterpillar Inc.
8826 W. Route 24
Mapleton, Illinois 61547

Attn: Mr. Dennis Riehl



Authorized for release by:
06/09/2011 06:47:00 AM

Donna Ingersoll
Project Manager II
donna.ingersoll@testamericainc.com



LINKS

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Have a Question?



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www.testamericainc.com

Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all 2003 NELAC requirements for accredited parameters, exceptions are noted in this report. Pursuant to NELAC, this report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Client: Caterpillar Inc.
Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-34266-1

Job ID: 500-34266-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-34266-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

Method(s) 8260B: The matrix spike duplicate for sample 5 was analyzed 4 minutes past the 12 hour tune time.

No other analytical or quality issues were noted.

Metals

No analytical or quality issues were noted.

General Chemistry

No analytical or quality issues were noted.

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Client: Caterpillar Inc.
 Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-34266-1

Client Sample ID: L301

Lab Sample ID: 500-34266-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.12		0.010		mg/L	1		6010B	Total/NA
Iron	3.2		0.20		mg/L	1		6010B	Total/NA
Manganese	0.17		0.010		mg/L	1		6010B	Total/NA
Arsenic	0.0012		0.0010		mg/L	1		6020	Total Recovera
Sulfate	40		10		mg/L	2		9038	Total/NA
Chloride	120		10		mg/L	5		9251	Total/NA
Total Dissolved Solids	1300		10		mg/L	1		SM 2540C	Total/NA
Fluoride	2.8		0.10		mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: L302

Lab Sample ID: 500-34266-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	13		0.50		ug/L	1		8260B	Total/NA
Barium	0.083		0.010		mg/L	1		6010B	Total/NA
Iron	3.3		0.20		mg/L	1		6010B	Total/NA
Manganese	0.040		0.010		mg/L	1		6010B	Total/NA
Arsenic	0.0068		0.0010		mg/L	1		6020	Total Recovera
Sulfate	19		5.0		mg/L	1		9038	Total/NA
Chloride	420		50		mg/L	25		9251	Total/NA
Total Dissolved Solids	2000		10		mg/L	1		SM 2540C	Total/NA
Fluoride	2.8		0.10		mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: L303R

Lab Sample ID: 500-34266-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.069		0.010		mg/L	1		6010B	Total/NA
Iron	3.4		0.20		mg/L	1		6010B	Total/NA
Manganese	0.43		0.010		mg/L	1		6010B	Total/NA
Arsenic	0.0018		0.0010		mg/L	1		6020	Total Recovera
Sulfate	410		100		mg/L	20		9038	Total/NA
Chloride	120		10		mg/L	5		9251	Total/NA
Total Dissolved Solids	1000		10		mg/L	1		SM 2540C	Total/NA
Fluoride	2.4		0.10		mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: L304

Lab Sample ID: 500-34266-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.029		0.010		mg/L	1		6010B	Total/NA
Iron	0.98		0.20		mg/L	1		6010B	Total/NA
Manganese	0.084		0.010		mg/L	1		6010B	Total/NA
Lead	0.00069		0.00050		mg/L	1		6020	Total Recovera
Arsenic	0.0025		0.0010		mg/L	1		6020	Total Recovera
Cadmium	0.00091		0.00050		mg/L	1		6020	Total Recovera
Sulfate	32		10		mg/L	2		9038	Total/NA
Chloride	110		10		mg/L	5		9251	Total/NA
Total Dissolved Solids	1200		10		mg/L	1		SM 2540C	Total/NA
Fluoride	8.2		0.10		mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: L305

Lab Sample ID: 500-34266-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.016		0.010		mg/L	1		6010B	Total/NA
Manganese	0.060		0.010		mg/L	1		6010B	Total/NA
Arsenic	0.0017		0.0010		mg/L	1		6020	Total Recovera



Client: Caterpillar Inc.
 Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-34266-1

Client Sample ID: L305 (Continued)

Lab Sample ID: 500-34266-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	130		25		mg/L	5		9038	Total/NA
Chloride	220		10		mg/L	5		9251	Total/NA
Total Dissolved Solids	1400		10		mg/L	1		SM 2540C	Total/NA
Fluoride	3.5		0.10		mg/L	1		SM 4500 F C	Total/NA

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Client: Caterpillar Inc.
 Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-34266-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6020	Metals (ICP/MS)	SW846	TAL CHI
9038	Sulfate, Turbidimetric	SW846	TAL CHI
9251	Chloride	SW846	TAL CHI
Nitrate by calc	Nitrogen, Nitrate-Nitrite	SM	TAL CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CHI
SM 4500 F C	Fluoride	SM	TAL CHI
SM 4500 NO2 B	Nitrogen, Nitrite	SM	TAL CHI
SM 4500 NO3 F	Nitrogen, Nitrate	SM	TAL CHI

Protocol References:

- SM = "Standard Methods For The Examination Of Water And Wastewater",
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Client: Caterpillar Inc.
Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-34266-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-34266-1	L301	Water	05/16/11 14:35	05/18/11 10:30
500-34266-2	L302	Water	05/16/11 17:15	05/18/11 10:30
500-34266-3	L303R	Water	05/17/11 13:00	05/18/11 10:30
500-34266-4	L304	Water	05/17/11 11:05	05/18/11 10:30
500-34266-5	L305	Water	05/17/11 15:55	05/18/11 10:30

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Client: Caterpillar Inc.
 Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-34266-1

Client Sample ID: L301

Lab Sample ID: 500-34266-1

Date Collected: 05/16/11 14:35

Matrix: Water

Date Received: 05/18/11 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.50		ug/L			05/25/11 09:43	1
1,1-Dichloroethene	ND		1.0		ug/L			05/25/11 09:43	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/25/11 09:43	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/25/11 09:43	1
Chloroform	ND		1.0		ug/L			05/25/11 09:43	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/25/11 09:43	1
Carbon tetrachloride	ND		1.0		ug/L			05/25/11 09:43	1
Benzene	ND		0.50		ug/L			05/25/11 09:43	1
1,2-Dichloroethane	ND		1.0		ug/L			05/25/11 09:43	1
Trichloroethene	ND		0.50		ug/L			05/25/11 09:43	1
1,2-Dichloropropane	ND		1.0		ug/L			05/25/11 09:43	1
Bromodichloromethane	ND		1.0		ug/L			05/25/11 09:43	1
Toluene	ND		0.50		ug/L			05/25/11 09:43	1
Tetrachloroethene	ND		1.0		ug/L			05/25/11 09:43	1
Dibromochloromethane	ND		1.0		ug/L			05/25/11 09:43	1
Chlorobenzene	ND		1.0		ug/L			05/25/11 09:43	1
Ethylbenzene	ND		0.50		ug/L			05/25/11 09:43	1
Xylenes, Total	ND		1.0		ug/L			05/25/11 09:43	1
Styrene	ND		1.0		ug/L			05/25/11 09:43	1
Bromoform	ND		1.0		ug/L			05/25/11 09:43	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 124		05/25/11 09:43	1
Toluene-d8 (Surr)	98		80 - 121		05/25/11 09:43	1
4-Bromofluorobenzene (Surr)	92		77 - 112		05/25/11 09:43	1
Dibromofluoromethane	103		78 - 119		05/25/11 09:43	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.12		0.010		mg/L		05/18/11 16:30	05/23/11 13:59	1
Chromium	ND		0.010		mg/L		05/18/11 16:30	05/23/11 13:59	1
Copper	ND		0.010		mg/L		05/18/11 16:30	05/23/11 13:59	1
Iron	3.2		0.20		mg/L		05/18/11 16:30	05/23/11 13:59	1
Manganese	0.17		0.010		mg/L		05/18/11 16:30	05/23/11 13:59	1
Zinc	ND		0.020		mg/L		05/18/11 16:30	05/23/11 13:59	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.00050		mg/L		05/19/11 08:00	05/27/11 15:13	1
Arsenic	0.0012		0.0010		mg/L		05/19/11 08:00	05/27/11 15:13	1
Cadmium	ND		0.00050		mg/L		05/19/11 08:00	05/27/11 15:13	1
Selenium	ND		0.0025		mg/L		05/19/11 08:00	05/27/11 15:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	40		10		mg/L			06/03/11 03:53	2
Chloride	120		10		mg/L			05/27/11 10:47	5
Nitrogen, Nitrate	ND		0.10		mg/L			06/03/11 16:16	1
Total Dissolved Solids	1300		10		mg/L			05/19/11 11:06	1
Fluoride	2.8		0.10		mg/L			05/24/11 08:20	1
Nitrogen, Nitrite	ND		0.020		mg/L			05/18/11 12:31	1

Client: Caterpillar Inc.
Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-34266-1

Client Sample ID: L301

Lab Sample ID: 500-34266-1

Date Collected: 05/16/11 14:35

Matrix: Water

Date Received: 05/18/11 10:30

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate Nitrite	ND		0.10		mg/L			06/02/11 14:37	1

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Client: Caterpillar Inc.
 Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-34266-1

Client Sample ID: L302

Lab Sample ID: 500-34266-2

Date Collected: 05/16/11 17:15

Matrix: Water

Date Received: 05/18/11 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.50		ug/L			05/25/11 10:07	1
1,1-Dichloroethene	ND		1.0		ug/L			05/25/11 10:07	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/25/11 10:07	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/25/11 10:07	1
Chloroform	ND		1.0		ug/L			05/25/11 10:07	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/25/11 10:07	1
Carbon tetrachloride	ND		1.0		ug/L			05/25/11 10:07	1
Benzene	13		0.50		ug/L			05/25/11 10:07	1
1,2-Dichloroethane	ND		1.0		ug/L			05/25/11 10:07	1
Trichloroethene	ND		0.50		ug/L			05/25/11 10:07	1
1,2-Dichloropropane	ND		1.0		ug/L			05/25/11 10:07	1
Bromodichloromethane	ND		1.0		ug/L			05/25/11 10:07	1
Toluene	ND		0.50		ug/L			05/25/11 10:07	1
Tetrachloroethene	ND		1.0		ug/L			05/25/11 10:07	1
Dibromochloromethane	ND		1.0		ug/L			05/25/11 10:07	1
Chlorobenzene	ND		1.0		ug/L			05/25/11 10:07	1
Ethylbenzene	ND		0.50		ug/L			05/25/11 10:07	1
Xylenes, Total	ND		1.0		ug/L			05/25/11 10:07	1
Styrene	ND		1.0		ug/L			05/25/11 10:07	1
Bromoform	ND		1.0		ug/L			05/25/11 10:07	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 124		05/25/11 10:07	1
Toluene-d8 (Surr)	103		80 - 121		05/25/11 10:07	1
4-Bromofluorobenzene (Surr)	95		77 - 112		05/25/11 10:07	1
Dibromofluoromethane	110		78 - 119		05/25/11 10:07	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.083		0.010		mg/L		05/18/11 16:30	05/23/11 14:04	1
Chromium	ND		0.010		mg/L		05/18/11 16:30	05/23/11 14:04	1
Copper	ND		0.010		mg/L		05/18/11 16:30	05/23/11 14:04	1
Iron	3.3		0.20		mg/L		05/18/11 16:30	05/23/11 14:04	1
Manganese	0.040		0.010		mg/L		05/18/11 16:30	05/23/11 14:04	1
Zinc	ND		0.020		mg/L		05/18/11 16:30	05/23/11 14:04	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.00050		mg/L		05/19/11 08:00	05/27/11 15:15	1
Arsenic	0.0068		0.0010		mg/L		05/19/11 08:00	05/27/11 15:15	1
Cadmium	ND		0.00050		mg/L		05/19/11 08:00	05/27/11 15:15	1
Selenium	ND		0.0025		mg/L		05/19/11 08:00	05/27/11 15:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	19		5.0		mg/L			06/03/11 03:56	1
Chloride	420		50		mg/L			05/27/11 11:07	25
Nitrogen, Nitrate	ND		0.10		mg/L			06/03/11 16:16	1
Total Dissolved Solids	2000		10		mg/L			05/19/11 11:09	1
Fluoride	2.8		0.10		mg/L			05/24/11 08:23	1
Nitrogen, Nitrite	ND		0.020		mg/L			05/18/11 12:32	1

Client: Caterpillar Inc.
Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-34266-1

Client Sample ID: L302

Lab Sample ID: 500-34266-2

Date Collected: 05/16/11 17:15

Matrix: Water

Date Received: 05/18/11 10:30

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate Nitrite	ND		0.10		mg/L			06/02/11 13:26	1

- 1
- 2
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Client: Caterpillar Inc.
 Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-34266-1

Client Sample ID: L303R

Lab Sample ID: 500-34266-3

Date Collected: 05/17/11 13:00

Matrix: Water

Date Received: 05/18/11 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.50		ug/L			05/25/11 10:31	1
1,1-Dichloroethene	ND		1.0		ug/L			05/25/11 10:31	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/25/11 10:31	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/25/11 10:31	1
Chloroform	ND		1.0		ug/L			05/25/11 10:31	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/25/11 10:31	1
Carbon tetrachloride	ND		1.0		ug/L			05/25/11 10:31	1
Benzene	ND		0.50		ug/L			05/25/11 10:31	1
1,2-Dichloroethane	ND		1.0		ug/L			05/25/11 10:31	1
Trichloroethene	ND		0.50		ug/L			05/25/11 10:31	1
1,2-Dichloropropane	ND		1.0		ug/L			05/25/11 10:31	1
Bromodichloromethane	ND		1.0		ug/L			05/25/11 10:31	1
Toluene	ND		0.50		ug/L			05/25/11 10:31	1
Tetrachloroethene	ND		1.0		ug/L			05/25/11 10:31	1
Dibromochloromethane	ND		1.0		ug/L			05/25/11 10:31	1
Chlorobenzene	ND		1.0		ug/L			05/25/11 10:31	1
Ethylbenzene	ND		0.50		ug/L			05/25/11 10:31	1
Xylenes, Total	ND		1.0		ug/L			05/25/11 10:31	1
Styrene	ND		1.0		ug/L			05/25/11 10:31	1
Bromoform	ND		1.0		ug/L			05/25/11 10:31	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 124		05/25/11 10:31	1
Toluene-d8 (Surr)	105		80 - 121		05/25/11 10:31	1
4-Bromofluorobenzene (Surr)	89		77 - 112		05/25/11 10:31	1
Dibromofluoromethane	104		78 - 119		05/25/11 10:31	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.069		0.010		mg/L		05/18/11 16:30	05/23/11 14:08	1
Chromium	ND		0.010		mg/L		05/18/11 16:30	05/23/11 14:08	1
Copper	ND		0.010		mg/L		05/18/11 16:30	05/23/11 14:08	1
Iron	3.4		0.20		mg/L		05/18/11 16:30	05/23/11 14:08	1
Manganese	0.43		0.010		mg/L		05/18/11 16:30	05/23/11 14:08	1
Zinc	ND		0.020		mg/L		05/18/11 16:30	05/23/11 14:08	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.00050		mg/L		05/19/11 08:00	05/27/11 15:17	1
Arsenic	0.0018		0.0010		mg/L		05/19/11 08:00	05/27/11 15:17	1
Cadmium	ND		0.00050		mg/L		05/19/11 08:00	05/27/11 15:17	1
Selenium	ND		0.0025		mg/L		05/19/11 08:00	05/27/11 15:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	410		100		mg/L			06/03/11 03:59	20
Chloride	120		10		mg/L			05/27/11 11:54	5
Nitrogen, Nitrate	ND		0.10		mg/L			06/03/11 16:16	1
Total Dissolved Solids	1000		10		mg/L			05/19/11 11:12	1
Fluoride	2.4		0.10		mg/L			05/24/11 08:37	1
Nitrogen, Nitrite	ND		0.020		mg/L			05/18/11 12:32	1

Client: Caterpillar Inc.
Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-34266-1

Client Sample ID: L303R

Lab Sample ID: 500-34266-3

Date Collected: 05/17/11 13:00

Matrix: Water

Date Received: 05/18/11 10:30

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate Nitrite	ND		0.10		mg/L			06/02/11 13:28	1

- 1
- 2
- 3
- 4
- 5
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- 12
- 13
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Client: Caterpillar Inc.
 Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-34266-1

Client Sample ID: L304

Lab Sample ID: 500-34266-4

Date Collected: 05/17/11 11:05

Matrix: Water

Date Received: 05/18/11 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.50		ug/L			05/25/11 10:55	1
1,1-Dichloroethene	ND		1.0		ug/L			05/25/11 10:55	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/25/11 10:55	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/25/11 10:55	1
Chloroform	ND		1.0		ug/L			05/25/11 10:55	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/25/11 10:55	1
Carbon tetrachloride	ND		1.0		ug/L			05/25/11 10:55	1
Benzene	ND		0.50		ug/L			05/25/11 10:55	1
1,2-Dichloroethane	ND		1.0		ug/L			05/25/11 10:55	1
Trichloroethene	ND		0.50		ug/L			05/25/11 10:55	1
1,2-Dichloropropane	ND		1.0		ug/L			05/25/11 10:55	1
Bromodichloromethane	ND		1.0		ug/L			05/25/11 10:55	1
Toluene	ND		0.50		ug/L			05/25/11 10:55	1
Tetrachloroethene	ND		1.0		ug/L			05/25/11 10:55	1
Dibromochloromethane	ND		1.0		ug/L			05/25/11 10:55	1
Chlorobenzene	ND		1.0		ug/L			05/25/11 10:55	1
Ethylbenzene	ND		0.50		ug/L			05/25/11 10:55	1
Xylenes, Total	ND		1.0		ug/L			05/25/11 10:55	1
Styrene	ND		1.0		ug/L			05/25/11 10:55	1
Bromoform	ND		1.0		ug/L			05/25/11 10:55	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 124		05/25/11 10:55	1
Toluene-d8 (Surr)	103		80 - 121		05/25/11 10:55	1
4-Bromofluorobenzene (Surr)	88		77 - 112		05/25/11 10:55	1
Dibromofluoromethane	105		78 - 119		05/25/11 10:55	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.029		0.010		mg/L		05/18/11 16:30	05/23/11 14:20	1
Chromium	ND		0.010		mg/L		05/18/11 16:30	05/23/11 14:20	1
Copper	ND		0.010		mg/L		05/18/11 16:30	05/23/11 14:20	1
Iron	0.98		0.20		mg/L		05/18/11 16:30	05/23/11 14:20	1
Manganese	0.084		0.010		mg/L		05/18/11 16:30	05/23/11 14:20	1
Zinc	ND		0.020		mg/L		05/18/11 16:30	05/23/11 14:20	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00069		0.00050		mg/L		05/19/11 08:00	05/27/11 15:20	1
Arsenic	0.0025		0.0010		mg/L		05/19/11 08:00	05/27/11 15:20	1
Cadmium	0.00091		0.00050		mg/L		05/19/11 08:00	05/27/11 15:20	1
Selenium	ND		0.0025		mg/L		05/19/11 08:00	05/27/11 15:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	32		10		mg/L			06/03/11 04:00	2
Chloride	110		10		mg/L			05/27/11 10:50	5
Nitrogen, Nitrate	ND		0.10		mg/L			06/03/11 16:16	1
Total Dissolved Solids	1200		10		mg/L			05/19/11 11:14	1
Fluoride	8.2		0.10		mg/L			05/24/11 08:40	1
Nitrogen, Nitrite	ND		0.020		mg/L			05/18/11 12:33	1

Client: Caterpillar Inc.
Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-34266-1

Client Sample ID: L304

Lab Sample ID: 500-34266-4

Date Collected: 05/17/11 11:05

Matrix: Water

Date Received: 05/18/11 10:30

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate Nitrite	ND		0.10		mg/L			06/02/11 13:30	1

- 1
- 2
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- 4
- 5
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Client: Caterpillar Inc.
 Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-34266-1

Client Sample ID: L305

Lab Sample ID: 500-34266-5

Date Collected: 05/17/11 15:55

Matrix: Water

Date Received: 05/18/11 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.50		ug/L			05/25/11 11:19	1
1,1-Dichloroethene	ND		1.0		ug/L			05/25/11 11:19	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/25/11 11:19	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/25/11 11:19	1
Chloroform	ND		1.0		ug/L			05/25/11 11:19	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/25/11 11:19	1
Carbon tetrachloride	ND		1.0		ug/L			05/25/11 11:19	1
Benzene	ND		0.50		ug/L			05/25/11 11:19	1
1,2-Dichloroethane	ND		1.0		ug/L			05/25/11 11:19	1
Trichloroethene	ND		0.50		ug/L			05/25/11 11:19	1
1,2-Dichloropropane	ND		1.0		ug/L			05/25/11 11:19	1
Bromodichloromethane	ND		1.0		ug/L			05/25/11 11:19	1
Toluene	ND		0.50		ug/L			05/25/11 11:19	1
Tetrachloroethene	ND		1.0		ug/L			05/25/11 11:19	1
Dibromochloromethane	ND		1.0		ug/L			05/25/11 11:19	1
Chlorobenzene	ND		1.0		ug/L			05/25/11 11:19	1
Ethylbenzene	ND		0.50		ug/L			05/25/11 11:19	1
Xylenes, Total	ND		1.0		ug/L			05/25/11 11:19	1
Styrene	ND		1.0		ug/L			05/25/11 11:19	1
Bromoform	ND		1.0		ug/L			05/25/11 11:19	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 124		05/25/11 11:19	1
Toluene-d8 (Surr)	101		80 - 121		05/25/11 11:19	1
4-Bromofluorobenzene (Surr)	88		77 - 112		05/25/11 11:19	1
Dibromofluoromethane	104		78 - 119		05/25/11 11:19	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.016		0.010		mg/L		05/18/11 16:30	05/23/11 14:25	1
Chromium	ND		0.010		mg/L		05/18/11 16:30	05/23/11 14:25	1
Copper	ND		0.010		mg/L		05/18/11 16:30	05/23/11 14:25	1
Iron	ND		0.20		mg/L		05/18/11 16:30	05/23/11 14:25	1
Manganese	0.060		0.010		mg/L		05/18/11 16:30	05/23/11 14:25	1
Zinc	ND		0.020		mg/L		05/18/11 16:30	05/23/11 14:25	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.00050		mg/L		05/19/11 08:00	05/27/11 15:22	1
Arsenic	0.0017		0.0010		mg/L		05/19/11 08:00	05/27/11 15:22	1
Cadmium	ND		0.00050		mg/L		05/19/11 08:00	05/27/11 15:22	1
Selenium	ND		0.0025		mg/L		05/19/11 08:00	05/27/11 15:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	130		25		mg/L			06/03/11 04:01	5
Chloride	220		10		mg/L			05/27/11 10:50	5
Nitrogen, Nitrate	ND		0.10		mg/L			06/03/11 16:16	1
Total Dissolved Solids	1400		10		mg/L			05/19/11 11:17	1
Fluoride	3.5		0.10		mg/L			05/24/11 08:43	1
Nitrogen, Nitrite	ND		0.020		mg/L			05/18/11 12:33	1

Client: Caterpillar Inc.
Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-34266-1

Client Sample ID: L305

Lab Sample ID: 500-34266-5

Date Collected: 05/17/11 15:55

Matrix: Water

Date Received: 05/18/11 10:30

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate Nitrite	ND		0.10		mg/L			06/02/11 13:33	1

- 1
- 2
- 3
- 4
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- 10
- 11
- 12
- 13
- 14

Client: Caterpillar Inc.
Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-34266-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

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Client: Caterpillar Inc.
 Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-34266-1

GC/MS VOA

Analysis Batch: 114355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-114355/6	Lab Control Sample	Total/NA	Water	8260B	
MB 500-114355/7	Method Blank	Total/NA	Water	8260B	
500-34266-1	L301	Total/NA	Water	8260B	
500-34266-2	L302	Total/NA	Water	8260B	
500-34266-3	L303R	Total/NA	Water	8260B	
500-34266-4	L304	Total/NA	Water	8260B	
500-34266-5	L305	Total/NA	Water	8260B	
500-34266-5 MS	L305	Total/NA	Water	8260B	
500-34266-5 MSD	L305	Total/NA	Water	8260B	

Metals

Prep Batch: 113739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-113739/1-A	Method Blank	Total/NA	Water	3010A	
LCS 500-113739/2-A	Lab Control Sample	Total/NA	Water	3010A	
500-34266-1	L301	Total/NA	Water	3010A	
500-34266-2	L302	Total/NA	Water	3010A	
500-34266-3	L303R	Total/NA	Water	3010A	
500-34266-4	L304	Total/NA	Water	3010A	
500-34266-5	L305	Total/NA	Water	3010A	

Prep Batch: 113807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-113807/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-113807/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-34266-1	L301	Total Recoverable	Water	3005A	
500-34266-2	L302	Total Recoverable	Water	3005A	
500-34266-3	L303R	Total Recoverable	Water	3005A	
500-34266-4	L304	Total Recoverable	Water	3005A	
500-34266-5	L305	Total Recoverable	Water	3005A	

Analysis Batch: 114192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-113739/1-A	Method Blank	Total/NA	Water	6010B	113739
LCS 500-113739/2-A	Lab Control Sample	Total/NA	Water	6010B	113739
500-34266-1	L301	Total/NA	Water	6010B	113739
500-34266-2	L302	Total/NA	Water	6010B	113739
500-34266-3	L303R	Total/NA	Water	6010B	113739
500-34266-4	L304	Total/NA	Water	6010B	113739
500-34266-5	L305	Total/NA	Water	6010B	113739

Analysis Batch: 114895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-113807/1-A	Method Blank	Total Recoverable	Water	6020	113807
LCS 500-113807/2-A	Lab Control Sample	Total Recoverable	Water	6020	113807
500-34266-1	L301	Total Recoverable	Water	6020	113807
500-34266-2	L302	Total Recoverable	Water	6020	113807
500-34266-3	L303R	Total Recoverable	Water	6020	113807
500-34266-4	L304	Total Recoverable	Water	6020	113807
500-34266-5	L305	Total Recoverable	Water	6020	113807



Client: Caterpillar Inc.
 Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-34266-1

General Chemistry

Analysis Batch: 113680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-113680/3	Method Blank	Total/NA	Water	SM 4500 NO2 B	
LCS 500-113680/4	Lab Control Sample	Total/NA	Water	SM 4500 NO2 B	
500-34266-1	L301	Total/NA	Water	SM 4500 NO2 B	
500-34266-2	L302	Total/NA	Water	SM 4500 NO2 B	
500-34266-3	L303R	Total/NA	Water	SM 4500 NO2 B	
500-34266-4	L304	Total/NA	Water	SM 4500 NO2 B	
500-34266-5	L305	Total/NA	Water	SM 4500 NO2 B	

Analysis Batch: 113813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-113813/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-113813/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-34266-1	L301	Total/NA	Water	SM 2540C	
500-34266-2	L302	Total/NA	Water	SM 2540C	
500-34266-3	L303R	Total/NA	Water	SM 2540C	
500-34266-4	L304	Total/NA	Water	SM 2540C	
500-34266-5	L305	Total/NA	Water	SM 2540C	

Analysis Batch: 114265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-114265/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-114265/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-34266-1	L301	Total/NA	Water	SM 4500 F C	
500-34266-2	L302	Total/NA	Water	SM 4500 F C	
500-34266-3	L303R	Total/NA	Water	SM 4500 F C	
500-34266-4	L304	Total/NA	Water	SM 4500 F C	
500-34266-5	L305	Total/NA	Water	SM 4500 F C	

Analysis Batch: 114716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-114716/11	Method Blank	Total/NA	Water	9251	
LCS 500-114716/12	Lab Control Sample	Total/NA	Water	9251	
500-34266-1	L301	Total/NA	Water	9251	
500-34266-4	L304	Total/NA	Water	9251	
500-34266-5	L305	Total/NA	Water	9251	
500-34266-2	L302	Total/NA	Water	9251	
500-34266-3	L303R	Total/NA	Water	9251	

Analysis Batch: 115168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-34266-1	L301	Total/NA	Water	Nitrate by calc	
500-34266-2	L302	Total/NA	Water	Nitrate by calc	
500-34266-3	L303R	Total/NA	Water	Nitrate by calc	
500-34266-4	L304	Total/NA	Water	Nitrate by calc	
500-34266-5	L305	Total/NA	Water	Nitrate by calc	

Analysis Batch: 115296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-115296/3	Method Blank	Total/NA	Water	9038	
LCS 500-115296/4	Lab Control Sample	Total/NA	Water	9038	
500-34266-1	L301	Total/NA	Water	9038	
500-34266-2	L302	Total/NA	Water	9038	



Client: Caterpillar Inc.
 Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-34266-1

General Chemistry (Continued)

Analysis Batch: 115296 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-34266-2 MS	L302	Total/NA	Water	9038	
500-34266-2 MSD	L302	Total/NA	Water	9038	
500-34266-3	L303R	Total/NA	Water	9038	
500-34266-4	L304	Total/NA	Water	9038	
500-34266-5	L305	Total/NA	Water	9038	

Analysis Batch: 115364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-34266-2	L302	Total/NA	Water	SM 4500 NO3 F	
500-34266-3	L303R	Total/NA	Water	SM 4500 NO3 F	
500-34266-4	L304	Total/NA	Water	SM 4500 NO3 F	
500-34266-5	L305	Total/NA	Water	SM 4500 NO3 F	
500-34266-1	L301	Total/NA	Water	SM 4500 NO3 F	

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Client: Caterpillar Inc.
 Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-34266-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (77-124)	TOL (80-121)	BFB (77-112)	DBFM (78-119)
500-34266-1	L301	103	98	92	103
500-34266-2	L302	108	103	95	110
500-34266-3	L303R	104	105	89	104
500-34266-4	L304	102	103	88	105
500-34266-5	L305	103	101	88	104
500-34266-5 MS	L305	102	103	93	109
500-34266-5 MSD	L305	103	104	97	111
LCS 500-114355/6	Lab Control Sample	104	113	95	106
MB 500-114355/7	Method Blank	108	102	94	105

Surrogate Legend

- 12DCE = 1,2-Dichloroethane-d4 (Surr)
- TOL = Toluene-d8 (Surr)
- BFB = 4-Bromofluorobenzene (Surr)
- DBFM = Dibromofluoromethane



Client: Caterpillar Inc.
 Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-34266-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-114355/7

Matrix: Water

Analysis Batch: 114355

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Vinyl chloride	ND		0.50		ug/L			05/25/11 02:05	1
1,1-Dichloroethene	ND		1.0		ug/L			05/25/11 02:05	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/25/11 02:05	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/25/11 02:05	1
Chloroform	ND		1.0		ug/L			05/25/11 02:05	1
1,1,1-Trichloroethane	ND		1.0		ug/L			05/25/11 02:05	1
Carbon tetrachloride	ND		1.0		ug/L			05/25/11 02:05	1
Benzene	ND		0.50		ug/L			05/25/11 02:05	1
1,2-Dichloroethane	ND		1.0		ug/L			05/25/11 02:05	1
Trichloroethene	ND		0.50		ug/L			05/25/11 02:05	1
1,2-Dichloropropane	ND		1.0		ug/L			05/25/11 02:05	1
Bromodichloromethane	ND		1.0		ug/L			05/25/11 02:05	1
Toluene	ND		0.50		ug/L			05/25/11 02:05	1
Tetrachloroethene	ND		1.0		ug/L			05/25/11 02:05	1
Dibromochloromethane	ND		1.0		ug/L			05/25/11 02:05	1
Chlorobenzene	ND		1.0		ug/L			05/25/11 02:05	1
Ethylbenzene	ND		0.50		ug/L			05/25/11 02:05	1
Xylenes, Total	ND		1.0		ug/L			05/25/11 02:05	1
Styrene	ND		1.0		ug/L			05/25/11 02:05	1
Bromoform	ND		1.0		ug/L			05/25/11 02:05	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	% Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	108		77 - 124		05/25/11 02:05	1
Toluene-d8 (Surr)	102		80 - 121		05/25/11 02:05	1
4-Bromofluorobenzene (Surr)	94		77 - 112		05/25/11 02:05	1
Dibromofluoromethane	105		78 - 119		05/25/11 02:05	1

Lab Sample ID: LCS 500-114355/6

Matrix: Water

Analysis Batch: 114355

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
1,1-Dichloroethene	50.0	45.2		ug/L		90	60 - 126
trans-1,2-Dichloroethene	50.0	51.3		ug/L		103	67 - 120
cis-1,2-Dichloroethene	50.0	50.6		ug/L		101	66 - 111
Chloroform	50.0	47.5		ug/L		95	71 - 116
1,1,1-Trichloroethane	50.0	49.0		ug/L		98	66 - 128
Carbon tetrachloride	50.0	45.2		ug/L		90	58 - 132
Benzene	50.0	46.2		ug/L		92	74 - 113
1,2-Dichloroethane	50.0	42.5		ug/L		85	69 - 115
Trichloroethene	50.0	43.6		ug/L		87	75 - 116
1,2-Dichloropropane	50.0	48.6		ug/L		97	68 - 123
Bromodichloromethane	50.0	44.9		ug/L		90	73 - 120
Toluene	50.0	50.3		ug/L		101	76 - 121
Tetrachloroethene	50.0	45.0		ug/L		90	76 - 114
Dibromochloromethane	50.0	43.0		ug/L		86	73 - 118
Chlorobenzene	50.0	47.8		ug/L		96	81 - 111
Ethylbenzene	50.0	44.7		ug/L		89	79 - 114

Client: Caterpillar Inc.
 Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-34266-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-114355/6

Matrix: Water

Analysis Batch: 114355

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec Limits
Xylenes, Total	150	135		ug/L		90	74 - 117
Styrene	50.0	45.3		ug/L		91	76 - 118
Bromoform	50.0	36.7		ug/L		73	64 - 126

Surrogate	LCS % Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		77 - 124
Toluene-d8 (Surr)	113		80 - 121
4-Bromofluorobenzene (Surr)	95		77 - 112
Dibromofluoromethane	106		78 - 119

Lab Sample ID: 500-34266-5 MS

Matrix: Water

Analysis Batch: 114355

Client Sample ID: L305

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec Limits
Vinyl chloride	ND		50.0	43.3		ug/L		87	47 - 138
1,1-Dichloroethene	ND		50.0	44.9		ug/L		90	60 - 126
trans-1,2-Dichloroethene	ND		50.0	51.7		ug/L		103	67 - 120
cis-1,2-Dichloroethene	ND		50.0	51.2		ug/L		102	66 - 111
Chloroform	ND		50.0	49.0		ug/L		98	71 - 116
1,1,1-Trichloroethane	ND		50.0	48.8		ug/L		98	66 - 128
Carbon tetrachloride	ND		50.0	45.9		ug/L		92	58 - 132
Benzene	ND		50.0	47.5		ug/L		95	74 - 113
1,2-Dichloroethane	ND		50.0	45.5		ug/L		91	69 - 115
Trichloroethene	ND		50.0	43.4		ug/L		87	75 - 116
1,2-Dichloropropane	ND		50.0	47.7		ug/L		95	68 - 123
Bromodichloromethane	ND		50.0	46.2		ug/L		92	73 - 120
Toluene	ND		50.0	48.3		ug/L		97	76 - 121
Tetrachloroethene	ND		50.0	42.4		ug/L		85	76 - 114
Dibromochloromethane	ND		50.0	43.6		ug/L		87	73 - 118
Chlorobenzene	ND		50.0	46.8		ug/L		94	81 - 111
Ethylbenzene	ND		50.0	44.3		ug/L		89	79 - 114
Xylenes, Total	ND		150	133		ug/L		88	74 - 117
Styrene	ND		50.0	44.5		ug/L		89	76 - 118
Bromoform	ND		50.0	39.5		ug/L		79	64 - 126

Surrogate	MS % Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		77 - 124
Toluene-d8 (Surr)	103		80 - 121
4-Bromofluorobenzene (Surr)	93		77 - 112
Dibromofluoromethane	109		78 - 119

Lab Sample ID: 500-34266-5 MSD

Matrix: Water

Analysis Batch: 114355

Client Sample ID: L305

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec Limits	RPD	RPD Limit
Vinyl chloride	ND		50.0	42.2		ug/L		84	47 - 138	3	20
1,1-Dichloroethene	ND		50.0	45.9		ug/L		92	60 - 126	2	20

TestAmerica Chicago

Client: Caterpillar Inc.
 Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-34266-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-34266-5 MSD
 Matrix: Water
 Analysis Batch: 114355

Client Sample ID: L305
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
trans-1,2-Dichloroethene	ND		50.0	53.5		ug/L		107	67 - 120	3	20
cis-1,2-Dichloroethene	ND		50.0	54.7		ug/L		109	66 - 111	7	20
Chloroform	ND		50.0	51.8		ug/L		104	71 - 116	6	20
1,1,1-Trichloroethane	ND		50.0	50.8		ug/L		102	66 - 128	4	20
Carbon tetrachloride	ND		50.0	49.2		ug/L		98	58 - 132	7	20
Benzene	ND		50.0	50.2		ug/L		100	74 - 113	6	20
1,2-Dichloroethane	ND		50.0	47.8		ug/L		96	69 - 115	5	20
Trichloroethene	ND		50.0	46.3		ug/L		93	75 - 116	6	20
1,2-Dichloropropane	ND		50.0	50.1		ug/L		100	68 - 123	5	20
Bromodichloromethane	ND		50.0	47.5		ug/L		95	73 - 120	3	20
Toluene	ND		50.0	48.7		ug/L		97	76 - 121	1	20
Tetrachloroethene	ND		50.0	45.8		ug/L		92	76 - 114	8	20
Dibromochloromethane	ND		50.0	46.5		ug/L		93	73 - 118	6	20
Chlorobenzene	ND		50.0	49.4		ug/L		99	81 - 111	5	20
Ethylbenzene	ND		50.0	46.9		ug/L		94	79 - 114	6	20
Xylenes, Total	ND		150	141		ug/L		94	74 - 117	6	20
Styrene	ND		50.0	48.1		ug/L		96	76 - 118	8	20
Bromoform	ND		50.0	41.8		ug/L		84	64 - 126	6	20

Surrogate	MSD % Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		77 - 124
Toluene-d8 (Surr)	104		80 - 121
4-Bromofluorobenzene (Surr)	97		77 - 112
Dibromofluoromethane	111		78 - 119

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-113739/1-A
 Matrix: Water
 Analysis Batch: 114192

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 113739

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		0.010		mg/L		05/18/11 16:30	05/23/11 13:06	1
Chromium	ND		0.010		mg/L		05/18/11 16:30	05/23/11 13:06	1
Copper	ND		0.010		mg/L		05/18/11 16:30	05/23/11 13:06	1
Iron	ND		0.20		mg/L		05/18/11 16:30	05/23/11 13:06	1
Manganese	ND		0.010		mg/L		05/18/11 16:30	05/23/11 13:06	1
Zinc	ND		0.020		mg/L		05/18/11 16:30	05/23/11 13:06	1

Lab Sample ID: LCS 500-113739/2-A
 Matrix: Water
 Analysis Batch: 114192

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 113739

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Barium	2.00	1.94		mg/L		97	80 - 120
Chromium	0.200	0.219		mg/L		110	80 - 120
Copper	0.250	0.259		mg/L		104	80 - 120
Iron	1.00	1.04		mg/L		104	80 - 120
Manganese	0.500	0.502		mg/L		100	80 - 120
Zinc	0.500	0.471		mg/L		94	80 - 120

TestAmerica Chicago

Client: Caterpillar Inc.
 Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-34266-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 500-113807/1-A
Matrix: Water
Analysis Batch: 114895

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 113807

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	ND		0.00050		mg/L		05/19/11 08:00	05/27/11 15:08	1
Arsenic	ND		0.0010		mg/L		05/19/11 08:00	05/27/11 15:08	1
Cadmium	ND		0.00050		mg/L		05/19/11 08:00	05/27/11 15:08	1
Selenium	ND		0.0025		mg/L		05/19/11 08:00	05/27/11 15:08	1

Lab Sample ID: LCS 500-113807/2-A
Matrix: Water
Analysis Batch: 114895

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 113807

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	0.100	0.103		mg/L		103	80 - 120
Cadmium	0.0500	0.0549		mg/L		110	80 - 120
Selenium	0.100	0.104		mg/L		104	80 - 120

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 500-115296/3
Matrix: Water
Analysis Batch: 115296

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Sulfate	ND		5.0		mg/L			06/03/11 03:44	1

Lab Sample ID: LCS 500-115296/4
Matrix: Water
Analysis Batch: 115296

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits

Lab Sample ID: 500-34266-2 MS
Matrix: Water
Analysis Batch: 115296

Client Sample ID: L302
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
	Sulfate	19			40.0				

Lab Sample ID: 500-34266-2 MSD
Matrix: Water
Analysis Batch: 115296

Client Sample ID: L302
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
	Sulfate	19			40.0					54.6	

Client: Caterpillar Inc.
 Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-34266-1

Method: 9251 - Chloride

Lab Sample ID: MB 500-114716/11
 Matrix: Water
 Analysis Batch: 114716

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		2.0		mg/L			05/27/11 10:43	1

Lab Sample ID: LCS 500-114716/12
 Matrix: Water
 Analysis Batch: 114716

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Chloride	50.0	48.0		mg/L		96	80 - 120

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-113813/1
 Matrix: Water
 Analysis Batch: 113813

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			05/19/11 11:01	1

Lab Sample ID: LCS 500-113813/2
 Matrix: Water
 Analysis Batch: 113813

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Total Dissolved Solids	250	286		mg/L		114	80 - 120

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-114265/3
 Matrix: Water
 Analysis Batch: 114265

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10		mg/L			05/24/11 07:05	1

Lab Sample ID: LCS 500-114265/4
 Matrix: Water
 Analysis Batch: 114265

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Fluoride	10.0	9.64		mg/L		96	80 - 120

Method: SM 4500 NO2 B - Nitrogen, Nitrite

Lab Sample ID: MB 500-113680/3
 Matrix: Water
 Analysis Batch: 113680

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrite	ND		0.020		mg/L			05/18/11 12:30	1

Client: Caterpillar Inc.
 Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-34266-1

Method: SM 4500 NO2 B - Nitrogen, Nitrite (Continued)

Lab Sample ID: LCS 500-113680/4

Matrix: Water

Analysis Batch: 113680

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Nitrogen, Nitrite	0.100	0.106		mg/L		106	80 - 120

- 1
- 2
- 3
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- 5
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- 7
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- 10
- 11
- 12
- 13
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Client: Caterpillar Inc.
 Project/Site: Mapleton Landfill

TestAmerica Job ID: 500-34266-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Chicago	ACCLASS	DoD ELAP	0	ADE-1429
TestAmerica Chicago	ACCLASS	ISO/IEC 17025	0	AT-1428
TestAmerica Chicago	Alabama	State Program	4	40461
TestAmerica Chicago	California	NELAC	9	01132CA
TestAmerica Chicago	Florida	NELAC	4	E871072
TestAmerica Chicago	Georgia	Georgia EPD	4	N/A
TestAmerica Chicago	Georgia	State Program	4	939
TestAmerica Chicago	Hawaii	State Program	9	N/A
TestAmerica Chicago	Illinois	NELAC	5	100201
TestAmerica Chicago	Indiana	State Program	5	C-IL-02
TestAmerica Chicago	Iowa	State Program	7	82
TestAmerica Chicago	Kansas	NELAC	7	E-10161
TestAmerica Chicago	Kentucky	Kentucky UST	4	66
TestAmerica Chicago	Kentucky	State Program	4	90023
TestAmerica Chicago	Louisiana	NELAC	6	30720
TestAmerica Chicago	Massachusetts	State Program	1	M-IL035
TestAmerica Chicago	Mississippi	State Program	4	N/A
TestAmerica Chicago	North Carolina	North Carolina DENR	4	291
TestAmerica Chicago	Oklahoma	State Program	6	8908
TestAmerica Chicago	South Carolina	State Program	4	77001
TestAmerica Chicago	Texas	NELAC	6	T104704252-09-TX
TestAmerica Chicago	USDA	USDA	0	P330-09-00027
TestAmerica Chicago	Wisconsin	State Program	5	999580010
TestAmerica Chicago	Wyoming	State Program	8	8TMS-Q

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)	Bill To (optional)
Contact: _____	Contact: _____
Company: _____	Company: _____
Address: _____	Address: _____
Address: _____	Address: _____
Phone: _____	Phone: _____
Fax: _____	Fax: _____
E-Mail: _____	PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-34266
Chain of Custody Number: _____
Page _____ of _____
Temperature °C of Cooler: 2.7

Client		Client Project #		Preservative		Parameter		Preservative Key	
<u>CAT MAPLETON</u>				<u>3</u>	<u>1</u>	<u>8</u>	<u>2</u>	1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHCO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		# of Containers		Matrix		Comments	
<u>LANDFILL LEACHATE SPRING 2011</u>									
Project Location/State		Lab PM		Date		Time			
<u>MAPLETON, IL</u>									
Sampler				Date		Time			
<u>ANDREW JARRICK</u>									
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix			
<u>1</u>		<u>L301</u>	<u>5/16/11</u>	<u>2:35P</u>	<u>6</u>	<u>W</u>	<u>1</u>	<u>3</u>	<u>1</u>
<u>2</u>		<u>L302</u>	<u>5/16/11</u>	<u>5:15P</u>	<u>6</u>	<u>W</u>	<u>1</u>	<u>3</u>	<u>1</u>
<u>3</u>		<u>L303R</u>	<u>5/17/11</u>	<u>1:00P</u>	<u>6</u>	<u>W</u>	<u>1</u>	<u>3</u>	<u>1</u>
<u>4</u>		<u>L304</u>	<u>5/17/11</u>	<u>11:05A</u>	<u>6</u>	<u>W</u>	<u>1</u>	<u>3</u>	<u>1</u>
<u>5</u>		<u>L305</u>	<u>5/16/11</u>	<u>3:55P</u>	<u>6</u>	<u>W</u>	<u>1</u>	<u>3</u>	<u>1</u>

Turnaround Time Required (Business Days):
 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other
 Requested Due Date: _____

Sample Disposal:
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>[Signature]</u> Company: <u>CATERPILLAR</u> Date: <u>5/17/11</u> Time: <u>2:07PM</u>	Received By: <u>[Signature]</u> Company: <u>TAL</u> Date: <u>5-17-11</u> Time: <u>14:28</u>	Lab Courier: _____
Relinquished By: <u>[Signature]</u> Company: <u>TAL</u> Date: <u>5-17-11</u> Time: <u>16:12</u>	Received By: <u>[Signature]</u> Company: <u>TAL</u> Date: <u>5/18/11</u> Time: <u>1030</u>	Shipped: <u>EX</u>
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	Hand Delivered: _____

Matrix Key

WW - Wastewater	SE - Sediment
W - Water	SO - Soil
S - Soil	L - Leachate
SL - Sludge	WI - Wipe
MS - Miscellaneous	DW - Drinking Water
OL - Oil	O - Other
A - Air	

Client Comments: _____

Lab Comments: _____

Login Sample Receipt Checklist

Client: Caterpillar Inc.

Job Number: 500-34266-1

Login Number: 34266

List Source: TestAmerica Chicago

List Number: 1

Creator: Lunt, Jeff T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	2.7
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-34638-1
Client Project/Site: Caterpillar-Mapleton 817 Landfill

For:
Conestoga-Rovers & Associates, Inc.
6520 Corporate Drive
Indianapolis, Indiana 46278

Attn: Mr. Michael Richardson

Cindy Pritchard

Authorized for release by:
06/10/2011 04:49:55 PM
Cindy Pritchard
Project Mgmt. Assistant
cindy.pritchard@testamericainc.com
Designee for
Richard Wright
Project Manager II
richard.wright@testamericainc.com

LINKS

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results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Client: Conestoga-Rovers & Associates, Inc.
Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34638-1

Job ID: 500-34638-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-34638-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

Metals

Method(s) 6010B: The following samples need to be re-digested due to LCS contamination for Fe.

No other analytical or quality issues were noted.

General Chemistry

Method(s) 300.0, 9056: The continuing calibration blank (CCB) for Ion Chromatography batch 115146 contained chloride, nitrate, and sulfate above the reporting limit (RL). The associated samples containing detects for chloride and sulfate analytes were at concentrations greater than 10X the value found in the CCB; therefore, re-analysis of the samples was not performed. The associated samples containing a detect for nitrate were either nondetects for the compound, or the detects were reported due to holding time constraints. GW-052511-TP-001 (500-34638-7), GW-052511-TP-002 (500-34638-8), GW-052511-TP-003 (500-34638-9)

Method(s) 9056: The fluoride matrix spike duplicate (MSD) recovery for sample GW-052511-TP-003 (500-34638-9) in batch 115146 was outside control limits. The matrix spike (MS) and the associated laboratory control sample (LCS) recoveries met acceptance criteria.

No other analytical or quality issues were noted.



Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34638-1

Client Sample ID: WS-052511-TP-001

Lab Sample ID: 500-34638-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	430000		10000	9400	ug/L	1		SM 2540C	Total/NA

Client Sample ID: WS-052511-TP-002

Lab Sample ID: 500-34638-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	410000		10000	9400	ug/L	1		SM 2540C	Total/NA

Client Sample ID: GW-052511-TP-001

Lab Sample ID: 500-34638-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.1	J	10	2.5	ug/L	1		6010B	Total/NA
Barium	190		10	0.84	ug/L	1		6010B	Total/NA
Cadmium	0.50	J	2.0	0.36	ug/L	1		6010B	Total/NA
Iron	11000		200	40	ug/L	1		6010B	Total/NA
Manganese	940		10	0.94	ug/L	1		6010B	Total/NA
Selenium	2.9	J B	10	2.5	ug/L	1		6010B	Total/NA
Chloride	13000	^	2000	830	ug/L	10		9056	Total/NA
Fluoride	620		200	29	ug/L	1		9056	Total/NA
Nitrate as N	110	^	100	23	ug/L	1		9056	Total/NA
Sulfate	410		200	90	ug/L	1		9056	Total/NA
Total Dissolved Solids	360000		10000	9400	ug/L	1		SM 2540C	Total/NA

Client Sample ID: GW-052511-TP-002

Lab Sample ID: 500-34638-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	93		10	0.84	ug/L	1		6010B	Total/NA
Cadmium	1.1	J	2.0	0.36	ug/L	1		6010B	Total/NA
Copper	2.0	J	10	1.4	ug/L	1		6010B	Total/NA
Iron	3800		200	40	ug/L	1		6010B	Total/NA
Manganese	460		10	0.94	ug/L	1		6010B	Total/NA
Chloride	48000	^	2000	830	ug/L	10		9056	Total/NA
Fluoride	130	J	200	29	ug/L	1		9056	Total/NA
Nitrate as N	180	^	100	23	ug/L	1		9056	Total/NA
Sulfate	180000		4000	1800	ug/L	20		9056	Total/NA
Total Dissolved Solids	850000		10000	9400	ug/L	1		SM 2540C	Total/NA

Client Sample ID: GW-052511-TP-003

Lab Sample ID: 500-34638-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	390		10	0.84	ug/L	1		6010B	Total/NA
Cadmium	0.78	J	2.0	0.36	ug/L	1		6010B	Total/NA
Chromium	5.1	J	10	1.5	ug/L	1		6010B	Total/NA
Copper	5.7	J	10	1.4	ug/L	1		6010B	Total/NA
Iron	1700		200	40	ug/L	1		6010B	Total/NA
Manganese	36		10	0.94	ug/L	1		6010B	Total/NA
Zinc	14	J	20	6.6	ug/L	1		6010B	Total/NA
Chloride	350000		20000	8300	ug/L	100		9056	Total/NA
Fluoride	1700		200	29	ug/L	1		9056	Total/NA
Sulfate	7700	^	200	90	ug/L	1		9056	Total/NA
Total Dissolved Solids	1300000		10000	9400	ug/L	1		SM 2540C	Total/NA

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34638-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL CHI
9056	Anions, Ion Chromatography	SW846	TAL CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CHI

Protocol References:

- SM = "Standard Methods For The Examination Of Water And Wastewater",
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

- TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Client: Conestoga-Rovers & Associates, Inc.
Project/Site: Caterpillar-Mapleton 817 Landfill

TestAmerica Job ID: 500-34638-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-34638-5	WS-052511-TP-001	Water	05/25/11 09:50	05/26/11 10:30
500-34638-6	WS-052511-TP-002	Water	05/25/11 10:00	05/26/11 10:30
500-34638-7	GW-052511-TP-001	Water	05/25/11 10:45	05/26/11 10:30
500-34638-8	GW-052511-TP-002	Water	05/25/11 11:35	05/26/11 10:30
500-34638-9	GW-052511-TP-003	Water	05/25/11 15:45	05/26/11 10:30

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