2008 SUPPLEMENTAL ANNUAL GROUNDWATER MONITORING REPORT

CLOSED LANDFILL
ELYRIA, OHIO

FEBRUARY 26, 2009
REF. NO. 012616 (42)

TABLE OF CONTENTS

LIST OF FIGURES
(Following Text)

LIST OF TABLES
(Following Text)

LIST OF APPENDICIES

INTRODUCTION

This report presents the 2008 Supplemental Annual Groundwater Monitoring Report for the Remediation and Liability Management Company, Inc. (REALM) Landfill (Site) in Elyria, Ohio in accordance with the Ohio Environmental Protection Agency's (Ohio EPA) Ohio Administrative Code (OAC) Rule 3745-54-75. A Site location map is presented on Figure 1.1.

During 2008, the following groundwater monitoring activities were completed:

- two rounds of groundwater levels at the Site monitoring wells and piezometers;
- first round of semi-annual groundwater sampling at the Site monitoring wells during February 2008;
- one round of confirmation groundwater sampling (conducted in April 2008) due to potential exceedances of upper tolerance limits (UTLs) during the February semi-annual sampling event;
- second round of semi-annual groundwater sampling at the Site monitoring wells during August 2008;
- one round of confirmation groundwater sampling (conducted in September 2008) due to potential exceedances of UTLs during the August semi-annual sampling event;
- two rounds of sump liquid sampling of the four primary sumps; and
- three rounds of sump liquid sampling from the four secondary sumps.

The 2008 activities were initially completed in accordance with the Revised Post-Closure Groundwater Monitoring Plan dated December 2001 (GWMP), and approved by the Ohio EPA on February 13, 2002. Starting in the Fall of 2008, the activities were completed in accordance with the Revised Post-Closure Groundwater Monitoring Plan-2007 (Revised GWMP-2007) following its approval by the Ohio EPA on October 10, 2008 and Ohio EPA's clarified approval on December 3, 2008.

Conestoga-Rovers & Associates, Inc. (CRA) performed the sampling, and TestAmerica Laboratories, Inc. performed the analytical testing.

The results of the groundwater level monitoring, groundwater quality monitoring, and sump liquid quality monitoring are presented in subsequent sections of this report.

The data collected in 2008 are being submitted electronically as Microsoft Excel (MS Excel) files, as per the 2008 generic Form and Instructions from Ohio EPA. The five MS Excel files are labeled as: Facility, Wells, Sampling, Params, GWData, and are included on the enclosed compact disc (CD) in Appendix A.

1.0 FACILITY DATABASE

The 2008 Supplemental Annual Report Form for Section 1.0 has been completed and is included in Appendix A-1.

2.0 WELL DATABASE

The 2008 Supplemental Annual Report Form for Section 2.0 has been completed and is included in Appendix A-2.

3.0 SAMPLING DATABASE

The 2008 Supplemental Annual Report Form for Section 3.0 has been completed and is included in Appendix A-3.

4.0 PARAMETER DATABASE

The 2008 Supplemental Annual Report Form for Section 4.0 has been completed and is included in Appendix A-4.

5.0 GROUNDWATER DATABASE

The 2008 Supplemental Annual Report Form for Section 5.0 has been completed and is included in Appendix A-5.

6.0 OTHER REQUIRED INFORMATION

6.1 GROUNDWATER CONTOURS

Groundwater elevations were collected on two occasions during 2008 (February 6 and August 8). Groundwater elevations were collected from monitoring wells P-2, P-2T, P-8R, P-8T, P-12, P-12TR, P-13, P-13T, P-14, P-14T, P-16, and P-16T, and piezometers P-1, P-1T, P-3R, P-3T, P-11, P-15, P-15T, P-17, P-18, P-19, P-20, and P-21. The groundwater elevations for 2008 are summarized in Table 6.1.

The groundwater elevations, contours, and generalized flow direction for the till contact, and bedrock water-bearing zones for February 2008 are presented on Figures 6.1 and 6.2,

respectively. During the February 2008 monitoring event, groundwater flow directions in the till contact and bedrock water-bearing zones beneath the landfill cell were from the west and southwest to the northeast, which is consistent with most historical groundwater flow patterns.

The groundwater elevations, contours, and generalized flow direction for the till contact and bedrock water-bearing zones for August 2008 are presented on Figures 6.3 and 6.4, respectively. During the August 2008 monitoring event, groundwater flow directions in the till contact and bedrock water-bearing zones beneath the landfill cell were from the west and southwest to the northeast, which is consistent with most historical groundwater flow patterns.

6.2 GROUNDWATER FLOW

Groundwater flow velocity was calculated based on the February and August 2008 water level measurements using an average hydraulic conductivity of 4.1×10^{-4} centimeters per second (cm/sec), and 1.9×10^{-4} cm/sec (CRA, 2002 Supplemental Annual Report) for till contact and bedrock water-bearing zones, respectively. The groundwater flow velocity beneath the landfill in the till contact zone was calculated to be at a rate of 36.7 feet per year and in the bedrock water-bearing zone was calculated to be at a rate of 14.5 feet per year as detailed in Appendix B.

6.3 GROUNDWATER QUALITY SAMPLING

The groundwater samples were collected using a low flow sampling method in accordance with the GWMP. All groundwater samples were analyzed for total and dissolved metals (barium, calcium, chromium, iron, magnesium, manganese, nickel, potassium, and sodium), chloride, sulfate, and total cyanide. Additionally, the August 2008 samples were analyzed for the monitoring parameters copper, total dissolved solids (TDS), and total suspended solids (TSS). Specific conductance, pH, temperature, turbidity, dissolved oxygen and oxygen reduction potential were measured in the field prior to sampling.

There were no exceedances of the current MCLs (which exist for barium, chromium and total cyanide) in any of the groundwater samples collected in 2008.

6.3.1 FEBRUARY 2008 SEMI-ANNUAL MONITORING EVENT

Groundwater samples were collected on February 6 and 7, 2008. During the February 2008 semi-annual monitoring event, groundwater samples were collected from monitoring wells P-2, P-2T, P-8R, P-8T, P-12, P-12TR, P-13, P-13T, P-14, P-14T, P-16, and P-16T. One duplicate sample from monitoring well P-14T and a matrix spike/matrix spike duplicate sample from monitoring well P-12 were collected and analyzed for quality control purposes. The well purge forms for the February 2008 event are presented in Appendix C-1. The laboratory analytical report and chains-of-custody are presented in Appendix D-1. The associated data quality assessment and validation memorandum are presented in Appendix E-1. The validated analytical results are summarized in Table 6.2.

Confirmation groundwater samples were collected on April 1 and 2, 2008 due to potential UTL exceedances for certain wells and parameters identified in the February 2008 samples. The procedures for UTL determination and statistical analysis of the monitoring data are provided in the GWMP. During the April 2008 confirmation monitoring, groundwater samples were collected from monitoring wells P-2, P-2T, P-8R, P-8T, P-13, P-13T, P-16, and P-16T. One duplicate sample from monitoring well P-13T was collected and analyzed for quality control purposes. The well purge forms for the April 2008 supplemental event are presented in Appendix C-2. The laboratory analytical report and chains-of-custody are presented in Appendix D-2. The associated data quality assessment and validation memorandum is presented in Appendix E-2. The validated analytical results are summarized in Table 6.2. Confirmation of potential exceedances of UTLs were provided to the Ohio EPA in a letter dated May 5, 2008.

6.3.2 AUGUST 2008 SEMI-ANNUAL MONITORING EVENT

Groundwater samples were collected on August 8 and 9, 2008. During the August 2008 semi-annual monitoring, groundwater samples were collected from monitoring wells P-2, P-2T, P-8R, P-8T, P-12, P-12TR, P-13, P-13T, P-14, P-14T, P-16, and P-16T. One duplicate sample from monitoring well P-8R was collected and analyzed for quality control purposes. The well purge forms for the August 2008 event are presented in Appendix C-3. The laboratory analytical report and chains-of-custody are presented in Appendix D-3. The associated data quality assessment and validation memorandum is presented in Appendix E-3. The validated analytical results are summarized in Table 6.2.

Confirmation groundwater samples were collected on September 22 and 23, 2008 due to potential UTL exceedances for certain wells and parameters identified in the

August 2008 samples. The procedures for UTL determination and statistical analysis of the monitoring data are provided in the GWMP. During the September 2008 confirmation monitoring, groundwater samples were collected from monitoring wells P-2, P-2T, P-8R, P-8T, P-13, P-13T, P-16, and P-16T. One duplicate sample from monitoring well P-2 was collected and analyzed for quality control purposes. The well purge forms for the September 2008 supplemental event are presented in Appendix C-4. The laboratory analytical report and chains-of-custody are presented in Appendix D-4. The associated data quality assessment and validation memorandum is presented in Appendix E-4. The validated analytical results are summarized in Table 6.2. Confirmation samples were collected prior to the approval of the Revised GWMP-2007. The Revised GWMP-2007 was approved by Ohio EPA on October 10, 2008 and Ohio EPA's clarified approval was provided on December 3, 2008. The comparisons of groundwater results to UTLs under the former GWMP have been replaced by comparisons of groundwater results to MCLs for screening purposes under the Revised GWMP-2007. There were no exceedances of the current MCLs (which exist for barium, chromium and total cyanide) in any of the groundwater samples collected in 2008.

6.4 PRIMARY SUMP LIQUID QUALITY SAMPLING

The primary sump liquid samples were collected using a peristaltic pump in February and August 2008. The samples were analyzed for total and dissolved metals (barium, calcium, chromium, iron, magnesium, manganese, nickel, potassium, and sodium), chloride, sulfate, and total cyanide. Additionally, the August 2008 samples were analyzed for the annual monitoring parameters, copper, TDS and TSS.

6.4.1 FEBRUARY 2008 MONITORING EVENT

Primary sump liquid samples were collected on February 7 and 8, 2008. During the February 2008 monitoring event, sump liquid samples were collected from the northeast primary sump, northwest primary sump, southeast primary sump, and southwest primary sump. The laboratory analytical report and chain-of-custody are presented in Appendix D-1. The data quality assessment and validation memorandum is presented in Appendix E-1. The validated analytical results are summarized in Table 6.3.

6.4.2 AUGUST 2008 MONITORING EVENT

Primary sump liquid samples were collected on August 9 and 10, 2008. During the August 2008 monitoring event, sump liquid samples were collected from the northeast

primary sump, northwest primary sump, southeast primary sump, and southwest primary sump. One matrix spike/matrix spike duplicate sample from the northwest primary sump was collected and analyzed for quality control purposes. The laboratory analytical report and chain-of-custody are presented in Appendix D-3. The data quality assessment and validation memorandum is presented in Appendix E-3. The validated analytical results are summarized in Table 6.3.

6.5 SECONDARY SUMP LIQUID QUALITY SAMPLING

The secondary sump liquid samples were collected using a peristaltic pump in February, May, and August 2008. In accordance with the Revised GWMP-2007 the December 2008 monitoring event is no longer required. The samples were analyzed for total and dissolved metals (barium, calcium, chromium, iron, magnesium, manganese, nickel, potassium, and sodium), chloride, sulfate, and total cyanide. Additionally, the August 2008 samples were analyzed for the monitoring parameters, copper, TDS, and TSS.

6.5.1 FEBRUARY 2008 MONITORING EVENT

Secondary sump liquid samples were collected on February 8, 2008. During the February 2008 monitoring event, sump liquid samples were collected from the northeast secondary sump, northwest secondary sump, southeast secondary sump, and southwest secondary sump. The laboratory analytical report and chain-of-custody are presented in Appendix D-1. The data quality assessment and validation memorandum is presented in Appendix E-1. The validated analytical results are summarized in Table 6.4.

6.5.2 MAY 2008 MONITORING EVENT

Secondary sump liquid samples were collected on May 8, 2008. During the May 2008 monitoring event, sump liquid samples were collected from the northeast secondary sump, northwest secondary sump, southeast secondary sump, and southwest secondary sump. One duplicate sample from the northwest secondary sump was collected and analyzed for quality control purposes. The laboratory analytical report and chain-of-custody are presented in Appendix D-5. The data quality assessment and validation memorandum is presented in Appendix E-5. The validated analytical results are summarized in Table 6.4.

6.5.3 AUGUST 2008 MONITORING EVENT

Secondary sump liquid samples were collected on August 10, 2008. During the August 2008 monitoring event, sump liquid samples were collected from the northeast secondary sump, northwest secondary sump, southeast secondary sump, and southwest secondary sump. The laboratory analytical report and chain-of-custody are presented in Appendix D-3. The data quality assessment and validation memorandum is presented in Appendix E-3. The validated analytical results are summarized in Table 6.4.

7.0 STATISTICAL EVALUATION

Groundwater elevations in February and August 2008 are contoured on Figures 6.1 through 6.4, according to the requirements of the GWMP. As discussed in Section 6.2 of the 2003 Supplemental Annual Groundwater Monitoring Report, groundwater flow directions at the Site are inconsistent. Therefore, true background does not appear to be available for typical statistical analysis. A classic statistical evaluation of the Site monitoring wells based on an interwell comparison of downgradient to upgradient wells is inappropriate, based on the current understanding of Site conditions and difficulty in determining Site background groundwater quality.

Although the current understanding of the Site indicates that true background does not appear to be available for typical statistical analysis, statistical analyses were still performed in accordance with the GWMP. Two statistical analyses were performed, one on the February 2008 semi-annual round (including the April 2008 confirmation round) of groundwater quality data and the other on the August 2008 semi-annual round (including the September 2008 confirmation round) of groundwater quality data, in accordance with the GWMP and a letter from Ohio EPA dated August 7, 2003. The results of the February (including April) 2008 analyses were presented to Ohio EPA in a letter dated May 5, 2008. Table 7.1 identifies the locations and parameters with potential exceedances identified in that letter. Supplemental sampling was not performed, as detailed in a REALM letter dated May 25, 2004.

The Revised GWMP-2007 was approved by Ohio EPA on October 10, 2008 and Ohio EPA's clarified approval was provided on December 3, 2008. Therefore, the comparisons of groundwater results to UTLs under the former GWMP have been replaced by comparisons of groundwater results to MCLs for screening purposes under the Revised GWMP-2007. There were no exceedances of the current MCLs (which exist for barium, chromium and total cyanide) in any of the groundwater samples collected in 2008.

8.0 COMPLIANCE GROUNDWATER MONITORING

Compliance groundwater monitoring is not required because the Site is currently being monitored under a Detection Monitoring Program in accordance with the approved GWMP, and more recently, under the approved Revised GWMP-2007.

9.0 CORRECTIVE ACTION GROUNDWATER MONITORING

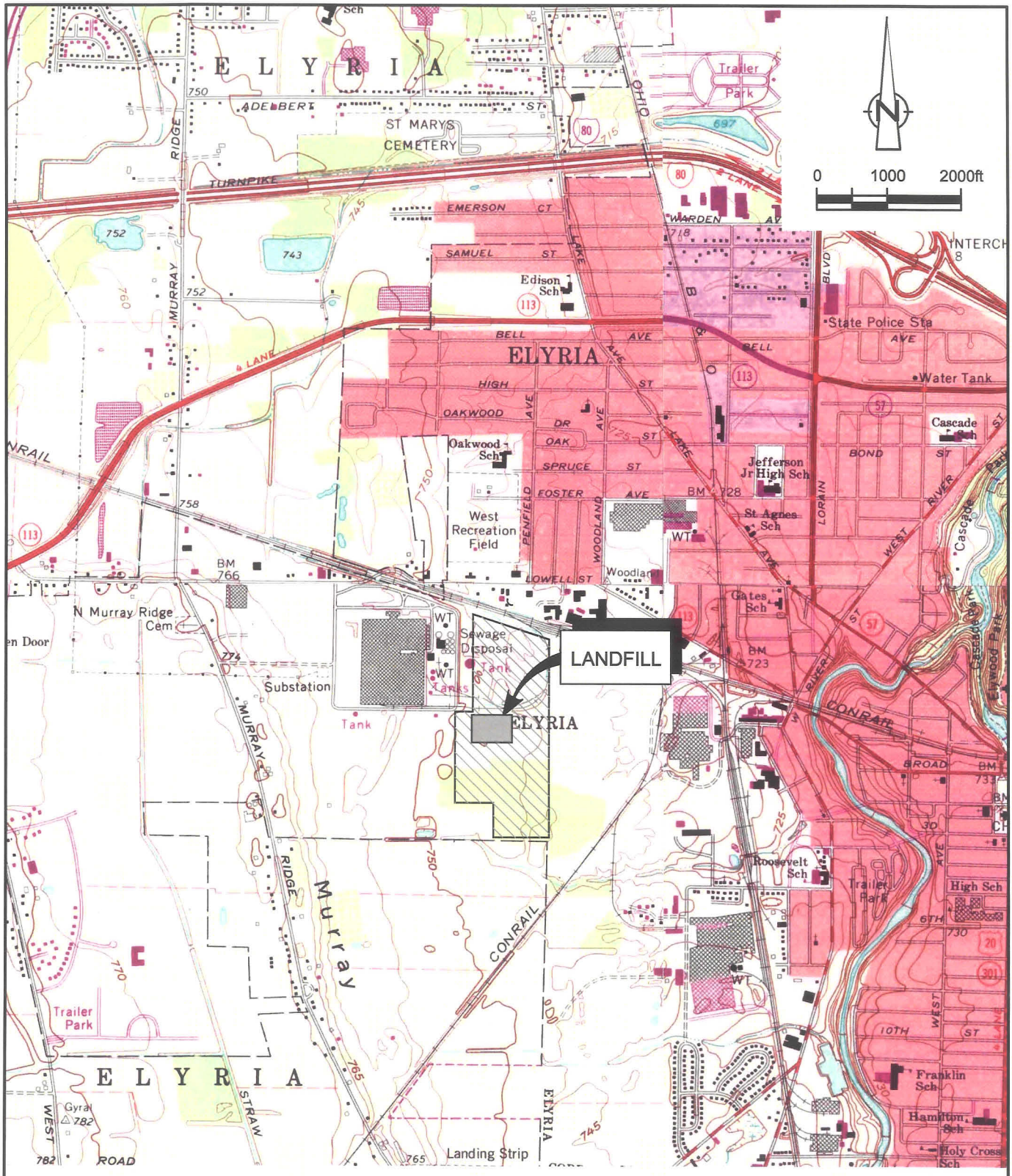
Corrective action groundwater monitoring is not required because there were no corrective action measures taken at this Site in the year 2008.

DECLARATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

_____

Andrew LaVine
CRA (Consultant for REALM)



SOURCE: USGS QUADRANGLE MAPS;
AVON, GRAFTON, LORAIN & OBERLIN, OHIO

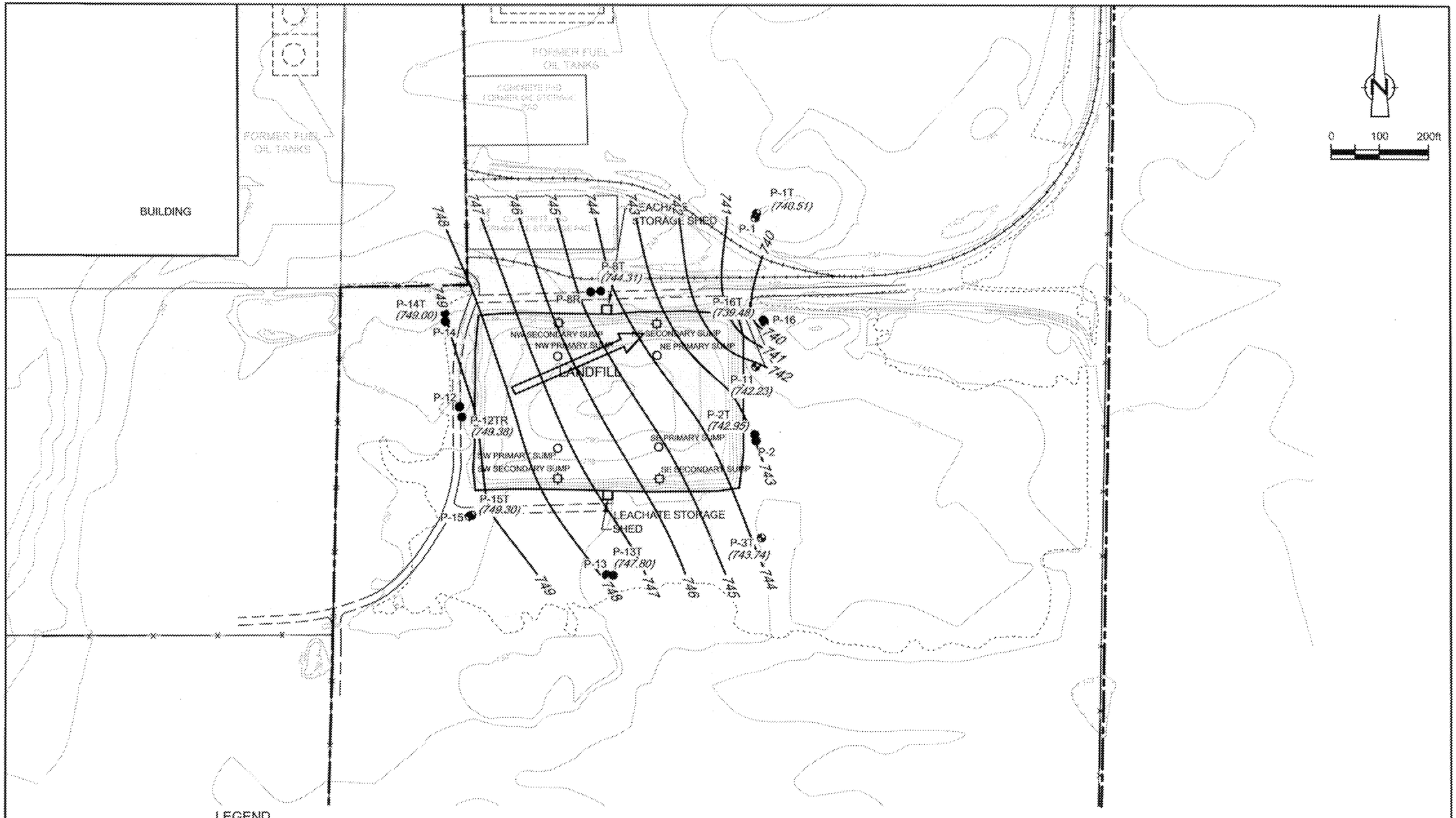
LEGEND

REALM PROPERTY

figure 1.1

SITE LOCATION
CLOSED LANDFILL
REALM, INC.
Elyria, Ohio

12616-71(042)GN-WA005 JAN 30/2009



LEGEND

- PROPERTY BOUNDARY
- FENCE
- RAILROAD TRACKS
- GRAVEL
- DENSE VEGETATION
- CONTOUR
- DITCH
- PIEZOMETER LOCATION
- MONITORING WELL LOCATION
- (749.30) GROUNDWATER ELEVATION (ft. AMSL)
- 744 GROUNDWATER CONTOUR
- GENERALIZED GROUNDWATER FLOW DIRECTION

figure 6.1

TILL CONTACT GROUNDWATER ELEVATIONS - FEBRUARY 6, 2008
CLOSED LANDFILL
REALM, INC.
Elyria, Ohio

12516-71(042)GN-WA003 FEB 02/2008

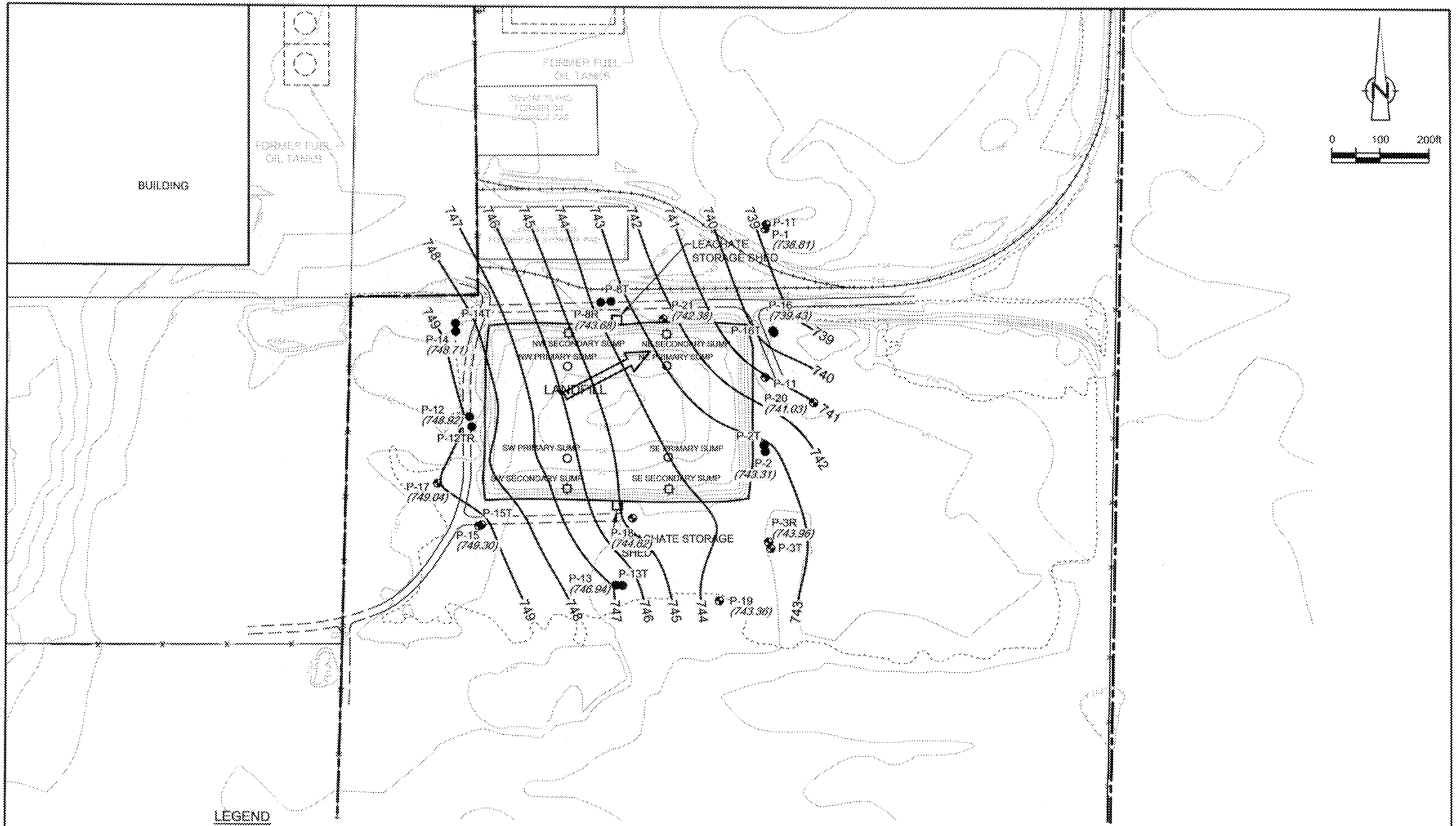


figure 6.2

BEDROCK GROUNDWATER ELEVATIONS - FEBRUARY 6, 2008
CLOSED LANDFILL
REALM, INC.
Elyria, Ohio

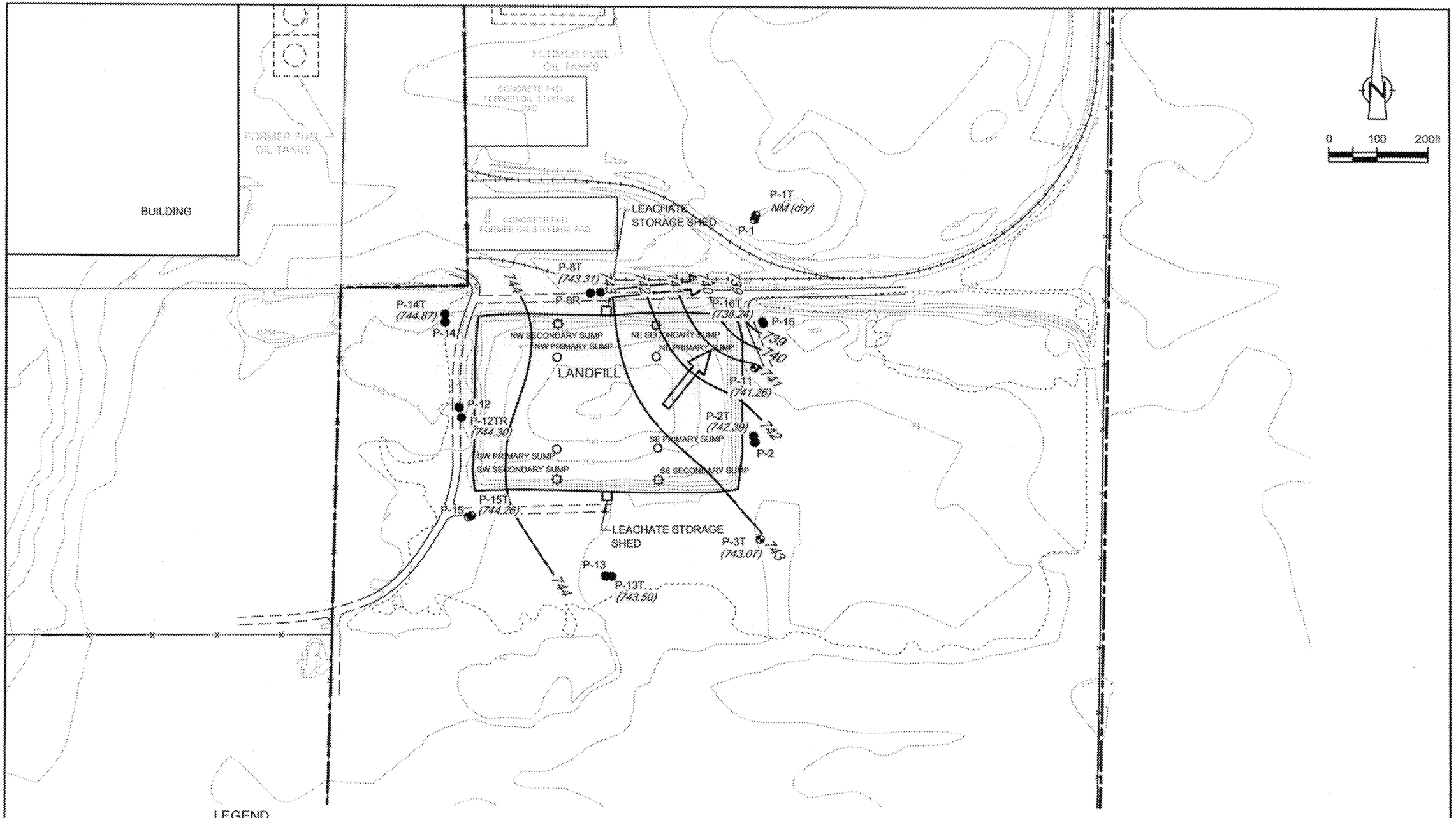


figure 6.3

TILL CONTACT GROUNDWATER ELEVATIONS - AUGUST 8, 2008
CLOSED LANDFILL
REALM, INC.
Elyria, Ohio

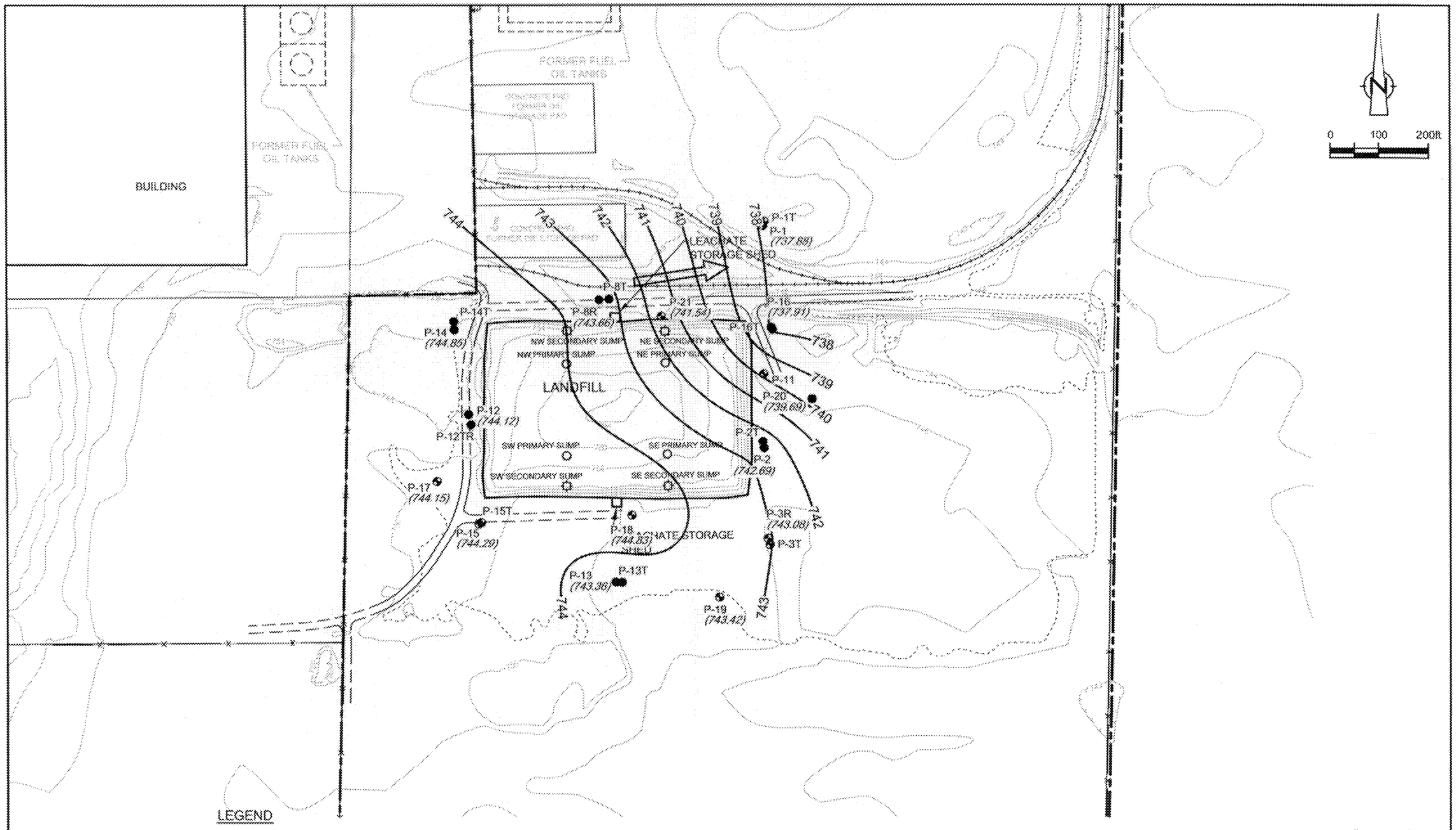


figure 6.4

BEDROCK GROUNDWATER ELEVATIONS - AUGUST 8, 2008
CLOSED LANDFILL
REALM, INC.
Elyria, Ohio

12616-71(042)GN-WA002 JAN 30/2009

TABLE 6.1

SUMMARY OF MONITORING WELL COMPLETION DETAILS AND GROUNDWATER ELEVATIONS - 2008
CLOSED LANDFILL
ELYRIA, OHIO

Location	*Status*	*Unit*	*Reference Elevation (feet AMSL)*	*Ground Surface Elevation (feet AMSL)*	*Well Depth (feet btor) (1)*	*Bottom of Screen (feet AMSL)*	*Groundwater Level*	
							February 6, 2008 (feet AMSL)	*August 8, 2008 (feet AMSL)*
P-1	Piezometer	Bedrock	749.57	748.5	21.97	728.5	738.81	737.88
P-1T	Piezometer	Contact	750.44	748 (est.)	-- (2)	738.0 (est.)	740.51	Dry (<738.0)
P-2	Monitoring Well	Bedrock	748.87	747.1	22.54	726.3	743.56	742.69
P-2T	Monitoring Well	Contact	749.80	747.5	15.14	734.6	743.55	742.39
P-3R	Piezometer	Bedrock	748.87	746.5	21.40	727.5	743.96	743.08
P-3T	Piezometer	Contact	748.77	746.6	12.66	736.6	743.74	743.07
P-8R	Monitoring Well	Bedrock	751.09	748.6	22.41	728.6	743.68	743.66
P-8T	Monitoring Well	Contact	751.13	748 (est.)	12.40	738.0 (est.)	744.31	743.31
P-11	Piezometer	Contact	749.52	747 (est.)	15.13	734.0 (est.)	742.23	741.26
P-12	Monitoring Well	Bedrock	751.83	750 (est.)	22.45	730.0 (est.)	748.92	744.12
P-12TR	Monitoring Well	Contact	752.22	749.8	13.94	738.3	749.38	744.30
P-13	Monitoring Well	Bedrock	750.94	748.5	19.40	731.4	747.23	743.36
P-13T	Monitoring Well	Contact	750.83	748.6	10.53	740.1	747.95	743.50
P-14	Monitoring Well	Bedrock	751.64	749.3	22.15	729.3	748.71	744.85
P-14T	Monitoring Well	Contact	751.68	749.4	14.30	737.4	749.00	744.87
P-15	Piezometer	Bedrock	753.73	751.3	24.11	729.3	749.30	744.29
P-15T	Piezometer	Contact	753.59	751.2	15.88	737.7	749.30	744.26
P-16	Monitoring Well	Bedrock	747.62	745.0	20.22	727.0	739.43	737.91
P-16T	Monitoring Well	Contact	747.40	745.0	12.05	735.0	739.48	738.24
P-17	Piezometer	Bedrock	754.96	752.2	25.20	730.2	749.04	744.15
P-18	Piezometer	Bedrock	751.35	748.5	31.11	720.3	744.62	744.83
P-19	Piezometer	Bedrock	750.24	747.6	20.98	729.8	743.36	743.42
P-20	Piezometer	Bedrock	748.94	746.0	20.68	728.0	741.03	739.69
P-21	Piezometer	Bedrock	751.35	748.4	23.90	727.4	742.38	741.54

Notes:

feet AMSL	feet Above Mean Sea Level
feet btor	feet below top of riser
est.	estimated
(1)	Measured September 22, 2008
(2)	Not measured (wasps present).

TABLE 6.2

SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES - 2008
CLOSED LANDFILL
ELYRIA, OHIO

Sample Location:		*P-02*	*P-02*	*P-02*	*P-02*	*P-02*	*P-02T*	*P-02T*
Sample ID:		*WG-12616-020708-DN-05*	*WG-12616-040208-DN-06*	*WG-12616-080908-DN-06*	*WG-12616-092308-DN-06*	*WG-12616-092308-DN-07*	*WG-12616-020708-DN-06*	*WG-12616-040108-DN-05*
Sample Date:		*2/7/2008*	*4/2/2008*	*8/9/2008*	*9/23/2008*	*9/23/2008 (Duplicate)*	*2/7/2008*	*4/1/2008*
Parameters:	*Units*							
Metals								
Barium	mg/L	0.049 J	-	0.045 J	-	-	0.020 J	-
Barium (Dissolved)	mg/L	0.049 J	-	0.048 J	-	-	0.019 J	-
Calcium	mg/L	120	-	104	-	-	249	-
Calcium (Dissolved)	mg/L	121	-	110	-	-	250	228
Chromium Total	mg/L	0.010 U	-	0.010 U	-	-	0.010 U	-
Chromium Total (Dissolved)	mg/L	0.010 U	-	0.010 U	-	-	0.010 U	-
Copper	mg/L	-	-	0.025 U	-	-	-	-
Copper (Dissolved)	mg/L	-	-	0.025 U	-	-	-	-
Iron	mg/L	0.20	-	0.21	-	-	0.72	-
Iron (Dissolved)	mg/L	0.12	-	0.19	-	-	0.13	-
Magnesium	mg/L	43.5	-	36.5	-	-	104	-
Magnesium (Dissolved)	mg/L	44.4	46.7	38.7	36.7	35.6	105	98.5
Manganese	mg/L	0.28	-	0.34	-	-	0.15	-
Manganese (Dissolved)	mg/L	0.25	-	0.36	-	-	0.12	-
Nickel	mg/L	0.0062 J	-	0.0070 J	-	-	0.0087 J	-
Nickel (Dissolved)	mg/L	0.0062 J	-	0.0053 J	-	-	0.0084 J	-
Potassium	mg/L	4.4 J	-	4.9 J	-	-	1.1 J	-
Potassium (Dissolved)	mg/L	4.3 J	-	5.4	5.1	4.7 J	1.2 J	-
Sodium	mg/L	105	-	107	-	-	48.5	-
Sodium (Dissolved)	mg/L	103	-	112	-	-	48.8	-
General Chemistry								
Chloride	mg/L	29.3	-	30.9	-	-	101	107
Cyanide (total)	mg/L	0.010 U	-	0.010 U	-	-	0.010 U	-
Sulfate	mg/L	284	-	225	-	-	660	716
Total Dissolved Solids (TDS)	mg/L	-	-	790	-	-	-	-
Total Suspended Solids (TSS)	mg/L	-	-	3.0 J	-	-	-	-

Notes:

J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
-- Not analyzed.

TABLE 6.2

SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES - 2008
CLOSED LANDFILL
ELYRIA, OHIO

Sample Location:		*P-02T*	*P-02T*	*P-08R*	*P-08R*	*P-08R*	*P-08R*	*P-08R*
Sample ID:		*WG-12616-080908-DN-07*	*WG-12616-092308-DN-05*	*WG-12616-020608-DN-02*	*WG-12616-040108-DN-01*	*WG-12616-080808-DN-03*	*WG-12616-080808-DN-04*	*WG-12616-092208-DN-01*
Sample Date:		*8/9/2008*	*9/23/2008*	*2/6/2008*	*4/1/2008*	*8/8/2008*	*8/8/2008 (Duplicate)*	*9/22/2008*
Parameters:	*Units*							
Metals								
Barium	mg/L	0.021 J	-	0.082 J	-	0.084 J	0.083 J	-
Barium (Dissolved)	mg/L	0.021 J	-	0.088 J	0.088 J	0.083 J	0.083 J	0.087 J
Calcium	mg/L	244	-	89.8	-	91.8	90.6	-
Calcium (Dissolved)	mg/L	236	224	96.5	-	91.2	92.3	-
Chromium Total	mg/L	0.010 U	-	0.010 U	-	0.010 U	0.010 U	-
Chromium Total (Dissolved)	mg/L	0.010 U	-	0.010 U	-	0.010 U	0.010 U	-
Copper	mg/L	0.025 U	-	-	-	0.025 U	0.025 U	-
Copper (Dissolved)	mg/L	0.025 U	-	-	-	0.025 U	0.025 U	-
Iron	mg/L	0.36	-	0.16	-	0.13	0.10	-
Iron (Dissolved)	mg/L	0.28	-	0.13	-	0.13	0.11	-
Magnesium	mg/L	101	-	19.6	-	19.4	19.1	-
Magnesium (Dissolved)	mg/L	98.6	90.7	21.1	-	19.2	19.5	-
Manganese	mg/L	0.42	-	0.044	-	0.042	0.041	-
Manganese (Dissolved)	mg/L	0.39	-	0.046	-	0.041	0.043	-
Nickel	mg/L	0.0086 J	-	0.0094 J	-	0.010 J	0.0089 J	-
Nickel (Dissolved)	mg/L	0.012 J	-	0.011 J	-	0.010 J	0.012 J	-
Potassium	mg/L	1.4 J	-	3.3 J	-	4.2 J	4.1 J	-
Potassium (Dissolved)	mg/L	1.4 J	-	3.7 J	-	4.3 J	4.0 J	-
Sodium	mg/L	46.5	-	174	-	180	177	-
Sodium (Dissolved)	mg/L	45.4	-	183	191	179	174	176
General Chemistry								
Chloride	mg/L	101	123	162	175	169	170	174
Cyanide (total)	mg/L	0.010 U	-	0.010 U	-	0.010 U	0.010 U	-
Sulfate	mg/L	679	680	43.8	-	34.3	35.9	-
Total Dissolved Solids (TDS)	mg/L	1400	-	-	-	820	800	-
Total Suspended Solids (TSS)	mg/L	3.0 J	-	-	-	4.0 U	4.0 U	-

Notes:

J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
-- Not analyzed.

TABLE 6.2

SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES - 2008
CLOSED LANDFILL
ELYRIA, OHIO

Sample Location:		*P-08T*	*P-08T*	*P-08T*	*P-08T*	*P-12*	*P-12*
Sample ID:		*WG-12616-020608-DN-01*	*WG-12616-040108-DN-02*	*WG-12616-080808-DN-05*	*WG-12616-092208-DN-02*	*WG-12616-020708-DN-09*	*WG-12616-080908-DN-12*
Sample Date:		*2/6/2008*	*4/1/2008*	*8/8/2008*	*9/22/2008*	*2/7/2008*	*8/9/2008*
Parameters:	*Units*						
Metals							
Barium	mg/L	0.037 J	-	0.054 J	-	0.030 J	0.024 J
Barium (Dissolved)	mg/L	0.039 J	-	0.057 J	-	0.033 J	0.029 J
Calcium	mg/L	74.8	-	121	-	61.0	51.8
Calcium (Dissolved)	mg/L	76.1	-	127	-	66.9	58.3
Chromium Total	mg/L	0.010 U	-	0.010 U	-	0.010 U	0.010 U
Chromium Total (Dissolved)	mg/L	0.010 U	-	0.010 U	-	0.010 U	0.010 U
Copper	mg/L	-	-	0.025 U	-	-	0.025 U
Copper (Dissolved)	mg/L	-	-	0.025 U	-	-	0.025 U
Iron	mg/L	0.12	-	0.16	-	0.086 J	0.37
Iron (Dissolved)	mg/L	0.10 U	-	0.12	-	0.099 J	0.36
Magnesium	mg/L	36.1	-	38.3	-	16.1	13.6
Magnesium (Dissolved)	mg/L	34.9	-	39.9	-	17.7	15.2
Manganese	mg/L	0.035	-	0.24	-	0.021 J	0.20
Manganese (Dissolved)	mg/L	0.024	-	0.24	-	0.041 J	0.17
Nickel	mg/L	0.0033 J	-	0.031 J	-	0.040 U	0.040 U
Nickel (Dissolved)	mg/L	0.040 U	-	0.034 J	-	0.040 U	0.040 U
Potassium	mg/L	8.5	-	11.0	-	3.8 J	4.9 J
Potassium (Dissolved)	mg/L	8.5	9.8	11.9	14.5	3.6 J	4.6 J
Sodium	mg/L	10.4 J	-	63.9	-	115	126
Sodium (Dissolved)	mg/L	19.0 J	-	67.2	31.0	104	115
General Chemistry							
Chloride	mg/L	15.4	-	57.3	-	19.4	19.1
Cyanide (total)	mg/L	0.010 U	-	0.010 U	-	0.010 U	0.010 U
Sulfate	mg/L	126	-	160	-	85.3	79.0
Total Dissolved Solids (TDS)	mg/L	-	-	740	-	-	540
Total Suspended Solids (TSS)	mg/L	-	-	4.0 U	-	-	4.0 U

Notes:

J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.

TABLE 6.2

SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES - 2008
CLOSED LANDFILL
ELYRIA, OHIO

Sample Location:		*P-12TR*	*P-12TR*	*P-13*	*P-13*	*P-13*	*P-13*
Sample ID:		*WG-12616-020708-DN-10*	*WG-12616-080908-DN-13*	*WG-12616-020708-DN-07*	*WG-12616-040208-DN-08*	*WG-12616-080908-DN-08*	*WG-12616-092308-DN-08*
Sample Date:		*2/7/2008*	*8/9/2008*	*2/7/2008*	*4/2/2008*	*8/9/2008*	*9/23/2008*
Parameters:	*Units*						
Metals							
Barium	mg/L	0.067 J	0.072 J	0.021 J	-	0.019 J	-
Barium (Dissolved)	mg/L	0.064 J	0.072 J	0.018 J	-	0.018 J	-
Calcium	mg/L	134	127	157	-	146	-
Calcium (Dissolved)	mg/L	125	126	149	149	142	142
Chromium Total	mg/L	0.010 U	0.010 U	0.010 U	-	0.010 U	-
Chromium Total (Dissolved)	mg/L	0.010 U	0.010 U	0.010 U	-	0.010 U	-
Copper	mg/L	-	0.025 U	-	-	0.025 U	-
Copper (Dissolved)	mg/L	-	0.025 U	-	-	0.025 U	-
Iron	mg/L	0.59	0.13	3.3	-	1.4	-
Iron (Dissolved)	mg/L	0.26	0.11	1.5	-	1.3	-
Magnesium	mg/L	35.4	32.8	31.6	-	28.8	-
Magnesium (Dissolved)	mg/L	32.6	34.0	30.9	-	27.8	-
Manganese	mg/L	0.030	0.11	0.24	-	0.22	-
Manganese (Dissolved)	mg/L	0.024	0.082	0.22	-	0.20	-
Nickel	mg/L	0.0036 J	0.040 U	0.046	-	0.040	-
Nickel (Dissolved)	mg/L	0.040 U	0.0035 J	0.042	0.044	0.039 J	-
Potassium	mg/L	2.1 J	2.9 J	2.2 J	-	3.0 J	-
Potassium (Dissolved)	mg/L	2.1 J	3.0 J	2.5 J	-	3.0 J	-
Sodium	mg/L	50.4	48.7	41.1	-	38.0	-
Sodium (Dissolved)	mg/L	51.3	52.5	38.3	-	36.9	-
General Chemistry							
Chloride	mg/L	10.5	9.9	23.4	-	23.3	-
Cyanide (total)	mg/L	0.010 U	0.010 U	0.010 U	-	0.010 U	-
Sulfate	mg/L	151	110	126	-	117	-
Total Dissolved Solids (TDS)	mg/L	-	610	-	-	680	-
Total Suspended Solids (TSS)	mg/L	-	4.0 U	-	-	3.0 J	-

Notes:

J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.

TABLE 6.2

SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES - 2008
CLOSED LANDFILL
ELYRIA, OHIO

Sample Location:		*P-13T*	*P-13T*	*P-13T*	*P-13T*	*P-13T*	*P-14*
Sample ID:		*WG-12616-020708-DN-08*	*WG-12616-040208-DN-07*	*WG-12616-040208-DN-09*	*WG-12616-080908-DN-09*	*WG-12616-092308-DN-09*	*WG-12616-020708-DN-11*
Sample Date:		*2/7/2008*	*4/2/2008*	*4/2/2008 (Duplicate)*	*8/9/2008*	*9/23/2008*	*2/7/2008*
Parameters:	*Units*						
Metals							
Barium	mg/L	0.035 J	-	-	0.033 J	-	0.067 J
Barium (Dissolved)	mg/L	0.024 J	-	-	0.018 J	-	0.058 J
Calcium	mg/L	142	-	-	181	-	118
Calcium (Dissolved)	mg/L	169	173	172	143	-	117
Chromium Total	mg/L	0.012	-	-	0.0032 J	-	0.010 U
Chromium Total (Dissolved)	mg/L	0.010 U	-	-	0.010 U	-	0.010 U
Copper	mg/L	-	-	-	0.025 U	-	-
Copper (Dissolved)	mg/L	-	-	-	0.025 U	-	-
Iron	mg/L	4.7	-	-	5.5	-	7.4
Iron (Dissolved)	mg/L	0.53	-	-	1.3	1.5	1.7
Magnesium	mg/L	45.3	-	-	54.0	-	26.6
Magnesium (Dissolved)	mg/L	48.7	55.8	55.4	28.0	-	26.5
Manganese	mg/L	0.28	-	-	0.82	-	0.14
Manganese (Dissolved)	mg/L	0.22	-	-	0.20	-	0.14
Nickel	mg/L	0.028 J	-	-	0.029 J	-	0.040 U
Nickel (Dissolved)	mg/L	0.034 J	-	-	0.040	-	0.040 U
Potassium	mg/L	9.1	-	-	14.1	-	1.2 J
Potassium (Dissolved)	mg/L	8.2	11.9	11.9	2.9 J	-	1.2 J
Sodium	mg/L	23.2 J	-	-	30.3	-	8.2
Sodium (Dissolved)	mg/L	32.6 J	-	-	36.8	-	7.9
General Chemistry							
Chloride	mg/L	18.7	-	-	22.8	-	7.9
Cyanide (total)	mg/L	0.010 U	-	-	0.010 U	-	0.076
Sulfate	mg/L	377	379	377	215	-	65.7
Total Dissolved Solids (TDS)	mg/L	-	-	-	750	-	-
Total Suspended Solids (TSS)	mg/L	-	-	-	530	-	-

Notes:

J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.

TABLE 6.2

SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES - 2008
CLOSED LANDFILL
ELYRIA, OHIO

Sample Location:		*P-14*	*P-14T*	*P-14T*	*P-14T*	*P-16*	*P-16*
Sample ID:		*WG-12616-080908-DN-10*	*WG-12616-020708-DN-12*	*WG-12616-020708-DN-13*	*WG-12616-080908-DN-11*	*WG-12616-020608-DN-03*	*WG-12616-040108-DN-03*
Sample Date:		*8/9/2008*	*2/7/2008*	*2/7/2008 (Duplicate)*	*8/9/2008*	*2/6/2008*	*4/1/2008*
Parameters:	*Units*						
Metals							
Barium	mg/L	0.064 J	0.027 J	0.026 J	0.025 J	0.049 J	-
Barium (Dissolved)	mg/L	0.063 J	0.022 J	0.023 J	0.020 J	0.047 J	-
Calcium	mg/L	117	115	117	113	224	-
Calcium (Dissolved)	mg/L	118	114	118	108	229	226
Chromium Total	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	-
Chromium Total (Dissolved)	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	-
Copper	mg/L	0.025 U	-	-	0.025 U	-	-
Copper (Dissolved)	mg/L	0.025 U	-	-	0.025 U	-	-
Iron	mg/L	4.1	0.16	0.098 J	0.23	4.7	-
Iron (Dissolved)	mg/L	1.8	0.10 U	0.10 U	0.10 U	0.99	-
Magnesium	mg/L	26.3	22.4	23.2	22.2	71.1	-
Magnesium (Dissolved)	mg/L	26.8	22.9	23.8	20.9	72.9	73.4
Manganese	mg/L	0.15	1.1	0.83	1.5	0.22	-
Manganese (Dissolved)	mg/L	0.15	0.10	0.13	0.54	0.21	-
Nickel	mg/L	0.040 U	0.040 U	0.040 U	0.040 U	0.13	-
Nickel (Dissolved)	mg/L	0.040 U	0.040 U	0.040 U	0.040 U	0.14	0.11
Potassium	mg/L	1.5 J	1.0 J	1.0 J	1.5 J	2.0 J	-
Potassium (Dissolved)	mg/L	1.5 J	1.1 J	1.0 J	1.6 J	2.2 J	-
Sodium	mg/L	9.1	15.4	14.8	13.9	65.1	-
Sodium (Dissolved)	mg/L	9.5	14.1	15.1	15.4	67.3	-
General Chemistry							
Chloride	mg/L	6.0	3.0	3.1	3.0	60.6	53.7
Cyanide (total)	mg/L	0.010 U	0.010 UJ	0.089 J	0.010 U	0.010 U	-
Sulfate	mg/L	64.5	47.1	47.4	47.1	548	604
Total Dissolved Solids (TDS)	mg/L	480	-	-	440	-	-
Total Suspended Solids (TSS)	mg/L	5.0	-	-	6.0	-	-

Notes:

J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.

TABLE 6.2

SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES - 2008
CLOSED LANDFILL
ELYRIA, OHIO

Sample Location:		*P-16*	*P-16*	*P-16T*	*P-16T*	*P-16T*	*P-16T*
Sample ID:		*WG-12616-080808-DN-01*	*WG-12616-092208-DN-04*	*WG-12616-020608-DN-04*	*WG-12616-040108-DN-04*	*WG-12616-080808-DN-02*	*WG-12616-092208-DN-03*
Sample Date:		*8/8/2008*	*9/22/2008*	*2/6/2008*	*4/1/2008*	*8/8/2008*	*9/22/2008*
Parameters:	*Units*						
Metals							
Barium	mg/L	0.047 J	-	0.022 J	-	0.022 J	-
Barium (Dissolved)	mg/L	0.045 J	-	0.022 J	-	0.021 J	-
Calcium	mg/L	230	-	229	-	228	-
Calcium (Dissolved)	mg/L	218	212	226	233	221	213
Chromium Total	mg/L	0.010 U	-	0.010 U	-	0.010 U	-
Chromium Total (Dissolved)	mg/L	0.010 U	-	0.0044 J	-	0.010 U	-
Copper	mg/L	0.025 U	-	-	-	0.025 U	-
Copper (Dissolved)	mg/L	0.025 U	-	-	-	0.025 U	-
Iron	mg/L	4.7	-	0.10 U	-	0.10 U	-
Iron (Dissolved)	mg/L	2.9	-	0.10 U	-	0.10 U	-
Magnesium	mg/L	71.6	-	66.3	-	65.1	-
Magnesium (Dissolved)	mg/L	67.5	64.8	65.7	68.9	63.0	61.9
Manganese	mg/L	0.25	-	0.0089 J	-	0.0050 J	-
Manganese (Dissolved)	mg/L	0.22	-	0.0012 J	-	0.00051 J	-
Nickel	mg/L	0.15	-	0.023 J	-	0.020 J	-
Nickel (Dissolved)	mg/L	0.16	0.19	0.025 J	-	0.020 J	-
Potassium	mg/L	2.6 J	-	1.4 J	-	1.9 J	-
Potassium (Dissolved)	mg/L	2.7 J	-	1.6 J	-	2.0 J	-
Sodium	mg/L	60.6	-	63.7	-	42.8	-
Sodium (Dissolved)	mg/L	61.2	-	65.2	60.1	42.7	-
General Chemistry							
Chloride	mg/L	66.0	92.3	19.5	-	16.8	-
Cyanide (total)	mg/L	0.010 U	-	0.005 J	-	0.010 U	-
Sulfate	mg/L	512	515	641	684	573	592
Total Dissolved Solids (TDS)	mg/L	1300	-	-	-	1200	-
Total Suspended Solids (TSS)	mg/L	10	-	-	-	4.0 U	-

Notes:

J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.

TABLE 6.3

SUMMARY OF ANALYTICAL RESULTS FOR PRIMARY SUMP LIQUID SAMPLES - 2008
CLOSED LANDFILL
ELYRIA, OHIO

Sample Location:		*Northeast Primary Sump*	*Northeast Primary Sump*	*Northwest Primary Sump*	*Northwest Primary Sump*	*Southeast Primary Sump*
Sample ID:		*WG-12616-020808-DN-15*	*WG-12616-080908-DN-15*	*WG-12616-020708-DN-14*	*WG-12616-080908-DN-14*	*WG-12616-020808-DN-16*
Sample Date:		*2/8/2008*	*8/9/2008*	*2/7/2008*	*8/9/2008*	*2/8/2008*
Parameters:	*Units*					
Metals						
Barium	mg/L	0.016 J	0.019 J	0.023 J	0.030 J	0.016 J
Barium (Dissolved)	mg/L	0.016 J	0.018 J	0.022 J	0.028 J	0.014 J
Calcium	mg/L	65.3	69.1	95.5	106	34.5
Calcium (Dissolved)	mg/L	67.1	66.7	91.1	101	39.8
Chromium Total	mg/L	0.010 U	0.010 U	0.0040 J	0.0080 J	0.010 U
Chromium Total (Dissolved)	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Copper	mg/L	-	0.0097 J	-	0.0071 J	-
Copper (Dissolved)	mg/L	-	0.025 U	-	0.025 U	-
Iron	mg/L	0.10 U	0.10 U	0.27	0.39	1.3
Iron (Dissolved)	mg/L	0.10 U	0.10 U	0.12	0.13	0.084 J
Magnesium	mg/L	8.1	4.4 J	22.7	18.7	7.0
Magnesium (Dissolved)	mg/L	8.3	4.2 J	21.6	17.8	7.9
Manganese	mg/L	0.023	0.016	0.063	0.084	0.013 J
Manganese (Dissolved)	mg/L	0.023	0.015	0.059	0.076	0.0047 J
Nickel	mg/L	0.64	0.83	0.26	0.49	0.020 J
Nickel (Dissolved)	mg/L	0.66	0.83	0.24	0.47	0.021 J
Potassium	mg/L	1300	1420	557	816	45.4
Potassium (Dissolved)	mg/L	1300	1380	593	789	52.1
Sodium	mg/L	183	236	81.4	149	5.9
Sodium (Dissolved)	mg/L	188	229	78.0	144	7.5
General Chemistry						
Chloride	mg/L	400	451	156	269	12.0
Cyanide (total)	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.042
Sulfate	mg/L	1920	2390	921	1560	96.8
Total Dissolved Solids (TDS)	mg/L	-	4200	-	2600	-
Total Suspended Solids (TSS)	mg/L	-	4.0 U	-	4.0 U	-

Notes:

J - Estimated concentration.

U - Not present at or above the associated value.

- - Not analyzed.

TABLE 6.3

SUMMARY OF ANALYTICAL RESULTS FOR PRIMARY SUMP LIQUID SAMPLES - 2008
CLOSED LANDFILL
ELYRIA, OHIO

Sample Location:		*Southeast Primary Sump*	*Southwest Primary Sump*	*Southwest Primary Sump*
Sample ID:		*WG-12616-081008-DN-16*	*WG-12616-020808-DN-17*	*WG-12616-081008-DN-17*
Sample Date:		*8/10/2008*	*2/8/2008*	*8/10/2008*
Parameters:	*Units*			
Metals				
Barium	mg/L	0.036 J	0.016 J	0.093 J
Barium (Dissolved)	mg/L	0.034 J	0.015 J	0.028 J
Calcium	mg/L	77.4	47.8	189
Calcium (Dissolved)	mg/L	72.9	56.9	162
Chromium Total	mg/L	0.0022 J	0.010 U	1.1
Chromium Total (Dissolved)	mg/L	0.010 U	0.010 U	0.010 U
Copper	mg/L	0.015 J	-	6.6
Copper (Dissolved)	mg/L	0.025 U	-	0.0046 J
Iron	mg/L	0.21	1.3	38.7
Iron (Dissolved)	mg/L	0.10 U	0.088 J	0.10 U
Magnesium	mg/L	16.3	7.0	14.7
Magnesium (Dissolved)	mg/L	15.1	8.1	10.7
Manganese	mg/L	0.058	0.034	0.35
Manganese (Dissolved)	mg/L	0.052	0.020	0.050
Nickel	mg/L	0.57	0.11	0.89
Nickel (Dissolved)	mg/L	0.56	0.13	0.61
Potassium	mg/L	1780	162	524 J
Potassium (Dissolved)	mg/L	1760	191	794 J
Sodium	mg/L	155	29.5	153 J
Sodium (Dissolved)	mg/L	151	35.4	191 J
General Chemistry				
Chloride	mg/L	307	54.3	320
Cyanide (total)	mg/L	0.010 U	0.010 U	0.006 J
Sulfate	mg/L	1740	397	1850
Total Dissolved Solids (TDS)	mg/L	2900	-	3100
Total Suspended Solids (TSS)	mg/L	4.0 U	-	19

Notes:

J - Estimated concentration.

U - Not present at or above the associated value

-- Not analyzed.

TABLE 6.4

SUMMARY OF ANALYTICAL RESULTS FOR SECONDARY SUMP LIQUID SAMPLES - 2008
CLOSED LANDFILL
ELYRIA, OHIO

Sample Location:		*Northeast Secondary Sump*	*Northeast Secondary Sump*	*Northeast Secondary Sump*	*Northwest Secondary Sump*	*Northwest Secondary Sump*
Sample ID:		*WG-12616-020808-DN-19*	*WG-12616-050808-DN-03*	*WG-12616-081008-DN-19*	*WG-12616-020808-DN-18*	*WG-12616-050808-DN-01*
Sample Date:		*2/8/2008*	*5/8/2008*	*8/10/2008*	*2/8/2008*	*5/8/2008*
Parameters:	*Units*					
Metals						
Barium	mg/L	0.033 J	0.039 J	0.047 J	0.10 J	0.096 J
Barium (Dissolved)	mg/L	0.035 J	0.037 J	0.046 J	0.10 J	0.095 J
Calcium	mg/L	338	357	368	211	212
Calcium (Dissolved)	mg/L	363	361	370	213	208
Chromium Total	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Chromium Total (Dissolved)	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Copper	mg/L	-	-	0.025 U	-	-
Copper (Dissolved)	mg/L	-	-	0.025 U	-	-
Iron	mg/L	0.28	0.23	14.6 J	0.57	3.7 J
Iron (Dissolved)	mg/L	0.27	0.25	21.5 J	0.52	4.2
Magnesium	mg/L	81.2	83.9	88.8	38.3	38.5
Magnesium (Dissolved)	mg/L	87.7	85.1	89.4	38.9	37.9
Manganese	mg/L	3.8	3.8	3.8	0.97	1.1
Manganese (Dissolved)	mg/L	4.1	3.9	4.0	1.0	1.1
Nickel	mg/L	0.86	0.98	0.94	0.52	0.53
Nickel (Dissolved)	mg/L	0.93	0.99	0.94	0.52	0.51
Potassium	mg/L	508	447	402	556	430
Potassium (Dissolved)	mg/L	559	444	403	557	424
Sodium	mg/L	141	148	155	114	103
Sodium (Dissolved)	mg/L	152	149	155	116	101
General Chemistry						
Chloride	mg/L	284	250	274	208	172
Cyanide (total)	mg/L	0.010 U	0.01	0.010 U	0.010 U	0.010 U
Sulfate	mg/L	1440	1300	1440	1150	936
Total Dissolved Solids (TDS)	mg/L	-	-	3300	-	-
Total Suspended Solids (TSS)	mg/L	-	-	6.0	-	-

Notes:

J - Estimated concentration.

U - Not present at or above the associated value.

- - Not analyzed.

TABLE 6.4

SUMMARY OF ANALYTICAL RESULTS FOR SECONDARY SUMP LIQUID SAMPLES - 2008
CLOSED LANDFILL
ELYRIA, OHIO

Sample Location:		*Northwest Secondary Sump*	*Northwest Secondary Sump*	*Southeast Secondary Sump*	*Southeast Secondary Sump*	*Southeast Secondary Sump*
Sample ID:		*WG-12616-050808-DN-02*	*WG-12616-081008-DN-18*	*WG-12616-020808-DN-20*	*WG-12616-050808-DN-04*	*WG-12616-081008-DN-20*
Sample Date:		*5/8/2008 (Duplicate)*	*8/10/2008*	*2/8/2008*	*5/8/2008*	*8/10/2008*
Parameters:	*Units*					
Metals						
Barium	mg/L	0.090 J	0.075 J	0.039 J	0.044 J	0.037 J
Barium (Dissolved)	mg/L	0.097 J	0.077 J	0.040 J	0.045 J	0.041 J
Calcium	mg/L	202	196	193	214	192
Calcium (Dissolved)	mg/L	213	189	204	216	205
Chromium Total	mg/L	0.010 U	0.010 U	0.0086 J	0.0090 J	0.0077 J
Chromium Total (Dissolved)	mg/L	0.010 U	0.010 U	0.0097 J	0.0088 J	0.010
Copper	mg/L	-	0.12	-	-	0.022 J
Copper (Dissolved)	mg/L	-	0.068	-	-	0.025 U
Iron	mg/L	1.3 J	0.38 J	0.10 U	0.15	0.67
Iron (Dissolved)	mg/L	4.1 J	0.78 J	0.10	0.090 J	0.62
Magnesium	mg/L	36.9	36.2	50.2	54.9	51.4
Magnesium (Dissolved)	mg/L	38.8	34.8	53.2	56.3	54.4
Manganese	mg/L	0.99	0.10 J	1.4	1.4	1.2
Manganese (Dissolved)	mg/L	1.1	0.79 J	1.6	1.6	1.4
Nickel	mg/L	0.51	0.44	0.64	0.77	0.65
Nickel (Dissolved)	mg/L	0.53	0.42	0.68	0.81	0.71
Potassium	mg/L	413	376	565	490	404
Potassium (Dissolved)	mg/L	432	360	595	491	423 J
Sodium	mg/L	98.8	99.1	101	112	107
Sodium (Dissolved)	mg/L	103	94.5	108	114	112
General Chemistry						
Chloride	mg/L	171	162	180	191	208
Cyanide (total)	mg/L	0.010 U	0.010 U	0.010 U	0.006 J	0.010 U
Sulfate	mg/L	931	954	967	948	1030
Total Dissolved Solids (TDS)	mg/L	-	1900	-	-	2500
Total Suspended Solids (TSS)	mg/L	-	4.0 U	-	-	4.0 U

Notes:

J - Estimated concentration.

U - Not present at or above the associated v

-- Not analyzed.

TABLE 6.4

SUMMARY OF ANALYTICAL RESULTS FOR SECONDARY SUMP LIQUID SAMPLES - 2008
CLOSED LANDFILL
ELYRIA, OHIO

Sample Location:		*Southwest Secondary Sump*	*Southwest Secondary Sump*	*Southwest Secondary Sump*
Sample ID:		*WG-12616-020808-DN-21*	*WG-12616-050808-DN-05*	*WG-12616-081008-DN-21*
Sample Date:		*2/8/2008*	*5/8/2008*	*8/10/2008*
Parameters:	*Units*			
Metals				
Barium	mg/L	0.062 J	0.064 J	0.061 J
Barium (Dissolved)	mg/L	0.064 J	0.069 J	0.061 J
Calcium	mg/L	328	333	320
Calcium (Dissolved)	mg/L	341	359	306
Chromium Total	mg/L	0.010 U	0.010 U	0.010 U
Chromium Total (Dissolved)	mg/L	0.010 U	0.010 U	0.010 U
Copper	mg/L	-	-	0.11
Copper (Dissolved)	mg/L	-	-	0.017 J
Iron	mg/L	0.15	0.10 U	0.16 J
Iron (Dissolved)	mg/L	0.17	0.14	2.6 J
Magnesium	mg/L	81.8	81.3	79.5
Magnesium (Dissolved)	mg/L	83.7	86.9	74.3
Manganese	mg/L	7.4	7.1	6.7
Manganese (Dissolved)	mg/L	8.1	8.3	7.2
Nickel	mg/L	0.55	0.61	0.53
Nickel (Dissolved)	mg/L	0.55	0.65	0.50
Potassium	mg/L	310	284	260
Potassium (Dissolved)	mg/L	308	297	243
Sodium	mg/L	103	104	102
Sodium (Dissolved)	mg/L	104	110	94.7
General Chemistry				
Chloride	mg/L	167	158	154
Cyanide (total)	mg/L	0.010 U	0.010 U	0.010 U
Sulfate	mg/L	1340	1220	1320
Total Dissolved Solids (TDS)	mg/L	-	-	2600
Total Suspended Solids (TSS)	mg/L	-	-	4.0 U

Notes:

J - Estimated concentration.

U - Not present at or above the associated v

-- Not analyzed.

TABLE 7.1

LOCATIONS AND PARAMETERS WITH POTENTIAL EXCEEDANCES OF SITE UPPER TOLERANCE LIMITS APRIL 2008 RE-SAMPLING DATA CLOSED LANDFILL ELYRIA, OHIO

Location	*Parameter*
A) Bedrock Wells	
P-02	Magnesium (Dissolved)
P-08R	Barium (Dissolved)
P-08R	Chloride
P-08R	Sodium (Dissolved)
P-13	Calcium (Dissolved)
P-13	Nickel (Dissolved)
P-16	Calcium (Dissolved)
P-16	Chloride
P-16	Magnesium (Dissolved)
P-16	Nickel (Dissolved)
P-16	Sulfate
B) Till Contact Wells	
P-02T	Calcium (Dissolved)
P-02T	Chloride
P-02T	Magnesium (Dissolved)
P-02T	Sulfate
P-08T	Potassium (Dissolved)
P-13T	Calcium (Dissolved)
P-13T	Magnesium (Dissolved)
P-13T	Potassium (Dissolved)
P-13T	Sulfate
P-16T	Calcium (Dissolved)
P-16T	Magnesium (Dissolved)
P-16T	Sodium (Dissolved)
P-16T	Sulfate

APPENDIX A

2008 SUPPLEMENTAL ANNUAL REPORT FORM

2008 FINAL STANDARDS
SUPPLEMENTARY ANNUAL REPORT FORM
GROUNDWATER MONITORING INFORMATION

The Ohio EPA form "Supplementary Annual Report for 2008 Final Standards Ground Water Monitoring Information" is completed electronically and is provided on a CD accompanying this Appendix A.

See the attached disk for the following sections:

Section 1	Facility.dbf
Section 2	Well.dbf
Section 3	Sampling.dbf
Section 4	Parameter.dbf
Section 5	Groundwater Data.dbf
Section 6	Other Required Information The information for Section 6 is provided in the text of the report.
Section 7	Statistical Evaluations The information for Section 7 is provided in the text of the report.
Section 8	Assessment Monitoring The information for Section 8 is provided in the text of the report.

APPENDIX A-1

FACILITY

FACILITY.XLS
CLOSED LANDFILL
ELYRIA, OHIO

NAME	FCID	ADDR1	ADDR2	CITY	STATE	ZIP	PHONE	CONTACT	SECTION	TWNSHIP
REALM	OHD004201091	1400 Lowell Street		Elyria	Ohio	44035	419-609-1339	Doug Wagner		

FACILITY.XLS
CLOSED LANDFILL
ELYRIA, OHIO

RANGE	LATITUDE	LONGITUDE	GEOG_METHOD	NUM_WELLS	COUNTY_NAME	FIPS_CO	FIPS_ST
	412219 740	820806 840	S	55	Lorain		

APPENDIX A-2

WELL

WELL.XLS
CLOSED LANDFILL
ELYRIA, OHIO

FCID	WELL_ID	DATUM	DEPTH	TOP_CAS_EL	TOP_SCR_EL	BOT_SCR_EL	GRAD_POSTN	CAS_MATERL	PIPE_DIA
OHD004201091	NORTHEAST_SUMP	MSL	18.4'	760.21			O		
OHD004201091	NORTHEAST_SUMP2	MSL	19.7'	756.7			O		
OHD004201091	NORTHWEST_SUMP	MSL	17.48'	760.36			O		
OHD004201091	NORTHWEST_SUMP2	MSL	16.8'	756.8			O		
OHD004201091	P-01	MSL	21.97'	749.57	15	20	U	PVC	2"
OHD004201091	P-01T	MSL	12.7'	750.44	5	10	U	PVC	2"
OHD004201091	P-02	MSL	22.54'	748.87	17	22	U	PVC	2"
OHD004201091	P-02T	MSL	15.14'	749.8	8.5	13.5	U	PVC	2"
OHD004201091	P-03R	MSL	21.4'	748.87	14	19	U	PVC	2"
OHD004201091	P-03T	MSL	12.66'	748.77	5	10	U	PVC	2"
OHD004201091	P-08R	MSL	22.41'	751.09	15	20	U	PVC	2"
OHD004201091	P-08T	MSL	12.4'	751.13	5	10	U	PVC	2"
OHD004201091	P-11	MSL	15.13'	749.52	8	13	U	PVC	2"
OHD004201091	P-12	MSL	22.45'	751.83	15	20	U	PVC	2"
OHD004201091	P-12TR	MSL	13.94'	752.22	6.5	11.5	U	PVC	2"
OHD004201091	P-13	MSL	19.4'	750.94	12	17	U	PVC	2"
OHD004201091	P-13T	MSL	10.53'	750.83	3	8	U	PVC	2"
OHD004201091	P-14	MSL	22.15'	751.64	15	20	U	PVC	2"
OHD004201091	P-14T	MSL	14.3'	751.68	7	12	U	PVC	2"
OHD004201091	P-15	MSL	24.11'	753.73	17	22	U	PVC	2"
OHD004201091	P-15T	MSL	15.88'	753.59	8.5	13.5	U	PVC	2"
OHD004201091	P-16	MSL	20.22'	747.62	13	18	U	PVC	2"
OHD004201091	P-16T	MSL	12.05'	747.4	5	10	U	PVC	2"
OHD004201091	P-17	MSL	25.2'	754.96	17	22	U	PVC	2"
OHD004201091	P-18	MSL	31.11'	751.35	23.2	28.2	U	PVC	2"
OHD004201091	P-19	MSL	20.98'	750.24	12.8	17.8	U	PVC	2"
OHD004201091	P-20	MSL	20.68'	748.94	13	18	U	PVC	2"
OHD004201091	P-21	MSL	23.9'	751.35	16	21	U	PVC	2"
OHD004201091	SOUTHEAST_SUMP	MSL	16.42'	760.34			O		
OHD004201091	SOUTHEAST_SUMP2	MSL	13.1'	757.1			O		
OHD004201091	SOUTHWEST_SUMP	MSL	16.29'	760.26			O		
OHD004201091	SOUTHWEST_SUMP2	MSL	17.4'	758.4			O		

WELL.XLS
CLOSED LANDFILL
ELYRIA, OHIO

WELL_ID	COMMENT	SURFACE_EL	LATITUDE	LONGITUDE	X_VAR	Y_VAR
NORTHEAST_SUMP			820802 863	412211 321		
NORTHEAST_SUMP2	~20030911_Well Comp Details Aug 5 2003-Draft P&C.xls		820802 864	412211 966		
NORTHWEST_SUMP			820805 561	412211 310		
NORTHWEST_SUMP2	~20030911_Well Comp Details Aug 5 2003-Draft P&C.xls		820805 533	412211 988		
P-01	Piez. Only	748.47	820800 161	412214 120		
P-01T	Piez. Only	748	820800 126	412214 209		
P-02	~20030911_Well Comp Details Aug 5 2003-Draft P&C.xls	747.12	820800 180	412209 566		
P-02T	~20030911_Well Comp Details Aug 5 2003-Draft P&C.xls	747.54	820800 212	412209 696		
P-03R		746.45	820800 097	412207 715		
P-03T		746.56	820800 046	412207 587		
P-08R	New well	748.58	820804 654	412212 620		
P-08T		748	820804 381	412212 638		
P-11	Piez. Only	747	820800 176	412211 080		
P-12		750	820808 211	412210 280		
P-12TR	New well	749.83	820808 151	412210 074		
P-13		748.52	820804 269	412206 840		
P-13T		748.6	820804 090	412206 835		
P-14	New well	749.28	820808 577	412212 025		
P-14T	New well	749.37	820808 586	412212 191		
P-15		751.31	820807 966	412208 046		
P-15T		751.24	820807 898	412208 067		
P-16	New well	745.03	820759 937	412211 993		
P-16T	New well	745.01	820759 966	412212 038		
P-17	~20030911_Well Comp Details Aug 5 2003-Draft P&C.xls	752.16	820809 077	412208 917		
P-18	~20030911_Well Comp Details Aug 5 2003-Draft P&C.xls	748.47	820803 807	412208 209		
P-19	~20030911_Well Comp Details Aug 5 2003-Draft P&C.xls	747.59	820801 426	412206 522		
P-20	~20030911_Well Comp Details Aug 5 2003-Draft P&C.xls	745.98	820758 891	412210 565		
P-21	~20030911_Well Comp Details Aug 5 2003-Draft P&C.xls	748.4	820802 958	412212 281		
SOUTHEAST_SUMP			820802 830	412209 451		
SOUTHEAST_SUMP2	~20030911_Well Comp Details Aug 5 2003-Draft P&C.xls		820802 815	412208 800		
SOUTHWEST_SUMP			820805 575	412209 427		
SOUTHWEST_SUMP2	~20030911_Well Comp Details Aug 5 2003-Draft P&C.xls		820805 580	412208 810		

WELL.XLS
CLOSED LANDFILL
ELYRIA, OHIO

WELL_ID	GEOG_METHOD	ELEV_METHOD	WELL_USE	WELL_LOG_T	DATE_INSTL	DPTH_INSTL	GWL_INSTL	DATA_QA_W
NORTHEAST_SUMP	S		8C	D	1/1/1998			
NORTHEAST_SUMP2	S		8C	D	1/1/1998			
NORTHWEST_SUMP	S		8C	D	1/1/1998			
NORTHWEST_SUMP2	S		8C	D	1/1/1998			
P-01	S		8B	D	5/14/1981	20'	NA	
P-01T	S		8B	D	10/26/1988	12.5'	NA	
P-02	S		8A	D	5/15/1981	22'	NA	
P-02T	S		8A	D	10/26/1988	13.5'	NA	
P-03R	S		8B	D	6/3/2002	19'	NA	
P-03T	S		8B	D	5/23/2002	10'	NA	
P-08R	S		8A	D	5/29/2002	20'	NA	
P-08T	S		8A	D	10/26/1988	10'	NA	
P-11	S		8B	D	10/27/1988	13'	NA	
P-12	S		8A	D	2/3/2000	24.5'	NA	
P-12TR	S		8A	D	6/11/2002	11.5'	NA	
P-13	S		8A	D	3/9/2000	17'	NA	
P-13T	S		8A	D	3/9/2000	8.17'	NA	
P-14	S		8A	D	6/5/2002	20'	NA	
P-14T	S		8A	D	5/24/2002	12'	NA	
P-15	S		8B	D	5/30/2002	22'	NA	
P-15T	S		8B	D	5/23/2002	14'	NA	
P-16	S		8A	D	6/5/2002	18'	NA	
P-16T	S		8A	D	5/24/2002	10'	NA	
P-17	S		8B	D	6/23/2003	22.7'	NA	
P-18	S		8B	D	6/30/2003	28.3'	NA	
P-19	S		8B	D	6/27/2003	20.2'	NA	
P-20	S		8B	D	7/1/2003	18.2'	NA	
P-21	S		8B	D	7/2/2003	22'	NA	
SOUTHEAST_SUMP	S		8C	D	1/1/1998			
SOUTHEAST_SUMP2	S		8C	D	1/1/1998			
SOUTHWEST_SUMP	S		8C	D	1/1/1998			
SOUTHWEST_SUMP2	S		8C	D	1/1/1998			

APPENDIX A-3

SAMPLING

SAMPLING.XLS
CLOSED LANDFILL
ELYRIA, OHIO

FCID	SAMP_DATE	SAMP_SCHEM	COMMENT
OHD004201091	2/6/2008	S	
OHD004201091	2/7/2008	S	
OHD004201091	4/1/2008	O	
OHD004201091	4/2/2008	O	
OHD004201091	8/8/2008	S	
OHD004201091	8/9/2008	S	
OHD004201091	9/22/2008	O	
OHD004201091	9/23/2008	O	

APPENDIX A-4

PARAMETER

PARAMS.XLS
CLOSED LANDFILL
ELYRIA, OHIO

FCID	NAME	REP_CODE	UNITS	DET_LMT	ACL	MCL	CODE	METH_CODE
OHD004201091	Ba dis		ug/l	200			1	6010
OHD004201091	Ba		ug/l	200			2	6010
OHD004201091	Ca dis		ug/l	5000			3	6010
OHD004201091	Ca		ug/l	5000			4	6010
OHD004201091	Chld		mg/l	1			5	E300-28DAY
OHD004201091	Chld		mg/l	2			5	E300-28DAY
OHD004201091	Chld		mg/l	5			5	E300-28DAY
OHD004201091	Cr dis		ug/l	10			6	6010
OHD004201091	Cr		ug/l	10			7	6010
OHD004201091	Cu dis		ug/l	25			8	6010
OHD004201091	Cu		ug/l	25			9	6010
OHD004201091	Cyanide		ug/l	10			10	C335.2
OHD004201091	Fe dis		mg/l	0.1			11	6010
OHD004201091	Fe		mg/l	0.1			12	6010
OHD004201091	Mg dis		ug/l	5000			13	6010
OHD004201091	Mg		ug/l	5000			14	6010
OHD004201091	Mn dis		ug/l	15			15	6010
OHD004201091	Mn		ug/l	15			16	6010
OHD004201091	Ni dis		ug/l	40			17	6010
OHD004201091	Ni		ug/l	40			18	6010
OHD004201091	K dis		ug/l	5000			19	6010
OHD004201091	K		ug/l	5000			20	6010
OHD004201091	Na		mg/l	5			21	6010
OHD004201091	Na dis		mg/l	5			22	6010
OHD004201091	Sulfate		mg/l	1			23	E300-28DAY
OHD004201091	Sulfate		mg/l	2			23	E300-28DAY
OHD004201091	Sulfate		mg/l	5			23	E300-28DAY
OHD004201091	TDS		ug/l	10000			24	E160.1
OHD004201091	TDS		ug/l	20000			24	E160.1
OHD004201091	TSS		ug/l	4000			25	E160.2
OHD004201091	GWL		feet				26	

APPENDIX A-5

GROUNDWATER DATA

FCID	WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	DUP_CODE	REP_CODE	METH_CODE	DATA_QUAL
OHD004201091	P-08R	Ba dis	4/1/2008	200	88	ug/l			6010	J
OHD004201091	P-08R	Ba dis	9/22/2008	200	87	ug/l			6010	J
OHD004201091	P-02	Ba dis	8/9/2008	200	48	ug/l			6010	J
OHD004201091	P-16T	Ba dis	2/6/2008	200	22	ug/l			6010	J
OHD004201091	P-14	Ba dis	8/9/2008	200	63	ug/l			6010	J
OHD004201091	P-13T	Ba dis	2/7/2008	200	24	ug/l			6010	J
OHD004201091	P-02T	Ba dis	8/9/2008	200	21	ug/l			6010	J
OHD004201091	P-08T	Ba dis	8/8/2008	200	57	ug/l			6010	J
OHD004201091	P-02	Ba dis	2/7/2008	200	49	ug/l			6010	J
OHD004201091	P-12	Ba dis	8/9/2008	200	29	ug/l			6010	J
OHD004201091	P-13T	Ba dis	8/9/2008	200	18	ug/l			6010	J
OHD004201091	P-14T	Ba dis	8/9/2008	200	20	ug/l			6010	J
OHD004201091	P-13	Ba dis	2/7/2008	200	18	ug/l			6010	J
OHD004201091	P-14	Ba dis	2/7/2008	200	58	ug/l			6010	J
OHD004201091	P-02T	Ba dis	2/7/2008	200	19	ug/l			6010	J
OHD004201091	P-14T	Ba dis	2/7/2008	200	23	ug/l	D		6010	J
OHD004201091	P-08R	Ba dis	8/8/2008	200	83	ug/l			6010	J
OHD004201091	P-12TR	Ba dis	8/9/2008	200	72	ug/l			6010	J
OHD004201091	P-08R	Ba dis	2/6/2008	200	88	ug/l			6010	J
OHD004201091	P-16T	Ba dis	8/8/2008	200	21	ug/l			6010	J
OHD004201091	P-08R	Ba dis	8/8/2008	200	83	ug/l	D		6010	J
OHD004201091	P-16	Ba dis	8/8/2008	200	45	ug/l			6010	J
OHD004201091	P-08T	Ba dis	2/6/2008	200	39	ug/l			6010	J
OHD004201091	P-12TR	Ba dis	2/7/2008	200	64	ug/l			6010	J
OHD004201091	P-13	Ba dis	8/9/2008	200	18	ug/l			6010	J
OHD004201091	P-16	Ba dis	2/6/2008	200	47	ug/l			6010	J
OHD004201091	P-14T	Ba dis	2/7/2008	200	22	ug/l			6010	J
OHD004201091	P-12	Ba dis	2/7/2008	200	33	ug/l			6010	J
OHD004201091	P-14	Ba	8/9/2008	200	64	ug/l			6010	J
OHD004201091	P-02	Ba	8/9/2008	200	45	ug/l			6010	J
OHD004201091	P-12TR	Ba	2/7/2008	200	67	ug/l			6010	J
OHD004201091	P-16T	Ba	8/8/2008	200	22	ug/l			6010	J
OHD004201091	P-12	Ba	8/9/2008	200	24	ug/l			6010	J
OHD004201091	P-08T	Ba	8/8/2008	200	54	ug/l			6010	J
OHD004201091	P-08R	Ba	8/8/2008	200	83	ug/l	D		6010	J
OHD004201091	P-14T	Ba	2/7/2008	200	27	ug/l			6010	J
OHD004201091	P-12	Ba	2/7/2008	200	30	ug/l			6010	J
OHD004201091	P-14	Ba	2/7/2008	200	67	ug/l			6010	J
OHD004201091	P-14T	Ba	2/7/2008	200	26	ug/l	D		6010	J

FCID	WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	DUP_CODE	REP_CODE	METH_CODE	DATA_QUAL
OHD004201091	P-02T	Ba	2/7/2008	200	20	ug/l			6010	J
OHD004201091	P-13T	Ba	2/7/2008	200	35	ug/l			6010	J
OHD004201091	P-08T	Ba	2/6/2008	200	37	ug/l			6010	J
OHD004201091	P-16	Ba	2/6/2008	200	49	ug/l			6010	J
OHD004201091	P-08R	Ba	2/6/2008	200	82	ug/l			6010	J
OHD004201091	P-16	Ba	8/8/2008	200	47	ug/l			6010	J
OHD004201091	P-13	Ba	2/7/2008	200	21	ug/l			6010	J
OHD004201091	P-16T	Ba	2/6/2008	200	22	ug/l			6010	J
OHD004201091	P-14T	Ba	8/9/2008	200	25	ug/l			6010	J
OHD004201091	P-13T	Ba	8/9/2008	200	33	ug/l			6010	J
OHD004201091	P-02	Ba	2/7/2008	200	49	ug/l			6010	J
OHD004201091	P-08R	Ba	8/8/2008	200	84	ug/l			6010	J
OHD004201091	P-02T	Ba	8/9/2008	200	21	ug/l			6010	J
OHD004201091	P-12TR	Ba	8/9/2008	200	72	ug/l			6010	J
OHD004201091	P-13	Ba	8/9/2008	200	19	ug/l			6010	J
OHD004201091	P-02T	Ca dis	4/1/2008	5000	228000	ug/l			6010	
OHD004201091	P-13	Ca dis	4/2/2008	5000	149000	ug/l			6010	
OHD004201091	P-14	Ca dis	8/9/2008	5000	118000	ug/l			6010	
OHD004201091	P-16	Ca dis	8/8/2008	5000	218000	ug/l			6010	
OHD004201091	P-13T	Ca dis	4/2/2008	5000	172000	ug/l	D		6010	
OHD004201091	P-13T	Ca dis	4/2/2008	5000	173000	ug/l			6010	
OHD004201091	P-14T	Ca dis	8/9/2008	5000	108000	ug/l			6010	
OHD004201091	P-14T	Ca dis	2/7/2008	5000	118000	ug/l	D		6010	
OHD004201091	P-14T	Ca dis	2/7/2008	5000	114000	ug/l			6010	
OHD004201091	P-16T	Ca dis	4/1/2008	5000	233000	ug/l			6010	
OHD004201091	P-08R	Ca dis	8/8/2008	5000	91200	ug/l			6010	
OHD004201091	P-16	Ca dis	4/1/2008	5000	226000	ug/l			6010	
OHD004201091	P-12	Ca dis	8/9/2008	5000	58300	ug/l			6010	
OHD004201091	P-16T	Ca dis	8/8/2008	5000	221000	ug/l			6010	
OHD004201091	P-02	Ca dis	8/9/2008	5000	110000	ug/l			6010	
OHD004201091	P-16T	Ca dis	9/22/2008	5000	213000	ug/l			6010	
OHD004201091	P-16	Ca dis	2/6/2008	5000	229000	ug/l			6010	
OHD004201091	P-02T	Ca dis	8/9/2008	5000	236000	ug/l			6010	
OHD004201091	P-16T	Ca dis	2/6/2008	5000	226000	ug/l			6010	
OHD004201091	P-08T	Ca dis	8/8/2008	5000	127000	ug/l			6010	
OHD004201091	P-16	Ca dis	9/22/2008	5000	212000	ug/l			6010	
OHD004201091	P-14	Ca dis	2/7/2008	5000	117000	ug/l			6010	
OHD004201091	P-02	Ca dis	2/7/2008	5000	121000	ug/l			6010	
OHD004201091	P-08R	Ca dis	2/6/2008	5000	96500	ug/l			6010	

FCID	WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	DUP_CODE	REP_CODE	METH_CODE	DATA_QUAL
OHD004201091	P-02T	Ca dis	2/7/2008	5000	250000	ug/l			6010	
OHD004201091	P-12TR	Ca dis	8/9/2008	5000	126000	ug/l			6010	
OHD004201091	P-02T	Ca dis	9/23/2008	5000	224000	ug/l			6010	
OHD004201091	P-13	Ca dis	2/7/2008	5000	149000	ug/l			6010	
OHD004201091	P-13T	Ca dis	2/7/2008	5000	169000	ug/l			6010	
OHD004201091	P-08T	Ca dis	2/6/2008	5000	76100	ug/l			6010	
OHD004201091	P-12	Ca dis	2/7/2008	5000	66900	ug/l			6010	
OHD004201091	P-08R	Ca dis	8/8/2008	5000	92300	ug/l	D		6010	
OHD004201091	P-12TR	Ca dis	2/7/2008	5000	125000	ug/l			6010	
OHD004201091	P-13	Ca dis	8/9/2008	5000	142000	ug/l			6010	
OHD004201091	P-13	Ca dis	9/23/2008	5000	142000	ug/l			6010	
OHD004201091	P-13T	Ca dis	8/9/2008	5000	143000	ug/l			6010	
OHD004201091	P-13T	Ca	8/9/2008	5000	181000	ug/l			6010	
OHD004201091	P-13	Ca	8/9/2008	5000	146000	ug/l			6010	
OHD004201091	P-08R	Ca	8/8/2008	5000	91800	ug/l			6010	
OHD004201091	P-02	Ca	8/9/2008	5000	104000	ug/l			6010	
OHD004201091	P-08T	Ca	8/8/2008	5000	121000	ug/l			6010	
OHD004201091	P-14	Ca	8/9/2008	5000	117000	ug/l			6010	
OHD004201091	P-08R	Ca	8/8/2008	5000	90600	ug/l	D		6010	
OHD004201091	P-02T	Ca	8/9/2008	5000	244000	ug/l			6010	
OHD004201091	P-14T	Ca	2/7/2008	5000	115000	ug/l			6010	
OHD004201091	P-13	Ca	2/7/2008	5000	157000	ug/l			6010	
OHD004201091	P-13T	Ca	2/7/2008	5000	142000	ug/l			6010	
OHD004201091	P-02T	Ca	2/7/2008	5000	249000	ug/l			6010	
OHD004201091	P-16T	Ca	8/8/2008	5000	228000	ug/l			6010	
OHD004201091	P-12	Ca	2/7/2008	5000	61000	ug/l			6010	
OHD004201091	P-02	Ca	2/7/2008	5000	120000	ug/l			6010	
OHD004201091	P-12	Ca	8/9/2008	5000	51800	ug/l			6010	
OHD004201091	P-12TR	Ca	2/7/2008	5000	134000	ug/l			6010	
OHD004201091	P-12TR	Ca	8/9/2008	5000	127000	ug/l			6010	
OHD004201091	P-14	Ca	2/7/2008	5000	118000	ug/l			6010	
OHD004201091	P-16T	Ca	2/6/2008	5000	229000	ug/l			6010	
OHD004201091	P-14T	Ca	2/7/2008	5000	117000	ug/l	D		6010	
OHD004201091	P-16	Ca	2/6/2008	5000	224000	ug/l			6010	
OHD004201091	P-14T	Ca	8/9/2008	5000	113000	ug/l			6010	
OHD004201091	P-08R	Ca	2/6/2008	5000	89800	ug/l			6010	
OHD004201091	P-08T	Ca	2/6/2008	5000	74800	ug/l			6010	
OHD004201091	P-16	Ca	8/8/2008	5000	230000	ug/l			6010	
OHD004201091	P-12	Chld	2/7/2008	1	19.4	mg/l			E300-28DAY	

FCID	WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	DUP_CODE	REP_CODE	METH_CODE	DATA_QUAL
OHD004201091	P-02T	Chld	8/9/2008	5	101	mg/l			E300-28DAY	
OHD004201091	P-16	Chld	2/6/2008	5	60.6	mg/l			E300-28DAY	
OHD004201091	P-02	Chld	2/7/2008	5	29.3	mg/l			E300-28DAY	
OHD004201091	P-08R	Chld	2/6/2008	5	162	mg/l			E300-28DAY	
OHD004201091	P-02	Chld	8/9/2008	5	30.9	mg/l			E300-28DAY	
OHD004201091	P-08T	Chld	2/6/2008	1	15.4	mg/l			E300-28DAY	
OHD004201091	P-16T	Chld	2/6/2008	5	19.5	mg/l			E300-28DAY	
OHD004201091	P-13	Chld	8/9/2008	2	23.3	mg/l			E300-28DAY	
OHD004201091	P-16	Chld	8/8/2008	5	66	mg/l			E300-28DAY	
OHD004201091	P-02T	Chld	4/1/2008	5	107	mg/l			E300-28DAY	
OHD004201091	P-16T	Chld	8/8/2008	5	16.8	mg/l			E300-28DAY	
OHD004201091	P-16	Chld	4/1/2008	5	53.7	mg/l			E300-28DAY	
OHD004201091	P-08R	Chld	4/1/2008	5	175	mg/l			E300-28DAY	
OHD004201091	P-08T	Chld	8/8/2008	5	57.3	mg/l			E300-28DAY	
OHD004201091	P-08R	Chld	8/8/2008	5	169	mg/l			E300-28DAY	
OHD004201091	P-02T	Chld	2/7/2008	5	101	mg/l			E300-28DAY	
OHD004201091	P-14	Chld	2/7/2008	1	7.9	mg/l			E300-28DAY	
OHD004201091	P-08R	Chld	8/8/2008	5	170	mg/l	D		E300-28DAY	
OHD004201091	P-12TR	Chld	2/7/2008	1	10.5	mg/l			E300-28DAY	
OHD004201091	P-13T	Chld	2/7/2008	5	18.7	mg/l			E300-28DAY	
OHD004201091	P-14T	Chld	2/7/2008	1	3	mg/l			E300-28DAY	
OHD004201091	P-13	Chld	2/7/2008	1	23.4	mg/l			E300-28DAY	
OHD004201091	P-14T	Chld	2/7/2008	1	3.1	mg/l	D		E300-28DAY	
OHD004201091	P-08R	Chld	9/22/2008	5	174	mg/l			E300-28DAY	
OHD004201091	P-14T	Chld	8/9/2008	1	3	mg/l			E300-28DAY	
OHD004201091	P-16	Chld	9/22/2008	1	92.3	mg/l			E300-28DAY	
OHD004201091	P-13T	Chld	8/9/2008	2	22.8	mg/l			E300-28DAY	
OHD004201091	P-12TR	Chld	8/9/2008	5	9.9	mg/l			E300-28DAY	
OHD004201091	P-14	Chld	8/9/2008	2	6	mg/l			E300-28DAY	
OHD004201091	P-02T	Chld	9/23/2008	1	123	mg/l			E300-28DAY	
OHD004201091	P-12	Chld	8/9/2008	1	19.1	mg/l			E300-28DAY	
OHD004201091	P-13	Cr dis	2/7/2008	ND<10		ug/l			6010	UJ
OHD004201091	P-13T	Cr dis	8/9/2008	ND<10		ug/l			6010	UJ
OHD004201091	P-16T	Cr dis	2/6/2008	10	4.4	ug/l			6010	J
OHD004201091	P-16	Cr dis	8/8/2008	ND<10		ug/l			6010	UJ
OHD004201091	P-16	Cr dis	2/6/2008	ND<10		ug/l			6010	UJ
OHD004201091	P-02	Cr dis	8/9/2008	ND<10		ug/l			6010	UJ
OHD004201091	P-08R	Cr dis	8/8/2008	ND<10		ug/l	D		6010	UJ
OHD004201091	P-02T	Cr dis	8/9/2008	ND<10		ug/l			6010	UJ

FCID	WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	DUP_CODE	REP_CODE	METH_CODE	DATA_QUAL
OHD004201091	P-12TR	Cr dis	8/9/2008	ND<10		ug/l			6010	UJ
OHD004201091	P-14T	Cr dis	2/7/2008	ND<10		ug/l	D		6010	UJ
OHD004201091	P-02	Cr dis	2/7/2008	ND<10		ug/l			6010	UJ
OHD004201091	P-02T	Cr dis	2/7/2008	ND<10		ug/l			6010	UJ
OHD004201091	P-12	Cr dis	8/9/2008	ND<10		ug/l			6010	UJ
OHD004201091	P-08R	Cr dis	8/8/2008	ND<10		ug/l			6010	UJ
OHD004201091	P-12	Cr dis	2/7/2008	ND<10		ug/l			6010	UJ
OHD004201091	P-08T	Cr dis	2/6/2008	ND<10		ug/l			6010	UJ
OHD004201091	P-14T	Cr dis	2/7/2008	ND<10		ug/l			6010	UJ
OHD004201091	P-13	Cr dis	8/9/2008	ND<10		ug/l			6010	UJ
OHD004201091	P-14	Cr dis	2/7/2008	ND<10		ug/l			6010	UJ
OHD004201091	P-16T	Cr dis	8/8/2008	ND<10		ug/l			6010	UJ
OHD004201091	P-08R	Cr dis	2/6/2008	ND<10		ug/l			6010	UJ
OHD004201091	P-08T	Cr dis	8/8/2008	ND<10		ug/l			6010	UJ
OHD004201091	P-12TR	Cr dis	2/7/2008	ND<10		ug/l			6010	UJ
OHD004201091	P-14	Cr dis	8/9/2008	ND<10		ug/l			6010	UJ
OHD004201091	P-14T	Cr dis	8/9/2008	ND<10		ug/l			6010	UJ
OHD004201091	P-13T	Cr dis	2/7/2008	ND<10		ug/l			6010	UJ
OHD004201091	P-08T	Cr	8/8/2008	ND<10		ug/l			6010	UJ
OHD004201091	P-14T	Cr	8/9/2008	ND<10		ug/l			6010	UJ
OHD004201091	P-12	Cr	8/9/2008	ND<10		ug/l			6010	UJ
OHD004201091	P-08R	Cr	8/8/2008	ND<10		ug/l	D		6010	UJ
OHD004201091	P-12TR	Cr	8/9/2008	ND<10		ug/l			6010	UJ
OHD004201091	P-12TR	Cr	2/7/2008	ND<10		ug/l			6010	UJ
OHD004201091	P-13	Cr	2/7/2008	ND<10		ug/l			6010	UJ
OHD004201091	P-02	Cr	8/9/2008	ND<10		ug/l			6010	UJ
OHD004201091	P-14T	Cr	2/7/2008	ND<10		ug/l	D		6010	UJ
OHD004201091	P-14T	Cr	2/7/2008	ND<10		ug/l			6010	UJ
OHD004201091	P-12	Cr	2/7/2008	ND<10		ug/l			6010	UJ
OHD004201091	P-14	Cr	8/9/2008	ND<10		ug/l			6010	UJ
OHD004201091	P-13T	Cr	2/7/2008	10	12	ug/l			6010	
OHD004201091	P-02T	Cr	2/7/2008	ND<10		ug/l			6010	UJ
OHD004201091	P-14	Cr	2/7/2008	ND<10		ug/l			6010	UJ
OHD004201091	P-13T	Cr	8/9/2008	10	3.2	ug/l			6010	J
OHD004201091	P-02T	Cr	8/9/2008	ND<10		ug/l			6010	UJ
OHD004201091	P-08T	Cr	2/6/2008	ND<10		ug/l			6010	UJ
OHD004201091	P-08R	Cr	2/6/2008	ND<10		ug/l			6010	UJ
OHD004201091	P-16	Cr	8/8/2008	ND<10		ug/l			6010	UJ
OHD004201091	P-02	Cr	2/7/2008	ND<10		ug/l			6010	UJ

FCID	WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	DUP_CODE	REP_CODE	METH_CODE	DATA_QUAL
OHD004201091	P-16	Cr	2/6/2008	ND<10		ug/l			6010	UJ
OHD004201091	P-13	Cr	8/9/2008	ND<10		ug/l			6010	UJ
OHD004201091	P-16T	Cr	2/6/2008	ND<10		ug/l			6010	UJ
OHD004201091	P-16T	Cr	8/8/2008	ND<10		ug/l			6010	UJ
OHD004201091	P-08R	Cr	8/8/2008	ND<10		ug/l			6010	UJ
OHD004201091	P-16	Cu dis	8/8/2008	ND<25		ug/l			6010	UJ
OHD004201091	P-08R	Cu dis	8/8/2008	ND<25		ug/l	D		6010	UJ
OHD004201091	P-12	Cu dis	8/9/2008	ND<25		ug/l			6010	UJ
OHD004201091	P-13	Cu dis	8/9/2008	ND<25		ug/l			6010	UJ
OHD004201091	P-16T	Cu dis	8/8/2008	ND<25		ug/l			6010	UJ
OHD004201091	P-14	Cu dis	8/9/2008	ND<25		ug/l			6010	UJ
OHD004201091	P-08T	Cu dis	8/8/2008	ND<25		ug/l			6010	UJ
OHD004201091	P-02	Cu dis	8/9/2008	ND<25		ug/l			6010	UJ
OHD004201091	P-14T	Cu dis	8/9/2008	ND<25		ug/l			6010	UJ
OHD004201091	P-13T	Cu dis	8/9/2008	ND<25		ug/l			6010	UJ
OHD004201091	P-02T	Cu dis	8/9/2008	ND<25		ug/l			6010	UJ
OHD004201091	P-08R	Cu dis	8/8/2008	ND<25		ug/l			6010	UJ
OHD004201091	P-12TR	Cu dis	8/9/2008	ND<25		ug/l			6010	UJ
OHD004201091	P-08R	Cu	8/8/2008	ND<25		ug/l			6010	UJ
OHD004201091	P-14T	Cu	8/9/2008	ND<25		ug/l			6010	UJ
OHD004201091	P-12TR	Cu	8/9/2008	ND<25		ug/l			6010	UJ
OHD004201091	P-12	Cu	8/9/2008	ND<25		ug/l			6010	UJ
OHD004201091	P-08R	Cu	8/8/2008	ND<25		ug/l	D		6010	UJ
OHD004201091	P-13T	Cu	8/9/2008	ND<25		ug/l			6010	UJ
OHD004201091	P-16T	Cu	8/8/2008	ND<25		ug/l			6010	UJ
OHD004201091	P-14	Cu	8/9/2008	ND<25		ug/l			6010	UJ
OHD004201091	P-02	Cu	8/9/2008	ND<25		ug/l			6010	UJ
OHD004201091	P-16	Cu	8/8/2008	ND<25		ug/l			6010	UJ
OHD004201091	P-13	Cu	8/9/2008	ND<25		ug/l			6010	UJ
OHD004201091	P-02T	Cu	8/9/2008	ND<25		ug/l			6010	UJ
OHD004201091	P-08T	Cu	8/8/2008	ND<25		ug/l			6010	UJ
OHD004201091	P-08T	Cyanide	8/8/2008	ND<10		ug/l			C335.2	UJ
OHD004201091	P-12	Cyanide	8/9/2008	ND<10		ug/l			C335.2	UJ
OHD004201091	P-14T	Cyanide	8/9/2008	ND<10		ug/l			C335.2	UJ
OHD004201091	P-14T	Cyanide	2/7/2008	10	89	ug/l	D		C335.2	J
OHD004201091	P-08R	Cyanide	8/8/2008	ND<10		ug/l	D		C335.2	UJ
OHD004201091	P-16	Cyanide	8/8/2008	ND<10		ug/l			C335.2	UJ
OHD004201091	P-16T	Cyanide	8/8/2008	ND<10		ug/l			C335.2	UJ
OHD004201091	P-08T	Cyanide	2/6/2008	ND<10		ug/l			C335.2	UJ

FCID	WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	DUP_CODE	REP_CODE	METH_CODE	DATA_QUAL
OHD004201091	P-14T	Cyanide	2/7/2008	ND<10		ug/l			C335.2	UJ
OHD004201091	P-12	Cyanide	2/7/2008	ND<10		ug/l			C335.2	UJ
OHD004201091	P-13	Cyanide	2/7/2008	ND<10		ug/l			C335.2	UJ
OHD004201091	P-02T	Cyanide	8/9/2008	ND<10		ug/l			C335.2	UJ
OHD004201091	P-02T	Cyanide	2/7/2008	ND<10		ug/l			C335.2	UJ
OHD004201091	P-02	Cyanide	2/7/2008	ND<10		ug/l			C335.2	UJ
OHD004201091	P-13	Cyanide	8/9/2008	ND<10		ug/l			C335.2	UJ
OHD004201091	P-13T	Cyanide	2/7/2008	ND<10		ug/l			C335.2	UJ
OHD004201091	P-16T	Cyanide	2/6/2008	10	5	ug/l			C335.2	J
OHD004201091	P-14	Cyanide	8/9/2008	ND<10		ug/l			C335.2	UJ
OHD004201091	P-14	Cyanide	2/7/2008	10	76	ug/l			C335.2	
OHD004201091	P-12TR	Cyanide	8/9/2008	ND<10		ug/l			C335.2	UJ
OHD004201091	P-08R	Cyanide	8/8/2008	ND<10		ug/l			C335.2	UJ
OHD004201091	P-13T	Cyanide	8/9/2008	ND<10		ug/l			C335.2	UJ
OHD004201091	P-02	Cyanide	8/9/2008	ND<10		ug/l			C335.2	UJ
OHD004201091	P-12TR	Cyanide	2/7/2008	ND<10		ug/l			C335.2	UJ
OHD004201091	P-08R	Cyanide	2/6/2008	ND<10		ug/l			C335.2	UJ
OHD004201091	P-16	Cyanide	2/6/2008	ND<10		ug/l			C335.2	UJ
OHD004201091	P-08T	Fe dis	2/6/2008	ND<0.1		mg/l			6010	UJ
OHD004201091	P-02T	Fe dis	2/7/2008	0.1	0.13	mg/l			6010	
OHD004201091	P-02T	Fe dis	8/9/2008	0.1	0.28	mg/l			6010	
OHD004201091	P-16T	Fe dis	8/8/2008	ND<0.1		mg/l			6010	UJ
OHD004201091	P-02	Fe dis	2/7/2008	0.1	0.12	mg/l			6010	
OHD004201091	P-16	Fe dis	8/8/2008	0.1	2.9	mg/l			6010	
OHD004201091	P-13T	Fe dis	9/23/2008	0.1	1.5	mg/l			6010	
OHD004201091	P-08R	Fe dis	2/6/2008	0.1	0.13	mg/l			6010	
OHD004201091	P-08R	Fe dis	8/8/2008	0.1	0.13	mg/l			6010	
OHD004201091	P-13	Fe dis	8/9/2008	0.1	1.3	mg/l			6010	
OHD004201091	P-13T	Fe dis	8/9/2008	0.1	1.3	mg/l			6010	
OHD004201091	P-14T	Fe dis	8/9/2008	ND<0.1		mg/l			6010	UJ
OHD004201091	P-16	Fe dis	2/6/2008	0.1	0.99	mg/l			6010	
OHD004201091	P-16T	Fe dis	2/6/2008	ND<0.1		mg/l			6010	UJ
OHD004201091	P-13T	Fe dis	2/7/2008	0.1	0.53	mg/l			6010	
OHD004201091	P-08T	Fe dis	8/8/2008	0.1	0.12	mg/l			6010	
OHD004201091	P-12TR	Fe dis	2/7/2008	0.1	0.26	mg/l			6010	
OHD004201091	P-14	Fe dis	2/7/2008	0.1	1.7	mg/l			6010	
OHD004201091	P-12	Fe dis	8/9/2008	0.1	0.36	mg/l			6010	
OHD004201091	P-12	Fe dis	2/7/2008	0.1	0.099	mg/l			6010	J
OHD004201091	P-12TR	Fe dis	8/9/2008	0.1	0.11	mg/l			6010	

FCID	WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	DUP_CODE	REP_CODE	METH_CODE	DATA_QUAL
OHD004201091	P-14T	Fe dis	2/7/2008	ND<0.1		mg/l			6010	UJ
OHD004201091	P-14	Fe dis	8/9/2008	0.1	1.8	mg/l			6010	
OHD004201091	P-02	Fe dis	8/9/2008	0.1	0.19	mg/l			6010	
OHD004201091	P-14T	Fe dis	2/7/2008	ND<0.1		mg/l	D		6010	UJ
OHD004201091	P-08R	Fe dis	8/8/2008	0.1	0.11	mg/l	D		6010	
OHD004201091	P-13	Fe dis	2/7/2008	0.1	1.5	mg/l			6010	
OHD004201091	P-14T	Fe	2/7/2008	0.1	0.16	mg/l			6010	
OHD004201091	P-08T	Fe	2/6/2008	0.1	0.12	mg/l			6010	
OHD004201091	P-12	Fe	2/7/2008	0.1	0.086	mg/l			6010	J
OHD004201091	P-14T	Fe	8/9/2008	0.1	0.23	mg/l			6010	
OHD004201091	P-08R	Fe	2/6/2008	0.1	0.16	mg/l			6010	
OHD004201091	P-14	Fe	2/7/2008	0.1	7.4	mg/l			6010	
OHD004201091	P-12TR	Fe	2/7/2008	0.1	0.59	mg/l			6010	
OHD004201091	P-13	Fe	2/7/2008	0.1	3.3	mg/l			6010	
OHD004201091	P-12	Fe	8/9/2008	0.1	0.37	mg/l			6010	
OHD004201091	P-13T	Fe	2/7/2008	0.1	4.7	mg/l			6010	
OHD004201091	P-16	Fe	8/8/2008	0.1	4.7	mg/l			6010	
OHD004201091	P-12TR	Fe	8/9/2008	0.1	0.13	mg/l			6010	
OHD004201091	P-02T	Fe	2/7/2008	0.1	0.72	mg/l			6010	
OHD004201091	P-16T	Fe	8/8/2008	ND<0.1		mg/l			6010	UJ
OHD004201091	P-02	Fe	2/7/2008	0.1	0.2	mg/l			6010	
OHD004201091	P-16T	Fe	2/6/2008	ND<0.1		mg/l			6010	UJ
OHD004201091	P-14T	Fe	2/7/2008	0.1	0.098	mg/l	D		6010	J
OHD004201091	P-16	Fe	2/6/2008	0.1	4.7	mg/l			6010	
OHD004201091	P-08T	Fe	8/8/2008	0.1	0.16	mg/l			6010	
OHD004201091	P-14	Fe	8/9/2008	0.1	4.1	mg/l			6010	
OHD004201091	P-02	Fe	8/9/2008	0.1	0.21	mg/l			6010	
OHD004201091	P-08R	Fe	8/8/2008	0.1	0.1	mg/l	D		6010	
OHD004201091	P-13T	Fe	8/9/2008	0.1	5.5	mg/l			6010	
OHD004201091	P-13	Fe	8/9/2008	0.1	1.4	mg/l			6010	
OHD004201091	P-08R	Fe	8/8/2008	0.1	0.13	mg/l			6010	
OHD004201091	P-02T	Fe	8/9/2008	0.1	0.36	mg/l			6010	
OHD004201091	P-02T	Mg dis	9/23/2008	5000	90700	ug/l			6010	
OHD004201091	P-02	Mg dis	2/7/2008	5000	44400	ug/l			6010	
OHD004201091	P-12TR	Mg dis	2/7/2008	5000	32600	ug/l			6010	
OHD004201091	P-16T	Mg dis	9/22/2008	5000	61900	ug/l			6010	
OHD004201091	P-08T	Mg dis	8/8/2008	5000	39900	ug/l			6010	
OHD004201091	P-14T	Mg dis	2/7/2008	5000	23800	ug/l	D		6010	
OHD004201091	P-14T	Mg dis	2/7/2008	5000	22900	ug/l			6010	

FCID	WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	DUP_CODE	REP_CODE	METH_CODE	DATA_QUAL
OHD004201091	P-08R	Mg dis	8/8/2008	5000	19500	ug/l	D		6010	
OHD004201091	P-16	Mg dis	8/8/2008	5000	67500	ug/l			6010	
OHD004201091	P-14	Mg dis	2/7/2008	5000	26500	ug/l			6010	
OHD004201091	P-13	Mg dis	8/9/2008	5000	27800	ug/l			6010	
OHD004201091	P-08R	Mg dis	8/8/2008	5000	19200	ug/l			6010	
OHD004201091	P-16T	Mg dis	2/6/2008	5000	65700	ug/l			6010	
OHD004201091	P-08R	Mg dis	2/6/2008	5000	21100	ug/l			6010	
OHD004201091	P-13T	Mg dis	8/9/2008	5000	28000	ug/l			6010	
OHD004201091	P-14	Mg dis	8/9/2008	5000	26800	ug/l			6010	
OHD004201091	P-02T	Mg dis	4/1/2008	5000	98500	ug/l			6010	
OHD004201091	P-12TR	Mg dis	8/9/2008	5000	34000	ug/l			6010	
OHD004201091	P-02	Mg dis	4/2/2008	5000	46700	ug/l			6010	
OHD004201091	P-13	Mg dis	2/7/2008	5000	30900	ug/l			6010	
OHD004201091	P-13T	Mg dis	4/2/2008	5000	55800	ug/l			6010	
OHD004201091	P-02	Mg dis	8/9/2008	5000	38700	ug/l			6010	
OHD004201091	P-16	Mg dis	9/22/2008	5000	64800	ug/l			6010	
OHD004201091	P-16T	Mg dis	4/1/2008	5000	68900	ug/l			6010	
OHD004201091	P-13T	Mg dis	2/7/2008	5000	48700	ug/l			6010	
OHD004201091	P-02T	Mg dis	2/7/2008	5000	105000	ug/l			6010	
OHD004201091	P-08T	Mg dis	2/6/2008	5000	34900	ug/l			6010	
OHD004201091	P-16T	Mg dis	8/8/2008	5000	63000	ug/l			6010	
OHD004201091	P-16	Mg dis	2/6/2008	5000	72900	ug/l			6010	
OHD004201091	P-02	Mg dis	9/23/2008	5000	35600	ug/l	D		6010	
OHD004201091	P-16	Mg dis	4/1/2008	5000	73400	ug/l			6010	
OHD004201091	P-14T	Mg dis	8/9/2008	5000	20900	ug/l			6010	
OHD004201091	P-02T	Mg dis	8/9/2008	5000	98600	ug/l			6010	
OHD004201091	P-12	Mg dis	2/7/2008	5000	17700	ug/l			6010	
OHD004201091	P-12	Mg dis	8/9/2008	5000	15200	ug/l			6010	
OHD004201091	P-02	Mg dis	9/23/2008	5000	36700	ug/l			6010	
OHD004201091	P-13T	Mg dis	4/2/2008	5000	55400	ug/l	D		6010	
OHD004201091	P-16	Mg	2/6/2008	5000	71100	ug/l			6010	
OHD004201091	P-12TR	Mg	2/7/2008	5000	35400	ug/l			6010	
OHD004201091	P-13	Mg	2/7/2008	5000	31600	ug/l			6010	
OHD004201091	P-12TR	Mg	8/9/2008	5000	32800	ug/l			6010	
OHD004201091	P-02T	Mg	8/9/2008	5000	101000	ug/l			6010	
OHD004201091	P-13T	Mg	2/7/2008	5000	45300	ug/l			6010	
OHD004201091	P-02	Mg	8/9/2008	5000	36500	ug/l			6010	
OHD004201091	P-12	Mg	2/7/2008	5000	16100	ug/l			6010	
OHD004201091	P-12	Mg	8/9/2008	5000	13600	ug/l			6010	

FCID	WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	DUP_CODE	REP_CODE	METH_CODE	DATA_QUAL
OHD004201091	P-14	Mg	8/9/2008	5000	26300	ug/l			6010	
OHD004201091	P-14T	Mg	2/7/2008	5000	23200	ug/l	D		6010	
OHD004201091	P-14	Mg	2/7/2008	5000	26600	ug/l			6010	
OHD004201091	P-02	Mg	2/7/2008	5000	43500	ug/l			6010	
OHD004201091	P-08T	Mg	8/8/2008	5000	38300	ug/l			6010	
OHD004201091	P-14T	Mg	2/7/2008	5000	22400	ug/l			6010	
OHD004201091	P-13	Mg	8/9/2008	5000	28800	ug/l			6010	
OHD004201091	P-16T	Mg	2/6/2008	5000	66300	ug/l			6010	
OHD004201091	P-02T	Mg	2/7/2008	5000	104000	ug/l			6010	
OHD004201091	P-08R	Mg	2/6/2008	5000	19600	ug/l			6010	
OHD004201091	P-08R	Mg	8/8/2008	5000	19400	ug/l			6010	
OHD004201091	P-16	Mg	8/8/2008	5000	71600	ug/l			6010	
OHD004201091	P-08T	Mg	2/6/2008	5000	36100	ug/l			6010	
OHD004201091	P-16T	Mg	8/8/2008	5000	65100	ug/l			6010	
OHD004201091	P-13T	Mg	8/9/2008	5000	54000	ug/l			6010	
OHD004201091	P-14T	Mg	8/9/2008	5000	22200	ug/l			6010	
OHD004201091	P-08R	Mg	8/8/2008	5000	19100	ug/l	D		6010	
OHD004201091	P-08T	Mn dis	2/6/2008	15	24	ug/l			6010	
OHD004201091	P-12TR	Mn dis	8/9/2008	15	82	ug/l			6010	
OHD004201091	P-08R	Mn dis	8/8/2008	15	43	ug/l	D		6010	
OHD004201091	P-16	Mn dis	2/6/2008	15	210	ug/l			6010	
OHD004201091	P-12	Mn dis	8/9/2008	15	170	ug/l			6010	
OHD004201091	P-08R	Mn dis	8/8/2008	15	41	ug/l			6010	
OHD004201091	P-08T	Mn dis	8/8/2008	15	240	ug/l			6010	
OHD004201091	P-12	Mn dis	2/7/2008	15	41	ug/l			6010	J
OHD004201091	P-12TR	Mn dis	2/7/2008	15	24	ug/l			6010	
OHD004201091	P-13T	Mn dis	8/9/2008	15	200	ug/l			6010	
OHD004201091	P-14T	Mn dis	2/7/2008	15	100	ug/l			6010	
OHD004201091	P-14	Mn dis	2/7/2008	15	140	ug/l			6010	
OHD004201091	P-16	Mn dis	8/8/2008	15	220	ug/l			6010	
OHD004201091	P-16T	Mn dis	2/6/2008	15	1.2	ug/l			6010	J
OHD004201091	P-14	Mn dis	8/9/2008	15	150	ug/l			6010	
OHD004201091	P-02	Mn dis	2/7/2008	15	250	ug/l			6010	
OHD004201091	P-14T	Mn dis	8/9/2008	15	540	ug/l			6010	
OHD004201091	P-08R	Mn dis	2/6/2008	15	46	ug/l			6010	
OHD004201091	P-02T	Mn dis	8/9/2008	15	390	ug/l			6010	
OHD004201091	P-13	Mn dis	2/7/2008	15	220	ug/l			6010	
OHD004201091	P-13	Mn dis	8/9/2008	15	200	ug/l			6010	
OHD004201091	P-02	Mn dis	8/9/2008	15	360	ug/l			6010	

FCID	WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	DUP_CODE	REP_CODE	METH_CODE	DATA_QUAL
OHD004201091	P-02T	Mn dis	2/7/2008	15	120	ug/l			6010	
OHD004201091	P-14T	Mn dis	2/7/2008	15	130	ug/l	D		6010	
OHD004201091	P-13T	Mn dis	2/7/2008	15	220	ug/l			6010	
OHD004201091	P-16T	Mn dis	8/8/2008	15	0.51	ug/l			6010	J
OHD004201091	P-08T	Mn	2/6/2008	15	35	ug/l			6010	
OHD004201091	P-08R	Mn	8/8/2008	15	42	ug/l			6010	
OHD004201091	P-12	Mn	8/9/2008	15	200	ug/l			6010	
OHD004201091	P-14	Mn	2/7/2008	15	140	ug/l			6010	
OHD004201091	P-12TR	Mn	8/9/2008	15	110	ug/l			6010	
OHD004201091	P-13	Mn	2/7/2008	15	240	ug/l			6010	
OHD004201091	P-08T	Mn	8/8/2008	15	240	ug/l			6010	
OHD004201091	P-14	Mn	8/9/2008	15	150	ug/l			6010	
OHD004201091	P-13	Mn	8/9/2008	15	220	ug/l			6010	
OHD004201091	P-02T	Mn	8/9/2008	15	420	ug/l			6010	
OHD004201091	P-12TR	Mn	2/7/2008	15	30	ug/l			6010	
OHD004201091	P-02	Mn	8/9/2008	15	340	ug/l			6010	
OHD004201091	P-16T	Mn	8/8/2008	15	5	ug/l			6010	J
OHD004201091	P-02T	Mn	2/7/2008	15	150	ug/l			6010	
OHD004201091	P-12	Mn	2/7/2008	15	21	ug/l			6010	J
OHD004201091	P-13T	Mn	8/9/2008	15	820	ug/l			6010	
OHD004201091	P-08R	Mn	2/6/2008	15	44	ug/l			6010	
OHD004201091	P-02	Mn	2/7/2008	15	280	ug/l			6010	
OHD004201091	P-13T	Mn	2/7/2008	15	280	ug/l			6010	
OHD004201091	P-08R	Mn	8/8/2008	15	41	ug/l	D		6010	
OHD004201091	P-16	Mn	2/6/2008	15	220	ug/l			6010	
OHD004201091	P-14T	Mn	2/7/2008	15	830	ug/l	D		6010	
OHD004201091	P-16	Mn	8/8/2008	15	250	ug/l			6010	
OHD004201091	P-14T	Mn	8/9/2008	15	1500	ug/l			6010	
OHD004201091	P-16T	Mn	2/6/2008	15	8.9	ug/l			6010	J
OHD004201091	P-14T	Mn	2/7/2008	15	1100	ug/l			6010	
OHD004201091	P-08R	Ni dis	8/8/2008	40	12	ug/l	D		6010	J
OHD004201091	P-13T	Ni dis	2/7/2008	40	34	ug/l			6010	J
OHD004201091	P-08R	Ni dis	8/8/2008	40	10	ug/l			6010	J
OHD004201091	P-12	Ni dis	8/9/2008	ND<40		ug/l			6010	UJ
OHD004201091	P-02	Ni dis	2/7/2008	40	6.2	ug/l			6010	J
OHD004201091	P-08T	Ni dis	8/8/2008	40	34	ug/l			6010	J
OHD004201091	P-12	Ni dis	2/7/2008	ND<40		ug/l			6010	UJ
OHD004201091	P-12TR	Ni dis	8/9/2008	40	3.5	ug/l			6010	J
OHD004201091	P-16	Ni dis	2/6/2008	40	140	ug/l			6010	

FCID	WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	DUP_CODE	REP_CODE	METH_CODE	DATA_QUAL
OHD004201091	P-08R	Ni dis	2/6/2008	40	11	ug/l			6010	J
OHD004201091	P-12TR	Ni dis	2/7/2008	ND<40		ug/l			6010	UJ
OHD004201091	P-14T	Ni dis	8/9/2008	ND<40		ug/l			6010	UJ
OHD004201091	P-02T	Ni dis	8/9/2008	40	12	ug/l			6010	J
OHD004201091	P-16T	Ni dis	8/8/2008	40	20	ug/l			6010	J
OHD004201091	P-02T	Ni dis	2/7/2008	40	8.4	ug/l			6010	J
OHD004201091	P-13	Ni dis	4/2/2008	40	44	ug/l			6010	
OHD004201091	P-16	Ni dis	4/1/2008	40	110	ug/l			6010	
OHD004201091	P-13	Ni dis	8/9/2008	40	39	ug/l			6010	J
OHD004201091	P-13	Ni dis	2/7/2008	40	42	ug/l			6010	
OHD004201091	P-02	Ni dis	8/9/2008	40	5.3	ug/l			6010	J
OHD004201091	P-16	Ni dis	9/22/2008	40	190	ug/l			6010	
OHD004201091	P-14T	Ni dis	2/7/2008	ND<40		ug/l	D		6010	UJ
OHD004201091	P-16T	Ni dis	2/6/2008	40	25	ug/l			6010	J
OHD004201091	P-14	Ni dis	8/9/2008	ND<40		ug/l			6010	UJ
OHD004201091	P-13T	Ni dis	8/9/2008	40	40	ug/l			6010	
OHD004201091	P-14T	Ni dis	2/7/2008	ND<40		ug/l			6010	UJ
OHD004201091	P-16	Ni dis	8/8/2008	40	160	ug/l			6010	
OHD004201091	P-08T	Ni dis	2/6/2008	ND<40		ug/l			6010	UJ
OHD004201091	P-14	Ni dis	2/7/2008	ND<40		ug/l			6010	UJ
OHD004201091	P-08T	Ni	2/6/2008	40	3.3	ug/l			6010	J
OHD004201091	P-02	Ni	8/9/2008	40	7	ug/l			6010	J
OHD004201091	P-08R	Ni	8/8/2008	40	10	ug/l			6010	J
OHD004201091	P-16	Ni	2/6/2008	40	130	ug/l			6010	
OHD004201091	P-16T	Ni	8/8/2008	40	20	ug/l			6010	J
OHD004201091	P-08T	Ni	8/8/2008	40	31	ug/l			6010	J
OHD004201091	P-02T	Ni	2/7/2008	40	8.7	ug/l			6010	J
OHD004201091	P-13T	Ni	2/7/2008	40	28	ug/l			6010	J
OHD004201091	P-12	Ni	2/7/2008	ND<40		ug/l			6010	UJ
OHD004201091	P-08R	Ni	8/8/2008	40	8.9	ug/l	D		6010	J
OHD004201091	P-13	Ni	2/7/2008	40	46	ug/l			6010	
OHD004201091	P-16T	Ni	2/6/2008	40	23	ug/l			6010	J
OHD004201091	P-13T	Ni	8/9/2008	40	29	ug/l			6010	J
OHD004201091	P-14T	Ni	8/9/2008	ND<40		ug/l			6010	UJ
OHD004201091	P-12TR	Ni	8/9/2008	ND<40		ug/l			6010	UJ
OHD004201091	P-08R	Ni	2/6/2008	40	9.4	ug/l			6010	J
OHD004201091	P-02T	Ni	8/9/2008	40	8.6	ug/l			6010	J
OHD004201091	P-02	Ni	2/7/2008	40	6.2	ug/l			6010	J
OHD004201091	P-14T	Ni	2/7/2008	ND<40		ug/l			6010	UJ

FCID	WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	DUP_CODE	REP_CODE	METH_CODE	DATA_QUAL
OHD004201091	P-12	Ni	8/9/2008	ND<40		ug/l			6010	UJ
OHD004201091	P-14T	Ni	2/7/2008	ND<40		ug/l	D		6010	UJ
OHD004201091	P-16	Ni	8/8/2008	40	150	ug/l			6010	
OHD004201091	P-14	Ni	8/9/2008	ND<40		ug/l			6010	UJ
OHD004201091	P-12TR	Ni	2/7/2008	40	3.6	ug/l			6010	J
OHD004201091	P-14	Ni	2/7/2008	ND<40		ug/l			6010	UJ
OHD004201091	P-13	Ni	8/9/2008	40	40	ug/l			6010	
OHD004201091	P-08T	K dis	8/8/2008	5000	11900	ug/l			6010	
OHD004201091	P-02	K dis	8/9/2008	5000	5400	ug/l			6010	
OHD004201091	P-02T	K dis	2/7/2008	5000	1200	ug/l			6010	J
OHD004201091	P-16	K dis	2/6/2008	5000	2200	ug/l			6010	J
OHD004201091	P-08R	K dis	8/8/2008	5000	4000	ug/l	D		6010	J
OHD004201091	P-16T	K dis	8/8/2008	5000	2000	ug/l			6010	J
OHD004201091	P-16T	K dis	2/6/2008	5000	1600	ug/l			6010	J
OHD004201091	P-08R	K dis	2/6/2008	5000	3700	ug/l			6010	J
OHD004201091	P-14	K dis	2/7/2008	5000	1200	ug/l			6010	J
OHD004201091	P-08T	K dis	9/22/2008	5000	14500	ug/l			6010	
OHD004201091	P-13	K dis	2/7/2008	5000	2500	ug/l			6010	J
OHD004201091	P-08R	K dis	8/8/2008	5000	4300	ug/l			6010	J
OHD004201091	P-13T	K dis	4/2/2008	5000	11900	ug/l			6010	
OHD004201091	P-02	K dis	9/23/2008	5000	4700	ug/l	D		6010	J
OHD004201091	P-12TR	K dis	2/7/2008	5000	2100	ug/l			6010	J
OHD004201091	P-02T	K dis	8/9/2008	5000	1400	ug/l			6010	J
OHD004201091	P-12	K dis	2/7/2008	5000	3600	ug/l			6010	J
OHD004201091	P-02	K dis	9/23/2008	5000	5100	ug/l			6010	
OHD004201091	P-14T	K dis	2/7/2008	5000	1000	ug/l	D		6010	J
OHD004201091	P-13T	K dis	4/2/2008	5000	11900	ug/l	D		6010	
OHD004201091	P-13	K dis	8/9/2008	5000	3000	ug/l			6010	J
OHD004201091	P-08T	K dis	4/1/2008	5000	9800	ug/l			6010	
OHD004201091	P-08T	K dis	2/6/2008	5000	8500	ug/l			6010	
OHD004201091	P-12TR	K dis	8/9/2008	5000	3000	ug/l			6010	J
OHD004201091	P-14	K dis	8/9/2008	5000	1500	ug/l			6010	J
OHD004201091	P-12	K dis	8/9/2008	5000	4600	ug/l			6010	J
OHD004201091	P-02	K dis	2/7/2008	5000	4300	ug/l			6010	J
OHD004201091	P-14T	K dis	2/7/2008	5000	1100	ug/l			6010	J
OHD004201091	P-13T	K dis	2/7/2008	5000	8200	ug/l			6010	
OHD004201091	P-16	K dis	8/8/2008	5000	2700	ug/l			6010	J
OHD004201091	P-14T	K dis	8/9/2008	5000	1600	ug/l			6010	J
OHD004201091	P-13T	K dis	8/9/2008	5000	2900	ug/l			6010	J

FCID	WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	DUP_CODE	REP_CODE	METH_CODE	DATA_QUAL
OHD004201091	P-02	K	2/7/2008	5000	4400	ug/l			6010	J
OHD004201091	P-13	K	8/9/2008	5000	3000	ug/l			6010	J
OHD004201091	P-16T	K	2/6/2008	5000	1400	ug/l			6010	J
OHD004201091	P-12TR	K	8/9/2008	5000	2900	ug/l			6010	J
OHD004201091	P-08T	K	2/6/2008	5000	8500	ug/l			6010	
OHD004201091	P-16	K	2/6/2008	5000	2000	ug/l			6010	J
OHD004201091	P-02T	K	2/7/2008	5000	1100	ug/l			6010	J
OHD004201091	P-02T	K	8/9/2008	5000	1400	ug/l			6010	J
OHD004201091	P-08R	K	2/6/2008	5000	3300	ug/l			6010	J
OHD004201091	P-14T	K	8/9/2008	5000	1500	ug/l			6010	J
OHD004201091	P-08T	K	8/8/2008	5000	11000	ug/l			6010	
OHD004201091	P-12	K	2/7/2008	5000	3800	ug/l			6010	J
OHD004201091	P-14T	K	2/7/2008	5000	1000	ug/l	D		6010	J
OHD004201091	P-13T	K	8/9/2008	5000	14100	ug/l			6010	
OHD004201091	P-12TR	K	2/7/2008	5000	2100	ug/l			6010	J
OHD004201091	P-02	K	8/9/2008	5000	4900	ug/l			6010	J
OHD004201091	P-14	K	8/9/2008	5000	1500	ug/l			6010	J
OHD004201091	P-08R	K	8/8/2008	5000	4100	ug/l	D		6010	J
OHD004201091	P-12	K	8/9/2008	5000	4900	ug/l			6010	J
OHD004201091	P-08R	K	8/8/2008	5000	4200	ug/l			6010	J
OHD004201091	P-14T	K	2/7/2008	5000	1000	ug/l			6010	J
OHD004201091	P-13T	K	2/7/2008	5000	9100	ug/l			6010	
OHD004201091	P-16	K	8/8/2008	5000	2600	ug/l			6010	J
OHD004201091	P-16T	K	8/8/2008	5000	1900	ug/l			6010	J
OHD004201091	P-13	K	2/7/2008	5000	2200	ug/l			6010	J
OHD004201091	P-14	K	2/7/2008	5000	1200	ug/l			6010	J
OHD004201091	P-14	Na	8/9/2008	5	9.1	mg/l			6010	
OHD004201091	P-16T	Na	2/6/2008	5	63.7	mg/l			6010	
OHD004201091	P-14T	Na	2/7/2008	5	14.8	mg/l	D		6010	
OHD004201091	P-14T	Na	2/7/2008	5	15.4	mg/l			6010	
OHD004201091	P-12	Na	8/9/2008	5	126	mg/l			6010	
OHD004201091	P-08T	Na	8/8/2008	5	63.9	mg/l			6010	
OHD004201091	P-02	Na	2/7/2008	5	105	mg/l			6010	
OHD004201091	P-16T	Na	8/8/2008	5	42.8	mg/l			6010	
OHD004201091	P-08T	Na	2/6/2008	5	10.4	mg/l			6010	J
OHD004201091	P-14	Na	2/7/2008	5	8.2	mg/l			6010	
OHD004201091	P-12	Na	2/7/2008	5	115	mg/l			6010	
OHD004201091	P-12TR	Na	2/7/2008	5	50.4	mg/l			6010	
OHD004201091	P-02	Na	8/9/2008	5	107	mg/l			6010	

FCID	WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	DUP_CODE	REP_CODE	METH_CODE	DATA_QUAL
OHD004201091	P-13	Na	2/7/2008	5	41.1	mg/l			6010	
OHD004201091	P-16	Na	8/8/2008	5	60.6	mg/l			6010	
OHD004201091	P-08R	Na	2/6/2008	5	174	mg/l			6010	
OHD004201091	P-13T	Na	8/9/2008	5	30.3	mg/l			6010	
OHD004201091	P-12TR	Na	8/9/2008	5	48.7	mg/l			6010	
OHD004201091	P-13T	Na	2/7/2008	5	23.2	mg/l			6010	J
OHD004201091	P-13	Na	8/9/2008	5	38	mg/l			6010	
OHD004201091	P-14T	Na	8/9/2008	5	13.9	mg/l			6010	
OHD004201091	P-02T	Na	8/9/2008	5	46.5	mg/l			6010	
OHD004201091	P-08R	Na	8/8/2008	5	180	mg/l			6010	
OHD004201091	P-02T	Na	2/7/2008	5	48.5	mg/l			6010	
OHD004201091	P-08R	Na	8/8/2008	5	177	mg/l	D		6010	
OHD004201091	P-16	Na	2/6/2008	5	65.1	mg/l			6010	
OHD004201091	P-08T	Na dis	2/6/2008	5	19	mg/l			6010	J
OHD004201091	P-14T	Na dis	8/9/2008	5	15.4	mg/l			6010	
OHD004201091	P-14T	Na dis	2/7/2008	5	15.1	mg/l	D		6010	
OHD004201091	P-13	Na dis	8/9/2008	5	36.9	mg/l			6010	
OHD004201091	P-16	Na dis	2/6/2008	5	67.3	mg/l			6010	
OHD004201091	P-16T	Na dis	4/1/2008	5	60.1	mg/l			6010	
OHD004201091	P-16	Na dis	8/8/2008	5	61.2	mg/l			6010	
OHD004201091	P-08T	Na dis	9/22/2008	5	31	mg/l			6010	
OHD004201091	P-08R	Na dis	8/8/2008	5	174	mg/l	D		6010	
OHD004201091	P-08R	Na dis	2/6/2008	5	183	mg/l			6010	
OHD004201091	P-08R	Na dis	9/22/2008	5	176	mg/l			6010	
OHD004201091	P-08R	Na dis	4/1/2008	5	191	mg/l			6010	
OHD004201091	P-14T	Na dis	2/7/2008	5	14.1	mg/l			6010	
OHD004201091	P-08R	Na dis	8/8/2008	5	179	mg/l			6010	
OHD004201091	P-12TR	Na dis	8/9/2008	5	52.5	mg/l			6010	
OHD004201091	P-13T	Na dis	2/7/2008	5	32.6	mg/l			6010	J
OHD004201091	P-13T	Na dis	8/9/2008	5	36.8	mg/l			6010	
OHD004201091	P-14	Na dis	2/7/2008	5	7.9	mg/l			6010	
OHD004201091	P-12	Na dis	2/7/2008	5	104	mg/l			6010	
OHD004201091	P-14	Na dis	8/9/2008	5	9.5	mg/l			6010	
OHD004201091	P-02	Na dis	2/7/2008	5	103	mg/l			6010	
OHD004201091	P-02T	Na dis	2/7/2008	5	48.8	mg/l			6010	
OHD004201091	P-16T	Na dis	8/8/2008	5	42.7	mg/l			6010	
OHD004201091	P-08T	Na dis	8/8/2008	5	67.2	mg/l			6010	
OHD004201091	P-12	Na dis	8/9/2008	5	115	mg/l			6010	
OHD004201091	P-02	Na dis	8/9/2008	5	112	mg/l			6010	

FCID	WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	DUP_CODE	REP_CODE	METH_CODE	DATA_QUAL
OHD004201091	P-16T	Na dis	2/6/2008	5	65.2	mg/l			6010	
OHD004201091	P-13	Na dis	2/7/2008	5	38.3	mg/l			6010	
OHD004201091	P-02T	Na dis	8/9/2008	5	45.4	mg/l			6010	
OHD004201091	P-12TR	Na dis	2/7/2008	5	51.3	mg/l			6010	
OHD004201091	P-02T	Sulfate	9/23/2008	5	680	mg/l			E300-28DAY	
OHD004201091	P-02	Sulfate	8/9/2008	5	225	mg/l			E300-28DAY	
OHD004201091	P-14	Sulfate	8/9/2008	2	64.5	mg/l			E300-28DAY	
OHD004201091	P-16T	Sulfate	4/1/2008	5	684	mg/l			E300-28DAY	
OHD004201091	P-08R	Sulfate	2/6/2008	5	43.8	mg/l			E300-28DAY	
OHD004201091	P-08T	Sulfate	2/6/2008	1	126	mg/l			E300-28DAY	
OHD004201091	P-02T	Sulfate	4/1/2008	5	716	mg/l			E300-28DAY	
OHD004201091	P-13T	Sulfate	4/2/2008	5	379	mg/l			E300-28DAY	
OHD004201091	P-02T	Sulfate	2/7/2008	5	660	mg/l			E300-28DAY	
OHD004201091	P-13T	Sulfate	4/2/2008	5	377	mg/l	D		E300-28DAY	
OHD004201091	P-14T	Sulfate	8/9/2008	1	47.1	mg/l			E300-28DAY	
OHD004201091	P-16	Sulfate	9/22/2008	5	515	mg/l			E300-28DAY	
OHD004201091	P-13	Sulfate	2/7/2008	1	126	mg/l			E300-28DAY	
OHD004201091	P-13	Sulfate	8/9/2008	2	117	mg/l			E300-28DAY	
OHD004201091	P-13T	Sulfate	8/9/2008	2	215	mg/l			E300-28DAY	
OHD004201091	P-16T	Sulfate	8/8/2008	5	573	mg/l			E300-28DAY	
OHD004201091	P-16	Sulfate	2/6/2008	5	548	mg/l			E300-28DAY	
OHD004201091	P-14T	Sulfate	2/7/2008	1	47.1	mg/l			E300-28DAY	
OHD004201091	P-12	Sulfate	8/9/2008	1	79	mg/l			E300-28DAY	
OHD004201091	P-08R	Sulfate	8/8/2008	5	34.3	mg/l			E300-28DAY	
OHD004201091	P-12TR	Sulfate	8/9/2008	5	110	mg/l			E300-28DAY	
OHD004201091	P-16T	Sulfate	2/6/2008	5	641	mg/l			E300-28DAY	
OHD004201091	P-02T	Sulfate	8/9/2008	5	679	mg/l			E300-28DAY	
OHD004201091	P-12	Sulfate	2/7/2008	1	85.3	mg/l			E300-28DAY	
OHD004201091	P-08R	Sulfate	8/8/2008	5	35.9	mg/l	D		E300-28DAY	
OHD004201091	P-16	Sulfate	4/1/2008	5	604	mg/l			E300-28DAY	
OHD004201091	P-12TR	Sulfate	2/7/2008	1	151	mg/l			E300-28DAY	
OHD004201091	P-08T	Sulfate	8/8/2008	5	160	mg/l			E300-28DAY	
OHD004201091	P-16	Sulfate	8/8/2008	5	512	mg/l			E300-28DAY	
OHD004201091	P-02	Sulfate	2/7/2008	5	284	mg/l			E300-28DAY	
OHD004201091	P-16T	Sulfate	9/22/2008	5	592	mg/l			E300-28DAY	
OHD004201091	P-14T	Sulfate	2/7/2008	1	47.4	mg/l	D		E300-28DAY	
OHD004201091	P-13T	Sulfate	2/7/2008	5	377	mg/l			E300-28DAY	
OHD004201091	P-14	Sulfate	2/7/2008	1	65.7	mg/l			E300-28DAY	
OHD004201091	P-08T	TDS	8/8/2008	10000	740000	ug/l			E160.1	

FCID	WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	DUP_CODE	REP_CODE	METH_CODE	DATA_QUAL
OHD004201091	P-14T	TDS	8/9/2008	10000	440000	ug/l			E160.1	
OHD004201091	P-16T	TDS	8/8/2008	10000	1200000	ug/l			E160.1	
OHD004201091	P-13	TDS	8/9/2008	10000	680000	ug/l			E160.1	
OHD004201091	P-12TR	TDS	8/9/2008	10000	610000	ug/l			E160.1	
OHD004201091	P-14	TDS	8/9/2008	10000	480000	ug/l			E160.1	
OHD004201091	P-08R	TDS	8/8/2008	10000	820000	ug/l			E160.1	
OHD004201091	P-02	TDS	8/9/2008	10000	790000	ug/l			E160.1	
OHD004201091	P-02T	TDS	8/9/2008	20000	1400000	ug/l			E160.1	
OHD004201091	P-13T	TDS	8/9/2008	10000	750000	ug/l			E160.1	
OHD004201091	P-16	TDS	8/8/2008	10000	1300000	ug/l			E160.1	
OHD004201091	P-08R	TDS	8/8/2008	10000	800000	ug/l	D		E160.1	
OHD004201091	P-12	TDS	8/9/2008	10000	540000	ug/l			E160.1	
OHD004201091	P-16	TSS	8/8/2008	4000	10000	ug/l			E160.2	
OHD004201091	P-02T	TSS	8/9/2008	4000	3000	ug/l			E160.2	J
OHD004201091	P-08R	TSS	8/8/2008	ND<4000		ug/l			E160.2	UJ
OHD004201091	P-12TR	TSS	8/9/2008	ND<4000		ug/l			E160.2	UJ
OHD004201091	P-13T	TSS	8/9/2008	4000	530000	ug/l			E160.2	
OHD004201091	P-16T	TSS	8/8/2008	ND<4000		ug/l			E160.2	UJ
OHD004201091	P-02	TSS	8/9/2008	4000	3000	ug/l			E160.2	J
OHD004201091	P-14	TSS	8/9/2008	4000	5000	ug/l			E160.2	
OHD004201091	P-12	TSS	8/9/2008	ND<4000		ug/l			E160.2	UJ
OHD004201091	P-14T	TSS	8/9/2008	4000	6000	ug/l			E160.2	
OHD004201091	P-13	TSS	8/9/2008	4000	3000	ug/l			E160.2	J
OHD004201091	P-08T	TSS	8/8/2008	ND<4000		ug/l			E160.2	UJ
OHD004201091	P-08R	TSS	8/8/2008	ND<4000		ug/l	D		E160.2	UJ
OHD004201091	P-01	GWL	2/6/2008		738.81	feet				
OHD004201091	P-01	GWL	8/8/2008		737.88	feet				
OHD004201091	P-01T	GWL	2/6/2008		740.51	feet				
OHD004201091	P-02	GWL	2/6/2008		743.56	feet				
OHD004201091	P-02	GWL	8/8/2008		742.94	feet				
OHD004201091	P-02T	GWL	2/6/2008		743.55	feet				
OHD004201091	P-02T	GWL	8/8/2008		742.99	feet				
OHD004201091	P-03R	GWL	2/6/2008		743.96	feet				
OHD004201091	P-03R	GWL	8/8/2008		743.08	feet				
OHD004201091	P-03T	GWL	2/6/2008		743.74	feet				
OHD004201091	P-03T	GWL	8/8/2008		743.07	feet				
OHD004201091	P-08R	GWL	2/6/2008		743.68	feet				
OHD004201091	P-08R	GWL	8/8/2008		743.66	feet				
OHD004201091	P-08T	GWL	2/6/2008		744.31	feet				

FCID	WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	DUP_CODE	REP_CODE	METH_CODE	DATA_QUAL
OHD004201091	P-08T	GWL	8/8/2008		743.31	feet				
OHD004201091	P-11	GWL	2/6/2008		742.23	feet				
OHD004201091	P-11	GWL	8/8/2008		741.26	feet				
OHD004201091	P-12	GWL	2/6/2008		748.92	feet				
OHD004201091	P-12	GWL	8/8/2008		744.12	feet				
OHD004201091	P-12TR	GWL	2/6/2008		749.38	feet				
OHD004201091	P-12TR	GWL	8/8/2008		744.3	feet				
OHD004201091	P-13	GWL	2/6/2008		747.23	feet				
OHD004201091	P-13	GWL	8/8/2008		743.65	feet				
OHD004201091	P-13T	GWL	2/6/2008		747.95	feet				
OHD004201091	P-13T	GWL	8/8/2008		743.65	feet				
OHD004201091	P-14	GWL	2/6/2008		748.71	feet				
OHD004201091	P-14	GWL	8/8/2008		744.85	feet				
OHD004201091	P-14T	GWL	2/6/2008		749	feet				
OHD004201091	P-14T	GWL	8/8/2008		744.87	feet				
OHD004201091	P-15	GWL	2/6/2008		749.3	feet				
OHD004201091	P-15	GWL	8/8/2008		744.29	feet				
OHD004201091	P-16T	GWL	2/6/2008		739.48	feet				
OHD004201091	P-16T	GWL	8/8/2008		738.24	feet				
OHD004201091	P-15T	GWL	2/6/2008		749.3	feet				
OHD004201091	P-15T	GWL	8/8/2008		744.26	feet				
OHD004201091	P-16	GWL	2/6/2008		739.43	feet				
OHD004201091	P-16	GWL	8/8/2008		737.91	feet				
OHD004201091	P-17	GWL	2/6/2008		749.04	feet				
OHD004201091	P-17	GWL	8/8/2008		744.15	feet				
OHD004201091	P-18	GWL	2/6/2008		744.62	feet				
OHD004201091	P-18	GWL	8/8/2008		744.83	feet				
OHD004201091	P-19	GWL	2/6/2008		743.36	feet				
OHD004201091	P-19	GWL	8/8/2008		743.42	feet				
OHD004201091	P-20	GWL	2/6/2008		741.03	feet				
OHD004201091	P-20	GWL	8/8/2008		739.69	feet				
OHD004201091	P-21	GWL	2/6/2008		742.38	feet				
OHD004201091	P-21	GWL	8/8/2008		741.54	feet				

APPENDIX B

GROUNDWATER FLOW VELOCITY CALCULATIONS

TABLE B.1

GROUNDWATER FLOW RATE IN TILL CONTACT WATER-BEARING ZONE
CLOSED LANDFILL
ELYRIA, OHIO

Gradient	$I = \frac{(749.38-739.48)}{655} = 0.015$ ft/ft	6-Feb-08
	$I = \frac{(744.87-738.24)}{657} = 0.010$ ft/ft	8-Aug-08
	$I = \frac{0.015 + 0.010}{2} = 0.013$ ft/ft	Average
Hydraulic Conductivity	$K = 4.1 \times 10^{-4}$ cm/sec = 1.16 ft/day	
Porosity	n = 0.15 *	
Flow Rate	$v = \frac{(1.16 \text{ ft/day}) \times (0.013 \text{ ft/ft})}{0.15}$	
	v = 36.7 ft/yr	

Note:

* Value for sandstone. Till contact wells are partially screened in clay till and partially screened in sandstone. The porosity for sandstone will provide a more conservative value for velocity.

TABLE B.2

GROUNDWATER FLOW RATE IN BEDROCK WATER-BEARING ZONE
CLOSED LANDFILL
ELYRIA, OHIO

Gradient

$$I = \frac{(749.30-738.81)}{863} = 0.012 \text{ ft/ft}$$ 6-Feb-08

$$I = \frac{(744.85-737.88)}{669} = 0.010 \text{ ft/ft}$$ 8-Aug-08

$$I = \frac{0.011 + 0.012}{2} = 0.011 \text{ ft/ft}$$ Average

Hydraulic Conductivity

$K = 1.9 \times 10^{-4}$ cm/sec $= 5.4 \times 10^{-1}$ ft/day

Porosity

$n = 0.15$

Flow Rate

$$v = \frac{(0.54 \text{ ft/day}) \times (0.011 \text{ ft/ft})}{0.15}$$

v = 14.5 ft/yr

APPENDIX C

WELL PURGE FORMS

APPENDIX C-1

WELL PURGE FORMS – FEBRUARY 2008
(SEMI-ANNUAL EVENT)

01 (1540)

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: REALM ELYRIA
Ref. No.: 12616.71.501D1

Date: 2.6.08
Personnel: D. NEWTON

Monitoring Well Data:

Well No.: R-BT
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 7.41

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
1500	200	7.41	—	6.87	5.78	0.751	151	2.69	38		
1510	↓	↓	0	6.84	5.91	0.746	91	1.73	19		
1520			0	6.83	5.94	0.744	69	1.24	8.3		
1525			0	6.81	5.86	0.743	54	0.912	5.72		
1535			0	6.79	5.81	0.742	49	0.871	5.24		
1540	collect sample										

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

02 (1635)

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: REALM ELYRIA
Ref. No.: 12616.71.501011

Date: 2-6-08
Personnel: D. Newton

Monitoring Well Data:

Well No.: P-8R
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 7.41

Time	*Pumping Rate (mL/min)*	*Depth to Water (ft)*	*Drawdown from Initial Water Level*[3] *(ft)*	*pH*	*Temperature °C*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*	*Volume Purged, V_p (mL)*	*No. of Well Screen Volumes Purged*[4]
1555	200	7.41	—	7.33	6.11	1.07	159	2.39	47		
1605	↓	↓	0	7.35	6.24	1.09	140	2.10	19		
1615			0	7.32	6.29	1.09	131	1.79	8.33		
1625			0	7.35	6.35	1.10	127	1.52	5.74		
1635	collect sample										

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s=p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= V_p/V_s.

03 (1750)

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: REAM ELYRIA
Ref. No.:

Date: 2-6-08
Personnel: D. Newton

Monitoring Well Data:

Well No.: P-16
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 8.19

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
1655	150	8.19	—	— No readings - flow meter				—	64		
1705	150	8.19	0	—	"	"	"	—	43		
1710	150	8.19	0	7.56	6.59	1.24	121	2.03	20		
1720	↓	↓	↓	7.40	6.54	1.23	110	1.80	13		
1730				7.33	6.38	1.23	103	1.59	7.73		
1740	↓	↓	↓	7.24	6.31	1.23	95	1.49	5.64		
1750	collect sample										

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s=p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

(1805) #04

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: REALM ELYRIA

Ref. No.: 126671.50101

Date: 2-6-08

Personnel: D Nestor

Monitoring Well Data:

Well No.: P-16T

Measurement Point:

Constructed Well Depth (ft):

Measured Well Depth (ft):

Depth of Sediment (ft):

Screen Length (ft):

Depth to Pump Intake (ft)[1]:

Well Diameter, D (in):

Well Screen Volume, V_s (mL)[2]:

Initial Depth to Water (ft): 7.92

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
1730	100	7.92	—	7.12	5.89	1.79	55	1.01	24.3		
1740	↓	7.95	0.03	7.09	5.87	1.78	47	0.88	18.6		
1750		7.98	0.06	7.07	5.90	1.78	39	0.62	7.11		
1800		8.02	0.10	7.06	5.92	1.77	34	0.51	5.74		
1805	Collect	Sample									

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

05 (0826)

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: REALM ELYRIA

Ref. No.: 12816-71.501011

Date: 2-7-08

Personnel: D. Newton

Monitoring Well Data:

Well No.: P-2

Measurement Point:

Constructed Well Depth (ft):

Measured Well Depth (ft):

Depth of Sediment (ft):

Screen Length (ft):

Depth to Pump Intake (ft)[1]:

Well Diameter, D (in):

Well Screen Volume, V_s (mL)[2]:

Initial Depth to Water (ft): 5.31

start pump 0725

Time	*Pumping Rate (mL/min)*	*Depth to Water (ft)*	*Drawdown from Initial Water Level[3] (ft)*	*pH*	*Temperature °C*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*	*Volume Purged, Vp (mL)*	*No. of Well Screen Volumes Purged[4]*
0735	100	5.31	—	6.96	7.44	0.831	93.8	3.30	19		
0745	↓	5.33	0.02	6.98	7.45	0.817	79.3	2.38	12		
0755		5.36	0.04	6.99	7.29	0.803	71.2	1.84	7.1		
0805		5.39	0.08	7.03	7.21	0.793	64	1.13	6.2		
0815		5.41	0.10	7.05	7.15	0.791	56.2	0.99	5.9		
0820	collect	sample									

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s=p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

06 (0900)

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: REALM ELYRIA
Ref. No.: 12816-71-SO1011

Date: 2.7.08
Personnel: D. NEWTON

Monitoring Well Data:

Well No.: P-2T
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 6.25

start 0800

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
0815	100	6.25	0	6.93	6.96	1.209	141	6.27	41		
0825	↓	6.27	0.02	6.94	6.94	1.225	138	6.25	32		
0835	↓	6.30	0.05	6.95	6.81	1.203	131	6.21	18		
0845	↓	6.32	0.07	6.97	6.54	1.19	120	6.11	12		
0855	↓	6.34	0.09	6.96	6.52	1.17	114	6.06	9.31		
0900	collect sample										

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

#07 (1020)

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: REALM ELYRIA

Ref. No.:

Date: 7.7.08

Personnel: D. NEWTON

Monitoring Well Data:

Well No.: P-13

Measurement Point:

Constructed Well Depth (ft):

Measured Well Depth (ft):

Depth of Sediment (ft):

Screen Length (ft):

Depth to Pump Intake (ft)[1]:

Well Diameter, D (in):

Well Screen Volume, V_s (mL)[2]:

Initial Depth to Water (ft): 3.71

start 0935

Time	*Pumping Rate (mL/min)*	*Depth to Water (ft)*	*Drawdown from Initial Water Level*[3] *(ft)*	*pH*	*Temperature °C*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*	*Volume Purged, Vp (mL)*	*No. of Well Screen Volumes Purged*[4]
0950	125	3.71	—	6.87	6.09	0.630	-3.2	3.41	13		
1000	125	3.71	0	6.85	6.02	0630	-5.8	2.91	7.3		
1010	125	3.71	0	6.82	5.98	0.630	-11.9	0.54	5.1		
1020	125	3.71	0	6.81	6.01	0.630	-13.8	0.29	4.5		
—	collect sample										

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

6B (1055)

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: REALM ELYRIA
Ref. No.: 12616.71.501011

Date: 2.7.08
Personnel: D. NEWTON

Monitoring Well Data:

Well No.: P-13T
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 2.88

(purge 20 min prior to hook up)

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, Vp (mL)	No. of Well Screen Volumes Purged[4]
0945	100	2.88	—	6.64	4.24	0.730	88.1	1.17	73		
0955	↓	↓	0	6.68	4.30	0.724	72.4	1.03	59		
1005			↓	6.73	4.20	0.720	56.3	0.89	46		
1015				6.75	4.04	0.717	43.6	0.71	30		
1025				6.77	4.09	0.714	31.9	0.52	22	clear	
1035	↓	↓	↓	6.74	4.06	0.711	24.6	0.46	24	"	
1045				6.76	4.03	0.709	19.8	0.41	20	"	
1055	→ collect sample										

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

09/MSD (1235)

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: REALM ELYRIA
Ref. No.: 12616.71.501011

Date: 2.7.08
Personnel: D. NEWTON

Monitoring Well Data:

Well No.: P-12
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 2.91

start 1125

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
1140	200	2.91	→	6.94	7.05	0.532	98	3.16	38		
1150	200	2.91	0	6.92	7.07	0.541	87.1	2.88	22		
1200	200	2.91	0	7.03	7.57	0.545	70.5	2.44	15		
1210	↓	↓	↓	7.04	7.48	0.547	63	1.82	10		
1220				7.06	7.43	0.548	50	1.56	5.9		
1230	↓	↓	↓	7.02	7.36	0.548	46	1.40	5.3		
1235	collect	sample									

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= V_p/V_s.

10 (1310)

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: REALM ELMIRA
Ref. No.: 12616.71.501611

Date: 3-7.08
Personnel: D. NEWTON

Monitoring Well Data:

Well No.: P-12TR
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 2.84

start 1205

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
1215	200	2.84	0	6.61	7.18	0.662	206	6.93	17		
1225	200	2.84	0	6.63	7.10	0.661	180	5.71	9.1		
1235	200	2.84	0	6.65	7.06	0.661	155	2.81	6.3		
1245	↓	↓	↓	6.67	7.01	0.661	87	1.84	4.8		
1255				6.69	7.02	0.660	69	1.32	2.2		
1305	↓	↓	↓	6.73	6.99	0.660	58	1.13	2.8		
1310	collect		sample								

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s=p^*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

11 (1445)

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: PFAIM FLORIDA
Ref. No.: 12616.77.50101

Date: 2.7.08
Personnel: D. Newton

Monitoring Well Data:

Well No.: P-14
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 2.93

start 1340

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
1355	200	2.93	–	6.95	7.56	0.46	4.4	0.352	98		
1410	200	2.93	0	6.91	7.57	0.47	3.2	0.411	76		
1420	↓	↓	↓	6.83	7.59	0.48	-7	0.97	61		
1430				6.77	7.55	0.48	-12	1.06	50		
1440				6.79	7.53	0.48	-14	1.14	46		
1445	collect	sample									

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s=p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

12/13 1520/1650

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: REALM ELYRIA
Ref. No.: 12616.71.501011

Date: 2.7.08
Personnel: D. Morton

Monitoring Well Data:

Well No.: P-14T
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 2.68

start 1430

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, Vp (mL)	No. of Well Screen Volumes Purged[4]
1450	200	2.68	—	6.79	6.11	0.432	174	2.75	14		
1500	↑	↓	0	6.76	6.04	0.432	171	1.65	9.2		
1510			0	6.67	5.76	0.431	166	1.34	4.3		
1520	↓	↓	0	6.68	5.73	0.431	161	1.26	3.09		
1520	collect sample										

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s=p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

APPENDIX C-2

WELL PURGE FORMS – APRIL 2008
(CONFIRMATION EVENT)

(Confirmation Sampling)

Field File 01 (1340)

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: REALM ELYRIA
Ref. No.: 126671.501013

Date: 4.1.08
Personnel: D. NEWTON

Monitoring Well Data:

Well No.: P-8R
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 5.89

Time	*Pumping Rate (mL/min)*	*Depth to Water (ft)*	*Drawdown from Initial Water Level*[3] *(ft)*	*pH*	*Temperature °C*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*	*Volume Purged, Vp (mL)*	*No. of Well Screen Volumes Purged*[4]
1245	150	5.89	—	6.80	10.3	1.54	.42	445	31.1		
1255	↓	↓	↓	6.82	10.1	1.54	28	390	22.3		
1305				6.87	10.3	1.53	.12	2.12	13.6		
1315				6.94	10.2	1.52	-.18	1.94	7.19		
1325				7.03	10.2	1.53	-.26	1.93	4.73		
1335	↓	↓	↓	7.05	10.4	1.52	-.35	1.69	3.37		
1340	collect	sample									

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

02 (1500)

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: REALM ELYRIA
Ref. No.: 12616-71-50101-3

Date: 4.1.08
Personnel: D NEWTON

Monitoring Well Data:

Well No.: P-8T
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 5.11

Time	*Pumping Rate (mL/min)*	*Depth to Water (ft)*	*Drawdown from Initial Water Level (ft)*[3]	*pH*	*Temperature °C*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*	*Volume Purged, Vp (mL)*	*No. of Well Screen Volumes Purged*[4]
1415	150	5.11	—	6.56	9.7	0.984	138	2.79	21.3		
1425	↓	↓	↓	6.57	9.4	0.983	109	2.37	15.6		
1435				6.59	9.2	0.982	94	2.01	9.31		
1445				6.55	8.9	0.978	77	1.61	6.78		
1455	↓	↓	↓	6.57	8.8	0.977	45	1.28	4.41		
1500	collect	sample									

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: REALM ELVIRIA
Ref. No.: 12016.76-501013

Date: 4.1.08
Personnel: D. Newton

Monitoring Well Data:

Well No.: P-16
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 7.04

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
1530	150	7.04	—	6.90	9.6	1.88	81	7.99	121.2		
1540	150	7.14	0.10	6.87	9.5	1.88	57	7.02	93.5		
1550	150	7.19	0.15	6.83	9.8	1.88	32	5.15	71.7		
1600	100	7.27	0.23	6.84	9.4	1.89	25	4.61	48.4		
1610	100	7.36	0.34	6.85	9.1	1.89	18	3.58	40.3		
1620	100	7.46	0.42	6.86	9.2	1.89	13	3.02	36.7		
1625	100	7.51	0.47	6.87	9.0	1.89	8	2.11	34.8		
1630	100	7.56	0.52	6.88	8.9	1.90	6	1.72	29.3		
1635	Collect	sample									

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: REALM ELYRIA
Ref. No.: 12616-71.501013

Date: 4.1.08
Personnel: D. NEWTON

Monitoring Well Data:

Well No.: P-16T
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 6.82

Time	*Pumping Rate (mL/min)*	*Depth to Water (ft)*	*Drawdown from Initial Water Level*[3] *(ft)*	*pH*	*Temperature °C*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*	*Volume Purged, Vp (mL)*	*No. of Well Screen Volumes Purged*[4]
1710	100	6.82	—	6.99	7.8	1.86	93	4.98	50.1		
1720	100	6.73	0.11	6.97	7.6	1.82	97	4.72	27.2		
1730	100	6.99	0.17	6.95	7.5	1.80	106	4.34	11.9		
1740	100	7.08	0.26	6.94	7.7	1.78	112	3.91	6.54		
1750	100	7.17	0.35	6.95	7.8	1.76	120	3.61	5.56		
1800	100	7.25	0.43	6.95	7.5	1.78	126	3.74	5.07		
1810	100	7.31	0.49	6.97	7.4	1.77	128	3.79	5.32		
1815	100	7.39	0.57	6.96	7.3	1.77	130	3.95	4.68		
1820	collect	sample									

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

05 (1930)

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: REALM ELYRIA
Ref. No.: 12616-71-50103

Date: 4.1.08
Personnel: D. NEWTON

Monitoring Well Data:

Well No.: P-2T
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 5.60

Time	*Pumping Rate (mL/min)*	*Depth to Water (ft)*	*Drawdown from Initial Water Level*[3] *(ft)*	*pH*	*Temperature °C*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*	*Volume Purged, Vp (mL)*	*No. of Well Screen Volumes Purged*[4]
1840	100	5.60	—	7.09	7.7	2.10	167	7.03	40.1		
1850	100	5.69	0.09	7.05	7.7	2.10	153	6.21	23.2		
1900	100	5.77	0.17	6.99	7.8	2.10	147	4.54	11.93		
1910	100	5.85	0.25	6.95	7.8	2.10	138	3.90	7.22		
1920	100	5.94	0.34	6.93	8.1	2.10	112	3.34	5.91		
1925	100	6.01	0.41	6.95	8.0	2.10	108	3.12	5.13		
1930	collect sample										

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s=p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= V_p/V_s.

06 (0810)

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: REALM ELYRIA

Ref. No.: 12616-71-501013

Date: 4.2.08

Personnel: D. Newton

Monitoring Well Data:

Well No.: P-2

Measurement Point:

Constructed Well Depth (ft):

Measured Well Depth (ft):

Depth of Sediment (ft):

Screen Length (ft):

Depth to Pump Intake (ft)[1]:

Well Diameter, D (in):

Well Screen Volume, V_s (mL)[2]:

Initial Depth to Water (ft): 4.69

Time	*Pumping Rate (mL/min)*	*Depth to Water (ft)*	*Drawdown from Initial Water Level*[3] *(ft)*	*pH*	*Temperature °C*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*	*Volume Purged, V_p (mL)*	*No. of Well Screen Volumes Purged*[4]
0655	125	4.69	~~4.69~~ n/a	7.26	8.6	1.38	148	5.72	30		
0705	125	4.69	0	7.27	8.5	1.38	124	4.91	17.1		
0715	125	4.69	0	7.24	8.4	1.39	94	4.45	10.2		
0725	125	4.69	0	7.18	8.4	1.38	74	3.60	6.88		
0735	125	4.69	0	7.16	8.2	1.38	56	2.84	5.12		
0745	125	4.69	0	7.14	8.1	1.38	39	2.29	3.80		
0755	125	4.69	0	7.15	8.3	1.38	31	1.87	3.12		
0805	125	4.69	0	7.13	8.2	1.38	27	1.65	2.37		
0810	collect	sample									

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s=p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

08 (1225)

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: REALM ELYRIA
Ref. No.: 126167.1.501013

Date: 4.2.08
Personnel: D. NEWTON

Monitoring Well Data:

Well No.: P-13
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 3.02

(start purge @ 1050 - very turbid)

Time	*Pumping Rate (mL/min)*	*Depth to Water (ft)*	*Drawdown from Initial Water Level*[3] *(ft)*	*pH*	*Temperature °C*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*	*Volume Purged, Vp (mL)*	*No. of Well Screen Volumes Purged*[4]
1120	150	3.02	—	6.99	6.9	1.07	-4	4.21	154		
1130	150	3.02	0	7.00	6.9	1.07	-10	3.27	174		
1140	150	3.02	0	6.97	6.8	1.08	-22	2.54	125		
1150	150	3.02	0	6.96	6.9	1.05	-32	2.44	87.1		
1200	150	3.02	0	6.97	6.9	1.04	-39	2.16	24.2		
1210	150	3.02	0	6.98	6.8	1.05	-43	1.97	8.22		
1220	150	3.02	0	6.99	6.7	1.05	-41	1.94	3.75		
1225	Collect Sample										

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

07/09 (1010/1130)

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: REALM ELYRIA
Ref. No.: 12616-71-501013

Date: 4-2-08
Personnel: D. NEWTON

Monitoring Well Data:

Well No.: P-13T
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 2.70

(start purge 0845 - very turbid)

Time	*Pumping Rate (mL/min)*	*Depth to Water (ft)*	*Drawdown from Initial Water Level (ft)*[3]	*pH*	*Temperature °C*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*	*Volume Purged, V_p (mL)*	*No. of Well Screen Volumes Purged*[4]
0905	200	2.70	—	7.05	5.6	1.32	56	3.08	190		
0915	200	2.70	0	7.02	5.7	1.32	50	2.83	204		
0925	200	2.70	0	6.98	5.8	1.33	42	2.05	178		
0935	↓	↓	↓	6.98	5.7	1.37	36	1.69	161		
0945				6.98	5.8	1.39	35	1.60	268		
0955				6.99	5.8	1.39	37	1.81	241		
1005	↓	↓	↓	6.97	5.7	1.38	41	1.95	257		
1010	collect	sample									

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= V_p/V_s.

APPENDIX C-3

WELL PURGE FORMS – AUGUST 2008
(SEMI-ANNUAL EVENT)

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: REALM ELYRIA
Ref. No.: 12616.71.501011

Date: 8.8.08
Personnel: D. Newton

Monitoring Well Data:

Well No.: P-16
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 9.71

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
1110	150	9.71	0	6.63	15.8	1.80	-43	4.71	121		
1120	↓	9.74	0.03	6.66	16.6	1.80	-51	4.32	73.1		
1130		9.76	0.05	6.68	16.8	1.90	-57	4.20	51.3		
1140		9.78	0.07	6.69	17.1	1.81	-82	4.12	27.4		
1150		9.80	0.09	6.71	17.3	1.81	-64	4.05	14.8		
1200		9.82	0.11	6.73	17.4	1.81	-67	3.98	9.32		
1210	↓	9.84	0.13	6.73	17.5	1.81	-71	3.97	7.29		
1220		9.86	0.15	6.74	17.6	1.81	-78	3.95	7.96		
1230	collect sample		.01								

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: REALM ELYRIA
Ref. No.: 126671 5D101

Date: 8.9.08
Personnel:

Monitoring Well Data:

Well No.: P-16T
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 9.16

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
1215	150	9.16	—	6.9	16.1	0.922	229	2.9	164		
1225	↓	9.19	0.03	6.9	16.6	0.921	207	2.6	112		
1240		9.23	0.07	6.9	16.9	0.921	201	2.3	68.7		
1250		9.27	0.11	6.9	17.5	0.921	195	2.0	42.3		
1300		9.30	0.14	6.9	17.7	0.921	189	1.9	33.6		
1310		9.34	0.18	6.9	17.8	0.921	181	1.8	27.2		
1320		9.37	0.21	6.9	17.9	0.921	176	1.7	23.6		
1330		9.41	0.25	6.9	17.9	0.921	171	1.8	24.2		
1330	collect	sample	"02"								

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s=p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing). No. of Well Screen Volumes Purged= V_p/V_s.

03/04

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: ZEALM ELYPIA
Ref. No.: 12616-71.501011

Date: 8.8.08
Personnel: D Newton

Monitoring Well Data:

Well No.: P-8R
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 7.43

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
1310	150	7.43	~~0.0~~	7.19	14.9	1.51	72	4.01	63.4		
1320	↓	7.43	—	7.16	14.8	1.51	52	3.73	37.2		
1330		7.43	—	7.12	14.5	1.50	19	2.38	21.8		
1340		↓	—	7.11	14.1	1.50	-37	1.06	12.4		
1350			—	7.09	14.1	1.50	-47	0.98	8.27		
1400			—	7.08	14.2	1.50	-55	0.92	6.92		
1410			—	7.05	14.4	1.50	-63	0.87	5.09		
1420	collect sample "03"										
1450	"	"	"04" Duplicate								

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing). No. of Well Screen Volumes Purged= Vp/Vs.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Realm Flynn
Ref. No.: 126167.050101

Date: 8.8.08
Personnel: B Newton

Monitoring Well Data:

Well No.: P-8T
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 7.82

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
1445	150	7.82	—	6.8	15.7	1.32	245	6.1	49.4		
1505	↓	↓	↓	6.8	15.9	1.43	226	5.8	31.6		
1515				6.7	16.2	1.56	198	4.9	18.1		
1525				6.6	16.4	1.69	181	4.1	10.5		
1535				6.5	16.5	1.66	169	3.7	7.22		
1545				6.6	16.3	1.66	151	3.5	5.89		
1550	~~on outlet~~			6.5	16.1	1.66	143	3.1	5.13		
1555	collect sample		"05"								

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

06

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: RtA1M Elyria
Ref. No.: 12616-71.501011

Date: 8.9.08
Personnel:

Monitoring Well Data:

Well No.: Pw2
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 5.93

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
0720	150	5.93	—	6.8	17.4	2.81	199	1.81	120		
0730	150	5.99	0.06	6.8	17.8	2.69	184	1.66	81.6		
0740		6.04	0.09	6.8	17.8	2.53	173	1.53	32.9		
0750		6.09	0.16	6.9	17.9	2.31	160	1.54	41.7		
0800		6.13	0.20	6.9	18.1	2.17	151	1.39	21.1		
0810		6.17	0.24	6.9	18.2	2.11	143	1.31	13.8		
0820		6.24	0.31	7.0	18.3	2.04	141	1.22	8.26		
0825		6.28	0.35	7.1	18.0	2.01	133	1.17	4.16		
0830	Collect	Sample	"06"								

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing). No. of Well Screen Volumes Purged= Vp/Vs.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: REALme Elyria
Ref. No.: 12616-71 - 501011

Date: 8.9.08
Personnel: D Newton

Monitoring Well Data:

Well No.: P-2T
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 6.81

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
0810	150	6.81	—	6.51	16.4	2.08	121	3.68	78.1		
0820		6.84	0.03	6.53	16.5	2.07	95	3.91	50.6		
0835	↓	6.88	0.07	6.54	16.6	2.07	65	3.89	31.9		
0845		6.92	0.11	6.55	16.7	2.06	48	3.84	14.8		
0855		6.97	0.16	6.61	16.9	2.06	29	3.89	8.21		
0905		7.02	0.21	6.65	17.3	2.06	13	2.74	5.92		
0910		7.06	0.25	6.69	17.4	2.06	9	2.58	3.89		
0915	collect	sample	"07"								

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing). No. of Well Screen Volumes Purged= Vp/Vs.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: REALM ELYRIA
Ref. No.: 12616.71.501011

Date: 8.9.08
Personnel: D. Norton

Monitoring Well Data:

Well No.: P-13
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 7.29

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, Vp (mL)	No. of Well Screen Volumes Purged[4]
1000	150	7.29	—	6.81	19.9	1.08	-187	3.66	94.3		
1010	↓	7.29	—	6.77	19.6	1.08	-176	3.69	78.2		
1020		7.29	—	6.74	19.8	1.09	-164	3.71	32.6		
1030		7.29	—	6.71	19.9	1.09	-153	3.94	14.9		
1040		7.29	—	6.67	20.2	1.10	-142	3.80	7.09		
1050		7.29	—	6.65	20.4	1.10	-137	3.33	5.94		
1055	collect sample "08"										

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: REALM Elgin
Ref. No.: 12616-71 & 501011

Date: 8.9.08
Personnel: D. Newton

Monitoring Well Data:

Well No.: P-13T
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 7.18

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
1000	150	7.18	—	6.6	22.0	1.58	-38	5.9	221		
1015	↓	↓	—	6.7	21.8	1.58	-54	5.4	106		
1025			—	6.7	21.9	1.57	-67	5.2	86.2		
1035			—	6.8	21.6	1.57	-89	3.9	74.1		
1045			—	6.8	21.4	1.57	-105	2.6	52.3		
1050			—	6.9	23.3	1.57	-114	2.1	33.6		
1055			—	6.9	23.5	1.57	-104	1.9	18.1		
1100			—	6.8	23.6	1.57	-101	1.7	14.6		
1105			—	6.9	23.7	1.57	-99	1.6	9.22		
1110	↓	↓	—	6.8	23.4	1.57	-97	1.7	6.39		
1115			—	6.8	23.2	1.57	-100	1.8	5.51		
1115 collect sample "09"											

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Rialto Elyria
Ref. No.: 12616-71.501611

Date: 8.9.08
Personnel: D. Newton

Monitoring Well Data:

Well No.: P-14
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 6.79

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
1240	150	6.79	—	6.91	18.8	0.819	-105	4.40	121		
1245	↓	↓	—	6.88	18.6	0.826	-101	4.39	82.3		
1255			—	6.81	18.5	0.829	-99	4.38	51.2		
1305			—	6.73	17.9	0.865	-93	4.56	42.7		
1315			—	6.75	17.7	0.866	-91	4.59	35.2		
1325			—	6.77	17.6	0.868	-89	4.59	12.2		
1335	↓	↓	—	6.78	17.7	0.869	-86	4.61	5.6		
1335	collect	sample	"10"								

Notes.

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Realm Elypia
Ref. No.: 12616.71.501011

Date: 8.9.08
Personnel: D. Newton

Monitoring Well Data:

Well No.: P-14T
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 6.81

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
1330	150	6.81	—	6.9	17.7	0.479	212	3.9	93.5		
1345	↓	↓	—	6.8	17.4	0.486	204	3.6	145		
1355			—	6.8	17.5	0.476	199	3.1	78.6		
1405			—	6.7	17.4	0.441	198	2.1	46.2		
1415			—	6.7	17.1	0.452	196	1.6	28.7		
1425			—	6.6	15.9	0.451	191	1.1	21.6		
1435			—	6.8	15.7	0.451	181	0.98	14.2		
1445			—	6.8	15.4	0.451	174	0.91	9.26		
1455		↓	—	6.8	15.6	0.451	163	0.92	4.16		
1500	collect	sample	"11"								

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= V_p/V_s.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Reilm Eureka
Ref. No.: 12616-71-501011

Date: 8.9.08
Personnel: D. Newton

Monitoring Well Data:

Well No.: P-12
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 7.71

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
1420	150	7.71	—	7.2	16.6	0.27	249	5.9	42.1		
1430	↓	↓	↓	7.1	16.2	1.08	176	5.3	23.7		
1440				7.0	15.6	3.24	77	2.7	16.4		
1450				7.1	15.3	3.29	43	2.5	9.23		
1500					15.0	3.30	27	2.4	11.29		
1520					14.5	3.30	21	2.2	6.34		
1525					14.2	3.32	19	2.1	3.81		
1530	collect sample		"12"								

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: REALM ELYRIA
Ref. No.: 12616-38-50101

Date: 8.9.08
Personnel: D. Denton

Monitoring Well Data:

Well No.: P-12TR
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 7.92

Time	*Pumping Rate (mL/min)*	*Depth to Water (ft)*	*Drawdown from Initial Water Level*[3] *(ft)*	*pH*	*Temperature °C*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*	*Volume Purged, V_p (mL)*	*No. of Well Screen Volumes Purged*[4]
1605	150	7.92	—	6.69	17.1	1.09	102	3.99	57.1		
1615	↓	↓	↓	6.70	16.9	1.07	81	3.98	30.6		
1625				6.71	16.8	1.05	70	3.86	12.2		
1635				6.72	16.6	1.03	53	3.78	7.16		
1645				6.77	16.5	1.02	43	3.65	6.20		
1655	↓	↓	↓	6.82	16.3	1.02	39	3.61	7.09		
1710	collect	sample	13"								

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= V_p/V_s.

APPENDIX C-4

WELL PURGE FORMS – SEPTEMBER 2008
(CONFIRMATION EVENT)

Field File 9-08

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: REALM ELYRIA
Ref. No.: 12616-71

Date: 9-22-08
Personnel: D. NEWTON

Monitoring Well Data:

Well No.: P-BR
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 7.54

Time	*Pumping Rate (mL/min)*	*Depth to Water (ft)*	*Drawdown from Initial Water Level (ft)*[3]	*pH*	*Temperature °C*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*	*Volume Purged, V_p (mL)*	*No. of Well Screen Volumes Purged*[4]
1450	150	7.54	—	6.89	16.01	1.43	-52	2.87	41.21		
1500	↓	↓	↓	6.96	16.09	1.44	-76	2.18	23.64		
1510				7.15	16.28	1.44	-79	1.39	15.78		
1520				7.33	16.49	1.43	-88	0.88	10.26		
1530				7.35	16.45	1.43	-91	0.86	8.07		
1540				7.34	16.38	1.43	-92	0.81	5.52		
1545	collect sample "01"										

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: REPLM ELYRIA
Ref. No.: 12616-71

Date: 9.22.08
Personnel: D. NEWTON

Monitoring Well Data:

Well No.: P-8T
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 7.40

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
1540	150	7.40	–	6.20	18.78	0.971	147	0.61	55.31		
1550	↓	↓	↓	6.45	18.91	0.930	128	0.66	40.26		
1600				6.63	18.74	0.964	98	0.72	21.87		
1610				6.91	18.57	0.984	67	0.79	12.99		
1620				6.83	18.63	0.988	48	0.71	7.64		
1630	↓	↓	↓	6.74	18.70	0.985	31	0.63	4.26		
1635	collect	sample	"02"								

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: REALM - ELYRIA
Ref. No.: 12616.71

Date: 9.22-08
Personnel: D. NEWTON

Monitoring Well Data:

Well No.: P-16T
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 10.11

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
1630	150	10.11	—	6.98	18.71	1.69	48	2.10	92.1		
1640	↓	10.13	0.02	6.97	18.60	1.64	79	2.51	38.26		
1650		10.16	0.05	6.97	18.43	1.61	87	3.09	19.84		
1700		10.20	0.09	6.96	18.22	1.58	98	3.68	11.45		
1710		10.24	0.13	6.96	18.14	1.57	101	3.75	6.52		
1720		10.28	0.17	6.96	18.07	1.56	103	3.89	7.83		
1725		10.33	0.22	6.96	18.04	1.55	105	3.94	5.80		
1725	collect	sample "03"									

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= V_p/V_s.

04

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: REALM ELYRIA
Ref. No.: 12616-71

Date: 9.22.08
Personnel: D. Newton

Monitoring Well Data:

Well No.: P-16
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 9.05

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
1715	150	9.05	—	7.08	16.99	1.74	-41	0.91	132		
1725	↓	9.05	—	7.08	16.95	1.74	-54	0.76	71.23		
1735		9.05	—	7.06	16.77	1.74	-72	0.34	50.68		
1745		↓	↓	7.08	16.80	1.74	-79	0.29	18.26		
1755				7.08	16.82	1.74	-83	0.27	9.37		
1805				7.08	16.84	1.74	-91	0.25	6.29		
1815	collect sample "04"										

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: REALM ELYRIA
Ref. No.: 12616-71

Date: 9.23.08
Personnel: D. NEWTON

Monitoring Well Data:

Well No.: P-2T
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 8.78

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
0730	150	8.78	~~8.~~	7.07	14.80	1.93	-1	1.29	77.14		
0740	↓	8.83	0.05	7.03	15.04	1.93	-2	1.01	51.36		
0750		8.86	0.08	7.01	15.12	1.93	-2	0.83	22.92		
0800		8.91	0.13	7.02	15.19	1.93	-3	0.67	18.74		
0810		8.95	0.17	6.95	15.28	1.93	-3	0.57	11.33		
0820	↓	9.01	0.23	6.90	15.37	1.93	-4	0.55	5.96		
0830	collect sample "05"										

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be ng), No. of Well Screen Volumes Purged= Vp/Vs.

06

07

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: REALM ELYRIA
Ref. No.: 12616-71

Date: 9.23.08
Personnel: D. NEWTON

Monitoring Well Data:

Well No.: P-2
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 7.93

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
0840	150	7.93	—	7.15	14.42	1.21	-22	0.39	112		
0850		7.96	0.03	7.16	14.71	1.22	-39	0.29	80.91		
0900		7.99	0.06	7.16	14.79	1.22	-42	0.24	48.33		
0910		8.03	0.10	7.16	14.86	1.22	-45	0.22	27.29		
0920		8.07	0.14	7.16	14.91	1.22	-49	0.23	16.12		
0930		8.11	0.18	7.16	14.94	1.22	-52	0.23	7.66		
0940		8.15	0.22	7.16	15.01	1.22	-54	0.21	4.18		
0945	Collect	sample	"06"								
		DUPLICATE	"07"								

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s=p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: REALM ELYRIA
Ref. No.: 12616-71

Date: 9.23.08
Personnel: D. NEWTON

Monitoring Well Data:

Well No.: P-13
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 10.00

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
1000	150	10.0	—	7.00	17.38	1.05	-75	0.58	49.85		
1005				7.00	17.20	1.05	-77	0.50	31.29		
1015				7.01	17.17	1.06	-79	0.45	19.36		
1025				7.02	17.15	1.06	-82	0.42	14.52		
1035				7.02	17.13	1.06	-84	0.39	9.36		
1045				7.01	17.14	1.06	-86	0.37	5.12		
1050	*Collect sample "08"										

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: REALM ELYRIA
Ref. No.: 12616-71

Date: 9-23-08
Personnel: D. NEWTON

Monitoring Well Data:

Well No.: P-13T
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 10.01

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
1015	100	10.01	—	6.70	17.64	1.89	-64	0.41	247		
1025	↓	10.09	0.08	6.72	17.73	1.87	-58	0.59	164		
1035		10.16	0.15	6.74	17.98	1.85	-48	0.99	123		
1040		10.22	0.21	6.77	18.13	1.83	-30	1.81	286		
1045	↓	10.30	0.29	6.75	18.19	1.82	-26	1.54	206		
1047	DRY	—	well	went	DRY	—	—	—	—		
	↓				↓						
	let recharge										
1205	collect	sample		"09"							

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

APPENDIX D

LABORATORY ANALYTICAL REPORTS

APPENDIX D-1

LABORATORY ANALYTICAL REPORT – FEBRUARY 2008
(SEMI-ANNUAL EVENT)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

PROJECT NO. 12616-71-501011

REALM ELYRIA

Lot #: A8B090151

Angela Bown

Conestoga-Rovers & Associates
9033 Meridian Way
West Chester, OH 45069

TESTAMERICA LABORATORIES, INC.

Denise Heckler for:

Amy L. McCormick
Project Manager

February 21, 2008

CASE NARRATIVE

A8B090151

The following report contains the analytical results for twenty-one water samples submitted to TestAmerica North Canton by Conestoga-Rovers & Associates, Inc. from the Realm Elyria Site, project number 12616-71-501011. The samples were received February 09, 2008, according to documented sample acceptance procedures.

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 Angela Bown on February 19, 2008. 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.

Any reference within this document to Severn Trent Laboratories, Inc. or STL, should be understood to refer to TestAmerica Laboratories, Inc. (formerly known as Severn Trent Laboratories, Inc.)

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.

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." The total number of pages in this report is 105.

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperatures of the coolers upon sample receipt were 2.9, 3.6, and 2.2°C.

CASE NARRATIVE (continued)

METALS

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are +/- the standard reporting limit (SRL).

Serial dilution of a sample in this lot indicates that physical and chemical interferences were present. Refer to the sample report pages for the affected analytes flagged with "E".

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "J". Refer to the sample report pages for the affected analyte(s).

Matrix spike recovery and relative percent difference (RPD) data were not calculated for some analytes for WG-12616-020708-DN-11 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) 8042015 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".

The matrix spike/matrix spike duplicate(s) for batch(es) 8042015 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.

GENERAL CHEMISTRY

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are +/- the standard reporting limit (SRL).

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica North Canton 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.

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, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

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. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. 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.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

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 twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
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 repreparation 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 may 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 (MS/DU) 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 (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

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, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, 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 North Canton Certifications and Approvals:

California (#01144CA), Connecticut (#PH-0590), Florida (#E87225), Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), OhioVAP (#CL0024), West Virginia (#210), Wisconsin (#999518190),NAVY, ARMY, USDA Soil Permit,

EXECUTIVE SUMMARY - Detection Highlights

A8B090151

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
WG-12616-020608-DN-01 02/06/08 15:40 001				
Barium - DISSOLVED	0.039 B,J	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	76.1 J	5.0	mg/L	SW846 6010B
Potassium - DISSOLVED	8.5 J	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	34.9 J	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	0.024 J	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	19.0	5.0	mg/L	SW846 6010B
Barium	0.037 B,J	0.20	mg/L	SW846 6010B
Calcium	74.8 J	5.0	mg/L	SW846 6010B
Iron	0.12	0.10	mg/L	SW846 6010B
Potassium	8.5 J	5.0	mg/L	SW846 6010B
Magnesium	36.1 J	5.0	mg/L	SW846 6010B
Manganese	0.035 J	0.015	mg/L	SW846 6010B
Sodium	10.4	5.0	mg/L	SW846 6010B
Nickel	0.0033 B	0.040	mg/L	SW846 6010B
Chloride	15.4	1.0	mg/L	MCAWW 300.0A
Sulfate	126	1.0	mg/L	MCAWW 300.0A
WG-12616-020608-DN-02 02/06/08 16:35 002				
Barium - DISSOLVED	0.088 B,J	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	96.5 J	5.0	mg/L	SW846 6010B
Iron - DISSOLVED	0.13	0.10	mg/L	SW846 6010B
Potassium - DISSOLVED	3.7 B,J	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	21.1 J	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	0.046 J	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	183	5.0	mg/L	SW846 6010B
Nickel - DISSOLVED	0.011 B	0.040	mg/L	SW846 6010B
Barium	0.082 B,J	0.20	mg/L	SW846 6010B
Calcium	89.8 J	5.0	mg/L	SW846 6010B
Iron	0.16	0.10	mg/L	SW846 6010B
Potassium	3.3 B,J	5.0	mg/L	SW846 6010B
Magnesium	19.6 J	5.0	mg/L	SW846 6010B
Manganese	0.044 J	0.015	mg/L	SW846 6010B
Sodium	174	5.0	mg/L	SW846 6010B
Nickel	0.0094 B	0.040	mg/L	SW846 6010B
Chloride	162	5.0	mg/L	MCAWW 300.0A
Sulfate	43.8	5.0	mg/L	MCAWW 300.0A
WG-12616-020608-DN-03 02/06/08 17:50 003				
Barium - DISSOLVED	0.047 B,J	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	229 J	5.0	mg/L	SW846 6010B
Iron - DISSOLVED	0.99	0.10	mg/L	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A8B090151

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
WG-12616-020608-DN-03 02/06/08 17:50	**003**			
Potassium - DISSOLVED	2.2 B,J	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	72.9 J	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	0.21 J	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	67.3	5.0	mg/L	SW846 6010B
Nickel - DISSOLVED	0.14	0.040	mg/L	SW846 6010B
Barium	0.049 B,J	0.20	mg/L	SW846 6010B
Calcium	224 J	5.0	mg/L	SW846 6010B
Iron	4.7	0.10	mg/L	SW846 6010B
Potassium	2.0 B,J	5.0	mg/L	SW846 6010B
Magnesium	71.1 J	5.0	mg/L	SW846 6010B
Manganese	0.22 J	0.015	mg/L	SW846 6010B
Sodium	65.1	5.0	mg/L	SW846 6010B
Nickel	0.13	0.040	mg/L	SW846 6010B
Chloride	60.6	5.0	mg/L	MCAWW 300.0A
Sulfate	548	5.0	mg/L	MCAWW 300.0A
WG-12616-020608-DN-04 02/06/08 18:05	**004**			
Barium - DISSOLVED	0.022 B,J	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	226 J	5.0	mg/L	SW846 6010B
Chromium - DISSOLVED	0.0044 B	0.010	mg/L	SW846 6010B
Potassium - DISSOLVED	1.6 B,J	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	65.7 J	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	0.0012	0.015	mg/L	SW846 6010B
	Qualifiers: B,J			
Sodium - DISSOLVED	65.2	5.0	mg/L	SW846 6010B
Nickel - DISSOLVED	0.025 B	0.040	mg/L	SW846 6010B
Barium	0.022 B,J	0.20	mg/L	SW846 6010B
Calcium	229 J	5.0	mg/L	SW846 6010B
Potassium	1.4 B,J	5.0	mg/L	SW846 6010B
Magnesium	66.3 J	5.0	mg/L	SW846 6010B
Manganese	0.0089	0.015	mg/L	SW846 6010B
	Qualifiers: B,J			
Sodium	63.7	5.0	mg/L	SW846 6010B
Nickel	0.023 B	0.040	mg/L	SW846 6010B
Total Cyanide	0.005 B	0.010	mg/L	MCAWW 335.2
Chloride	19.5	5.0	mg/L	MCAWW 300.0A
Sulfate	641	5.0	mg/L	MCAWW 300.0A

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A8B090151

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
WG-12616-020708-DN-05 02/07/08 08:20 005				
Barium - DISSOLVED	0.049 B,J	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	121 J	5.0	mg/L	SW846 6010B
Iron - DISSOLVED	0.12	0.10	mg/L	SW846 6010B
Potassium - DISSOLVED	4.3 B,J	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	44.4 J	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	0.25 J	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	103	5.0	mg/L	SW846 6010B
Nickel - DISSOLVED	0.0062 B	0.040	mg/L	SW846 6010B
Barium	0.049 B,J	0.20	mg/L	SW846 6010B
Calcium	120 J	5.0	mg/L	SW846 6010B
Iron	0.20	0.10	mg/L	SW846 6010B
Potassium	4.4 B,J	5.0	mg/L	SW846 6010B
Magnesium	43.5 J	5.0	mg/L	SW846 6010B
Manganese	0.28 J	0.015	mg/L	SW846 6010B
Sodium	105	5.0	mg/L	SW846 6010B
Nickel	0.0062 B	0.040	mg/L	SW846 6010B
Chloride	29.3	5.0	mg/L	MCAWW 300.0A
Sulfate	284	5.0	mg/L	MCAWW 300.0A
WG-12616-020708-DN-06 02/07/08 09:00 006				
Barium - DISSOLVED	0.019 B,J	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	250 J	5.0	mg/L	SW846 6010B
Iron - DISSOLVED	0.13	0.10	mg/L	SW846 6010B
Potassium - DISSOLVED	1.2 B,J	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	105 J	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	0.12 J	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	48.8	5.0	mg/L	SW846 6010B
Nickel - DISSOLVED	0.0084 B	0.040	mg/L	SW846 6010B
Barium	0.020 B,J	0.20	mg/L	SW846 6010B
Calcium	249 J	5.0	mg/L	SW846 6010B
Iron	0.72	0.10	mg/L	SW846 6010B
Potassium	1.1 B,J	5.0	mg/L	SW846 6010B
Magnesium	104 J	5.0	mg/L	SW846 6010B
Manganese	0.15 J	0.015	mg/L	SW846 6010B
Sodium	48.5	5.0	mg/L	SW846 6010B
Nickel	0.0087 B	0.040	mg/L	SW846 6010B
Chloride	101	5.0	mg/L	MCAWW 300.0A
Sulfate	660	5.0	mg/L	MCAWW 300.0A

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A8B090151

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
WG-12616-020708-DN-07 02/07/08 10:20	**007**			
Barium - DISSOLVED	0.018 B,J	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	149 J	5.0	mg/L	SW846 6010B
Iron - DISSOLVED	1.5	0.10	mg/L	SW846 6010B
Potassium - DISSOLVED	2.5 B,J	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	30.9 J	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	0.22 J	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	38.3	5.0	mg/L	SW846 6010B
Nickel - DISSOLVED	0.042	0.040	mg/L	SW846 6010B
Barium	0.021 B,J	0.20	mg/L	SW846 6010B
Calcium	157 J	5.0	mg/L	SW846 6010B
Iron	3.3	0.10	mg/L	SW846 6010B
Potassium	2.2 B,J	5.0	mg/L	SW846 6010B
Magnesium	31.6 J	5.0	mg/L	SW846 6010B
Manganese	0.24 J	0.015	mg/L	SW846 6010B
Sodium	41.1	5.0	mg/L	SW846 6010B
Nickel	0.046	0.040	mg/L	SW846 6010B
Chloride	23.4	1.0	mg/L	MCAWW 300.0A
Sulfate	126	1.0	mg/L	MCAWW 300.0A
WG-12616-020708-DN-08 02/07/08 10:55	**008**			
Barium - DISSOLVED	0.024 B,J	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	169 J	5.0	mg/L	SW846 6010B
Iron - DISSOLVED	0.53	0.10	mg/L	SW846 6010B
Potassium - DISSOLVED	8.2 J	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	48.7 J	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	0.22 J	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	32.6	5.0	mg/L	SW846 6010B
Nickel - DISSOLVED	0.034 B	0.040	mg/L	SW846 6010B
Barium	0.035 B,J	0.20	mg/L	SW846 6010B
Calcium	142 J	5.0	mg/L	SW846 6010B
Chromium	0.012	0.010	mg/L	SW846 6010B
Iron	4.7	0.10	mg/L	SW846 6010B
Potassium	9.1 J	5.0	mg/L	SW846 6010B
Magnesium	45.3 J	5.0	mg/L	SW846 6010B
Manganese	0.28 J	0.015	mg/L	SW846 6010B
Sodium	23.2	5.0	mg/L	SW846 6010B
Nickel	0.028 B	0.040	mg/L	SW846 6010B
Chloride	18.7	5.0	mg/L	MCAWW 300.0A
Sulfate	377	5.0	mg/L	MCAWW 300.0A

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A8B090151

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
WG-12616-020708-DN-09 02/07/08 12:35	**009**			
Barium - DISSOLVED	0.033 B,J	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	66.9 J	5.0	mg/L	SW846 6010B
Iron - DISSOLVED	0.099 B	0.10	mg/L	SW846 6010B
Potassium - DISSOLVED	3.6 B,J	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	17.7 J	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	0.041 J	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	104	5.0	mg/L	SW846 6010B
Barium	0.030 B,J	0.20	mg/L	SW846 6010B
Calcium	61.0 J	5.0	mg/L	SW846 6010B
Iron	0.086 B	0.10	mg/L	SW846 6010B
Potassium	3.8 B,J	5.0	mg/L	SW846 6010B
Magnesium	16.1 J	5.0	mg/L	SW846 6010B
Manganese	0.021 J	0.015	mg/L	SW846 6010B
Sodium	115	5.0	mg/L	SW846 6010B
Chloride	19.4	1.0	mg/L	MCAWW 300.0A
Sulfate	85.3	1.0	mg/L	MCAWW 300.0A
WG-12616-020708-DN-10 02/07/08 13:10	**010**			
Barium - DISSOLVED	0.064 B,J	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	125 J	5.0	mg/L	SW846 6010B
Iron - DISSOLVED	0.26	0.10	mg/L	SW846 6010B
Potassium - DISSOLVED	2.1 B,J,E	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	32.6 J	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	0.024 J,E	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	51.3	5.0	mg/L	SW846 6010B
Barium	0.067 B,J	0.20	mg/L	SW846 6010B
Calcium	134 J	5.0	mg/L	SW846 6010B
Iron	0.59	0.10	mg/L	SW846 6010B
Potassium	2.1 B,J	5.0	mg/L	SW846 6010B
Magnesium	35.4 J	5.0	mg/L	SW846 6010B
Manganese	0.030 J	0.015	mg/L	SW846 6010B
Sodium	50.4	5.0	mg/L	SW846 6010B
Nickel	0.0036 B	0.040	mg/L	SW846 6010B
Chloride	10.5	1.0	mg/L	MCAWW 300.0A
Sulfate	151	1.0	mg/L	MCAWW 300.0A
WG-12616-020708-DN-11 02/07/08 14:45	**011**			
Barium - DISSOLVED	0.058 B,J	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	117 J	5.0	mg/L	SW846 6010B
Iron - DISSOLVED	1.7	0.10	mg/L	SW846 6010B
Potassium - DISSOLVED	1.2 B,J	5.0	mg/L	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A8B090151

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
WG-12616-020708-DN-11 02/07/08 14:45	**011**			
Magnesium - DISSOLVED	26.5 J	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	0.14 J	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	7.9	5.0	mg/L	SW846 6010B
Barium	0.067 B,J	0.20	mg/L	SW846 6010B
Calcium	118 J	5.0	mg/L	SW846 6010B
Iron	7.4	0.10	mg/L	SW846 6010B
Potassium	1.2 B,J	5.0	mg/L	SW846 6010B
Magnesium	26.6 J	5.0	mg/L	SW846 6010B
Manganese	0.14 J	0.015	mg/L	SW846 6010B
Sodium	8.2	5.0	mg/L	SW846 6010B
Total Cyanide	0.076	0.010	mg/L	MCAWW 335.2
Chloride	7.9	1.0	mg/L	MCAWW 300.0A
Sulfate	65.7	1.0	mg/L	MCAWW 300.0A
WG-12616-020708-DN-12 02/07/08 15:20	**012**			
Barium - DISSOLVED	0.022 B,J	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	114 J	5.0	mg/L	SW846 6010B
Potassium - DISSOLVED	1.1 B,J	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	22.9 J	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	0.10 J	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	14.1	5.0	mg/L	SW846 6010B
Barium	0.027 B,J	0.20	mg/L	SW846 6010B
Calcium	115 J	5.0	mg/L	SW846 6010B
Iron	0.16	0.10	mg/L	SW846 6010B
Potassium	1.0 B,J	5.0	mg/L	SW846 6010B
Magnesium	22.4 J	5.0	mg/L	SW846 6010B
Manganese	1.1 J	0.015	mg/L	SW846 6010B
Sodium	15.4	5.0	mg/L	SW846 6010B
Chloride	3.0	1.0	mg/L	MCAWW 300.0A
Sulfate	47.1	1.0	mg/L	MCAWW 300.0A
WG-12616-020708-DN-13 02/07/08 16:50	**013**			
Barium - DISSOLVED	0.023 B,J	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	118 J	5.0	mg/L	SW846 6010B
Potassium - DISSOLVED	1.0 B,J	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	23.8 J	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	0.13 J	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	15.1	5.0	mg/L	SW846 6010B
Barium	0.026 B,J	0.20	mg/L	SW846 6010B
Calcium	117 J	5.0	mg/L	SW846 6010B
Iron	0.098 B	0.10	mg/L	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A8B090151

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
WG-12616-020708-DN-13 02/07/08 16:50 013				
Potassium	1.0 B,J	5.0	mg/L	SW846 6010B
Magnesium	23.2 J	5.0	mg/L	SW846 6010B
Manganese	0.83 J	0.015	mg/L	SW846 6010B
Sodium	14.8	5.0	mg/L	SW846 6010B
Total Cyanide	0.089	0.010	mg/L	MCAWW 335.2
Chloride	3.1	1.0	mg/L	MCAWW 300.0A
Sulfate	47.4	1.0	mg/L	MCAWW 300.0A
WG-12616-020708-DN-14 02/07/08 17:25 014				
Barium - DISSOLVED	0.022 B,J	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	91.1 J	5.0	mg/L	SW846 6010B
Iron - DISSOLVED	0.12	0.10	mg/L	SW846 6010B
Potassium - DISSOLVED	593 J	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	21.6 J	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	0.059 J	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	78.0	5.0	mg/L	SW846 6010B
Nickel - DISSOLVED	0.24	0.040	mg/L	SW846 6010B
Barium	0.023 B,J	0.20	mg/L	SW846 6010B
Calcium	95.5 J	5.0	mg/L	SW846 6010B
Chromium	0.0040 B	0.010	mg/L	SW846 6010B
Iron	0.27	0.10	mg/L	SW846 6010B
Potassium	557 J	25.0	mg/L	SW846 6010B
Magnesium	22.7 J	5.0	mg/L	SW846 6010B
Manganese	0.063 J	0.015	mg/L	SW846 6010B
Sodium	81.4	5.0	mg/L	SW846 6010B
Nickel	0.26	0.040	mg/L	SW846 6010B
Chloride	156	5.0	mg/L	MCAWW 300.0A
Sulfate	921	5.0	mg/L	MCAWW 300.0A
WG-12616-020808-DN-15 02/08/08 17:25 015				
Barium - DISSOLVED	0.016 B,J	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	67.1 J	5.0	mg/L	SW846 6010B
Potassium - DISSOLVED	1300 J	100	mg/L	SW846 6010B
Magnesium - DISSOLVED	8.3 J	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	0.023 J	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	188	5.0	mg/L	SW846 6010B
Nickel - DISSOLVED	0.66	0.040	mg/L	SW846 6010B
Barium	0.016 B,J	0.20	mg/L	SW846 6010B
Calcium	65.3 J	5.0	mg/L	SW846 6010B
Potassium	1300 J	100	mg/L	SW846 6010B
Magnesium	8.1 J	5.0	mg/L	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A8B090151

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
WG-12616-020808-DN-15 02/08/08 17:25	**015**			
Manganese	0.023 J	0.015	mg/L	SW846 6010B
Sodium	183	5.0	mg/L	SW846 6010B
Nickel	0.64	0.040	mg/L	SW846 6010B
Chloride	400	10.0	mg/L	MCAWW 300.0A
Sulfate	1920	10.0	mg/L	MCAWW 300.0A
WG-12616-020808-DN-16 02/08/08 09:45	**016**			
Barium - DISSOLVED	0.014 B,J	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	39.8 J	5.0	mg/L	SW846 6010B
Iron - DISSOLVED	0.084 B	0.10	mg/L	SW846 6010B
Potassium - DISSOLVED	52.1 J	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	7.9 J	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	0.0047	0.015	mg/L	SW846 6010B
	Qualifiers: B,J			
Sodium - DISSOLVED	7.5	5.0	mg/L	SW846 6010B
Nickel - DISSOLVED	0.021 B	0.040	mg/L	SW846 6010B
Barium	0.016 B,J	0.20	mg/L	SW846 6010B
Calcium	34.5 J	5.0	mg/L	SW846 6010B
Iron	1.3	0.10	mg/L	SW846 6010B
Potassium	45.4 J	5.0	mg/L	SW846 6010B
Magnesium	7.0 J	5.0	mg/L	SW846 6010B
Manganese	0.013 B,J	0.015	mg/L	SW846 6010B
Sodium	5.9	5.0	mg/L	SW846 6010B
Nickel	0.020 B	0.040	mg/L	SW846 6010B
Total Cyanide	0.042	0.010	mg/L	MCAWW 335.2
Chloride	12.0	1.0	mg/L	MCAWW 300.0A
Sulfate	96.8	1.0	mg/L	MCAWW 300.0A
WG-12616-020808-DN-17 02/08/08 10:25	**017**			
Barium - DISSOLVED	0.015 B,J	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	56.9 J	5.0	mg/L	SW846 6010B
Iron - DISSOLVED	0.088 B	0.10	mg/L	SW846 6010B
Potassium - DISSOLVED	191 J	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	8.1 J	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	0.020 J	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	35.4	5.0	mg/L	SW846 6010B
Nickel - DISSOLVED	0.13	0.040	mg/L	SW846 6010B
Barium	0.016 B,J	0.20	mg/L	SW846 6010B
Calcium	47.8 J	5.0	mg/L	SW846 6010B
Iron	1.3	0.10	mg/L	SW846 6010B
Potassium	162 J	5.0	mg/L	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A8B090151

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
WG-12616-020808-DN-17 02/08/08 10:25	**017**			
Magnesium	7.0 J	5.0	mg/L	SW846 6010B
Manganese	0.034 J	0.015	mg/L	SW846 6010B
Sodium	29.5	5.0	mg/L	SW846 6010B
Nickel	0.11	0.040	mg/L	SW846 6010B
Chloride	54.3	5.0	mg/L	MCAWW 300.0A
Sulfate	397	5.0	mg/L	MCAWW 300.0A
WG-12616-020808-DN-18 02/08/08 11:25	**018**			
Barium - DISSOLVED	0.10 B,J	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	213 J	5.0	mg/L	SW846 6010B
Iron - DISSOLVED	0.52	0.10	mg/L	SW846 6010B
Potassium - DISSOLVED	557 J	25.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	38.9 J	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	1.0 J	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	116	5.0	mg/L	SW846 6010B
Nickel - DISSOLVED	0.52	0.040	mg/L	SW846 6010B
Barium	0.10 B,J	0.20	mg/L	SW846 6010B
Calcium	211 J	5.0	mg/L	SW846 6010B
Iron	0.57	0.10	mg/L	SW846 6010B
Potassium	556 J	25.0	mg/L	SW846 6010B
Magnesium	38.3 J	5.0	mg/L	SW846 6010B
Manganese	0.97 J	0.015	mg/L	SW846 6010B
Sodium	114	5.0	mg/L	SW846 6010B
Nickel	0.52	0.040	mg/L	SW846 6010B
Chloride	208	10.0	mg/L	MCAWW 300.0A
Sulfate	1150	10.0	mg/L	MCAWW 300.0A
WG-12616-020808-DN-19 02/08/08 12:10	**019**			
Barium - DISSOLVED	0.035 B,J	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	363 J	5.0	mg/L	SW846 6010B
Iron - DISSOLVED	0.27	0.10	mg/L	SW846 6010B
Potassium - DISSOLVED	559 J	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	87.7 J	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	4.1 J	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	152	5.0	mg/L	SW846 6010B
Nickel - DISSOLVED	0.93	0.040	mg/L	SW846 6010B
Barium	0.033 B,J	0.20	mg/L	SW846 6010B
Calcium	338 J	5.0	mg/L	SW846 6010B
Iron	0.28	0.10	mg/L	SW846 6010B
Potassium	508 J	5.0	mg/L	SW846 6010B
Magnesium	81.2 J	5.0	mg/L	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A8B090151

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
WG-12616-020808-DN-19 02/08/08 12:10 019				
Manganese	3.8 J	0.015	mg/L	SW846 6010B
Sodium	141	5.0	mg/L	SW846 6010B
Nickel	0.86	0.040	mg/L	SW846 6010B
Chloride	284	10.0	mg/L	MCAWW 300.0A
Sulfate	1440	10.0	mg/L	MCAWW 300.0A
WG-12616-020808-DN-20 02/08/08 12:55 020				
Barium - DISSOLVED	0.040 B,J	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	204 J	5.0	mg/L	SW846 6010B
Chromium - DISSOLVED	0.0097 B	0.010	mg/L	SW846 6010B
Iron - DISSOLVED	0.10	0.10	mg/L	SW846 6010B
Potassium - DISSOLVED	595 J	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	53.2 J	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	1.6 J	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	108	5.0	mg/L	SW846 6010B
Nickel - DISSOLVED	0.68	0.040	mg/L	SW846 6010B
Barium	0.039 B,J	0.20	mg/L	SW846 6010B
Calcium	193 J	5.0	mg/L	SW846 6010B
Chromium	0.0086 B	0.010	mg/L	SW846 6010B
Potassium	565 J	5.0	mg/L	SW846 6010B
Magnesium	50.2 J	5.0	mg/L	SW846 6010B
Manganese	1.4 J	0.015	mg/L	SW846 6010B
Sodium	101	5.0	mg/L	SW846 6010B
Nickel	0.64	0.040	mg/L	SW846 6010B
Chloride	180	10.0	mg/L	MCAWW 300.0A
Sulfate	967	10.0	mg/L	MCAWW 300.0A
WG-12616-020808-DN-21 02/08/08 13:35 021				
Barium - DISSOLVED	0.064 B,J	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	341 J	5.0	mg/L	SW846 6010B
Iron - DISSOLVED	0.17	0.10	mg/L	SW846 6010B
Potassium - DISSOLVED	308 J	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	83.7 J	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	8.1 J	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	104	5.0	mg/L	SW846 6010B
Nickel - DISSOLVED	0.55	0.040	mg/L	SW846 6010B
Barium	0.062 B,J	0.20	mg/L	SW846 6010B
Calcium	328 J	5.0	mg/L	SW846 6010B
Iron	0.15	0.10	mg/L	SW846 6010B
Potassium	310 J	5.0	mg/L	SW846 6010B
Magnesium	81.8 J	5.0	mg/L	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A8B090151

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
WG-12616-020808-DN-21 02/08/08 13:35	**021**			
Manganese	7.4 J	0.015	mg/L	SW846 6010B
Sodium	103	5.0	mg/L	SW846 6010B
Nickel	0.55	0.040	mg/L	SW846 6010B
Chloride	167	10.0	mg/L	MCAWW 300.0A
Sulfate	1340	10.0	mg/L	MCAWW 300.0A

ANALYTICAL METHODS SUMMARY

A8B090151

PARAMETER	ANALYTICAL METHOD
Chloride	MCAWW 300.0A
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Sulfate	MCAWW 300.0A
Total Cyanide	MCAWW 335.2

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A8B090151

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
KGVR2	001	WG-12616-020608-DN-01	02/06/08	15:40
KGVTA	002	WG-12616-020608-DN-02	02/06/08	16:35
KGVTC	003	WG-12616-020608-DN-03	02/06/08	17:50
KGVTE	004	WG-12616-020608-DN-04	02/06/08	18:05
KGVTH	005	WG-12616-020708-DN-05	02/07/08	08:20
KGVTM	006	WG-12616-020708-DN-06	02/07/08	09:00
KGVTX	007	WG-12616-020708-DN-07	02/07/08	10:20
KGVT0	008	WG-12616-020708-DN-08	02/07/08	10:55
KGVT2	009	WG-12616-020708-DN-09	02/07/08	12:35
KGVT6	010	WG-12616-020708-DN-10	02/07/08	13:10
KGVT7	011	WG-12616-020708-DN-11	02/07/08	14:45
KGVVD	012	WG-12616-020708-DN-12	02/07/08	15:20
KGVVF	013	WG-12616-020708-DN-13	02/07/08	16:50
KGVVG	014	WG-12616-020708-DN-14	02/07/08	17:25
KGVVK	015	WG-12616-020808-DN-15	02/08/08	17:25
KGVVN	016	WG-12616-020808-DN-16	02/08/08	09:45
KGVVP	017	WG-12616-020808-DN-17	02/08/08	10:25
KGVVQ	018	WG-12616-020808-DN-18	02/08/08	11:25
KGVVT	019	WG-12616-020808-DN-19	02/08/08	12:10
KGVV0	020	WG-12616-020808-DN-20	02/08/08	12:55
KGVV1	021	WG-12616-020808-DN-21	02/08/08	13:35

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.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020608-DN-01

TOTAL Metals

Lot-Sample #...: A8B090151-001 **Matrix.....:** WG
Date Sampled...: 02/06/08 15:40 **Date Received..:** 02/09/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8042011						
Barium	**0.037 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVR21AA**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**74.8 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVR21AC**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	02/11-02/12/08	KGVR21AD
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	**0.12**	**0.10**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVR21AE**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**8.5 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVR21AJ**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**36.1 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVR21AF**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.035 J**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVR21AG**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**10.4**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVR21AK**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.0033 B**	**0.040**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVR21AH**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020608-DN-01

DISSOLVED Metals

Lot-Sample #...: A8B090151-001 **Matrix.....:** WG
Date Sampled...: 02/06/08 15:40 **Date Received..:** 02/09/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8042011						
Barium	**0.039 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVR21AL**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**76.1 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVR21AM**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	02/11-02/12/08	KGVR21AV
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	ND	0.10	mg/L	SW846 6010B	02/11-02/12/08	KGVR21AN
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**8.5 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVR21AT**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**34.9 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVR21AP**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.024 J**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVR21AQ**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**19.0**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVR21AU**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	ND	0.040	mg/L	SW846 6010B	02/11-02/12/08	KGVR21AR
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020608-DN-01

General Chemistry

Lot-Sample #...: A8B090151-001 **Work Order #...:** KGVR2 **Matrix.....:** WG
Date Sampled...: 02/06/08 15:40 **Date Received..:** 02/09/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**15.4**	**1.0**	**mg/L**	**MCAWW 300.0A**	**02/11/08**	**8043286**
		Dilution Factor: 1		MDL.....: 0.10		
Sulfate	**126**	**1.0**	**mg/L**	**MCAWW 300.0A**	**02/11/08**	**8043289**
		Dilution Factor: 1		MDL.....: 0.12		
Total Cyanide	ND	0.010	mg/L	MCAWW 335.2	02/12/08	8043311
		Dilution Factor: 1		MDL.....: 0.005		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020608-DN-02

TOTAL Metals

Lot-Sample #...: A8B090151-002 **Matrix.....:** WG
Date Sampled...: 02/06/08 16:35 **Date Received..:** 02/09/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8042011						
Barium	**0.082 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTA1AC**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**89.8 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTA1AD**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	02/11-02/12/08	KGVTA1AE
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	**0.16**	**0.10**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTA1AF**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**3.3 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTA1AK**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**19.6 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTA1AG**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.044 J**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTA1AH**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**174**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTA1AL**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.0094 B**	**0.040**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTA1AJ**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020608-DN-02

DISSOLVED Metals

Lot-Sample #...: A8B090151-002 **Matrix.....:** WG
Date Sampled...: 02/06/08 16:35 **Date Received..:** 02/09/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8042011						
Barium	**0.088 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTA1AM**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**96.5 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTA1AN**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	02/11-02/12/08	KGVTA1AW
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	**0.13**	**0.10**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTA1AP**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**3.7 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTA1AU**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**21.1 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTA1AQ**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.046 J**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTA1AR**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**183**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTA1AV**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.011 B**	**0.040**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTA1AT**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020608-DN-02

General Chemistry

Lot-Sample #...: A8B090151-002 **Work Order #...:** KGVTA **Matrix.....:** WG
Date Sampled...: 02/06/08 16:35 **Date Received..:** 02/09/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**162**	**5.0**	**mg/L**	**MCAWW 300.0A**	**02/11/08**	**8043286**
		Dilution Factor: 5		MDL.....: 0.50		
Sulfate	**43.8**	**5.0**	**mg/L**	**MCAWW 300.0A**	**02/11/08**	**8043289**
		Dilution Factor: 5		MDL.....: 0.60		
Total Cyanide	ND	0.010	mg/L	MCAWW 335.2	02/12/08	8043311
		Dilution Factor: 1		MDL.....: 0.005		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020608-DN-03

TOTAL Metals

Lot-Sample #...: A8B090151-003 **Matrix.....:** WG
Date Sampled...: 02/06/08 17:50 **Date Received..:** 02/09/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8042011						
Barium	**0.049 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTC1AC**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**224 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTC1AD**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	02/11-02/12/08	KGVTC1AE
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	**4.7**	**0.10**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTC1AF**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**2.0 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTC1AK**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**71.1 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTC1AG**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.22 J**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTC1AH**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**65.1**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTC1AL**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.13**	**0.040**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTC1AJ**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020608-DN-03

DISSOLVED Metals

Lot-Sample #...: A8B090151-003 **Matrix.....:** WG
Date Sampled...: 02/06/08 17:50 **Date Received..:** 02/09/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8042011						
Barium	**0.047 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTC1AM**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**229 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTC1AN**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	02/11-02/12/08	KGVTC1AW
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	**0.99**	**0.10**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTC1AP**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**2.2 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTC1AU**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**72.9 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTC1AQ**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.21 J**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTC1AR**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**67.3**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTC1AV**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.14**	**0.040**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTC1AT**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020608-DN-03

General Chemistry

Lot-Sample #...: A8B090151-003 **Work Order #...:** KGVTC **Matrix.....:** WG
Date Sampled...: 02/06/08 17:50 **Date Received..:** 02/09/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**60.6**	**5.0**	**mg/L**	**MCAWW 300.0A**	**02/11/08**	**8043286**
		Dilution Factor: 5		MDL.....: 0.50		
Sulfate	**548**	**5.0**	**mg/L**	**MCAWW 300.0A**	**02/11/08**	**8043289**
		Dilution Factor: 5		MDL.....: 0.60		
Total Cyanide	ND	0.010	mg/L	MCAWW 335.2	02/12/08	8043311
		Dilution Factor: 1		MDL.....: 0.005		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020608-DN-04

TOTAL Metals

Lot-Sample #...: A8B090151-004 **Matrix.....:** WG
Date Sampled...: 02/06/08 18:05 **Date Received..:** 02/09/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8042011						
Barium	**0.022 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTE1AC**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**229 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTE1AD**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	02/11-02/12/08	KGVTE1AE
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	ND	0.10	mg/L	SW846 6010B	02/11-02/12/08	KGVTE1AF
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**1.4 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTE1AK**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**66.3 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTE1AG**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.0089 B,J**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTE1AH**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**63.7**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTE1AL**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.023 B**	**0.040**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTE1AJ**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020608-DN-04

DISSOLVED Metals

Lot-Sample #...: A8B090151-004 **Matrix.....:** WG
Date Sampled...: 02/06/08 18:05 **Date Received..:** 02/09/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8042011						
Barium	**0.022 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTE1AM**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**226 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTE1AN**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	**0.0044 B**	**0.010**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTE1AW**
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	ND	0.10	mg/L	SW846 6010B	02/11-02/13/08	KGVTE1AP
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**1.6 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTE1AU**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**65.7 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTE1AQ**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.0012 B,J**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTE1AR**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**65.2**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTE1AV**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.025 B**	**0.040**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVTE1AT**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020608-DN-04

General Chemistry

Lot-Sample #...: A8B090151-004 **Work Order #...:** KGVTE **Matrix.....:** WG
Date Sampled...: 02/06/08 18:05 **Date Received..:** 02/09/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**19.5**	**5.0**	**mg/L**	**MCAWW 300.0A**	**02/11/08**	**8043286**
		Dilution Factor: 5		MDL.....: 0.50		
Sulfate	**641**	**5.0**	**mg/L**	**MCAWW 300.0A**	**02/11/08**	**8043289**
		Dilution Factor: 5		MDL.....: 0.60		
Total Cyanide	**0.005 B**	**0.010**	**mg/L**	**MCAWW 335.2**	**02/12/08**	**8043311**
		Dilution Factor: 1		MDL.....: 0.005		

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020708-DN-05

TOTAL Metals

Lot-Sample #...: A8B090151-005 **Matrix.....:** WG
Date Sampled...: 02/07/08 08:20 **Date Received..:** 02/09/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8042011						
Barium	**0.049 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTH1AC**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**120 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTH1AD**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	02/11-02/13/08	KGVTH1AE
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	**0.20**	**0.10**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTH1AF**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**4.4 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTH1AK**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**43.5 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTH1AG**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.28 J**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTH1AH**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**105**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTH1AL**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.0062 B**	**0.040**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTH1AJ**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020708-DN-05

DISSOLVED Metals

Lot-Sample #...: A8B090151-005 **Matrix.....:** WG
Date Sampled...: 02/07/08 08:20 **Date Received..:** 02/09/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8042011						
Barium	**0.049 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTH1AM**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**121 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTH1AN**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	02/11-02/13/08	KGVTH1AW
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	**0.12**	**0.10**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTH1AP**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**4.3 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTH1AU**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**44.4 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTH1AQ**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.25 J**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTH1AR**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**103**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTH1AV**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.0062 B**	**0.040**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTH1AT**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020708-DN-05

General Chemistry

Lot-Sample #...: A8B090151-005 **Work Order #...:** KGVTH **Matrix.....:** WG
Date Sampled...: 02/07/08 08:20 **Date Received..:** 02/09/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**29.3**	**5.0**	**mg/L**	**MCAWW 300.0A**	**02/12/08**	**8043286**
		Dilution Factor: 5		MDL.....: 0.50		
Sulfate	**284**	**5.0**	**mg/L**	**MCAWW 300.0A**	**02/12/08**	**8043289**
		Dilution Factor: 5		MDL.....: 0.60		
Total Cyanide	ND	0.010	mg/L	MCAWW 335.2	02/12/08	8043311
		Dilution Factor: 1		MDL.....: 0.005		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020708-DN-06

TOTAL Metals

Lot-Sample #...: A8B090151-006 **Matrix.....:** WG
Date Sampled...: 02/07/08 09:00 **Date Received..:** 02/09/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8042011						
Barium	**0.020 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTM1AC**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**249 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTM1AD**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	02/11-02/13/08	KGVTM1AE
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	**0.72**	**0.10**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTM1AF**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**1.1 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTM1AK**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**104 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTM1AG**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.15 J**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTM1AH**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**48.5**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTM1AL**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.0087 B**	**0.040**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTM1AJ**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020708-DN-06

DISSOLVED Metals

Lot-Sample #...: A8B090151-006 **Matrix.....:** WG
Date Sampled...: 02/07/08 09:00 **Date Received..:** 02/09/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8042011						
Barium	**0.019 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTM1AM**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**250 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTM1AN**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	02/11-02/13/08	KGVTM1AW
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	**0.13**	**0.10**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTM1AP**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**1.2 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTM1AU**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**105 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTM1AQ**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.12 J**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTM1AR**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**48.8**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTM1AV**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.0084 B**	**0.040**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTM1AT**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020708-DN-06

General Chemistry

Lot-Sample #...: A8B090151-006 **Work Order #...:** KGVTM **Matrix.....:** WG
Date Sampled...: 02/07/08 09:00 **Date Received..:** 02/09/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**101**	**5.0**	**mg/L**	**MCAWW 300.0A**	**02/12/08**	**8043286**
		Dilution Factor: 5		MDL.....: 0.50		
Sulfate	**660**	**5.0**	**mg/L**	**MCAWW 300.0A**	**02/12/08**	**8043289**
		Dilution Factor: 5		MDL.....: 0.60		
Total Cyanide	ND	0.010	mg/L	MCAWW 335.2	02/12/08	8043311
		Dilution Factor: 1		MDL.....: 0.005		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020708-DN-07

TOTAL Metals

Lot-Sample #...: A8B090151-007 **Matrix.....:** WG
Date Sampled...: 02/07/08 10:20 **Date Received..:** 02/09/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8042011						
Barium	**0.021 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTX1AC**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**157 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTX1AD**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	02/11-02/13/08	KGVTX1AE
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	**3.3**	**0.10**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTX1AF**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**2.2 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTX1AK**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**31.6 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTX1AG**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.24 J**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTX1AH**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**41.1**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTX1AL**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.046**	**0.040**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTX1AJ**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020708-DN-07

DISSOLVED Metals

Lot-Sample #...: A8B090151-007 **Matrix.....:** WG
Date Sampled...: 02/07/08 10:20 **Date Received..:** 02/09/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8042011						
Barium	**0.018 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTX1AM**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**149 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTX1AN**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	02/11-02/13/08	KGVTX1AW
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	**1.5**	**0.10**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTX1AP**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**2.5 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTX1AU**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**30.9 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTX1AQ**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.22 J**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTX1AR**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**38.3**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTX1AV**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.042**	**0.040**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVTX1AT**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020708-DN-07

General Chemistry

Lot-Sample #...: A8B090151-007 **Work Order #...:** KGVTX **Matrix.....:** WG
Date Sampled...: 02/07/08 10:20 **Date Received..:** 02/09/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**23.4**	**1.0**	**mg/L**	**MCAWW 300.0A**	**02/12/08**	**8043286**
		Dilution Factor: 1		MDL.....: 0.10		
Sulfate	**126**	**1.0**	**mg/L**	**MCAWW 300.0A**	**02/12/08**	**8043289**
		Dilution Factor: 1		MDL.....: 0.12		
Total Cyanide	ND	0.010	mg/L	MCAWW 335.2	02/12/08	8043311
		Dilution Factor: 1		MDL.....: 0.005		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020708-DN-08

TOTAL Metals

Lot-Sample #...: A8B090151-008 **Matrix.....:** WG
Date Sampled...: 02/07/08 10:55 **Date Received..:** 02/09/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8042011						
Barium	**0.035 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT01AC**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**142 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT01AD**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	**0.012**	**0.010**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT01AE**
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	**4.7**	**0.10**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT01AF**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**9.1 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT01AK**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**45.3 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT01AG**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.28 J**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT01AH**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**23.2**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT01AL**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.028 B**	**0.040**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT01AJ**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020708-DN-08

DISSOLVED Metals

Lot-Sample #...: A8B090151-008 **Matrix.....:** WG
Date Sampled...: 02/07/08 10:55 **Date Received..:** 02/09/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8042011						
Barium	**0.024 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT01AM**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**169 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT01AN**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	02/11-02/13/08	KGVT01AW
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	**0.53**	**0.10**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT01AP**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**8.2 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT01AU**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**48.7 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT01AQ**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.22 J**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT01AR**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**32.6**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT01AV**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.034 B**	**0.040**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT01AT**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020708-DN-08

General Chemistry

Lot-Sample #...: A8B090151-008 **Work Order #...:** KGVT0 **Matrix.....:** WG
Date Sampled...: 02/07/08 10:55 **Date Received..:** 02/09/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**18.7**	**5.0**	**mg/L**	**MCAWW 300.0A**	**02/12/08**	**8043286**
		Dilution Factor: 5		MDL.....: 0.50		
Sulfate	**377**	**5.0**	**mg/L**	**MCAWW 300.0A**	**02/12/08**	**8043289**
		Dilution Factor: 5		MDL.....: 0.60		
Total Cyanide	ND	0.010	mg/L	MCAWW 335.2	02/12/08	8043311
		Dilution Factor: 1		MDL.....: 0.005		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020708-DN-09

TOTAL Metals

Lot-Sample #...: A8B090151-009 **Matrix.....:** WG
Date Sampled...: 02/07/08 12:35 **Date Received..:** 02/09/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8042011						
Barium	**0.030 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT21AC**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**61.0 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT21AD**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	02/11-02/13/08	KGVT21AE
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	**0.086 B**	**0.10**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT21AF**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**3.8 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT21AK**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**16.1 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT21AG**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.021 J**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT21AH**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**115**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT21AL**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	ND	0.040	mg/L	SW846 6010B	02/11-02/13/08	KGVT21AJ
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020708-DN-09

DISSOLVED Metals

Lot-Sample #...: A8B090151-009 **Matrix.....:** WG
Date Sampled...: 02/07/08 12:35 **Date Received..:** 02/09/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8042011						
Barium	**0.033 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT21AM**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**66.9 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT21AN**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	02/11-02/13/08	KGVT21AW
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	**0.099 B**	**0.10**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT21AP**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**3.6 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT21AU**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**17.7 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT21AQ**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.041 J**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT21AR**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**104**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT21AV**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	ND	0.040	mg/L	SW846 6010B	02/11-02/13/08	KGVT21AT
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020708-DN-09

General Chemistry

Lot-Sample #...: A8B090151-009 **Work Order #...:** KGVT2 **Matrix.....:** WG
Date Sampled...: 02/07/08 12:35 **Date Received..:** 02/09/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**19.4**	**1.0**	**mg/L**	**MCAWW 300.0A**	**02/12/08**	**8043286**
		Dilution Factor: 1		MDL.....: 0.10		
Sulfate	**85.3**	**1.0**	**mg/L**	**MCAWW 300.0A**	**02/12/08**	**8043289**
		Dilution Factor: 1		MDL.....: 0.12		
Total Cyanide	ND	0.010	mg/L	MCAWW 335.2	02/12/08	8043311
		Dilution Factor: 1		MDL.....: 0.005		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020708-DN-10

TOTAL Metals

Lot-Sample #...: A8B090151-010 Matrix.....: WG
Date Sampled...: 02/07/08 13:10 Date Received..: 02/09/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8042011						
Barium	**0.067 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT61AC**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**134 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT61AD**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	02/11-02/13/08	KGVT61AE
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	**0.59**	**0.10**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT61AF**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**2.1 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT61AK**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**35.4 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT61AG**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.030 J**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT61AH**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**50.4**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT61AL**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.0036 B**	**0.040**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT61AJ**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020708-DN-10

DISSOLVED Metals

Lot-Sample #...: A8B090151-010 **Matrix.....:** WG
Date Sampled...: 02/07/08 13:10 **Date Received..:** 02/09/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8042011						
Barium	**0.064 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT61AM**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**125 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT61AN**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	02/11-02/13/08	KGVT61AW
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	**0.26**	**0.10**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT61AP**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**2.1 B,J,E**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT61AU**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**32.6 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT61AQ**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.024 J,E**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT61AR**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**51.3**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/13/08**	**KGVT61AV**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	ND	0.040	mg/L	SW846 6010B	02/11-02/13/08	KGVT61AT
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

E Matrix interference.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020708-DN-10

General Chemistry

Lot-Sample #...: A8B090151-010 **Work Order #...:** KGVT6 **Matrix.....:** WG
Date Sampled...: 02/07/08 13:10 **Date Received..:** 02/09/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**10.5**	**1.0**	**mg/L**	**MCAWW 300.0A**	**02/12/08**	**8043286**
		Dilution Factor: 1		MDL.....: 0.10		
Sulfate	**151**	**1.0**	**mg/L**	**MCAWW 300.0A**	**02/12/08**	**8043289**
		Dilution Factor: 1		MDL.....: 0.12		
Total Cyanide	ND	0.010	mg/L	MCAWW 335.2	02/12/08	8043311
		Dilution Factor: 1		MDL.....: 0.005		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020708-DN-11

TOTAL Metals

Lot-Sample #...: A8B090151-011 **Matrix.....:** WG
Date Sampled...: 02/07/08 14:45 **Date Received..:** 02/09/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8042012						
Barium	**0.067 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVT71AC**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**118 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVT71AD**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	02/11-02/12/08	KGVT71AE
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	**7.4**	**0.10**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVT71AF**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**1.2 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVT71AK**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**26.6 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVT71AG**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.14 J**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVT71AH**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**8.2**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVT71AL**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	ND	0.040	mg/L	SW846 6010B	02/11-02/12/08	KGVT71AJ
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020708-DN-11

DISSOLVED Metals

Lot-Sample #...: A8B090151-011 **Matrix.....:** WG
Date Sampled...: 02/07/08 14:45 **Date Received..:** 02/09/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8042012						
Barium	**0.058 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVT71AM**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**117 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVT71AN**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	02/11-02/12/08	KGVT71AW
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	**1.7**	**0.10**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVT71AP**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**1.2 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVT71AU**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**26.5 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVT71AQ**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.14 J**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVT71AR**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**7.9**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVT71AV**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	ND	0.040	mg/L	SW846 6010B	02/11-02/12/08	KGVT71AT
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020708-DN-11

General Chemistry

Lot-Sample #...: A8B090151-011 **Work Order #...:** KGVT7 **Matrix.....:** WG
Date Sampled...: 02/07/08 14:45 **Date Received..:** 02/09/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**7.9**	**1.0**	**mg/L**	**MCAWW 300.0A**	**02/12/08**	**8043286**
		Dilution Factor: 1		MDL.....: 0.10		
Sulfate	**65.7**	**1.0**	**mg/L**	**MCAWW 300.0A**	**02/12/08**	**8043289**
		Dilution Factor: 1		MDL.....: 0.12		
Total Cyanide	**0.076**	**0.010**	**mg/L**	**MCAWW 335.2**	**02/12/08**	**8043311**
		Dilution Factor: 1		MDL.....: 0.005		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020708-DN-12

TOTAL Metals

Lot-Sample #...: A8B090151-012 **Matrix.....:** WG
Date Sampled...: 02/07/08 15:20 **Date Received..:** 02/09/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8042012						
Barium	**0.027 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVD1AC**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**115 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVD1AD**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	02/11-02/12/08	KGVVD1AE
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	**0.16**	**0.10**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVD1AF**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**1.0 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVD1AK**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**22.4 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVD1AG**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**1.1 J**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVD1AH**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**15.4**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVD1AL**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	ND	0.040	mg/L	SW846 6010B	02/11-02/12/08	KGVVD1AJ
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020708-DN-12

DISSOLVED Metals

Lot-Sample #...: A8B090151-012 **Matrix.....:** WG
Date Sampled...: 02/07/08 15:20 **Date Received..:** 02/09/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8042012						
Barium	**0.022 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVD1AM**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**114 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVD1AN**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	02/11-02/12/08	KGVVD1AW
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	ND	0.10	mg/L	SW846 6010B	02/11-02/12/08	KGVVD1AP
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**1.1 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVD1AU**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**22.9 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVD1AQ**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.10 J**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVD1AR**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**14.1**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVD1AV**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	ND	0.040	mg/L	SW846 6010B	02/11-02/12/08	KGVVD1AT
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020708-DN-12

General Chemistry

Lot-Sample #...: A8B090151-012 **Work Order #...:** KGVVD **Matrix.....:** WG
Date Sampled...: 02/07/08 15:20 **Date Received..:** 02/09/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**3.0**	**1.0**	**mg/L**	**MCAWW 300.0A**	**02/12/08**	**8043286**
		Dilution Factor: 1		MDL.....: 0.10		
Sulfate	**47.1**	**1.0**	**mg/L**	**MCAWW 300.0A**	**02/12/08**	**8043289**
		Dilution Factor: 1		MDL.....: 0.12		
Total Cyanide	ND	0.010	mg/L	MCAWW 335.2	02/12/08	8043311
		Dilution Factor: 1		MDL.....: 0.005		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020708-DN-13

TOTAL Metals

Lot-Sample #...: A8B090151-013 **Matrix.....:** WG
Date Sampled...: 02/07/08 16:50 **Date Received..:** 02/09/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8042012						
Barium	**0.026 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVF1AC**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**117 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVF1AD**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	02/11-02/12/08	KGVVF1AE
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	**0.098 B**	**0.10**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVF1AF**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**1.0 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVF1AK**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**23.2 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVF1AG**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.83 J**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVF1AH**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**14.8**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVF1AL**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	ND	0.040	mg/L	SW846 6010B	02/11-02/12/08	KGVVF1AJ
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020708-DN-13

DISSOLVED Metals

Lot-Sample #...: A8B090151-013 **Matrix.....:** WG
Date Sampled...: 02/07/08 16:50 **Date Received..:** 02/09/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8042012						
Barium	**0.023 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVF1AM**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**118 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVF1AN**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	02/11-02/12/08	KGVVF1AW
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	ND	0.10	mg/L	SW846 6010B	02/11-02/12/08	KGVVF1AP
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**1.0 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVF1AU**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**23.8 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVF1AQ**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.13 J**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVF1AR**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**15.1**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVF1AV**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	ND	0.040	mg/L	SW846 6010B	02/11-02/12/08	KGVVF1AT
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020708-DN-13

General Chemistry

Lot-Sample #...: A8B090151-013 **Work Order #...:** KGVVF **Matrix.....:** WG
Date Sampled...: 02/07/08 16:50 **Date Received..:** 02/09/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**3.1**	**1.0**	**mg/L**	**MCAWW 300.0A**	**02/12/08**	**8043292**
		Dilution Factor: 1		MDL.....: 0.10		
Sulfate	**47.4**	**1.0**	**mg/L**	**MCAWW 300.0A**	**02/12/08**	**8043289**
		Dilution Factor: 1		MDL.....: 0.12		
Total Cyanide	**0.089**	**0.010**	**mg/L**	**MCAWW 335.2**	**02/12/08**	**8043311**
		Dilution Factor: 1		MDL.....: 0.005		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020708-DN-14

TOTAL Metals

Lot-Sample #...: A8B090151-014 Matrix.....: WG
Date Sampled...: 02/07/08 17:25 Date Received..: 02/09/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8042012						
Barium	0.023 B,J	0.20	mg/L	SW846 6010B	02/11-02/12/08	KGVVG1AC
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	95.5 J	5.0	mg/L	SW846 6010B	02/11-02/12/08	KGVVG1AD
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	0.0040 B	0.010	mg/L	SW846 6010B	02/11-02/12/08	KGVVG1AE
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	0.27	0.10	mg/L	SW846 6010B	02/11-02/12/08	KGVVG1AF
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	557 J	25.0	mg/L	SW846 6010B	02/11-02/12/08	KGVVG1AK
		Dilution Factor: 5		MDL.....: 0.36		
Magnesium	22.7 J	5.0	mg/L	SW846 6010B	02/11-02/12/08	KGVVG1AG
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	0.063 J	0.015	mg/L	SW846 6010B	02/11-02/12/08	KGVVG1AH
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	81.4	5.0	mg/L	SW846 6010B	02/11-02/12/08	KGVVG1AL
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	0.26	0.040	mg/L	SW846 6010B	02/11-02/12/08	KGVVG1AJ
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020708-DN-14

DISSOLVED Metals

Lot-Sample #...: A8B090151-014 **Matrix.....:** WG
Date Sampled...: 02/07/08 17:25 **Date Received..:** 02/09/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8042012						
Barium	**0.022 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVG1AM**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**91.1 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVG1AN**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	02/11-02/12/08	KGVVG1AW
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	**0.12**	**0.10**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVG1AP**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**593 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVG1AU**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**21.6 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVG1AQ**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.059 J**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVG1AR**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**78.0**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVG1AV**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.24**	**0.040**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVG1AT**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020708-DN-14

General Chemistry

Lot-Sample #...: A8B090151-014 **Work Order #...:** KGVVG **Matrix.....:** WG
Date Sampled...: 02/07/08 17:25 **Date Received..:** 02/09/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**156**	**5.0**	**mg/L**	**MCAWW 300.0A**	**02/12/08**	**8043292**
		Dilution Factor: 5		MDL.....: 0.50		
Sulfate	**921**	**5.0**	**mg/L**	**MCAWW 300.0A**	**02/12/08**	**8043289**
		Dilution Factor: 5		MDL.....: 0.60		
Total Cyanide	ND	0.010	mg/L	MCAWW 335.2	02/12/08	8043311
		Dilution Factor: 1		MDL.....: 0.005		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020808-DN-15

TOTAL Metals

Lot-Sample #...: A8B090151-015 **Matrix.....:** WG
Date Sampled...: 02/08/08 17:25 **Date Received..:** 02/09/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8042012						
Barium	**0.016 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVK1AC**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**65.3 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVK1AD**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	02/11-02/12/08	KGVVK1AE
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	ND	0.10	mg/L	SW846 6010B	02/11-02/12/08	KGVVK1AF
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**1300 J**	**100**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVK1AK**
		Dilution Factor: 20		MDL.....: 1.4		
Magnesium	**8.1 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVK1AG**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.023 J**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVK1AH**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**183**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVK1AL**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.64**	**0.040**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVK1AJ**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020808-DN-15

DISSOLVED Metals

Lot-Sample #...: A8B090151-015 **Matrix.....:** WG
Date Sampled...: 02/08/08 17:25 **Date Received..:** 02/09/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8042012						
Barium	**0.016 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVK1AM**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**67.1 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVK1AN**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	02/11-02/12/08	KGVVK1AW
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	ND	0.10	mg/L	SW846 6010B	02/11-02/12/08	KGVVK1AP
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**1300 J**	**100**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVK1AU**
		Dilution Factor: 20		MDL.....: 1.4		
Magnesium	**8.3 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVK1AQ**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.023 J**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVK1AR**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**188**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVK1AV**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.66**	**0.040**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVK1AT**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020808-DN-15

General Chemistry

Lot-Sample #...: A8B090151-015 **Work Order #...:** KGVVK **Matrix.....:** WG
Date Sampled...: 02/08/08 17:25 **Date Received..:** 02/09/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**400**	**10.0**	**mg/L**	**MCAWW 300.0A**	**02/12/08**	**8043292**
		Dilution Factor: 10		MDL.....: 1.0		
Sulfate	**1920**	**10.0**	**mg/L**	**MCAWW 300.0A**	**02/12/08**	**8043289**
		Dilution Factor: 10		MDL.....: 1.2		
Total Cyanide	ND	0.010	mg/L	MCAWW 335.2	02/13/08	8044354
		Dilution Factor: 1		MDL.....: 0.005		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020808-DN-16

TOTAL Metals

Lot-Sample #...: A8B090151-016 **Matrix.....:** WG
Date Sampled...: 02/08/08 09:45 **Date Received..:** 02/09/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8042012						
Barium	**0.016 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVN1AC**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**34.5 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVN1AD**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	02/11-02/12/08	KGVVN1AE
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	**1.3**	**0.10**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVN1AF**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**45.4 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVN1AK**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**7.0 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVN1AG**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.013 B,J**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVN1AH**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**5.9**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVN1AL**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.020 B**	**0.040**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVN1AJ**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020808-DN-16

DISSOLVED Metals

Lot-Sample #...: A8B090151-016 **Matrix.....:** WG
Date Sampled...: 02/08/08 09:45 **Date Received..:** 02/09/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8042012						
Barium	**0.014 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVN1AM**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**39.8 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVN1AN**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	02/11-02/12/08	KGVVN1AW
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	**0.084 B**	**0.10**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVN1AP**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**52.1 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVN1AU**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**7.9 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVN1AQ**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.0047 B,J**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVN1AR**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**7.5**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVN1AV**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.021 B**	**0.040**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVN1AT**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020808-DN-16

General Chemistry

Lot-Sample #...: A8B090151-016 **Work Order #...:** KGVVN **Matrix.....:** WG
Date Sampled...: 02/08/08 09:45 **Date Received..:** 02/09/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**12.0**	**1.0**	**mg/L**	**MCAWW 300.0A**	**02/12/08**	**8043292**
		Dilution Factor: 1		MDL.....: 0.10		
Sulfate	**96.8**	**1.0**	**mg/L**	**MCAWW 300.0A**	**02/12/08**	**8043289**
		Dilution Factor: 1		MDL.....: 0.12		
Total Cyanide	**0.042**	**0.010**	**mg/L**	**MCAWW 335.2**	**02/13/08**	**8044354**
		Dilution Factor: 1		MDL.....: 0.005		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020808-DN-17

TOTAL Metals

Lot-Sample #...: A8B090151-017 Matrix.....: WG
Date Sampled...: 02/08/08 10:25 Date Received..: 02/09/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8042012						
Barium	0.016 B,J	0.20	mg/L	SW846 6010B	02/11-02/12/08	KGVVP1AC
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	47.8 J	5.0	mg/L	SW846 6010B	02/11-02/12/08	KGVVP1AD
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	02/11-02/12/08	KGVVP1AE
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	1.3	0.10	mg/L	SW846 6010B	02/11-02/12/08	KGVVP1AF
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	162 J	5.0	mg/L	SW846 6010B	02/11-02/12/08	KGVVP1AK
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	7.0 J	5.0	mg/L	SW846 6010B	02/11-02/12/08	KGVVP1AG
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	0.034 J	0.015	mg/L	SW846 6010B	02/11-02/12/08	KGVVP1AH
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	29.5	5.0	mg/L	SW846 6010B	02/11-02/12/08	KGVVP1AL
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	0.11	0.040	mg/L	SW846 6010B	02/11-02/12/08	KGVVP1AJ
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020808-DN-17

DISSOLVED Metals

Lot-Sample #...: A8B090151-017 **Matrix.....:** WG
Date Sampled...: 02/08/08 10:25 **Date Received..:** 02/09/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8042012						
Barium	**0.015 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVP1AM**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**56.9 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVP1AN**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	02/11-02/12/08	KGVVP1AW
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	**0.088 B**	**0.10**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVP1AP**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**191 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVP1AU**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**8.1 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVP1AQ**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.020 J**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVP1AR**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**35.4**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVP1AV**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.13**	**0.040**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVP1AT**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020808-DN-17

General Chemistry

Lot-Sample #...: A8B090151-017 **Work Order #...:** KGVVP **Matrix.....:** WG
Date Sampled...: 02/08/08 10:25 **Date Received..:** 02/09/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**54.3**	**5.0**	**mg/L**	**MCAWW 300.0A**	**02/12/08**	**8043292**
		Dilution Factor: 5		MDL.....: 0.50		
Sulfate	**397**	**5.0**	**mg/L**	**MCAWW 300.0A**	**02/12/08**	**8043293**
		Dilution Factor: 5		MDL.....: 0.60		
Total Cyanide	ND	0.010	mg/L	MCAWW 335.2	02/13/08	8044354
		Dilution Factor: 1		MDL.....: 0.005		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020808-DN-18

TOTAL Metals

Lot-Sample #...: A8B090151-018 **Matrix.....:** WG
Date Sampled...: 02/08/08 11:25 **Date Received..:** 02/09/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8042012						
Barium	**0.10 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVQ1AC**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**211 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVQ1AD**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	02/11-02/12/08	KGVVQ1AE
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	**0.57**	**0.10**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVQ1AF**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**556 J**	**25.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVQ1AK**
		Dilution Factor: 5		MDL.....: 0.36		
Magnesium	**38.3 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVQ1AG**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.97 J**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVQ1AH**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**114**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVQ1AL**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.52**	**0.040**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVQ1AJ**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020808-DN-18

DISSOLVED Metals

Lot-Sample #...: A8B090151-018 **Matrix.....:** WG
Date Sampled...: 02/08/08 11:25 **Date Received..:** 02/09/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8042012						
Barium	**0.10 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVQ1AM**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**213 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVQ1AN**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	02/11-02/12/08	KGVVQ1AW
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	**0.52**	**0.10**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVQ1AP**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**557 J**	**25.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVQ1AU**
		Dilution Factor: 5		MDL.....: 0.36		
Magnesium	**38.9 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVQ1AQ**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**1.0 J**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVQ1AR**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**116**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVQ1AV**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.52**	**0.040**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVQ1AT**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020808-DN-18

General Chemistry

Lot-Sample #...: A8B090151-018 **Work Order #...:** KGVVQ **Matrix.....:** WG
Date Sampled...: 02/08/08 11:25 **Date Received..:** 02/09/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**208**	**10.0**	**mg/L**	**MCAWW 300.0A**	**02/12/08**	**8043292**
		Dilution Factor: 10		MDL.....: 1.0		
Sulfate	**1150**	**10.0**	**mg/L**	**MCAWW 300.0A**	**02/12/08**	**8043293**
		Dilution Factor: 10		MDL.....: 1.2		
Total Cyanide	ND	0.010	mg/L	MCAWW 335.2	02/13/08	8044354
		Dilution Factor: 1		MDL.....: 0.005		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020808-DN-19

TOTAL Metals

-Sample #...: A8B090151-019 **Matrix.....:** WG
e Sampled...: 02/08/08 12:10 **Date Received..:** 02/09/08

AMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
p Batch #...: 8042012						
ium	0.033 B,J	0.20	mg/L	SW846 6010B	02/11-02/12/08	KGVVT1AC
		Dilution Factor: 1		MDL.....: 0.00067		
cium	338 J	5.0	mg/L	SW846 6010B	02/11-02/12/08	KGVVT1AD
		Dilution Factor: 1		MDL.....: 0.13		
omium	ND	0.010	mg/L	SW846 6010B	02/11-02/12/08	KGVVT1AE
		Dilution Factor: 1		MDL.....: 0.0022		
n	0.28	0.10	mg/L	SW846 6010B	02/11-02/12/08	KGVVT1AF
		Dilution Factor: 1		MDL.....: 0.081		
assium	508 J	5.0	mg/L	SW846 6010B	02/11-02/12/08	KGVVT1AK
		Dilution Factor: 1		MDL.....: 0.072		
nesium	81.2 J	5.0	mg/L	SW846 6010B	02/11-02/12/08	KGVVT1AG
		Dilution Factor: 1		MDL.....: 0.034		
ganese	3.8 J	0.015	mg/L	SW846 6010B	02/11-02/12/08	KGVVT1AH
		Dilution Factor: 1		MDL.....: 0.00041		
ium	141	5.0	mg/L	SW846 6010B	02/11-02/12/08	KGVVT1AL
		Dilution Factor: 1		MDL.....: 0.59		
kel	0.86	0.040	mg/L	SW846 6010B	02/11-02/12/08	KGVVT1AJ
		Dilution Factor: 1		MDL.....: 0.0032		

E(S):

timated result. Result is less than RL.

thod blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020808-DN-19

DISSOLVED Metals

Lot-Sample #...: A8B090151-019 **Matrix.....:** WG
Date Sampled...: 02/08/08 12:10 **Date Received..:** 02/09/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8042012						
Barium	**0.035 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVT1AM**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**363 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVT1AN**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	02/11-02/12/08	KGVVT1AW
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	**0.27**	**0.10**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVT1AP**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**559 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVT1AU**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**87.7 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVT1AQ**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**4.1 J**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVT1AR**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**152**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVT1AV**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.93**	**0.040**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVVT1AT**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020808-DN-19

General Chemistry

Lot-Sample #...: A8B090151-019 **Work Order #...:** KGVVT **Matrix.....:** WG
Date Sampled...: 02/08/08 12:10 **Date Received..:** 02/09/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**284**	**10.0**	**mg/L**	**MCAWW 300.0A**	**02/12/08**	**8043292**
		Dilution Factor: 10		MDL.....: 1.0		
Sulfate	**1440**	**10.0**	**mg/L**	**MCAWW 300.0A**	**02/12/08**	**8043293**
		Dilution Factor: 10		MDL.....: 1.2		
Total Cyanide	ND	0.010	mg/L	MCAWW 335.2	02/13/08	8044354
		Dilution Factor: 1		MDL.....: 0.005		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020808-DN-20

TOTAL Metals

Lot-Sample #...: A8B090151-020 Matrix.....: WG
Date Sampled...: 02/08/08 12:55 Date Received..: 02/09/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8042012						
Barium	0.039 B,J	0.20	mg/L	SW846 6010B	02/11-02/12/08	KGVV01AC
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	193 J	5.0	mg/L	SW846 6010B	02/11-02/12/08	KGVV01AD
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	0.0086 B	0.010	mg/L	SW846 6010B	02/11-02/12/08	KGVV01AE
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	ND	0.10	mg/L	SW846 6010B	02/11-02/12/08	KGVV01AF
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	565 J	5.0	mg/L	SW846 6010B	02/11-02/12/08	KGVV01AK
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	50.2 J	5.0	mg/L	SW846 6010B	02/11-02/12/08	KGVV01AG
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	1.4 J	0.015	mg/L	SW846 6010B	02/11-02/12/08	KGVV01AH
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	101	5.0	mg/L	SW846 6010B	02/11-02/12/08	KGVV01AL
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	0.64	0.040	mg/L	SW846 6010B	02/11-02/12/08	KGVV01AJ
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020808-DN-20

DISSOLVED Metals

Lot-Sample #...: A8B090151-020 **Matrix.....:** WG
Date Sampled...: 02/08/08 12:55 **Date Received..:** 02/09/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8042012						
Barium	**0.040 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVV01AM**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**204 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVV01AN**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	**0.0097 B**	**0.010**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVV01AW**
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	**0.10**	**0.10**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVV01AP**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**595 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVV01AU**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**53.2 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVV01AQ**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**1.6 J**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVV01AR**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**108**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVV01AV**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.68**	**0.040**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVV01AT**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020808-DN-20

General Chemistry

Lot-Sample #...: A8B090151-020 **Work Order #...:** KGVV0 **Matrix.....:** WG
Date Sampled...: 02/08/08 12:55 **Date Received..:** 02/09/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**180**	**10.0**	**mg/L**	**MCAWW 300.0A**	**02/12/08**	**8043292**
		Dilution Factor: 10		MDL.....: 1.0		
Sulfate	**967**	**10.0**	**mg/L**	**MCAWW 300.0A**	**02/12/08**	**8043293**
		Dilution Factor: 10		MDL.....: 1.2		
Total Cyanide	ND	0.010	mg/L	MCAWW 335.2	02/13/08	8044354
		Dilution Factor: 1		MDL.....: 0.005		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020808-DN-21

TOTAL Metals

Lot-Sample #...: A8B090151-021 Matrix.....: WG
Date Sampled...: 02/08/08 13:35 Date Received..: 02/09/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8042015						
Barium	**0.062 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVV11AC**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**328 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVV11AD**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	02/11-02/12/08	KGVV11AE
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	**0.15**	**0.10**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVV11AF**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**310 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVV11AK**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**81.8 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVV11AG**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**7.4 J**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVV11AH**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**103**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVV11AL**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.55**	**0.040**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVV11AJ**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020808-DN-21

DISSOLVED Metals

Lot-Sample #...: A8B090151-021 **Matrix.....:** WG
Date Sampled...: 02/08/08 13:35 **Date Received..:** 02/09/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8042015						
Barium	**0.064 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVV11AM**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**341 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVV11AN**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	02/11-02/12/08	KGVV11AW
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	**0.17**	**0.10**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVV11AP**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**308 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVV11AU**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**83.7 J**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVV11AQ**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**8.1 J**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVV11AR**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**104**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVV11AV**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.55**	**0.040**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGVV11AT**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-020808-DN-21

General Chemistry

Lot-Sample #...: A8B090151-021 **Work Order #...:** KGVV1 **Matrix.....:** WG
Date Sampled...: 02/08/08 13:35 **Date Received..:** 02/09/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**167**	**10.0**	**mg/L**	**MCAWW 300.0A**	**02/12/08**	**8043292**
		Dilution Factor: 10		MDL.....: 1.0		
Sulfate	**1340**	**10.0**	**mg/L**	**MCAWW 300.0A**	**02/12/08**	**8043293**
		Dilution Factor: 10		MDL.....: 1.2		
Total Cyanide	ND	0.010	mg/L	MCAWW 335.2	02/13/08	8044354
		Dilution Factor: 1		MDL.....: 0.005		

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QUALITY CONTROL SECTION

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A8B090151 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A8B110000-011 **Prep Batch #...:** 8042011						
Barium	**0.00099 B**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGWFA1AA**
		Dilution Factor: 1				
Calcium	**0.24 B**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGWFA1AC**
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/11-02/12/08	KGWFA1AD
		Dilution Factor: 1				
Iron	ND	0.10	mg/L	SW846 6010B	02/11-02/12/08	KGWFA1AE
		Dilution Factor: 1				
Magnesium	**0.080 B**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGWFA1AF**
		Dilution Factor: 1				
Manganese	**0.00059 B**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGWFA1AG**
		Dilution Factor: 1				
Nickel	ND	0.040	mg/L	SW846 6010B	02/11-02/12/08	KGWFA1AH
		Dilution Factor: 1				
Potassium	**0.15 B**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGWFA1AJ**
		Dilution Factor: 1				
Sodium	ND	5.0	mg/L	SW846 6010B	02/11-02/12/08	KGWFA1AK
		Dilution Factor: 1				
MB Lot-Sample #: A8B110000-012 **Prep Batch #...:** 8042012						
Barium	**0.00097 B**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGWFD1AA**
		Dilution Factor: 1				
Calcium	**0.24 B**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGWFD1AC**
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/11-02/12/08	KGWFD1AD
		Dilution Factor: 1				
Iron	ND	0.10	mg/L	SW846 6010B	02/11-02/12/08	KGWFD1AE
		Dilution Factor: 1				
Magnesium	**0.081 B**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGWFD1AF**
		Dilution Factor: 1				

(Continued on next page)

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A8B090151 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**0.00053 B**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGWFD1AG**
		Dilution Factor: 1				
Nickel	ND	0.040	mg/L	SW846 6010B	02/11-02/12/08	KGWFD1AH
		Dilution Factor: 1				
Potassium	**0.16 B**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGWFD1AJ**
		Dilution Factor: 1				
Sodium	ND	5.0	mg/L	SW846 6010B	02/11-02/12/08	KGWFD1AK
		Dilution Factor: 1				

MB Lot-Sample #: A8B110000-015 **Prep Batch #...:** 8042015

Barium	**0.0013 B**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGWFK1A3**
		Dilution Factor: 1				
Calcium	**0.40 B**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGWFK1A4**
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/11-02/12/08	KGWFK1A5
		Dilution Factor: 1				
Iron	ND	0.10	mg/L	SW846 6010B	02/11-02/12/08	KGWFK1A6
		Dilution Factor: 1				
Magnesium	**0.096 B**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGWFK1A7**
		Dilution Factor: 1				
Manganese	**0.00077 B**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGWFK1A8**
		Dilution Factor: 1				
Nickel	ND	0.040	mg/L	SW846 6010B	02/11-02/12/08	KGWFK1A9
		Dilution Factor: 1				
Potassium	**0.16 B**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGWFK1AX**
		Dilution Factor: 1				
Sodium	ND	5.0	mg/L	SW846 6010B	02/11-02/12/08	KGWFK1CA
		Dilution Factor: 1				

NOTE(S):

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

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: A8B090151 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A8B110000-011 **Prep Batch #...:** 8042011						
Barium	**0.00099 B**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGWFA1AL**
		Dilution Factor: 1				
Calcium	**0.24 B**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGWFA1AM**
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/11-02/12/08	KGWFA1AV
		Dilution Factor: 1				
Iron	ND	0.10	mg/L	SW846 6010B	02/11-02/12/08	KGWFA1AN
		Dilution Factor: 1				
Magnesium	**0.080 B**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGWFA1AP**
		Dilution Factor: 1				
Manganese	**0.00059 B**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGWFA1AQ**
		Dilution Factor: 1				
Nickel	ND	0.040	mg/L	SW846 6010B	02/11-02/12/08	KGWFA1AR
		Dilution Factor: 1				
Potassium	**0.15 B**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGWFA1AT**
		Dilution Factor: 1				
Sodium	ND	5.0	mg/L	SW846 6010B	02/11-02/12/08	KGWFA1AU
		Dilution Factor: 1				
MB Lot-Sample #: A8B110000-012 **Prep Batch #...:** 8042012						
Barium	**0.00097 B**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGWFD1AW**
		Dilution Factor: 1				
Calcium	**0.24 B**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGWFD1AX**
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/11-02/12/08	KGWFD1A6
		Dilution Factor: 1				
Iron	ND	0.10	mg/L	SW846 6010B	02/11-02/12/08	KGWFD1A0
		Dilution Factor: 1				
Magnesium	**0.081 B**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGWFD1A1**
		Dilution Factor: 1				

(Continued on next page)

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: A8B090151 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	**0.00053 B**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGWFD1A2**
		Dilution Factor: 1				
Nickel	ND	0.040	mg/L	SW846 6010B	02/11-02/12/08	KGWFD1A3
		Dilution Factor: 1				
Potassium	**0.16 B**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGWFD1A4**
		Dilution Factor: 1				
Sodium	ND	5.0	mg/L	SW846 6010B	02/11-02/12/08	KGWFD1A5
		Dilution Factor: 1				

MB Lot-Sample #: A8B110000-015 **Prep Batch #...:** 8042015

Barium	**0.0013 B**	**0.20**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGWFK1CC**
		Dilution Factor: 1				
Calcium	**0.40 B**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGWFK1CD**
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/11-02/12/08	KGWFK1CL
		Dilution Factor: 1				
Iron	ND	0.10	mg/L	SW846 6010B	02/11-02/12/08	KGWFK1CE
		Dilution Factor: 1				
Magnesium	**0.096 B**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGWFK1CF**
		Dilution Factor: 1				
Manganese	**0.00077 B**	**0.015**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGWFK1CG**
		Dilution Factor: 1				
Nickel	ND	0.040	mg/L	SW846 6010B	02/11-02/12/08	KGWFK1CH
		Dilution Factor: 1				
Potassium	**0.16 B**	**5.0**	**mg/L**	**SW846 6010B**	**02/11-02/12/08**	**KGWFK1CJ**
		Dilution Factor: 1				
Sodium	ND	5.0	mg/L	SW846 6010B	02/11-02/12/08	KGWFK1CK
		Dilution Factor: 1				

NOTE(S):

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

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A8B090151 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		Work Order #: KG0M61AA		MB Lot-Sample #:	A8B120000-286	
	ND	1.0	mg/L	MCAWW 300.0A	02/11/08	8043286
		Dilution Factor: 1				
Chloride		Work Order #: KG0N11AA		MB Lot-Sample #:	A8B120000-292	
	ND	1.0	mg/L	MCAWW 300.0A	02/12/08	8043292
		Dilution Factor: 1				
Sulfate		Work Order #: KG0NM1AA		MB Lot-Sample #:	A8B120000-289	
	ND	1.0	mg/L	MCAWW 300.0A	02/12/08	8043289
		Dilution Factor: 1				
Sulfate		Work Order #: KG0N41AA		MB Lot-Sample #:	A8B120000-293	
	ND	1.0	mg/L	MCAWW 300.0A	02/12/08	8043293
		Dilution Factor: 1				
Total Cyanide		Work Order #: KG0QC1AA		MB Lot-Sample #:	A8B120000-311	
	ND	0.010	mg/L	MCAWW 335.2	02/12/08	8043311
		Dilution Factor: 1				
Total Cyanide		Work Order #: KG2J51AA		MB Lot-Sample #:	A8B130000-354	
	ND	0.010	mg/L	MCAWW 335.2	02/13/08	8044354
		Dilution Factor: 1				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A8B090151 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A8B110000-011 **Prep Batch #...:** 8042011					
Barium	86	(80 - 120)	SW846 6010B	02/11-02/12/08	KGWFA1AW
		Dilution Factor: 1			
Calcium	85	(80 - 120)	SW846 6010B	02/11-02/12/08	KGWFA1AX
		Dilution Factor: 1			
Chromium	87	(80 - 120)	SW846 6010B	02/11-02/12/08	KGWFA1A0
		Dilution Factor: 1			
Iron	93	(77 - 122)	SW846 6010B	02/11-02/12/08	KGWFA1A1
		Dilution Factor: 1			
Magnesium	87	(80 - 120)	SW846 6010B	02/11-02/12/08	KGWFA1A2
		Dilution Factor: 1			
Manganese	93	(80 - 120)	SW846 6010B	02/11-02/12/08	KGWFA1A3
		Dilution Factor: 1			
Nickel	87	(80 - 120)	SW846 6010B	02/11-02/12/08	KGWFA1A4
		Dilution Factor: 1			
Potassium	83	(80 - 120)	SW846 6010B	02/11-02/12/08	KGWFA1A5
		Dilution Factor: 1			
Sodium	84	(80 - 120)	SW846 6010B	02/11-02/12/08	KGWFA1A6
		Dilution Factor: 1			
LCS Lot-Sample#: A8B110000-012 **Prep Batch #...:** 8042012					
Barium	88	(80 - 120)	SW846 6010B	02/11-02/12/08	KGWFD1AL
		Dilution Factor: 1			
Calcium	87	(80 - 120)	SW846 6010B	02/11-02/12/08	KGWFD1AM
		Dilution Factor: 1			
Chromium	88	(80 - 120)	SW846 6010B	02/11-02/12/08	KGWFD1AN
		Dilution Factor: 1			
Iron	96	(77 - 122)	SW846 6010B	02/11-02/12/08	KGWFD1AP
		Dilution Factor: 1			

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A8B090151 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	88	(80 - 120)	SW846 6010B	02/11-02/12/08	KGWFD1AQ
		Dilution Factor: 1			
Manganese	94	(80 - 120)	SW846 6010B	02/11-02/12/08	KGWFD1AR
		Dilution Factor: 1			
Nickel	84	(80 - 120)	SW846 6010B	02/11-02/12/08	KGWFD1AT
		Dilution Factor: 1			
Potassium	84	(80 - 120)	SW846 6010B	02/11-02/12/08	KGWFD1AU
		Dilution Factor: 1			
Sodium	85	(80 - 120)	SW846 6010B	02/11-02/12/08	KGWFD1AV
		Dilution Factor: 1			
LCS Lot-Sample#: A8B110000-015 **Prep Batch #...:** 8042015					
Potassium	83	(80 - 120)	SW846 6010B	02/11-02/12/08	KGWFK1CQ
		Dilution Factor: 1			
Barium	88	(80 - 120)	SW846 6010B	02/11-02/12/08	KGWFK1CV
		Dilution Factor: 1			
Calcium	87	(80 - 120)	SW846 6010B	02/11-02/12/08	KGWFK1CW
		Dilution Factor: 1			
Chromium	88	(80 - 120)	SW846 6010B	02/11-02/12/08	KGWFK1CX
		Dilution Factor: 1			
Iron	92	(77 - 122)	SW846 6010B	02/11-02/12/08	KGWFK1C0
		Dilution Factor: 1			
Magnesium	88	(80 - 120)	SW846 6010B	02/11-02/12/08	KGWFK1C1
		Dilution Factor: 1			
Manganese	92	(80 - 120)	SW846 6010B	02/11-02/12/08	KGWFK1C2
		Dilution Factor: 1			
Nickel	83	(80 - 120)	SW846 6010B	02/11-02/12/08	KGWFK1C3
		Dilution Factor: 1			
Sodium	85	(80 - 120)	SW846 6010B	02/11-02/12/08	KGWFK1C4
		Dilution Factor: 1			

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A8B090151 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: A8B090151 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A8B110000-011 **Prep Batch #...:** 8042011					
Barium	86	(80 - 120)	SW846 6010B Dilution Factor: 1	02/11-02/12/08	KGWFA1A7
Calcium	85	(80 - 120)	SW846 6010B Dilution Factor: 1	02/11-02/12/08	KGWFA1A8
Iron	93	(77 - 122)	SW846 6010B Dilution Factor: 1	02/11-02/12/08	KGWFA1A9
Magnesium	87	(80 - 120)	SW846 6010B Dilution Factor: 1	02/11-02/12/08	KGWFA1CA
Manganese	93	(80 - 120)	SW846 6010B Dilution Factor: 1	02/11-02/12/08	KGWFA1CC
Nickel	87	(80 - 120)	SW846 6010B Dilution Factor: 1	02/11-02/12/08	KGWFA1CD
Potassium	83	(80 - 120)	SW846 6010B Dilution Factor: 1	02/11-02/12/08	KGWFA1CE
Sodium	84	(80 - 120)	SW846 6010B Dilution Factor: 1	02/11-02/12/08	KGWFA1CF
Chromium	87	(80 - 120)	SW846 6010B Dilution Factor: 1	02/11-02/12/08	KGWFA1CG
LCS Lot-Sample#: A8B110000-012 **Prep Batch #...:** 8042012					
Barium	88	(80 - 120)	SW846 6010B Dilution Factor: 1	02/11-02/12/08	KGWFD1A7
Calcium	87	(80 - 120)	SW846 6010B Dilution Factor: 1	02/11-02/12/08	KGWFD1A8
Iron	96	(77 - 122)	SW846 6010B Dilution Factor: 1	02/11-02/12/08	KGWFD1A9
Magnesium	88	(80 - 120)	SW846 6010B Dilution Factor: 1	02/11-02/12/08	KGWFD1CA

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: A8B090151 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	94	(80 - 120)	SW846 6010B	02/11-02/12/08	KGWFD1CC
		Dilution Factor: 1			
Nickel	84	(80 - 120)	SW846 6010B	02/11-02/12/08	KGWFD1CD
		Dilution Factor: 1			
Potassium	84	(80 - 120)	SW846 6010B	02/11-02/12/08	KGWFD1CE
		Dilution Factor: 1			
Sodium	85	(80 - 120)	SW846 6010B	02/11-02/12/08	KGWFD1CF
		Dilution Factor: 1			
Chromium	88	(80 - 120)	SW846 6010B	02/11-02/12/08	KGWFD1CG
		Dilution Factor: 1			
LCS Lot-Sample#: A8B110000-015 **Prep Batch #...:** 8042015					
Barium	88	(80 - 120)	SW846 6010B	02/11-02/12/08	KGWFK1C5
		Dilution Factor: 1			
Calcium	87	(80 - 120)	SW846 6010B	02/11-02/12/08	KGWFK1C6
		Dilution Factor: 1			
Iron	92	(77 - 122)	SW846 6010B	02/11-02/12/08	KGWFK1C7
		Dilution Factor: 1			
Magnesium	88	(80 - 120)	SW846 6010B	02/11-02/12/08	KGWFK1C8
		Dilution Factor: 1			
Manganese	92	(80 - 120)	SW846 6010B	02/11-02/12/08	KGWFK1C9
		Dilution Factor: 1			
Nickel	83	(80 - 120)	SW846 6010B	02/11-02/12/08	KGWFK1DA
		Dilution Factor: 1			
Potassium	83	(80 - 120)	SW846 6010B	02/11-02/12/08	KGWFK1DC
		Dilution Factor: 1			
Sodium	85	(80 - 120)	SW846 6010B	02/11-02/12/08	KGWFK1DD
		Dilution Factor: 1			
Chromium	88	(80 - 120)	SW846 6010B	02/11-02/12/08	KGWFK1DE
		Dilution Factor: 1			

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: A8B090151 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: A8B090151 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		WO#:KG0M61AC-LCS/KG0M61AD-LCSD LCS Lot-Sample#: A8B120000-286					
	100	(90 - 110)			MCAWW 300.0A	02/11/08	8043286
	100	(90 - 110)	0.0	(0-20)	MCAWW 300.0A	02/11/08	8043286
		Dilution Factor: 1					
Chloride		WO#:KG0N11AC-LCS/KG0N11AD-LCSD LCS Lot-Sample#: A8B120000-292					
	102	(90 - 110)			MCAWW 300.0A	02/12/08	8043292
	102	(90 - 110)	0.0	(0-20)	MCAWW 300.0A	02/12/08	8043292
		Dilution Factor: 1					
Sulfate		WO#:KG0NM1AC-LCS/KG0NM1AD-LCSD LCS Lot-Sample#: A8B120000-289					
	101	(90 - 110)			MCAWW 300.0A	02/12/08	8043289
	100	(90 - 110)	0.19	(0-20)	MCAWW 300.0A	02/12/08	8043289
		Dilution Factor: 1					
Sulfate		WO#:KG0N41AC-LCS/KG0N41AD-LCSD LCS Lot-Sample#: A8B120000-293					
	99	(90 - 110)			MCAWW 300.0A	02/12/08	8043293
	99	(90 - 110)	0.0	(0-20)	MCAWW 300.0A	02/12/08	8043293
		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 #...: A8B090151 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Cyanide		Work Order #: KG0QC1AC	LCS Lot-Sample#: A8B120000-311		
	99	(69 - 118)	MCAWW 335.2	02/12/08	8043311
		Dilution Factor: 1			
Total Cyanide		Work Order #: KG2J51AC	LCS Lot-Sample#: A8B130000-354		
	103	(69 - 118)	MCAWW 335.2	02/13/08	8044354
		Dilution Factor: 1			

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A8B090151 **Matrix.....:** WG
Date Sampled...: 02/07/08 12:35 **Date Received..:** 02/09/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A8B090151-009 **Prep Batch #...:** 8042011							
Barium	107	(75 - 125)			SW846 6010B	02/11-02/13/08	KGVT21A5
	106	(75 - 125)	0.88	(0-20)	SW846 6010B	02/11-02/13/08	KGVT21A6
		Dilution Factor: 1					
Calcium	103	(75 - 125)			SW846 6010B	02/11-02/13/08	KGVT21A7
	100	(75 - 125)	1.5	(0-20)	SW846 6010B	02/11-02/13/08	KGVT21A8
		Dilution Factor: 1					
Chromium	106	(75 - 125)			SW846 6010B	02/11-02/13/08	KGVT21A9
	108	(75 - 125)	1.1	(0-20)	SW846 6010B	02/11-02/13/08	KGVT21CA
		Dilution Factor: 1					
Iron	113	(75 - 125)			SW846 6010B	02/11-02/13/08	KGVT21CC
	115	(75 - 125)	1.5	(0-20)	SW846 6010B	02/11-02/13/08	KGVT21CD
		Dilution Factor: 1					
Magnesium	107	(75 - 125)			SW846 6010B	02/11-02/13/08	KGVT21CE
	105	(75 - 125)	1.2	(0-20)	SW846 6010B	02/11-02/13/08	KGVT21CF
		Dilution Factor: 1					
Manganese	113	(75 - 125)			SW846 6010B	02/11-02/13/08	KGVT21CG
	111	(75 - 125)	1.1	(0-20)	SW846 6010B	02/11-02/13/08	KGVT21CH
		Dilution Factor: 1					
Nickel	104	(75 - 125)			SW846 6010B	02/11-02/13/08	KGVT21CJ
	102	(75 - 125)	1.2	(0-20)	SW846 6010B	02/11-02/13/08	KGVT21CK
		Dilution Factor: 1					
Potassium	106	(75 - 125)			SW846 6010B	02/11-02/13/08	KGVT21CL
	105	(75 - 125)	1.4	(0-20)	SW846 6010B	02/11-02/13/08	KGVT21CM
		Dilution Factor: 1					
Sodium	111	(75 - 125)			SW846 6010B	02/11-02/13/08	KGVT21CN
	105	(75 - 125)	1.7	(0-20)	SW846 6010B	02/11-02/13/08	KGVT21CP
		Dilution Factor: 1					

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A8B090151 **Matrix.....:** WG
Date Sampled...: 02/07/08 14:45 **Date Received..:** 02/09/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A8B090151-011 **Prep Batch #...:** 8042012							
Barium	104	(75 - 125)			SW846 6010B	02/11-02/12/08	KGVT71A1
	101	(75 - 125)	3.2	(0-20)	SW846 6010B	02/11-02/12/08	KGVT71A2
		Dilution Factor: 1					
Calcium	92	(75 - 125)			SW846 6010B	02/11-02/12/08	KGVT71A3
	88	(75 - 125)	1.1	(0-20)	SW846 6010B	02/11-02/12/08	KGVT71A4
		Dilution Factor: 1					
Chromium	104	(75 - 125)			SW846 6010B	02/11-02/12/08	KGVT71A5
	100	(75 - 125)	3.6	(0-20)	SW846 6010B	02/11-02/12/08	KGVT71A6
		Dilution Factor: 1					
Iron	NC,MSB	(75 - 125)			SW846 6010B	02/11-02/12/08	KGVT71A7
	NC,MSB	(75 - 125)		(0-20)	SW846 6010B	02/11-02/12/08	KGVT71A8
		Dilution Factor: 1					
Magnesium	103	(75 - 125)			SW846 6010B	02/11-02/12/08	KGVT71A9
	100	(75 - 125)	2.3	(0-20)	SW846 6010B	02/11-02/12/08	KGVT71CA
		Dilution Factor: 1					
Manganese	107	(75 - 125)			SW846 6010B	02/11-02/12/08	KGVT71CC
	111	(75 - 125)	3.2	(0-20)	SW846 6010B	02/11-02/12/08	KGVT71CD
		Dilution Factor: 1					
Nickel	99	(75 - 125)			SW846 6010B	02/11-02/12/08	KGVT71CE
	95	(75 - 125)	3.6	(0-20)	SW846 6010B	02/11-02/12/08	KGVT71CF
		Dilution Factor: 1					
Potassium	100	(75 - 125)			SW846 6010B	02/11-02/12/08	KGVT71CG
	97	(75 - 125)	3.2	(0-20)	SW846 6010B	02/11-02/12/08	KGVT71CH
		Dilution Factor: 1					
Sodium	100	(75 - 125)			SW846 6010B	02/11-02/12/08	KGVT71CJ
	97	(75 - 125)	2.8	(0-20)	SW846 6010B	02/11-02/12/08	KGVT71CK
		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 were not calculated because the sample amount was greater than four times the spike amount.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A8B090151 **Matrix.....:** WATER
Date Sampled...: 02/08/08 07:20 **Date Received..:** 02/08/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A8B080119-001 **Prep Batch #...:** 8042015							
Barium	88	(75 - 125)			SW846 6010B	02/11-02/12/08	KGRGK1CV
	91	(75 - 125)	3.0	(0-20)	SW846 6010B	02/11-02/12/08	KGRGK1CW
		Dilution Factor: 1					
Calcium	67 N	(75 - 125)			SW846 6010B	02/11-02/12/08	KGRGK1C0
	78	(75 - 125)	5.4	(0-20)	SW846 6010B	02/11-02/12/08	KGRGK1C1
		Dilution Factor: 1					
Chromium	88	(75 - 125)			SW846 6010B	02/11-02/12/08	KGRGK1C3
	91	(75 - 125)	3.4	(0-20)	SW846 6010B	02/11-02/12/08	KGRGK1C4
		Dilution Factor: 1					
Iron	88	(75 - 125)			SW846 6010B	02/11-02/12/08	KGRGK1C6
	94	(75 - 125)	4.6	(0-20)	SW846 6010B	02/11-02/12/08	KGRGK1C7
		Dilution Factor: 1					
Magnesium	85	(75 - 125)			SW846 6010B	02/11-02/12/08	KGRGK1C9
	89	(75 - 125)	4.2	(0-20)	SW846 6010B	02/11-02/12/08	KGRGK1DA
		Dilution Factor: 1					
Manganese	94	(75 - 125)			SW846 6010B	02/11-02/12/08	KGRGK1DD
	98	(75 - 125)	4.1	(0-20)	SW846 6010B	02/11-02/12/08	KGRGK1DE
		Dilution Factor: 1					
Nickel	81	(75 - 125)			SW846 6010B	02/11-02/12/08	KGRGK1DG
	85	(75 - 125)	3.4	(0-20)	SW846 6010B	02/11-02/12/08	KGRGK1DH
		Dilution Factor: 1					
Potassium	74 N	(75 - 125)			SW846 6010B	02/11-02/12/08	KGRGK1CN
	83	(75 - 125)	5.4	(0-20)	SW846 6010B	02/11-02/12/08	KGRGK1CP
		Dilution Factor: 1					
Sodium	NC,MSB	(75 - 125)			SW846 6010B	02/11-02/12/08	KGRGK1DK
	NC,MSB	(75 - 125)		(0-20)	SW846 6010B	02/11-02/12/08	KGRGK1DL
		Dilution Factor: 1					

NOTE(S):

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

N Spiked analyte recovery is outside stated control limits.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: A8B090151 **Matrix.....:** WG
Date Sampled...: 02/07/08 12:35 **Date Received..:** 02/09/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A8B090151-009 **Prep Batch #...:** 8042011							
Barium	105	(75 - 125)			SW846 6010B	02/11-02/13/08	KGVT21CQ
	106	(75 - 125)	1.1	(0-20)	SW846 6010B	02/11-02/13/08	KGVT21CR
		Dilution Factor: 1					
Calcium	99	(75 - 125)			SW846 6010B	02/11-02/13/08	KGVT21CT
	103	(75 - 125)	1.5	(0-20)	SW846 6010B	02/11-02/13/08	KGVT21CU
		Dilution Factor: 1					
Chromium	104	(75 - 125)			SW846 6010B	02/11-02/13/08	KGVT21C9
	105	(75 - 125)	0.42	(0-20)	SW846 6010B	02/11-02/13/08	KGVT21DA
		Dilution Factor: 1					
Iron	110	(75 - 125)			SW846 6010B	02/11-02/13/08	KGVT21CV
	110	(75 - 125)	0.57	(0-20)	SW846 6010B	02/11-02/13/08	KGVT21CW
		Dilution Factor: 1					
Magnesium	104	(75 - 125)			SW846 6010B	02/11-02/13/08	KGVT21CX
	105	(75 - 125)	0.82	(0-20)	SW846 6010B	02/11-02/13/08	KGVT21C0
		Dilution Factor: 1					
Manganese	110	(75 - 125)			SW846 6010B	02/11-02/13/08	KGVT21C1
	111	(75 - 125)	0.96	(0-20)	SW846 6010B	02/11-02/13/08	KGVT21C2
		Dilution Factor: 1					
Nickel	101	(75 - 125)			SW846 6010B	02/11-02/13/08	KGVT21C3
	102	(75 - 125)	0.27	(0-20)	SW846 6010B	02/11-02/13/08	KGVT21C4
		Dilution Factor: 1					
Potassium	103	(75 - 125)			SW846 6010B	02/11-02/13/08	KGVT21C5
	104	(75 - 125)	0.51	(0-20)	SW846 6010B	02/11-02/13/08	KGVT21C6
		Dilution Factor: 1					
Sodium	103	(75 - 125)			SW846 6010B	02/11-02/13/08	KGVT21C7
	108	(75 - 125)	1.7	(0-20)	SW846 6010B	02/11-02/13/08	KGVT21C8
		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 #...: A8B090151 **Matrix.....:** WG
Date Sampled...: 02/08/08 17:25 **Date Received..:** 02/09/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		WO#: KGVT21DC-MS/KGVT21DD-MSD				MS Lot-Sample #: A8B090151-009	
	108	(80 - 120)			MCAWW 300.0A	02/12/08	8043286
	108	(80 - 120)	0.13	(0-20)	MCAWW 300.0A	02/12/08	8043286
		Dilution Factor: 1					
Sulfate		WO#: KGVT21A1-MS/KGVT21A2-MSD				MS Lot-Sample #: A8B090151-009	
	101	(80 - 120)			MCAWW 300.0A	02/12/08	8043289
	102	(80 - 120)	0.14	(0-20)	MCAWW 300.0A	02/12/08	8043289
		Dilution Factor: 1					
Total Cyanide		WO#: KGVT21A3-MS/KGVT21A4-MSD				MS Lot-Sample #: A8B090151-009	
	73	(42 - 140)			MCAWW 335.2	02/12/08	8043311
	68	(42 - 140)	7.4	(0-20)	MCAWW 335.2	02/12/08	8043311
		Dilution Factor: 1					
Total Cyanide		WO#: KGVVK1A1-MS/KGVVK1A2-MSD				MS Lot-Sample #: A8B090151-015	
	81	(42 - 140)			MCAWW 335.2	02/13/08	8044354
	87	(42 - 140)	7.2	(0-20)	MCAWW 335.2	02/13/08	8044354
		Dilution Factor: 1					

NOTE(S):

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

(Sample Batch Complete)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

PAGE 1 OF 2

ID # Nº 04077

SSOW Ref. Code: R016016

Required Client Information:

Company: CRA	Report To: A. LaVine
Address: Sandusky, OH	Copy To: A. Bown
	Invoice To:
	P.O.:
Phone:	Project Name: REALM ELYRIA
Fax:	Project Number: 12616-71-501011
e-mail:	

Laboratory:	Test America
Laboratory Location:	
Laboratory Contact:	
Requested Due Date:	TAT:
QA/QC Requirements:	

Valid Matrix Codes: WG Groundwater; WB Borehole Water; WS Surface Water; SO Soil; SE Sediment; See Back for Additional Codes

Preservative

Analysis and Method

Sample Identification:	Matrix Code	Date Collected	Time Collected	# Containers	Unpreserved	HCl	H2SO4	HNO3	NaOH	Other:	Tot. + Dis. Metals	Chloride, Sulfate	Cyanide	Remarks/Lab ID
WG-12616-020608-DN-01	WG	2-6-08	1540	4							X	X	X	
-02			1635	4							X	X	X	* Dis. metals were field filtered
-03			1750	4							X	X	X	
-04			1805	4							X	X	X	
WG-12616-020708-DN-05		2-07-08	0820	4							X	X	X	
06			0900	4							X	X	X	
07			1020	4							X	X	X	
08			1055	4							X	X	X	
09 +MS/MSD			1235	8	BDN						X	X	X	
10			1310	4							X	X	X	
11			1445	4							X	X	X	
12			1520	4							X	X	X	
13			1650	4							X	X	X	
14			1725	4							X	X	X	
WG-12616-020808-DN-15		2-8-08	0900	4							X	X	X	
TOTAL NUMBER OF CONTAINERS				64										

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY / AFFILIATION	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME
	2	Daniel / CRA	2-9-08	1636	[signature] / TAL	2/9/08	10:36
AIRBILL NO.							

Sample Condition

Temp in °C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Samples Intact	Y / N

Additional Comments:

Sampler Name: Don Newton

Sampler Signature: Don Newton Date: 2-8-08

Distribution: WHITE - Fully Executed Copy YELLOW - Receiving Laboratory Copy PINK - Sampler Copy

REV. 0 (6-04)

GM REALM ENCORE

(Sample Batch Complete)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

ID # Nº 04078

SSOW Ref. Code: R016016

Required Client Information:

Company: CRA	Report To: A. LaVine
Address: Sandusky	Copy To: A. Brown
	Invoice To:
	P.O.:
Phone:	Project Name: REALM ELYRIA
Fax:	Project Number: 12616.71.S01011
e-mail:	

Laboratory:	Test America
Laboratory Location:	N. Canton, OH
Laboratory Contact:	
Requested Due Date:	TAT: Standard
QA/QC Requirements:	

Valid Matrix Codes: WG Groundwater; WB Borehole Water; WS Surface Water; SO Soil; SE Sediment; See Back for Additional Codes

Sample Identification:	Matrix Code	Date Collected	Time Collected	# Containers	Preservative: Unpreserved	HCl	H2SO4	HNO3	NaOH	Other:	Analysis and Method: Tot. + Dis. Metals	Chloride, Sulfate	Cyanide	Remarks/Lab ID
WG-12616-020808-DN-16	WG	2-8-08	0945	4							X	X	X	
17			1025	4							X	X	X	* Dis. Metals were field filtered
18			1125	4							X	X	X	
19			1210	4							X	X	X	
20			1255	4							X	X	X	
21			1335	4							X	X	X	
TOTAL NUMBER OF CONTAINERS				24										

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY / AFFILIATION	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME
	2	Don Newton / CRA	2-9-08	10:36	THANK	2/9/08	10:36
AIRBILL NO.							

Sample Condition

Temp in °C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Samples Intact	Y / N

Additional Comments:

Sampler Name: DON NEWTON

Sampler Signature: Don Newton Date: 2-8-08

Distribution: WHITE - Fully Executed Copy YELLOW - Receiving Laboratory Copy PINK - Sampler Copy

REV. 0 (6/04)

151

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Lot Number: A8B090~~87~~

Client CRA Project _____ Quote # _____

Cooler Received on 2-9-08 Opened on 2-9-08 By _____ (Signature)

FedEx ☐ Client Drop Off ☑ UPS ☐ DHL ☐ FAS ☐ TestAmerica Courier ☐

Stetson ☐ US Cargo ☐ Other _____

TestAmerica Cooler # Back -3 Foam Box ☐ Client Cooler ☐ Other _____

1. Were custody seals on the outside of the cooler? Yes ☐ No ☑ Intact? Yes ☐ No ☐ NA ☑
   If YES, Quantity _____
   Were custody seals on the outside of cooler signed and dated? Yes ☐ No ☐ NA ☑
   Were custody seals on the bottles? Yes ☐ No ☑
   If YES, are there any exceptions _____
2. Shipper's packing slip attached to this form? Yes ☐ No ☑
3. Did custody papers accompany the sample(s)? Yes ☑ No ☐ Relinquished by client? Yes ☑ No ☐
4. Did you sign the custody papers in the appropriate place? Yes ☑ No ☐
5. Packing material used: Bubble Wrap ☑ Foam ☐ None ☐ Other _____
6. Cooler temperature upon receipt _____ °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 and/or tags be reconciled with the COC? Yes ☑ No ☐
9. Were samples at the correct pH upon receipt? Yes ☑ No ☐ NA ☐
10. Were correct bottles used for the tests 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? Yes ☐ No ☑ Were VOAs on the COC? Yes ☐ No ☑

Contacted PM _____ Date _____ by _____ via Voice Mail ☐ Verbal ☐ 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.

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s). *Nitric Acid Lot #071707-HNO3 - Sulfuric Acid Lot # 092006-H2SO4; Sodium Hydroxide Lot # 122805 -NaOH; Hydrochloric Acid Lot # 092006-HCl; Sodium Hydroxide and Zinc Acetate Lot # 050205-CH3COO2ZN/NaOH*

What time was preservative added to sample(s)? _____

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

Client ID	pH	Date	Initials
1	<2 <2 712	2-9-08	NS
2	<2 <2 712		
3	<2 <2 712		
4	<2 <2 712		
5	<2 <2 712		
6	<2 <2 712		
7	<2 <2 712		
8	<2 <2 712		
9	<2 <2 <2 <2 712 712		

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials
10	<2 <2 712	2-9-08	AS
11	<2 <2 712	"	"
12	<2 <2 712	"	"
13	<2 <2 712	"	"
14	<2 <2 712	"	"
15	<2 <2 712	"	"
16	<2 <2 712	"	"
17	<2 <2 712	"	"
18	<2 <2 712	"	"
19	<2 <2 712	"	"
20	<2 <2 712	"	"
21	<2 <2 712	"	"

Cooler	Temp °C	Method	Coolant
L511	2.9	IR	ice
L318	3.6	"	"
L740	2.2	"	"

Discrepancies Cont'd

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

END OF REPORT

APPENDIX D-2

LABORATORY ANALYTICAL REPORT – APRIL 2008
(CONFIRMATION EVENT)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

PROJECT NO. 12616-71-501013

REALM ELYRIA/R016017

Lot #: A8D030167

Angela Bown

Conestoga-Rovers & Associates
9033 Meridian Way
West Chester, OH 45069

TESTAMERICA LABORATORIES, INC.

Amy L. McCormick
Project Manager

April 15, 2008

4101 Shuffel Street N.W. North Canton, OH 44720 tel 330.497.9396 fax 330.497.0772 www.testamericainc.com

CASE NARRATIVE

A8D030167

The following report contains the analytical results for nine water samples submitted to TestAmerica North Canton by Conestoga-Rovers & Associates, Inc. from the Realm Elyria/R016017 Site, project number 12616-71-501013. The samples were received April 03, 2008, according to documented sample acceptance procedures.

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 Angela Bown on April 15, 2008. 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.

Any reference within this document to Severn Trent Laboratories, Inc. or STL, should be understood to refer to TestAmerica Laboratories, Inc. (formerly known as Severn Trent Laboratories, Inc.)

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.

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." The total number of pages in this report is 35.

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 2.4°C.

METALS

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are +/- the standard reporting limit (SRL).

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "J". Refer to the sample report pages for the affected analyte(s).

GENERAL CHEMISTRY

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

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica North Canton 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.

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, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

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. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. 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.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

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 twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

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

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- 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 repreparation 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 may 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 (MS/DU) 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 (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

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, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, 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.

EXECUTIVE SUMMARY - Detection Highlights

A8D030167

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
WG-12616-040108-DN-01 04/01/08 13:40	**001**			
Barium - DISSOLVED	0.088 B,J	0.20	mg/L	SW846 6010B
Sodium - DISSOLVED	191	5.0	mg/L	SW846 6010B
Chloride	175	5.0	mg/L	MCAWW 300.0A
WG-12616-040108-DN-02 04/01/08 15:00	**002**			
Potassium - DISSOLVED	9.8	5.0	mg/L	SW846 6010B
WG-12616-040108-DN-03 04/01/08 16:35	**003**			
Calcium - DISSOLVED	226 J	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	73.4 J	5.0	mg/L	SW846 6010B
Nickel - DISSOLVED	0.11	0.040	mg/L	SW846 6010B
Chloride	53.7	5.0	mg/L	MCAWW 300.0A
Sulfate	604	5.0	mg/L	MCAWW 300.0A
WG-12616-040108-DN-04 04/01/08 18:20	**004**			
Calcium - DISSOLVED	233 J	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	68.9 J	5.0	mg/L	SW846 6010B
Sodium - DISSOLVED	60.1	5.0	mg/L	SW846 6010B
Sulfate	684	5.0	mg/L	MCAWW 300.0A
WG-12616-040108-DN-05 04/01/08 19:30	**005**			
Calcium - DISSOLVED	228 J	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	98.5 J	5.0	mg/L	SW846 6010B
Chloride	107	5.0	mg/L	MCAWW 300.0A
Sulfate	716	5.0	mg/L	MCAWW 300.0A
WG-12616-040208-DN-06 04/02/08 08:10	**006**			
Magnesium - DISSOLVED	46.7 J	5.0	mg/L	SW846 6010B
WG-12616-040208-DN-07 04/02/08 10:10	**007**			
Calcium - DISSOLVED	173 J	5.0	mg/L	SW846 6010B
Potassium - DISSOLVED	11.9	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	55.8 J	5.0	mg/L	SW846 6010B
Sulfate	379	5.0	mg/L	MCAWW 300.0A

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A8D030167

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
WG-12616-040208-DN-08 04/02/08 12:25	**008**			
Calcium - DISSOLVED	149 J	5.0	mg/L	SW846 6010B
Nickel - DISSOLVED	0.044	0.040	mg/L	SW846 6010B
WG-12616-040208-DN-09 04/02/08 11:30	**009**			
Calcium - DISSOLVED	172 J	5.0	mg/L	SW846 6010B
Potassium - DISSOLVED	11.9	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	55.4 J	5.0	mg/L	SW846 6010B
Sulfate	377	5.0	mg/L	MCAWW 300.0A

ANALYTICAL METHODS SUMMARY

A8D030167

PARAMETER	ANALYTICAL METHOD
Chloride	MCAWW 300.0A
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Sulfate	MCAWW 300.0A

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A8D030167

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
KKM1K	001	WG-12616-040108-DN-01	04/01/08	13:40
KKM1M	002	WG-12616-040108-DN-02	04/01/08	15:00
KKM1T	003	WG-12616-040108-DN-03	04/01/08	16:35
KKM1V	004	WG-12616-040108-DN-04	04/01/08	18:20
KKM1X	005	WG-12616-040108-DN-05	04/01/08	19:30
KKM11	006	WG-12616-040208-DN-06	04/02/08	08:10
KKM12	007	WG-12616-040208-DN-07	04/02/08	10:10
KKM13	008	WG-12616-040208-DN-08	04/02/08	12:25
KKM14	009	WG-12616-040208-DN-09	04/02/08	11:30

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.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-040108-DN-01

DISSOLVED Metals

Lot-Sample #...: A8D030167-001 **Matrix.....:** WG
Date Sampled...: 04/01/08 13:40 **Date Received..:** 04/03/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8095013						
Barium	**0.088 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**04/04-04/07/08**	**KKM1K1AA**
		Dilution Factor: 1		MDL.....: 0.00067		
Sodium	**191**	**5.0**	**mg/L**	**SW846 6010B**	**04/04-04/07/08**	**KKM1K1AC**
		Dilution Factor: 1		MDL.....: 0.59		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-040108-DN-01

General Chemistry

Lot-Sample #...: A8D030167-001 **Work Order #...:** KKM1K **Matrix.....:** WG
Date Sampled...: 04/01/08 13:40 **Date Received..:** 04/03/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**175**	**5.0**	**mg/L**	**MCAWW 300.0A**	**04/09/08**	**8100321**

Dilution Factor: 5 MDL.....: 0.50

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-040108-DN-02

DISSOLVED Metals

Lot-Sample #...: A8D030167-002 **Matrix.....:** WG
Date Sampled...: 04/01/08 15:00 **Date Received..:** 04/03/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8095013						
Potassium	**9.8**	**5.0**	**mg/L**	**SW846 6010B**	**04/04-04/07/08**	**KKM1M1AA**
		Dilution Factor: 1		MDL.....: 0.072		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-040108-DN-03

DISSOLVED Metals

Lot-Sample #...: A8D030167-003 **Matrix.....:** WG
Date Sampled...: 04/01/08 16:35 **Date Received..:** 04/03/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8095013						
Calcium	**226 J**	**5.0**	**mg/L**	**SW846 6010B**	**04/04-04/07/08**	**KKM1T1AA**
		Dilution Factor: 1		MDL.....: 0.13		
Magnesium	**73.4 J**	**5.0**	**mg/L**	**SW846 6010B**	**04/04-04/07/08**	**KKM1T1AC**
		Dilution Factor: 1		MDL.....: 0.034		
Nickel	**0.11**	**0.040**	**mg/L**	**SW846 6010B**	**04/04-04/07/08**	**KKM1T1AD**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-040108-DN-03

General Chemistry

Lot-Sample #...: A8D030167-003 **Work Order #...:** KKM1T **Matrix.....:** WG
Date Sampled...: 04/01/08 16:35 **Date Received..:** 04/03/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**53.7**	**5.0**	**mg/L**	**MCAWW 300.0A**	**04/09/08**	**8100321**
	Dilution Factor: 5			MDL.....: 0.50		
Sulfate	**604**	**5.0**	**mg/L**	**MCAWW 300.0A**	**04/09/08**	**8100322**
	Dilution Factor: 5			MDL.....: 0.60		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-040108-DN-04

DISSOLVED Metals

Lot-Sample #...: A8D030167-004 **Matrix.....:** WG
Date Sampled...: 04/01/08 18:20 **Date Received..:** 04/03/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8095013						
Calcium	**233 J**	**5.0**	**mg/L**	**SW846 6010B**	**04/04-04/07/08**	**KKM1V1AA**
		Dilution Factor: 1		MDL.....: 0.13		
Magnesium	**68.9 J**	**5.0**	**mg/L**	**SW846 6010B**	**04/04-04/07/08**	**KKM1V1AC**
		Dilution Factor: 1		MDL.....: 0.034		
Sodium	**60.1**	**5.0**	**mg/L**	**SW846 6010B**	**04/04-04/07/08**	**KKM1V1AD**
		Dilution Factor: 1		MDL.....: 0.59		

NOTE(S):

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-040108-DN-04

General Chemistry

Lot-Sample #...: A8D030167-004 **Work Order #...:** KKM1V **Matrix.....:** WG
Date Sampled...: 04/01/08 18:20 **Date Received..:** 04/03/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Sulfate	**684**	**5.0**	**mg/L**	**MCAWW 300.0A**	**04/09/08**	**8100322**

Dilution Factor: 5 MDL.....: 0.60

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-040108-DN-05

DISSOLVED Metals

Lot-Sample #...: A8D030167-005 **Matrix.....:** WG
Date Sampled...: 04/01/08 19:30 **Date Received..:** 04/03/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8095013						
Calcium	**228 J**	**5.0**	**mg/L**	**SW846 6010B**	**04/04-04/07/08**	**KKM1X1AA**
		Dilution Factor: 1		MDL.....: 0.13		
Magnesium	**98.5 J**	**5.0**	**mg/L**	**SW846 6010B**	**04/04-04/07/08**	**KKM1X1AC**
		Dilution Factor: 1		MDL.....: 0.034		

NOTE(S):

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-040108-DN-05

General Chemistry

Lot-Sample #...: A8D030167-005 **Work Order #...:** KKM1X **Matrix.....:** WG
Date Sampled...: 04/01/08 19:30 **Date Received..:** 04/03/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**107**	**5.0**	**mg/L**	**MCAWW 300.0A**	**04/09/08**	**8100321**
		Dilution Factor: 5		MDL.....: 0.50		
Sulfate	**716**	**5.0**	**mg/L**	**MCAWW 300.0A**	**04/09/08**	**8100322**
		Dilution Factor: 5		MDL.....: 0.60		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-040208-DN-06

DISSOLVED Metals

Lot-Sample #...: A8D030167-006 **Matrix.....:** WG
Date Sampled...: 04/02/08 08:10 **Date Received..:** 04/03/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8095013						
Magnesium	**46.7 J**	**5.0**	**mg/L**	**SW846 6010B**	**04/04-04/07/08**	**KKM111AA**
		Dilution Factor: 1		MDL.....: 0.034		

NOTE(S):

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-040208-DN-07

DISSOLVED Metals

Lot-Sample #...: A8D030167-007 **Matrix.....:** WG
Date Sampled...: 04/02/08 10:10 **Date Received..:** 04/03/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8095013						
Calcium	**173 J**	**5.0**	**mg/L**	**SW846 6010B**	**04/04-04/07/08**	**KKM121AA**
		Dilution Factor: 1		MDL.....: 0.13		
Potassium	**11.9**	**5.0**	**mg/L**	**SW846 6010B**	**04/04-04/07/08**	**KKM121AD**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**55.8 J**	**5.0**	**mg/L**	**SW846 6010B**	**04/04-04/07/08**	**KKM121AC**
		Dilution Factor: 1		MDL.....: 0.034		

NOTE(S):

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-040208-DN-07

General Chemistry

Lot-Sample #...: A8D030167-007 **Work Order #...:** KKM12 **Matrix.....:** WG
Date Sampled...: 04/02/08 10:10 **Date Received..:** 04/03/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Sulfate	**379**	**5.0**	**mg/L**	**MCAWW 300.0A**	**04/09/08**	**8100322**

Dilution Factor: 5 MDL.....: 0.60

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-040208-DN-08

DISSOLVED Metals

Lot-Sample #...: A8D030167-008 **Matrix.....:** WG
Date Sampled...: 04/02/08 12:25 **Date Received..:** 04/03/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8095013						
Calcium	**149 J**	**5.0**	**mg/L**	**SW846 6010B**	**04/04-04/07/08**	**KKM131AA**
		Dilution Factor: 1		MDL.....: 0.13		
Nickel	**0.044**	**0.040**	**mg/L**	**SW846 6010B**	**04/04-04/07/08**	**KKM131AC**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-040208-DN-09

DISSOLVED Metals

Lot-Sample #...: A8D030167-009 **Matrix.....:** WG
Date Sampled...: 04/02/08 11:30 **Date Received..:** 04/03/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8095013						
Calcium	**172 J**	**5.0**	**mg/L**	**SW846 6010B**	**04/04-04/07/08**	**KKM141AA**
		Dilution Factor: 1		MDL.....: 0.13		
Potassium	**11.9**	**5.0**	**mg/L**	**SW846 6010B**	**04/04-04/07/08**	**KKM141AD**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**55.4 J**	**5.0**	**mg/L**	**SW846 6010B**	**04/04-04/07/08**	**KKM141AC**
		Dilution Factor: 1		MDL.....: 0.034		

NOTE(S):

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-040208-DN-09

General Chemistry

Lot-Sample #...: A8D030167-009 **Work Order #...:** KKM14 **Matrix.....:** WG
Date Sampled...: 04/02/08 11:30 **Date Received..:** 04/03/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Sulfate	**377**	**5.0**	**mg/L**	**MCAWW 300.0A**	**04/09/08**	**8100322**

Dilution Factor: 5 MDL.....: 0.60

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

QUALITY CONTROL SECTION

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: A8D030167 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A8D040000-013 **Prep Batch #...:** 8095013						
Barium	**0.00076 B**	**0.20**	**mg/L**	**SW846 6010B**	**04/04-04/07/08**	**KKPGG1A4**
		Dilution Factor: 1				
Calcium	**0.21 B**	**5.0**	**mg/L**	**SW846 6010B**	**04/04-04/07/08**	**KKPGG1A7**
		Dilution Factor: 1				
Magnesium	**0.061 B**	**5.0**	**mg/L**	**SW846 6010B**	**04/04-04/07/08**	**KKPGG1A8**
		Dilution Factor: 1				
Nickel	ND	0.040	mg/L	SW846 6010B	04/04-04/07/08	KKPGG1A9
		Dilution Factor: 1				
Potassium	ND	5.0	mg/L	SW846 6010B	04/04-04/07/08	KKPGG1A6
		Dilution Factor: 1				
Sodium	ND	5.0	mg/L	SW846 6010B	04/04-04/07/08	KKPGG1A5
		Dilution Factor: 1				

NOTE(S):

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

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A8D030167 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		Work Order #: KK03M1AA		MB Lot-Sample #:	A8D090000-321	
	ND	1.0	mg/L	MCAWW 300.0A	04/09/08	8100321
		Dilution Factor: 1				
Sulfate		Work Order #: KK03P1AA		MB Lot-Sample #:	A8D090000-322	
	ND	1.0	mg/L	MCAWW 300.0A	04/08/08	8100322
		Dilution Factor: 1				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: A8D030167 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A8D040000-013 **Prep Batch #...:** 8095013					
Barium	91	(80 - 120)	SW846 6010B Dilution Factor: 1	04/04-04/07/08	KKPGG1CG
Sodium	85	(80 - 120)	SW846 6010B Dilution Factor: 1	04/04-04/07/08	KKPGG1CH
Potassium	89	(80 - 120)	SW846 6010B Dilution Factor: 1	04/04-04/07/08	KKPGG1CJ
Calcium	86	(80 - 120)	SW846 6010B Dilution Factor: 1	04/04-04/07/08	KKPGG1CK
Magnesium	86	(80 - 120)	SW846 6010B Dilution Factor: 1	04/04-04/07/08	KKPGG1CL
Nickel	88	(80 - 120)	SW846 6010B Dilution Factor: 1	04/04-04/07/08	KKPGG1CM

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: A8D030167 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		WO#:KK03M1AC-LCS/KK03M1AD-LCSD LCS Lot-Sample#: A8D090000-321					
	106	(90 - 110)			MCAWW 300.0A	04/09/08	8100321
	105	(90 - 110)	0.19	(0-20)	MCAWW 300.0A	04/09/08	8100321
		Dilution Factor: 1					
Sulfate		WO#:KK03P1AC-LCS/KK03P1AD-LCSD LCS Lot-Sample#: A8D090000-322					
	97	(90 - 110)			MCAWW 300.0A	04/08/08	8100322
	97	(90 - 110)	0.0	(0-20)	MCAWW 300.0A	04/08/08	8100322
		Dilution Factor: 1					

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: A8D030167 **Matrix.....:** WATER
Date Sampled...: 04/02/08 14:30 **Date Received..:** 04/03/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A8D030102-001 **Prep Batch #...:** 8095013							
Barium	109	(75 - 125)			SW846 6010B	04/04-04/07/08	KKMFG1C6
	106	(75 - 125)	2.7	(0-20)	SW846 6010B	04/04-04/07/08	KKMFG1C7
		Dilution Factor: 1					
Calcium	101	(75 - 125)			SW846 6010B	04/04-04/07/08	KKMFG1DG
	98	(75 - 125)	0.75	(0-20)	SW846 6010B	04/04-04/07/08	KKMFG1DH
		Dilution Factor: 1					
Magnesium	106	(75 - 125)			SW846 6010B	04/04-04/07/08	KKMFG1DK
	104	(75 - 125)	0.92	(0-20)	SW846 6010B	04/04-04/07/08	KKMFG1DL
		Dilution Factor: 1					
Nickel	105	(75 - 125)			SW846 6010B	04/04-04/07/08	KKMFG1DN
	104	(75 - 125)	1.1	(0-20)	SW846 6010B	04/04-04/07/08	KKMFG1DP
		Dilution Factor: 1					
Potassium	110	(75 - 125)			SW846 6010B	04/04-04/07/08	KKMFG1DD
	109	(75 - 125)	0.94	(0-20)	SW846 6010B	04/04-04/07/08	KKMFG1DE
		Dilution Factor: 1					
Sodium	110	(75 - 125)			SW846 6010B	04/04-04/07/08	KKMFG1C9
	108	(75 - 125)	0.60	(0-20)	SW846 6010B	04/04-04/07/08	KKMFG1DA
		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 #...: A8D030167 **Matrix.....:** WATER
Date Sampled...: 04/04/08 11:50 **Date Received..:** 04/04/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		WO#: KKQ0N1A2-MS/KKQ0N1A3-MSD				MS Lot-Sample #: A8D040274-008	
	108	(80 - 120)			MCAWW 300.0A	04/08/08	8100321
	110	(80 - 120)	1.4	(0-20)	MCAWW 300.0A	04/08/08	8100321
		Dilution Factor: 1					

NOTE(S):

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

GM REALM ENCORE

(sample batch complete)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

32

PAGE | OF |

ID # Nº 04069

SSOW Ref. Code: R01607

Required Client Information:

Company: CRA	Report To: A. LaVine
Address: Sandusky, OH	Copy To: A. Bown
	Invoice To:
	P.O.:
Phone:	Project Name: REALM ELYRIA
Fax:	Project Number: 12616-71-501013
E-mail:	

Laboratory:	Test America
Laboratory Location:	N. Canton, OH
Laboratory Contact:	A. McCormick
Requested Due Date:	TAT: Standard
QA/QC Requirements:	

Valid Matrix Codes:
WG Groundwater
WB Borehole Water
WS Surface Water
SO Soil
SE Sediment
See Back for Additional Codes

Analysis and Method

Preservative

	Sample Identification:	Matrix Code	Date Collected	Time Collected	# Containers	Unpreserved	HCl	H2SO4	HNO3	NaOH	Other:	Dis. Ba	Dis. Na	Dis. Potassium	Dis. Ca	Dis. Mg	Dis. Ni	Sulfate	Chloride	Remarks/Lab ID
1.	WG-12616-040108-DN-01	WG	4.1.08	13:40								X	X						X	Dis. Metals were field filtered
2.	-02			15:00										X						
3.	-03			1635									X		X	X	X	X		
4.	-04			1820									X		X	X		X		
5.	-05			1930											X	X		X		
6.	WG-12616-040208-DN-06		4.2.08	0810										DN						
7.	-07			1010																
8.	-08			1225																
9.	-09			1130																
10.																				
11.																				
12.																				
13.																				
14.																				
15.				TOTAL NUMBER OF CONTAINERS																

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY / AFFILIATION	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME
Fed Ex	1	DON NEWTON / CRA	4.2.08	1500	Colleen Meagher	4/3/08	930
AIRBILL NO.							

Sample Condition

Temp in °C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Samples Intact	Y / N

Additional Comments:

Sampler Name: DON NEWTON

Sampler Signature: Don Newton Date: 4.2.08

North Canton

Distribution: WHITE - Fully Executed Copy YELLOW - Receiving Laboratory Copy PINK - Sampler Copy

REV. 0 (6/04)

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** A8D030167
North Canton Facility

Client CRA Project ______ By: [signature] (Signature)

Cooler Received on 4/3/08 Opened on 4/3/08

FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other ______

TestAmerica Cooler # J732 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 ______
   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/ice
6. Cooler temperature upon receipt 2.4 °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#* 113007-HNO_3; *Sulfuric Acid Lot#* 071707-H_2SO_4; *Sodium Hydroxide Lot#* 073007 -*NaOH*; *Hydrochloric Acid Lot#* 092006-*HCl*; *Sodium Hydroxide and Zinc Acetate Lot#* 050205-$CH_3COO_2ZN/NaOH$.

What time was preservative added to sample(s)? ______

Client ID	pH	Date	Initials
01	<2	4/3/08	am
02	<2		
03	<2		
04	<2		
05	<2		
06	<2		
07	<2		
08	<2		

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials
09	12	4/3/08	

Cooler #	Temp. °C	Method	Coolant

Discrepancies Cont'd:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

END OF REPORT

APPENDIX D-3

LABORATORY ANALYTICAL REPORT – AUGUST 2008
(SEMI-ANNUAL EVENT)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

PROJECT NO. 12616-70-501011

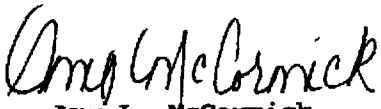
REALM ELYRIA/R016016

Lot #: A8H110121

Angela Bown

Conestoga-Rovers & Associates
9033 Meridian Way
West Chester, OH 45069

TESTAMERICA LABORATORIES, INC.



Amy L. McCormick
Project Manager

August 25, 2008

CASE NARRATIVE

A8H110121

The following report contains the analytical results for twenty-one water samples submitted to TestAmerica North Canton by Conestoga-Rovers & Associates, Inc. from the Realm Elyria/R016016 Site, project number 12616-70-501011. The samples were received August 11, 2008, according to documented sample acceptance procedures.

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 Angela Bown on August 22, 2008. 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.

Any reference within this document to Severn Trent Laboratories, Inc. or STL, should be understood to refer to TestAmerica Laboratories, Inc. (formerly known as Severn Trent Laboratories, Inc.)

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.

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." The total number of pages in this report is 115.

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The coolers were received at temperatures ranging from 2.3 to 4.6°C.

CASE NARRATIVE (continued)

METALS

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are +/- the standard reporting limit (SRL).

Serial dilution of a sample in this lot indicates that physical and chemical interferences were present. Refer to the sample report pages for the affected analytes flagged with "E".

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "J". Refer to the sample report pages for the affected analyte(s).

Matrix spike recovery and relative percent difference (RPD) data were not calculated for some analytes for WG-12616-080808-DN-01 and WG-12616-080908-DN-14 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".

Some dissolved metals sample results in this lot are greater than the corresponding total metals results. The affected data was reviewed and the difference between the total and dissolved results was considered insignificant or the results were confirmed by analysis of the undigested samples.

GENERAL CHEMISTRY

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are +/- the standard reporting limit (SRL).

Matrix spike recovery and relative percent difference (RPD) data were not calculated for some analytes for WG-12616-080908-DN-14 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".

The LCS/LCSD associated with batch(es) 8228324 were broken for TDS. The samples were reported within hold with the blank. The samples were recreated and reset and both sets will be reported.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica North Canton 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.

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, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

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. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. 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.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

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 twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
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 repreparation 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 may 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 (MS/DU) 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 (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

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, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, 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.

EXECUTIVE SUMMARY - Detection Highlights

A8H110121

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
WG-12616-080808-DN-01 08/08/08 12:30	**001**			
Barium - DISSOLVED	0.045 B	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	218	5.0	mg/L	SW846 6010B
Iron - DISSOLVED	2.9	0.10	mg/L	SW846 6010B
Potassium - DISSOLVED	2.7 B,J	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	67.5	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	0.22	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	61.2	5.0	mg/L	SW846 6010B
Nickel - DISSOLVED	0.16	0.040	mg/L	SW846 6010B
Barium	0.047 B	0.20	mg/L	SW846 6010B
Calcium	230	5.0	mg/L	SW846 6010B
Iron	4.7	0.10	mg/L	SW846 6010B
Potassium	2.6 B,J	5.0	mg/L	SW846 6010B
Magnesium	71.6	5.0	mg/L	SW846 6010B
Manganese	0.25	0.015	mg/L	SW846 6010B
Sodium	60.6	5.0	mg/L	SW846 6010B
Nickel	0.15	0.040	mg/L	SW846 6010B
Total Dissolved Solids	1300	10	mg/L	MCAWW 160.1
Total Suspended Solids	10	4.0	mg/L	MCAWW 160.2
Chloride	66.0	5.0	mg/L	MCAWW 300.0A
Sulfate	512	5.0	mg/L	MCAWW 300.0A
WG-12616-080808-DN-02 08/08/08 13:30	**002**			
Barium - DISSOLVED	0.021 B	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	221	5.0	mg/L	SW846 6010B
Potassium - DISSOLVED	2.0 B,J	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	63.0	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	0.00051 B	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	42.7	5.0	mg/L	SW846 6010B
Nickel - DISSOLVED	0.020 B	0.040	mg/L	SW846 6010B
Barium	0.022 B	0.20	mg/L	SW846 6010B
Calcium	228	5.0	mg/L	SW846 6010B
Potassium	1.9 B,J	5.0	mg/L	SW846 6010B
Magnesium	65.1	5.0	mg/L	SW846 6010B
Manganese	0.0050 B	0.015	mg/L	SW846 6010B
Sodium	42.8	5.0	mg/L	SW846 6010B
Nickel	0.020 B	0.040	mg/L	SW846 6010B
Total Dissolved Solids	1200	10	mg/L	MCAWW 160.1
Chloride	16.8	5.0	mg/L	MCAWW 300.0A
Sulfate	573	5.0	mg/L	MCAWW 300.0A

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A8H110121

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
WG-12616-080808-DN-03 08/08/08 14:20	**003**			
Barium - DISSOLVED	0.083 B	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	91.2	5.0	mg/L	SW846 6010B
Iron - DISSOLVED	0.13	0.10	mg/L	SW846 6010B
Potassium - DISSOLVED	4.3 B,J	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	19.2	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	0.041	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	179	5.0	mg/L	SW846 6010B
Nickel - DISSOLVED	0.010 B	0.040	mg/L	SW846 6010B
Barium	0.084 B	0.20	mg/L	SW846 6010B
Calcium	91.8	5.0	mg/L	SW846 6010B
Iron	0.13	0.10	mg/L	SW846 6010B
Potassium	4.2 B,J	5.0	mg/L	SW846 6010B
Magnesium	19.4	5.0	mg/L	SW846 6010B
Manganese	0.042	0.015	mg/L	SW846 6010B
Sodium	180	5.0	mg/L	SW846 6010B
Nickel	0.010 B	0.040	mg/L	SW846 6010B
Total Dissolved Solids	820	10	mg/L	MCAWW 160.1
Chloride	169	5.0	mg/L	MCAWW 300.0A
Sulfate	34.3	5.0	mg/L	MCAWW 300.0A
WG-12616-080808-DN-04 08/08/08 14:50	**004**			
Barium - DISSOLVED	0.083 B	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	92.3	5.0	mg/L	SW846 6010B
Iron - DISSOLVED	0.11	0.10	mg/L	SW846 6010B
Potassium - DISSOLVED	4.0 B,J	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	19.5	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	0.043	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	174	5.0	mg/L	SW846 6010B
Nickel - DISSOLVED	0.012 B	0.040	mg/L	SW846 6010B
Barium	0.083 B	0.20	mg/L	SW846 6010B
Calcium	90.6	5.0	mg/L	SW846 6010B
Iron	0.10	0.10	mg/L	SW846 6010B
Potassium	4.1 B,J	5.0	mg/L	SW846 6010B
Magnesium	19.1	5.0	mg/L	SW846 6010B
Manganese	0.041	0.015	mg/L	SW846 6010B
Sodium	177	5.0	mg/L	SW846 6010B
Nickel	0.0089 B	0.040	mg/L	SW846 6010B
Total Dissolved Solids	800	10	mg/L	MCAWW 160.1
Chloride	170	5.0	mg/L	MCAWW 300.0A
Sulfate	35.9	5.0	mg/L	MCAWW 300.0A

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A8H110121

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
WG-12616-080808-DN-05 08/08/08 15:55	**005**			
Barium - DISSOLVED	0.057 B	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	127	5.0	mg/L	SW846 6010B
Iron - DISSOLVED	0.12	0.10	mg/L	SW846 6010B
Potassium - DISSOLVED	11.9 J	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	39.9	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	0.24	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	67.2	5.0	mg/L	SW846 6010B
Nickel - DISSOLVED	0.034 B	0.040	mg/L	SW846 6010B
Barium	0.054 B	0.20	mg/L	SW846 6010B
Calcium	121	5.0	mg/L	SW846 6010B
Iron	0.16	0.10	mg/L	SW846 6010B
Potassium	11.0 J	5.0	mg/L	SW846 6010B
Magnesium	38.3	5.0	mg/L	SW846 6010B
Manganese	0.24	0.015	mg/L	SW846 6010B
Sodium	63.9	5.0	mg/L	SW846 6010B
Nickel	0.031 B	0.040	mg/L	SW846 6010B
Total Dissolved Solids	740	10	mg/L	MCAWW 160.1
Chloride	57.3	5.0	mg/L	MCAWW 300.0A
Sulfate	160	5.0	mg/L	MCAWW 300.0A
WG-12616-080908-DN-06 08/09/08 08:30	**006**			
Barium - DISSOLVED	0.048 B	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	110	5.0	mg/L	SW846 6010B
Iron - DISSOLVED	0.19	0.10	mg/L	SW846 6010B
Potassium - DISSOLVED	5.4 J	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	38.7	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	0.36	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	112	5.0	mg/L	SW846 6010B
Nickel - DISSOLVED	0.0053 B	0.040	mg/L	SW846 6010B
Barium	0.045 B	0.20	mg/L	SW846 6010B
Calcium	104	5.0	mg/L	SW846 6010B
Iron	0.21	0.10	mg/L	SW846 6010B
Potassium	4.9 B,J	5.0	mg/L	SW846 6010B
Magnesium	36.5	5.0	mg/L	SW846 6010B
Manganese	0.34	0.015	mg/L	SW846 6010B
Sodium	107	5.0	mg/L	SW846 6010B
Nickel	0.0070 B	0.040	mg/L	SW846 6010B
Total Dissolved Solids	790	10	mg/L	MCAWW 160.1
Total Suspended Solids	3.0 B	4.0	mg/L	MCAWW 160.2

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A8H110121

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
WG-12616-080908-DN-06 08/09/08 08:30 006				
Chloride	30.9	5.0	mg/L	MCAWW 300.0A
Sulfate	225	5.0	mg/L	MCAWW 300.0A
WG-12616-080908-DN-07 08/09/08 09:15 007				
Barium - DISSOLVED	0.021 B	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	236	5.0	mg/L	SW846 6010B
Iron - DISSOLVED	0.28	0.10	mg/L	SW846 6010B
Potassium - DISSOLVED	1.4 B,J	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	98.6	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	0.39	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	45.4	5.0	mg/L	SW846 6010B
Nickel - DISSOLVED	0.012 B	0.040	mg/L	SW846 6010B
Barium	0.021 B	0.20	mg/L	SW846 6010B
Calcium	244	5.0	mg/L	SW846 6010B
Iron	0.36	0.10	mg/L	SW846 6010B
Potassium	1.4 B,J	5.0	mg/L	SW846 6010B
Magnesium	101	5.0	mg/L	SW846 6010B
Manganese	0.42	0.015	mg/L	SW846 6010B
Sodium	46.5	5.0	mg/L	SW846 6010B
Nickel	0.0086 B	0.040	mg/L	SW846 6010B
Total Dissolved Solids	1400	20	mg/L	MCAWW 160.1
Total Suspended Solids	3.0 B	4.0	mg/L	MCAWW 160.2
Chloride	101	5.0	mg/L	MCAWW 300.0A
Sulfate	679	5.0	mg/L	MCAWW 300.0A
WG-12616-080908-DN-08 08/09/08 10:55 008				
Barium - DISSOLVED	0.018 B	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	142	5.0	mg/L	SW846 6010B
Iron - DISSOLVED	1.3	0.10	mg/L	SW846 6010B
Potassium - DISSOLVED	3.0 B,J	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	27.8	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	0.20	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	36.9	5.0	mg/L	SW846 6010B
Nickel - DISSOLVED	0.039 B	0.040	mg/L	SW846 6010B
Barium	0.019 B	0.20	mg/L	SW846 6010B
Calcium	146	5.0	mg/L	SW846 6010B
Iron	1.4	0.10	mg/L	SW846 6010B
Potassium	3.0 B,J	5.0	mg/L	SW846 6010B
Magnesium	28.8	5.0	mg/L	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A8H110121

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
WG-12616-080908-DN-08 08/09/08 10:55	**008**			
Manganese	0.22	0.015	mg/L	SW846 6010B
Sodium	38.0	5.0	mg/L	SW846 6010B
Nickel	0.040	0.040	mg/L	SW846 6010B
Total Dissolved Solids	680	10	mg/L	MCAWW 160.1
Total Suspended Solids	3.0 B	4.0	mg/L	MCAWW 160.2
Chloride	23.3	2.0	mg/L	MCAWW 300.0A
Sulfate	117	2.0	mg/L	MCAWW 300.0A
WG-12616-080908-DN-09 08/09/08 11:15	**009**			
Barium - DISSOLVED	0.018 B	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	143	5.0	mg/L	SW846 6010B
Iron - DISSOLVED	1.3	0.10	mg/L	SW846 6010B
Potassium - DISSOLVED	2.9 B,J	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	28.0	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	0.20	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	36.8	5.0	mg/L	SW846 6010B
Nickel - DISSOLVED	0.040	0.040	mg/L	SW846 6010B
Barium	0.033 B	0.20	mg/L	SW846 6010B
Calcium	181	5.0	mg/L	SW846 6010B
Chromium	0.0032 B	0.010	mg/L	SW846 6010B
Iron	5.5	0.10	mg/L	SW846 6010B
Potassium	14.1 J	5.0	mg/L	SW846 6010B
Magnesium	54.0	5.0	mg/L	SW846 6010B
Manganese	0.82	0.015	mg/L	SW846 6010B
Sodium	30.3	5.0	mg/L	SW846 6010B
Nickel	0.029 B	0.040	mg/L	SW846 6010B
Total Dissolved Solids	750	10	mg/L	MCAWW 160.1
Total Suspended Solids	530	4.0	mg/L	MCAWW 160.2
Chloride	22.8	2.0	mg/L	MCAWW 300.0A
Sulfate	215	2.0	mg/L	MCAWW 300.0A
WG-12616-080908-DN-10 08/09/08 13:35	**010**			
Barium - DISSOLVED	0.063 B	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	118	5.0	mg/L	SW846 6010B
Iron - DISSOLVED	1.8	0.10	mg/L	SW846 6010B
Potassium - DISSOLVED	1.5 B,J,E	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	26.8	5.0	mg/L	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A8H110121

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
WG-12616-080908-DN-10 08/09/08 13:35 010				
Manganese - DISSOLVED	0.15	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	9.5	5.0	mg/L	SW846 6010B
Barium	0.064 B	0.20	mg/L	SW846 6010B
Calcium	117	5.0	mg/L	SW846 6010B
Iron	4.1	0.10	mg/L	SW846 6010B
Potassium	1.5 B,J	5.0	mg/L	SW846 6010B
Magnesium	26.3	5.0	mg/L	SW846 6010B
Manganese	0.15	0.015	mg/L	SW846 6010B
Sodium	9.1	5.0	mg/L	SW846 6010B
Total Dissolved Solids	480	10	mg/L	MCAWW 160.1
Total Suspended Solids	5.0	4.0	mg/L	MCAWW 160.2
Chloride	6.0	2.0	mg/L	MCAWW 300.0A
Sulfate	64.5	2.0	mg/L	MCAWW 300.0A
WG-12616-080908-DN-11 08/09/08 15:00 011				
Barium - DISSOLVED	0.020 B,J	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	108 J	5.0	mg/L	SW846 6010B
Potassium - DISSOLVED	1.6 B,J	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	20.9 J	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	0.54 J	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	15.4	5.0	mg/L	SW846 6010B
Barium	0.025 B,J	0.20	mg/L	SW846 6010B
Calcium	113 J	5.0	mg/L	SW846 6010B
Iron	0.23	0.10	mg/L	SW846 6010B
Potassium	1.5 B,J	5.0	mg/L	SW846 6010B
Magnesium	22.2 J	5.0	mg/L	SW846 6010B
Manganese	1.5 J	0.015	mg/L	SW846 6010B
Sodium	13.9	5.0	mg/L	SW846 6010B
Total Dissolved Solids	440	10	mg/L	MCAWW 160.1
Total Suspended Solids	6.0	4.0	mg/L	MCAWW 160.2
Chloride	3.0	1.0	mg/L	MCAWW 300.0A
Sulfate	47.1	1.0	mg/L	MCAWW 300.0A
WG-12616-080908-DN-12 08/09/08 15:30 012				
Barium - DISSOLVED	0.029 B,J	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	58.3 J	5.0	mg/L	SW846 6010B
Iron - DISSOLVED	0.36	0.10	mg/L	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A8H110121

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
WG-12616-080908-DN-12 08/09/08 15:30 012				
Potassium - DISSOLVED	4.6 B,J	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	15.2 J	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	0.17 J	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	115	5.0	mg/L	SW846 6010B
Barium	0.024 B,J	0.20	mg/L	SW846 6010B
Calcium	51.8 J	5.0	mg/L	SW846 6010B
Iron	0.37	0.10	mg/L	SW846 6010B
Potassium	4.9 B,J	5.0	mg/L	SW846 6010B
Magnesium	13.6 J	5.0	mg/L	SW846 6010B
Manganese	0.20 J	0.015	mg/L	SW846 6010B
Sodium	126	5.0	mg/L	SW846 6010B
Total Dissolved Solids	540	10	mg/L	MCAWW 160.1
Chloride	19.1	1.0	mg/L	MCAWW 300.0A
Sulfate	79.0	1.0	mg/L	MCAWW 300.0A
WG-12616-080908-DN-13 08/09/08 17:10 013				
Barium - DISSOLVED	0.072 B,J	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	126 J	5.0	mg/L	SW846 6010B
Iron - DISSOLVED	0.11	0.10	mg/L	SW846 6010B
Potassium - DISSOLVED	3.0 B,J	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	34.0 J	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	0.082 J	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	52.5	5.0	mg/L	SW846 6010B
Nickel - DISSOLVED	0.0035 B	0.040	mg/L	SW846 6010B
Barium	0.072 B,J	0.20	mg/L	SW846 6010B
Calcium	127 J	5.0	mg/L	SW846 6010B
Iron	0.13	0.10	mg/L	SW846 6010B
Potassium	2.9 B,J	5.0	mg/L	SW846 6010B
Magnesium	32.8 J	5.0	mg/L	SW846 6010B
Manganese	0.11 J	0.015	mg/L	SW846 6010B
Sodium	48.7	5.0	mg/L	SW846 6010B
Total Dissolved Solids	610	10	mg/L	MCAWW 160.1
Chloride	9.9	5.0	mg/L	MCAWW 300.0A
Sulfate	110	5.0	mg/L	MCAWW 300.0A
WG-12616-080908-DN-14 08/09/08 17:55 014				
Barium - DISSOLVED	0.028 B,J	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	101 J	5.0	mg/L	SW846 6010B
Iron - DISSOLVED	0.13	0.10	mg/L	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A8H110121

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
WG-12616-080908-DN-14 08/09/08 17:55	**014**			
Potassium - DISSOLVED	789 J	25.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	17.8 J	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	0.076 J	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	144	5.0	mg/L	SW846 6010B
Nickel - DISSOLVED	0.47	0.040	mg/L	SW846 6010B
Barium	0.030 B,J	0.20	mg/L	SW846 6010B
Calcium	106 J	5.0	mg/L	SW846 6010B
Chromium	0.0080 B	0.010	mg/L	SW846 6010B
Copper	0.0071 B	0.025	mg/L	SW846 6010B
Iron	0.39	0.10	mg/L	SW846 6010B
Potassium	816 J	25.0	mg/L	SW846 6010B
Magnesium	18.7 J	5.0	mg/L	SW846 6010B
Manganese	0.084 J	0.015	mg/L	SW846 6010B
Sodium	149	5.0	mg/L	SW846 6010B
Nickel	0.49	0.040	mg/L	SW846 6010B
Total Dissolved Solids	2600	40	mg/L	MCAWW 160.1
Chloride	269	10.0	mg/L	MCAWW 300.0A
Sulfate	1560	10.0	mg/L	MCAWW 300.0A
WG-12616-080908-DN-15 08/09/08 18:35	**015**			
Barium - DISSOLVED	0.018 B,J	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	66.7 J	5.0	mg/L	SW846 6010B
Potassium - DISSOLVED	1380 J	50.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	4.2 B,J	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	0.015 J	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	229	5.0	mg/L	SW846 6010B
Nickel - DISSOLVED	0.83	0.040	mg/L	SW846 6010B
Barium	0.019 B,J	0.20	mg/L	SW846 6010B
Calcium	69.1 J	5.0	mg/L	SW846 6010B
Copper	0.0097 B	0.025	mg/L	SW846 6010B
Potassium	1420 J	50.0	mg/L	SW846 6010B
Magnesium	4.4 B,J	5.0	mg/L	SW846 6010B
Manganese	0.016 J	0.015	mg/L	SW846 6010B
Sodium	236	5.0	mg/L	SW846 6010B
Nickel	0.83	0.040	mg/L	SW846 6010B
Total Dissolved Solids	4200	50	mg/L	MCAWW 160.1
Chloride	451	20.0	mg/L	MCAWW 300.0A
Sulfate	2390	20.0	mg/L	MCAWW 300.0A

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A8H110121

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
WG-12616-081008-DN-16 08/10/08 08:30 016				
Barium - DISSOLVED	0.034 B,J	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	72.9 J	5.0	mg/L	SW846 6010B
Potassium - DISSOLVED	1760 J	50.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	15.1 J	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	0.052 J	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	151	5.0	mg/L	SW846 6010B
Nickel - DISSOLVED	0.56	0.040	mg/L	SW846 6010B
Barium	0.036 B,J	0.20	mg/L	SW846 6010B
Calcium	77.4 J	5.0	mg/L	SW846 6010B
Chromium	0.0022 B	0.010	mg/L	SW846 6010B
Copper	0.015 B	0.025	mg/L	SW846 6010B
Iron	0.21	0.10	mg/L	SW846 6010B
Potassium	1780 J	50.0	mg/L	SW846 6010B
Magnesium	16.3 J	5.0	mg/L	SW846 6010B
Manganese	0.058 J	0.015	mg/L	SW846 6010B
Sodium	155	5.0	mg/L	SW846 6010B
Nickel	0.57	0.040	mg/L	SW846 6010B
Total Dissolved Solids	2900	40	mg/L	MCAWW 160.1
Chloride	307	10.0	mg/L	MCAWW 300.0A
Sulfate	1740	10.0	mg/L	MCAWW 300.0A
WG-12616-081008-DN-17 08/10/08 09:15 017				
Barium - DISSOLVED	0.028 B,J	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	162 J	5.0	mg/L	SW846 6010B
Copper - DISSOLVED	0.0046 B	0.025	mg/L	SW846 6010B
Potassium - DISSOLVED	794 J	25.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	10.7 J	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	0.050 J	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	191	5.0	mg/L	SW846 6010B
Nickel - DISSOLVED	0.61	0.040	mg/L	SW846 6010B
Barium	0.093 B,J	0.20	mg/L	SW846 6010B
Calcium	189 J	5.0	mg/L	SW846 6010B
Chromium	1.1	0.010	mg/L	SW846 6010B
Copper	6.6	0.025	mg/L	SW846 6010B
Iron	38.7	0.10	mg/L	SW846 6010B
Potassium	524 J	5.0	mg/L	SW846 6010B
Magnesium	14.7 J	5.0	mg/L	SW846 6010B
Manganese	0.35 J	0.015	mg/L	SW846 6010B
Sodium	153	5.0	mg/L	SW846 6010B
Nickel	0.89	0.040	mg/L	SW846 6010B
Total Dissolved Solids	3100	40	mg/L	MCAWW 160.1

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A8H110121

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
WG-12616-081008-DN-17 08/10/08 09:15	**017**			
Total Suspended Solids	19	4.0	mg/L	MCAWW 160.2
Total Cyanide	0.006 B	0.010	mg/L	MCAWW 335.2
Chloride	320	10.0	mg/L	MCAWW 300.0A
Sulfate	1850	10.0	mg/L	MCAWW 300.0A
WG-12616-081008-DN-18 08/10/08 09:50	**018**			
Barium - DISSOLVED	0.077 B,J	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	189 J	5.0	mg/L	SW846 6010B
Copper - DISSOLVED	0.068	0.025	mg/L	SW846 6010B
Iron - DISSOLVED	0.78	0.10	mg/L	SW846 6010B
Potassium - DISSOLVED	360 J	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	34.8 J	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	0.79 J	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	94.5	5.0	mg/L	SW846 6010B
Nickel - DISSOLVED	0.42	0.040	mg/L	SW846 6010B
Barium	0.075 B,J	0.20	mg/L	SW846 6010B
Calcium	196 J	5.0	mg/L	SW846 6010B
Copper	0.12	0.025	mg/L	SW846 6010B
Iron	0.38	0.10	mg/L	SW846 6010B
Potassium	376 J	5.0	mg/L	SW846 6010B
Magnesium	36.2 J	5.0	mg/L	SW846 6010B
Manganese	0.10 J	0.015	mg/L	SW846 6010B
Sodium	99.1	5.0	mg/L	SW846 6010B
Nickel	0.44	0.040	mg/L	SW846 6010B
Total Dissolved Solids	1900	20	mg/L	MCAWW 160.1
Chloride	162	10.0	mg/L	MCAWW 300.0A
Sulfate	954	10.0	mg/L	MCAWW 300.0A
WG-12616-081008-DN-19 08/10/08 10:35	**019**			
Barium - DISSOLVED	0.046 B,J	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	370 J	5.0	mg/L	SW846 6010B
Iron - DISSOLVED	21.5	0.10	mg/L	SW846 6010B
Potassium - DISSOLVED	403 J	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	89.4 J	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	4.0 J	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	155	5.0	mg/L	SW846 6010B
Nickel - DISSOLVED	0.94	0.040	mg/L	SW846 6010B
Barium	0.047 B,J	0.20	mg/L	SW846 6010B
Calcium	368 J	5.0	mg/L	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A8H110121

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
WG-12616-081008-DN-19 08/10/08 10:35	**019**			
Iron	14.6	0.10	mg/L	SW846 6010B
Potassium	402 J	5.0	mg/L	SW846 6010B
Magnesium	88.8 J	5.0	mg/L	SW846 6010B
Manganese	3.8 J	0.015	mg/L	SW846 6010B
Sodium	155	5.0	mg/L	SW846 6010B
Nickel	0.94	0.040	mg/L	SW846 6010B
Total Dissolved Solids	3300	40	mg/L	MCAWW 160.1
Total Dissolved Solids	3200	40	mg/L	MCAWW 160.1
Total Suspended Solids	6.0	4.0	mg/L	MCAWW 160.2
Chloride	274	10.0	mg/L	MCAWW 300.0A
Sulfate	1440	10.0	mg/L	MCAWW 300.0A
WG-12616-081008-DN-20 08/10/08 11:10	**020**			
Barium - DISSOLVED	0.041 B,J	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	205 J	5.0	mg/L	SW846 6010B
Chromium - DISSOLVED	0.010	0.010	mg/L	SW846 6010B
Iron - DISSOLVED	0.62	0.10	mg/L	SW846 6010B
Potassium - DISSOLVED	423 J,E	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	54.4 J	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	1.4 J	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	112	5.0	mg/L	SW846 6010B
Nickel - DISSOLVED	0.71	0.040	mg/L	SW846 6010B
Barium	0.037 B,J	0.20	mg/L	SW846 6010B
Calcium	192 J	5.0	mg/L	SW846 6010B
Chromium	0.0077 B	0.010	mg/L	SW846 6010B
Copper	0.022 B	0.025	mg/L	SW846 6010B
Iron	0.67	0.10	mg/L	SW846 6010B
Potassium	404 J	5.0	mg/L	SW846 6010B
Magnesium	51.4 J	5.0	mg/L	SW846 6010B
Manganese	1.2 J	0.015	mg/L	SW846 6010B
Sodium	107	5.0	mg/L	SW846 6010B
Nickel	0.65	0.040	mg/L	SW846 6010B
Total Dissolved Solids	2500	20	mg/L	MCAWW 160.1
Total Dissolved Solids	2500	20	mg/L	MCAWW 160.1
Chloride	208	5.0	mg/L	MCAWW 300.0A
Sulfate	1030	20.0	mg/L	MCAWW 300.0A

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A8H110121

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
WG-12616-081008-DN-21 08/10/08 11:50	**021**			
Barium - DISSOLVED	0.061 B,J	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	306 J	5.0	mg/L	SW846 6010B
Copper - DISSOLVED	0.017 B	0.025	mg/L	SW846 6010B
Iron - DISSOLVED	2.6	0.10	mg/L	SW846 6010B
Potassium - DISSOLVED	243 J	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	74.3 J	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	7.2 J	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	94.7	5.0	mg/L	SW846 6010B
Nickel - DISSOLVED	0.50	0.040	mg/L	SW846 6010B
Barium	0.061 B,J	0.20	mg/L	SW846 6010B
Calcium	320 J	5.0	mg/L	SW846 6010B
Copper	0.11	0.025	mg/L	SW846 6010B
Iron	0.16	0.10	mg/L	SW846 6010B
Potassium	260 J	5.0	mg/L	SW846 6010B
Magnesium	79.5 J	5.0	mg/L	SW846 6010B
Manganese	6.7 J	0.015	mg/L	SW846 6010B
Sodium	102	5.0	mg/L	SW846 6010B
Nickel	0.53	0.040	mg/L	SW846 6010B
Total Dissolved Solids	2600	20	mg/L	MCAWW 160.1
Total Dissolved Solids	2600	20	mg/L	MCAWW 160.1
Chloride	154	10.0	mg/L	MCAWW 300.0A
Sulfate	1320	10.0	mg/L	MCAWW 300.0A

ANALYTICAL METHODS SUMMARY

A8H110121

PARAMETER	ANALYTICAL METHOD
Chloride	MCAWW 300.0A
Filterable Residue (TDS)	MCAWW 160.1
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Non-Filterable Residue (TSS)	MCAWW 160.2
Sulfate	MCAWW 300.0A
Total Cyanide	MCAWW 335.2

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A8H110121

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
KTXTX	001	WG-12616-080808-DN-01	08/08/08	12:30
KTXT7	002	WG-12616-080808-DN-02	08/08/08	13:30
KTXVF	003	WG-12616-080808-DN-03	08/08/08	14:20
KTXVG	004	WG-12616-080808-DN-04	08/08/08	14:50
KTXVJ	005	WG-12616-080808-DN-05	08/08/08	15:55
KTXVK	006	WG-12616-080908-DN-06	08/09/08	08:30
KTXVM	007	WG-12616-080908-DN-07	08/09/08	09:15
KTXVN	008	WG-12616-080908-DN-08	08/09/08	10:55
KTXVP	009	WG-12616-080908-DN-09	08/09/08	11:15
KTXVR	010	WG-12616-080908-DN-10	08/09/08	13:35
KTXVT	011	WG-12616-080908-DN-11	08/09/08	15:00
KTXVV	012	WG-12616-080908-DN-12	08/09/08	15:30
KTXVW	013	WG-12616-080908-DN-13	08/09/08	17:10
KTXVX	014	WG-12616-080908-DN-14	08/09/08	17:55
KTXV1	015	WG-12616-080908-DN-15	08/09/08	18:35
KTXV5	016	WG-12616-081008-DN-16	08/10/08	08:30
KTXV7	017	WG-12616-081008-DN-17	08/10/08	09:15
KTXV9	018	WG-12616-081008-DN-18	08/10/08	09:50
KTXWC	019	WG-12616-081008-DN-19	08/10/08	10:35
KTXWD	020	WG-12616-081008-DN-20	08/10/08	11:10
KTXWF	021	WG-12616-081008-DN-21	08/10/08	11:50

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.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080808-DN-01

TOTAL Metals

Lot-Sample #...: A8H110121-001 **Matrix.....:** WG
Date Sampled...: 08/08/08 12:30 **Date Received..:** 08/11/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8225073						
Barium	**0.047 B**	**0.20**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXTX1AA**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**230**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXTX1AC**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	08/13-08/14/08	KTXTX1AL
		Dilution Factor: 1		MDL.....: 0.0022		
Copper	ND	0.025	mg/L	SW846 6010B	08/13-08/14/08	KTXTX1AD
		Dilution Factor: 1		MDL.....: 0.0045		
Iron	**4.7**	**0.10**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXTX1AE**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**2.6 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXTX1AF**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**71.6**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXTX1AG**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.25**	**0.015**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXTX1AH**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**60.6**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXTX1AJ**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.15**	**0.040**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXTX1AK**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080808-DN-01

DISSOLVED Metals

Lot-Sample #...: A8H110121-001 **Matrix.....:** WG
Date Sampled...: 08/08/08 12:30 **Date Received..:** 08/11/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8225073						
Barium	**0.045 B**	**0.20**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXTX1AM**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**218**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXTX1AN**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	08/13-08/14/08	KTXTX1AP
		Dilution Factor: 1		MDL.....: 0.0022		
Copper	ND	0.025	mg/L	SW846 6010B	08/13-08/14/08	KTXTX1AQ
		Dilution Factor: 1		MDL.....: 0.0045		
Iron	**2.9**	**0.10**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXTX1AR**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**2.7 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXTX1AT**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**67.5**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXTX1AU**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.22**	**0.015**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXTX1AV**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**61.2**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXTX1AW**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.16**	**0.040**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXTX1AX**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080808-DN-01

General Chemistry

Lot-Sample #...: A8H110121-001 **Work Order #...:** KTXTX **Matrix.....:** WG
Date Sampled...: 08/08/08 12:30 **Date Received..:** 08/11/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**66.0**	**5.0**	**mg/L**	**MCAWW 300.0A**	**08/21/08**	**8234278**
	Dilution Factor: 5			MDL.....: 0.50		
Sulfate	**512**	**5.0**	**mg/L**	**MCAWW 300.0A**	**08/21/08**	**8234279**
	Dilution Factor: 5			MDL.....: 0.60		
Total Cyanide	ND	0.010	mg/L	MCAWW 335.2	08/12/08	8225191
	Dilution Factor: 1			MDL.....: 0.005		
Total Dissolved Solids	**1300**	**10**	**mg/L**	**MCAWW 160.1**	**08/14-08/15/08**	**8227250**
	Dilution Factor: 1			MDL.....: 4.6		
Total Suspended Solids	**10**	**4.0**	**mg/L**	**MCAWW 160.2**	**08/14/08**	**8227243**
	Dilution Factor: 1			MDL.....: 2.2		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080808-DN-02

TOTAL Metals

Lot-Sample #...: A8H110121-002 **Matrix.....:** WG
Date Sampled...: 08/08/08 13:30 **Date Received..:** 08/11/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8225073						
Barium	**0.022 B**	**0.20**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXT71AG**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**228**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXT71AH**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	08/13-08/14/08	KTXT71AR
		Dilution Factor: 1		MDL.....: 0.0022		
Copper	ND	0.025	mg/L	SW846 6010B	08/13-08/14/08	KTXT71AJ
		Dilution Factor: 1		MDL.....: 0.0045		
Iron	ND	0.10	mg/L	SW846 6010B	08/13-08/14/08	KTXT71AK
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**1.9 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXT71AL**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**65.1**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXT71AM**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.0050 B**	**0.015**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXT71AN**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**42.8**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXT71AP**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.020 B**	**0.040**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXT71AQ**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080808-DN-02

DISSOLVED Metals

Lot-Sample #...: A8H110121-002 **Matrix.....:** WG
Date Sampled...: 08/08/08 13:30 **Date Received..:** 08/11/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8225073						
Barium	**0.021 B**	**0.20**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXT71AT**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**221**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXT71AU**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	08/13-08/14/08	KTXT71AV
		Dilution Factor: 1		MDL.....: 0.0022		
Copper	ND	0.025	mg/L	SW846 6010B	08/13-08/14/08	KTXT71AW
		Dilution Factor: 1		MDL.....: 0.0045		
Iron	ND	0.10	mg/L	SW846 6010B	08/13-08/14/08	KTXT71AX
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**2.0 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXT71A0**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**63.0**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXT71A1**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.00051 B**	**0.015**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXT71A2**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**42.7**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXT71A3**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.020 B**	**0.040**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXT71A4**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080808-DN-02

General Chemistry

Lot-Sample #...: A8H110121-002 **Work Order #...:** KTXT7 **Matrix.....:** WG
Date Sampled...: 08/08/08 13:30 **Date Received..:** 08/11/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**16.8**	**5.0**	**mg/L**	**MCAWW 300.0A**	**08/21/08**	**8234278**
		Dilution Factor: 5		MDL.....: 0.50		
Sulfate	**573**	**5.0**	**mg/L**	**MCAWW 300.0A**	**08/21/08**	**8234279**
		Dilution Factor: 5		MDL.....: 0.60		
Total Cyanide	ND	0.010	mg/L	MCAWW 335.2	08/12/08	8225191
		Dilution Factor: 1		MDL.....: 0.005		
Total Dissolved Solids	**1200**	**10**	**mg/L**	**MCAWW 160.1**	**08/14-08/15/08**	**8227250**
		Dilution Factor: 1		MDL.....: 4.6		
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	08/14/08	8227243
		Dilution Factor: 1		MDL.....: 2.2		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080808-DN-03

TOTAL Metals

Lot-Sample #...: A8H110121-003 **Matrix.....:** WG
Date Sampled...: 08/08/08 14:20 **Date Received..:** 08/11/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8225073						
Barium	**0.084 B**	**0.20**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVF1AG**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**91.8**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVF1AH**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	08/13-08/14/08	KTXVF1AR
		Dilution Factor: 1		MDL.....: 0.0022		
Copper	ND	0.025	mg/L	SW846 6010B	08/13-08/14/08	KTXVF1AJ
		Dilution Factor: 1		MDL.....: 0.0045		
Iron	**0.13**	**0.10**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVF1AK**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**4.2 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVF1AL**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**19.4**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVF1AM**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.042**	**0.015**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVF1AN**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**180**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVF1AP**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.010 B**	**0.040**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVF1AQ**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080808-DN-03

DISSOLVED Metals

Lot-Sample #...: A8H110121-003 **Matrix.....:** WG
Date Sampled...: 08/08/08 14:20 **Date Received..:** 08/11/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8225073						
Barium	**0.083 B**	**0.20**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVF1AT**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**91.2**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVF1AU**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	08/13-08/14/08	KTXVF1AV
		Dilution Factor: 1		MDL.....: 0.0022		
Copper	ND	0.025	mg/L	SW846 6010B	08/13-08/14/08	KTXVF1AW
		Dilution Factor: 1		MDL.....: 0.0045		
Iron	**0.13**	**0.10**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVF1AX**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**4.3 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVF1A0**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**19.2**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVF1A1**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.041**	**0.015**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVF1A2**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**179**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVF1A3**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.010 B**	**0.040**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVF1A4**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080808-DN-03

General Chemistry

Lot-Sample #...: A8H110121-003 **Work Order #...:** KTXVF **Matrix.....:** WG
Date Sampled...: 08/08/08 14:20 **Date Received..:** 08/11/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**169**	**5.0**	**mg/L**	**MCAWW 300.0A**	**08/21/08**	**8234278**
		Dilution Factor: 5		MDL.....: 0.50		
Sulfate	**34.3**	**5.0**	**mg/L**	**MCAWW 300.0A**	**08/21/08**	**8234279**
		Dilution Factor: 5		MDL.....: 0.60		
Total Cyanide	ND	0.010	mg/L	MCAWW 335.2	08/12/08	8225191
		Dilution Factor: 1		MDL.....: 0.005		
Total Dissolved Solids	**820**	**10**	**mg/L**	**MCAWW 160.1**	**08/14-08/15/08**	**8227250**
		Dilution Factor: 1		MDL.....: 4.6		
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	08/14/08	8227243
		Dilution Factor: 1		MDL.....: 2.2		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080808-DN-04

TOTAL Metals

Lot-Sample #...: A8H110121-004 Matrix.....: WG
Date Sampled...: 08/08/08 14:50 Date Received..: 08/11/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8225073						
Barium	**0.083 B**	**0.20**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVG1AG**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**90.6**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVG1AH**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	08/13-08/14/08	KTXVG1AR
		Dilution Factor: 1		MDL.....: 0.0022		
Copper	ND	0.025	mg/L	SW846 6010B	08/13-08/14/08	KTXVG1AJ
		Dilution Factor: 1		MDL.....: 0.0045		
Iron	**0.10**	**0.10**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVG1AK**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**4.1 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVG1AL**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**19.1**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVG1AM**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.041**	**0.015**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVG1AN**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**177**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVG1AP**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.0089 B**	**0.040**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVG1AQ**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080808-DN-04

DISSOLVED Metals

Lot-Sample #...: A8H110121-004 **Matrix.....:** WG
Date Sampled...: 08/08/08 14:50 **Date Received..:** 08/11/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8225073						
Barium	**0.083 B**	**0.20**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVG1AT**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**92.3**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVG1AU**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	08/13-08/14/08	KTXVG1AV
		Dilution Factor: 1		MDL.....: 0.0022		
Copper	ND	0.025	mg/L	SW846 6010B	08/13-08/14/08	KTXVG1AW
		Dilution Factor: 1		MDL.....: 0.0045		
Iron	**0.11**	**0.10**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVG1AX**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**4.0 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVG1A0**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**19.5**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVG1A1**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.043**	**0.015**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVG1A2**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**174**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVG1A3**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.012 B**	**0.040**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVG1A4**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080808-DN-04

General Chemistry

Lot-Sample #...: A8H110121-004 **Work Order #...:** KTXVG **Matrix.....:** WG
Date Sampled...: 08/08/08 14:50 **Date Received..:** 08/11/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**170**	**5.0**	**mg/L**	**MCAWW 300.0A**	**08/21/08**	**8234278**
		Dilution Factor: 5		MDL.....: 0.50		
Sulfate	**35.9**	**5.0**	**mg/L**	**MCAWW 300.0A**	**08/21/08**	**8234279**
		Dilution Factor: 5		MDL.....: 0.60		
Total Cyanide	ND	0.010	mg/L	MCAWW 335.2	08/12/08	8225191
		Dilution Factor: 1		MDL.....: 0.005		
Total Dissolved Solids	**800**	**10**	**mg/L**	**MCAWW 160.1**	**08/14-08/15/08**	**8227250**
		Dilution Factor: 1		MDL.....: 4.6		
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	08/14/08	8227243
		Dilution Factor: 1		MDL.....: 2.2		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080808-DN-05

TOTAL Metals

Lot-Sample #...: A8H110121-005 **Matrix.....:** WG
Date Sampled...: 08/08/08 15:55 **Date Received..:** 08/11/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8225073						
Barium	**0.054 B**	**0.20**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVJ1AG**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**121**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVJ1AH**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	08/13-08/14/08	KTXVJ1AR
		Dilution Factor: 1		MDL.....: 0.0022		
Copper	ND	0.025	mg/L	SW846 6010B	08/13-08/14/08	KTXVJ1AJ
		Dilution Factor: 1		MDL.....: 0.0045		
Iron	**0.16**	**0.10**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVJ1AK**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**11.0 J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVJ1AL**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**38.3**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVJ1AM**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.24**	**0.015**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVJ1AN**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**63.9**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVJ1AP**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.031 B**	**0.040**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVJ1AQ**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080808-DN-05

DISSOLVED Metals

Lot-Sample #...: A8H110121-005 **Matrix.....:** WG
Date Sampled...: 08/08/08 15:55 **Date Received..:** 08/11/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8225073						
Barium	**0.057 B**	**0.20**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVJ1AT**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**127**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVJ1AU**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	08/13-08/14/08	KTXVJ1AV
		Dilution Factor: 1		MDL.....: 0.0022		
Copper	ND	0.025	mg/L	SW846 6010B	08/13-08/14/08	KTXVJ1AW
		Dilution Factor: 1		MDL.....: 0.0045		
Iron	**0.12**	**0.10**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVJ1AX**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**11.9 J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVJ1A0**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**39.9**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVJ1A1**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.24**	**0.015**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVJ1A2**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**67.2**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVJ1A3**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.034 B**	**0.040**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVJ1A4**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080808-DN-05

General Chemistry

Lot-Sample #...: A8H110121-005 **Work Order #...:** KTXVJ **Matrix.....:** WG
Date Sampled...: 08/08/08 15:55 **Date Received..:** 08/11/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**57.3**	**5.0**	**mg/L**	**MCAWW 300.0A**	**08/21/08**	**8234278**
		Dilution Factor: 5		MDL.....: 0.50		
Sulfate	**160**	**5.0**	**mg/L**	**MCAWW 300.0A**	**08/21/08**	**8234279**
		Dilution Factor: 5		MDL.....: 0.60		
Total Cyanide	ND	0.010	mg/L	MCAWW 335.2	08/12/08	8225191
		Dilution Factor: 1		MDL.....: 0.005		
Total Dissolved Solids	**740**	**10**	**mg/L**	**MCAWW 160.1**	**08/14-08/15/08**	**8227250**
		Dilution Factor: 1		MDL.....: 4.6		
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	08/14/08	8227243
		Dilution Factor: 1		MDL.....: 2.2		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080908-DN-06

TOTAL Metals

Lot-Sample #...: A8H110121-006 **Matrix.....:** WG
Date Sampled...: 08/09/08 08:30 **Date Received..:** 08/11/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8225073						
Barium	**0.045 B**	**0.20**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVK1AG**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**104**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVK1AH**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	08/13-08/14/08	KTXVK1AR
		Dilution Factor: 1		MDL.....: 0.0022		
Copper	ND	0.025	mg/L	SW846 6010B	08/13-08/14/08	KTXVK1AJ
		Dilution Factor: 1		MDL.....: 0.0045		
Iron	**0.21**	**0.10**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVK1AK**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**4.9 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVK1AL**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**36.5**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVK1AM**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.34**	**0.015**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVK1AN**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**107**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVK1AP**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.0070 B**	**0.040**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVK1AQ**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080908-DN-06

DISSOLVED Metals

Lot-Sample #...: A8H110121-006 **Matrix.....:** WG
Date Sampled...: 08/09/08 08:30 **Date Received..:** 08/11/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8225073						
Barium	**0.048 B**	**0.20**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVK1AT**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**110**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVK1AU**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	08/13-08/14/08	KTXVK1AV
		Dilution Factor: 1		MDL.....: 0.0022		
Copper	ND	0.025	mg/L	SW846 6010B	08/13-08/14/08	KTXVK1AW
		Dilution Factor: 1		MDL.....: 0.0045		
Iron	**0.19**	**0.10**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVK1AX**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**5.4 J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVK1A0**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**38.7**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVK1A1**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.36**	**0.015**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVK1A2**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**112**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVK1A3**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.0053 B**	**0.040**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVK1A4**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080908-DN-06

General Chemistry

Lot-Sample #...: A8H110121-006 **Work Order #...:** KTXVK **Matrix.....:** WG
Date Sampled...: 08/09/08 08:30 **Date Received..:** 08/11/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**30.9**	**5.0**	**mg/L**	**MCAWW 300.0A**	**08/21/08**	**8234278**
		Dilution Factor: 5		MDL.....: 0.50		
Sulfate	**225**	**5.0**	**mg/L**	**MCAWW 300.0A**	**08/21/08**	**8234279**
		Dilution Factor: 5		MDL.....: 0.60		
Total Cyanide	ND	0.010	mg/L	MCAWW 335.2	08/12/08	8225191
		Dilution Factor: 1		MDL.....: 0.005		
Total Dissolved Solids	**790**	**10**	**mg/L**	**MCAWW 160.1**	**08/14-08/15/08**	**8227250**
		Dilution Factor: 1		MDL.....: 4.6		
Total Suspended Solids	**3.0 B**	**4.0**	**mg/L**	**MCAWW 160.2**	**08/14/08**	**8227243**
		Dilution Factor: 1		MDL.....: 2.2		

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080908-DN-07

TOTAL Metals

Lot-Sample #...: A8H110121-007 **Matrix.....:** WG
Date Sampled...: 08/09/08 09:15 **Date Received..:** 08/11/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8225073						
Barium	**0.021 B**	**0.20**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVM1AG**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**244**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVM1AH**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	08/13-08/14/08	KTXVM1AR
		Dilution Factor: 1		MDL.....: 0.0022		
Copper	ND	0.025	mg/L	SW846 6010B	08/13-08/14/08	KTXVM1AJ
		Dilution Factor: 1		MDL.....: 0.0045		
Iron	**0.36**	**0.10**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVM1AK**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**1.4 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVM1AL**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**101**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVM1AM**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.42**	**0.015**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVM1AN**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**46.5**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVM1AP**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.0086 B**	**0.040**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVM1AQ**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080908-DN-07

DISSOLVED Metals

Lot-Sample #...: A8H110121-007 **Matrix.....:** WG
Date Sampled...: 08/09/08 09:15 **Date Received..:** 08/11/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8225073						
Barium	**0.021 B**	**0.20**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVM1AT**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**236**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVM1AU**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	08/13-08/14/08	KTXVM1AV
		Dilution Factor: 1		MDL.....: 0.0022		
Copper	ND	0.025	mg/L	SW846 6010B	08/13-08/14/08	KTXVM1AW
		Dilution Factor: 1		MDL.....: 0.0045		
Iron	**0.28**	**0.10**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVM1AX**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**1.4 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVM1A0**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**98.6**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVM1A1**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.39**	**0.015**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVM1A2**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**45.4**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVM1A3**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.012 B**	**0.040**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVM1A4**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080908-DN-07

General Chemistry

Lot-Sample #...: A8H110121-007 **Work Order #...:** KTXVM **Matrix.....:** WG
Date Sampled...: 08/09/08 09:15 **Date Received..:** 08/11/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**101**	**5.0**	**mg/L**	**MCAWW 300.0A**	**08/21/08**	**8234278**
		Dilution Factor: 5		MDL.....: 0.50		
Sulfate	**679**	**5.0**	**mg/L**	**MCAWW 300.0A**	**08/21/08**	**8234279**
		Dilution Factor: 5		MDL.....: 0.60		
Total Cyanide	ND	0.010	mg/L	MCAWW 335.2	08/12/08	8225191
		Dilution Factor: 1		MDL.....: 0.005		
Total Dissolved Solids	**1400**	**20**	**mg/L**	**MCAWW 160.1**	**08/14-08/15/08**	**8227250**
		Dilution Factor: 2		MDL.....: 9.2		
Total Suspended Solids	**3.0 B**	**4.0**	**mg/L**	**MCAWW 160.2**	**08/14/08**	**8227243**
		Dilution Factor: 1		MDL.....: 2.2		

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080908-DN-08

TOTAL Metals

Lot-Sample #...: A8H110121-008 **Matrix.....:** WG
Date Sampled...: 08/09/08 10:55 **Date Received..:** 08/11/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8225073						
Barium	**0.019 B**	**0.20**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVN1AG**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**146**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVN1AH**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	08/13-08/14/08	KTXVN1AR
		Dilution Factor: 1		MDL.....: 0.0022		
Copper	ND	0.025	mg/L	SW846 6010B	08/13-08/14/08	KTXVN1AJ
		Dilution Factor: 1		MDL.....: 0.0045		
Iron	**1.4**	**0.10**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVN1AK**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**3.0 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVN1AL**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**28.8**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVN1AM**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.22**	**0.015**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVN1AN**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**38.0**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVN1AP**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.040**	**0.040**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVN1AQ**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080908-DN-08

DISSOLVED Metals

Lot-Sample #...: A8H110121-008 **Matrix.....:** WG
Date Sampled...: 08/09/08 10:55 **Date Received..:** 08/11/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8225073						
Barium	**0.018 B**	**0.20**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVN1AT**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**142**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVN1AU**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	08/13-08/14/08	KTXVN1AV
		Dilution Factor: 1		MDL.....: 0.0022		
Copper	ND	0.025	mg/L	SW846 6010B	08/13-08/14/08	KTXVN1AW
		Dilution Factor: 1		MDL.....: 0.0045		
Iron	**1.3**	**0.10**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVN1AX**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**3.0 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVN1A0**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**27.8**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVN1A1**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.20**	**0.015**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVN1A2**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**36.9**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVN1A3**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.039 B**	**0.040**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVN1A4**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080908-DN-08

General Chemistry

Lot-Sample #...: A8H110121-008 **Work Order #...:** KTXVN **Matrix.....:** WG
Date Sampled...: 08/09/08 10:55 **Date Received..:** 08/11/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**23.3**	**2.0**	**mg/L**	**MCAWW 300.0A**	**08/21/08**	**8234278**
		Dilution Factor: 2		MDL.....: 0.20		
Sulfate	**117**	**2.0**	**mg/L**	**MCAWW 300.0A**	**08/21/08**	**8234279**
		Dilution Factor: 2		MDL.....: 0.24		
Total Cyanide	ND	0.010	mg/L	MCAWW 335.2	08/12/08	8225191
		Dilution Factor: 1		MDL.....: 0.005		
Total Dissolved Solids	**680**	**10**	**mg/L**	**MCAWW 160.1**	**08/14-08/15/08**	**8227250**
		Dilution Factor: 1		MDL.....: 4.6		
Total Suspended Solids	**3.0 B**	**4.0**	**mg/L**	**MCAWW 160.2**	**08/14/08**	**8227243**
		Dilution Factor: 1		MDL.....: 2.2		

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080908-DN-09

TOTAL Metals

Lot-Sample #...: A8H110121-009 Matrix.....: WG
Date Sampled...: 08/09/08 11:15 Date Received..: 08/11/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8225073						
Barium	0.033 B	0.20	mg/L	SW846 6010B	08/13-08/14/08	KTXVP1AG
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	181	5.0	mg/L	SW846 6010B	08/13-08/14/08	KTXVP1AH
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	0.0032 B	0.010	mg/L	SW846 6010B	08/13-08/14/08	KTXVP1AR
		Dilution Factor: 1		MDL.....: 0.0022		
Copper	ND	0.025	mg/L	SW846 6010B	08/13-08/14/08	KTXVP1AJ
		Dilution Factor: 1		MDL.....: 0.0045		
Iron	5.5	0.10	mg/L	SW846 6010B	08/13-08/14/08	KTXVP1AK
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	14.1 J	5.0	mg/L	SW846 6010B	08/13-08/14/08	KTXVP1AL
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	54.0	5.0	mg/L	SW846 6010B	08/13-08/14/08	KTXVP1AM
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	0.82	0.015	mg/L	SW846 6010B	08/13-08/14/08	KTXVP1AN
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	30.3	5.0	mg/L	SW846 6010B	08/13-08/14/08	KTXVP1AP
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	0.029 B	0.040	mg/L	SW846 6010B	08/13-08/14/08	KTXVP1AQ
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080908-DN-09

DISSOLVED Metals

Lot-Sample #...: A8H110121-009 **Matrix.....:** WG
Date Sampled...: 08/09/08 11:15 **Date Received..:** 08/11/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8225073						
Barium	**0.018 B**	**0.20**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVP1AT**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**143**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVP1AU**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	08/13-08/14/08	KTXVP1AV
		Dilution Factor: 1		MDL.....: 0.0022		
Copper	ND	0.025	mg/L	SW846 6010B	08/13-08/14/08	KTXVP1AW
		Dilution Factor: 1		MDL.....: 0.0045		
Iron	**1.3**	**0.10**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVP1AX**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**2.9 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVP1A0**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**28.0**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVP1A1**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.20**	**0.015**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVP1A2**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**36.8**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVP1A3**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.040**	**0.040**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVP1A4**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080908-DN-09

General Chemistry

Lot-Sample #...: A8H110121-009 **Work Order #...:** KTXVP **Matrix.....:** WG
Date Sampled...: 08/09/08 11:15 **Date Received..:** 08/11/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**22.8**	**2.0**	**mg/L**	**MCAWW 300.0A**	**08/21/08**	**8234278**
		Dilution Factor: 2		MDL.....: 0.20		
Sulfate	**215**	**2.0**	**mg/L**	**MCAWW 300.0A**	**08/21/08**	**8234279**
		Dilution Factor: 2		MDL.....: 0.24		
Total Cyanide	ND	0.010	mg/L	MCAWW 335.2	08/12/08	8225191
		Dilution Factor: 1		MDL.....: 0.005		
Total Dissolved Solids	**750**	**10**	**mg/L**	**MCAWW 160.1**	**08/14-08/15/08**	**8227250**
		Dilution Factor: 1		MDL.....: 4.6		
Total Suspended Solids	**530**	**4.0**	**mg/L**	**MCAWW 160.2**	**08/14/08**	**8227243**
		Dilution Factor: 1		MDL.....: 2.2		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080908-DN-10

TOTAL Metals

Lot-Sample #...: A8H110121-010 **Matrix.....:** WG
Date Sampled...: 08/09/08 13:35 **Date Received..:** 08/11/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8225073						
Barium	**0.064 B**	**0.20**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVR1AG**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**117**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVR1AH**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	08/13-08/14/08	KTXVR1AR
		Dilution Factor: 1		MDL.....: 0.0022		
Copper	ND	0.025	mg/L	SW846 6010B	08/13-08/14/08	KTXVR1AJ
		Dilution Factor: 1		MDL.....: 0.0045		
Iron	**4.1**	**0.10**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVR1AK**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**1.5 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVR1AL**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**26.3**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVR1AM**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.15**	**0.015**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVR1AN**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**9.1**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVR1AP**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	ND	0.040	mg/L	SW846 6010B	08/13-08/14/08	KTXVR1AQ
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080908-DN-10

DISSOLVED Metals

Lot-Sample #...: A8H110121-010 **Matrix.....:** WG
Date Sampled...: 08/09/08 13:35 **Date Received..:** 08/11/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8225073						
Barium	**0.063 B**	**0.20**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVR1AT**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**118**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVR1AU**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	08/13-08/14/08	KTXVR1AV
		Dilution Factor: 1		MDL.....: 0.0022		
Copper	ND	0.025	mg/L	SW846 6010B	08/13-08/14/08	KTXVR1AW
		Dilution Factor: 1		MDL.....: 0.0045		
Iron	**1.8**	**0.10**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVR1AX**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**1.5 B,J,E**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVR1A0**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**26.8**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVR1A1**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.15**	**0.015**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVR1A2**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**9.5**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVR1A3**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	ND	0.040	mg/L	SW846 6010B	08/13-08/14/08	KTXVR1A4
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

E Matrix interference.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080908-DN-10

General Chemistry

Lot-Sample #...: A8H110121-010 **Work Order #...:** KTXVR **Matrix.....:** WG
Date Sampled...: 08/09/08 13:35 **Date Received..:** 08/11/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**6.0**	**2.0**	**mg/L**	**MCAWW 300.0A**	**08/21/08**	**8234278**
		Dilution Factor: 2		MDL.....: 0.20		
Sulfate	**64.5**	**2.0**	**mg/L**	**MCAWW 300.0A**	**08/21/08**	**8234279**
		Dilution Factor: 2		MDL.....: 0.24		
Total Cyanide	ND	0.010	mg/L	MCAWW 335.2	08/12/08	8225191
		Dilution Factor: 1		MDL.....: 0.005		
Total Dissolved Solids	**480**	**10**	**mg/L**	**MCAWW 160.1**	**08/14-08/15/08**	**8227250**
		Dilution Factor: 1		MDL.....: 4.6		
Total Suspended Solids	**5.0**	**4.0**	**mg/L**	**MCAWW 160.2**	**08/14/08**	**8227243**
		Dilution Factor: 1		MDL.....: 2.2		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080908-DN-11

TOTAL Metals

Lot-Sample #...: A8H110121-011 **Matrix.....:** WG
Date Sampled...: 08/09/08 15:00 **Date Received..:** 08/11/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8225074						
Barium	**0.025 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVT1AG**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**113 J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVT1AH**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	08/13-08/14/08	KTXVT1AR
		Dilution Factor: 1		MDL.....: 0.0022		
Copper	ND	0.025	mg/L	SW846 6010B	08/13-08/14/08	KTXVT1AJ
		Dilution Factor: 1		MDL.....: 0.0045		
Iron	**0.23**	**0.10**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVT1AK**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**1.5 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVT1AL**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**22.2 J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVT1AM**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**1.5 J**	**0.015**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVT1AN**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**13.9**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVT1AP**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	ND	0.040	mg/L	SW846 6010B	08/13-08/14/08	KTXVT1AQ
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080908-DN-11

DISSOLVED Metals

Lot-Sample #...: A8H110121-011 **Matrix.....:** WG
Date Sampled...: 08/09/08 15:00 **Date Received..:** 08/11/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8225074						
Barium	**0.020 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVT1AT**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**108 J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVT1AU**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	08/13-08/14/08	KTXVT1AV
		Dilution Factor: 1		MDL.....: 0.0022		
Copper	ND	0.025	mg/L	SW846 6010B	08/13-08/14/08	KTXVT1AW
		Dilution Factor: 1		MDL.....: 0.0045		
Iron	ND	0.10	mg/L	SW846 6010B	08/13-08/14/08	KTXVT1AX
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**1.6 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVT1A0**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**20.9 J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVT1A1**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.54 J**	**0.015**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVT1A2**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**15.4**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVT1A3**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	ND	0.040	mg/L	SW846 6010B	08/13-08/14/08	KTXVT1A4
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080908-DN-11

General Chemistry

Lot-Sample #...: A8H110121-011 **Work Order #...:** KTXVT **Matrix.....:** WG
Date Sampled...: 08/09/08 15:00 **Date Received..:** 08/11/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**3.0**	**1.0**	**mg/L**	**MCAWW 300.0A**	**08/21/08**	**8234278**
		Dilution Factor: 1		MDL.....: 0.10		
Sulfate	**47.1**	**1.0**	**mg/L**	**MCAWW 300.0A**	**08/21/08**	**8234279**
		Dilution Factor: 1		MDL.....: 0.12		
Total Cyanide	ND	0.010	mg/L	MCAWW 335.2	08/12/08	8225191
		Dilution Factor: 1		MDL.....: 0.005		
Total Dissolved Solids	**440**	**10**	**mg/L**	**MCAWW 160.1**	**08/14-08/15/08**	**8227250**
		Dilution Factor: 1		MDL.....: 4.6		
Total Suspended Solids	**6.0**	**4.0**	**mg/L**	**MCAWW 160.2**	**08/14/08**	**8227243**
		Dilution Factor: 1		MDL.....: 2.2		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080908-DN-12

TOTAL Metals

Lot-Sample #...: A8H110121-012 **Matrix.....:** WG
Date Sampled...: 08/09/08 15:30 **Date Received..:** 08/11/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8225074						
Barium	**0.024 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVV1AG**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**51.8 J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVV1AH**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	08/13-08/14/08	KTXVV1AR
		Dilution Factor: 1		MDL.....: 0.0022		
Copper	ND	0.025	mg/L	SW846 6010B	08/13-08/14/08	KTXVV1AJ
		Dilution Factor: 1		MDL.....: 0.0045		
Iron	**0.37**	**0.10**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVV1AK**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**4.9 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVV1AL**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**13.6 J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVV1AM**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.20 J**	**0.015**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVV1AN**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**126**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVV1AP**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	ND	0.040	mg/L	SW846 6010B	08/13-08/14/08	KTXVV1AQ
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080908-DN-12

DISSOLVED Metals

Lot-Sample #...: A8H110121-012 **Matrix.....:** WG
Date Sampled...: 08/09/08 15:30 **Date Received..:** 08/11/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8225074						
Barium	**0.029 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVV1AT**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**58.3 J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVV1AU**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	08/13-08/14/08	KTXVV1AV
		Dilution Factor: 1		MDL.....: 0.0022		
Copper	ND	0.025	mg/L	SW846 6010B	08/13-08/14/08	KTXVV1AW
		Dilution Factor: 1		MDL.....: 0.0045		
Iron	**0.36**	**0.10**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVV1AX**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**4.6 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVV1A0**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**15.2 J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVV1A1**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.17 J**	**0.015**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVV1A2**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**115**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVV1A3**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	ND	0.040	mg/L	SW846 6010B	08/13-08/14/08	KTXVV1A4
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080908-DN-12

General Chemistry

Lot-Sample #...: A8H110121-012 **Work Order #...:** KTXVV **Matrix.....:** WG
Date Sampled...: 08/09/08 15:30 **Date Received..:** 08/11/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**19.1**	**1.0**	**mg/L**	**MCAWW 300.0A**	**08/21/08**	**8234278**
		Dilution Factor: 1		MDL.....: 0.10		
Sulfate	**79.0**	**1.0**	**mg/L**	**MCAWW 300.0A**	**08/21/08**	**8234279**
		Dilution Factor: 1		MDL.....: 0.12		
Total Cyanide	ND	0.010	mg/L	MCAWW 335.2	08/12/08	8225191
		Dilution Factor: 1		MDL.....: 0.005		
Total Dissolved Solids	**540**	**10**	**mg/L**	**MCAWW 160.1**	**08/14-08/15/08**	**8227250**
		Dilution Factor: 1		MDL.....: 4.6		
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	08/14/08	8227243
		Dilution Factor: 1		MDL.....: 2.2		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080908-DN-13

TOTAL Metals

Lot-Sample #...: A8H110121-013 **Matrix.....:** WG
Date Sampled...: 08/09/08 17:10 **Date Received..:** 08/11/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8225074						
Barium	**0.072 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVW1AG**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**127 J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVW1AH**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	08/13-08/14/08	KTXVW1AR
		Dilution Factor: 1		MDL.....: 0.0022		
Copper	ND	0.025	mg/L	SW846 6010B	08/13-08/14/08	KTXVW1AJ
		Dilution Factor: 1		MDL.....: 0.0045		
Iron	**0.13**	**0.10**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVW1AK**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**2.9 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVW1AL**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**32.8 J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVW1AM**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.11 J**	**0.015**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVW1AN**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**48.7**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVW1AP**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	ND	0.040	mg/L	SW846 6010B	08/13-08/14/08	KTXVW1AQ
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080908-DN-13

DISSOLVED Metals

Lot-Sample #...: A8H110121-013 **Matrix.....:** WG
Date Sampled...: 08/09/08 17:10 **Date Received..:** 08/11/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8225074						
Barium	**0.072 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVW1AT**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**126 J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVW1AU**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	08/13-08/14/08	KTXVW1AV
		Dilution Factor: 1		MDL.....: 0.0022		
Copper	ND	0.025	mg/L	SW846 6010B	08/13-08/14/08	KTXVW1AW
		Dilution Factor: 1		MDL.....: 0.0045		
Iron	**0.11**	**0.10**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVW1AX**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**3.0 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVW1A0**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**34.0 J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVW1A1**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.082 J**	**0.015**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVW1A2**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**52.5**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVW1A3**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.0035 B**	**0.040**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVW1A4**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080908-DN-13

General Chemistry

Lot-Sample #...: A8H110121-013 **Work Order #...:** KTXVW **Matrix.....:** WG
Date Sampled...: 08/09/08 17:10 **Date Received..:** 08/11/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**9.9**	**5.0**	**mg/L**	**MCAWW 300.0A**	**08/21/08**	**8234278**
		Dilution Factor: 5		MDL.....: 0.50		
Sulfate	**110**	**5.0**	**mg/L**	**MCAWW 300.0A**	**08/21/08**	**8234279**
		Dilution Factor: 5		MDL.....: 0.60		
Total Cyanide	ND	0.010	mg/L	MCAWW 335.2	08/12/08	8225191
		Dilution Factor: 1		MDL.....: 0.005		
Total Dissolved Solids	**610**	**10**	**mg/L**	**MCAWW 160.1**	**08/14-08/15/08**	**8227250**
		Dilution Factor: 1		MDL.....: 4.6		
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	08/14/08	8227243
		Dilution Factor: 1		MDL.....: 2.2		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080908-DN-14

TOTAL Metals

Lot-Sample #...: A8H110121-014 Matrix.....: WG
Date Sampled...: 08/09/08 17:55 Date Received..: 08/11/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8225074						
Barium	0.030 B,J	0.20	mg/L	SW846 6010B	08/13-08/14/08	KTXVX1AT
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	106 J	5.0	mg/L	SW846 6010B	08/13-08/14/08	KTXVX1AW
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	0.0080 B	0.010	mg/L	SW846 6010B	08/13-08/14/08	KTXVX1CP
		Dilution Factor: 1		MDL.....: 0.0022		
Copper	0.0071 B	0.025	mg/L	SW846 6010B	08/13-08/14/08	KTXVX1A1
		Dilution Factor: 1		MDL.....: 0.0045		
Iron	0.39	0.10	mg/L	SW846 6010B	08/13-08/14/08	KTXVX1A4
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	816 J	25.0	mg/L	SW846 6010B	08/13-08/15/08	KTXVX1A7
		Dilution Factor: 5		MDL.....: 0.36		
Magnesium	18.7 J	5.0	mg/L	SW846 6010B	08/13-08/14/08	KTXVX1CA
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	0.084 J	0.015	mg/L	SW846 6010B	08/13-08/14/08	KTXVX1CE
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	149	5.0	mg/L	SW846 6010B	08/13-08/14/08	KTXVX1CH
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	0.49	0.040	mg/L	SW846 6010B	08/13-08/14/08	KTXVX1CL
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080908-DN-14

DISSOLVED Metals

Lot-Sample #...: A8H110121-014 **Matrix.....:** WG
Date Sampled...: 08/09/08 17:55 **Date Received..:** 08/11/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8225074						
Barium	**0.028 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVX1CT**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**101 J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVX1CW**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	08/13-08/14/08	KTXVX1C1
		Dilution Factor: 1		MDL.....: 0.0022		
Copper	ND	0.025	mg/L	SW846 6010B	08/13-08/14/08	KTXVX1C4
		Dilution Factor: 1		MDL.....: 0.0045		
Iron	**0.13**	**0.10**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVX1C7**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**789 J**	**25.0**	**mg/L**	**SW846 6010B**	**08/13-08/15/08**	**KTXVX1DA**
		Dilution Factor: 5		MDL.....: 0.36		
Magnesium	**17.8 J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVX1DE**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.076 J**	**0.015**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVX1DH**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**144**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVX1DL**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.47**	**0.040**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXVX1DP**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080908-DN-14

General Chemistry

Lot-Sample #...: A8H110121-014 **Work Order #...:** KTXVX **Matrix.....:** WG
Date Sampled...: 08/09/08 17:55 **Date Received..:** 08/11/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**269**	**10.0**	**mg/L**	**MCAWW 300.0A**	**08/21/08**	**8234278**
		Dilution Factor: 10		MDL.....: 1.0		
Sulfate	**1560**	**10.0**	**mg/L**	**MCAWW 300.0A**	**08/21/08**	**8234479**
		Dilution Factor: 10		MDL.....: 1.2		
Total Cyanide	ND	0.010	mg/L	MCAWW 335.2	08/12/08	8225191
		Dilution Factor: 1		MDL.....: 0.005		
Total Dissolved Solids	**2600**	**40**	**mg/L**	**MCAWW 160.1**	**08/14-08/15/08**	**8227250**
		Dilution Factor: 4		MDL.....: 18		
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	08/14/08	8227243
		Dilution Factor: 1		MDL.....: 2.2		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080908-DN-15

TOTAL Metals

Lot-Sample #...: A8H110121-015 **Matrix.....:** WG
Date Sampled...: 08/09/08 18:35 **Date Received..:** 08/11/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8225074						
Barium	**0.019 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV11AG**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**69.1 J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV11AH**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	08/13-08/14/08	KTXV11AR
		Dilution Factor: 1		MDL.....: 0.0022		
Copper	**0.0097 B**	**0.025**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV11AJ**
		Dilution Factor: 1		MDL.....: 0.0045		
Iron	ND	0.10	mg/L	SW846 6010B	08/13-08/14/08	KTXV11AK
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**1420 J**	**50.0**	**mg/L**	**SW846 6010B**	**08/13-08/15/08**	**KTXV11AL**
		Dilution Factor: 10		MDL.....: 0.72		
Magnesium	**4.4 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV11AM**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.016 J**	**0.015**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV11AN**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**236**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV11AP**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.83**	**0.040**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV11AQ**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080908-DN-15

DISSOLVED Metals

Lot-Sample #...: A8H110121-015 **Matrix.....:** WG
Date Sampled...: 08/09/08 18:35 **Date Received..:** 08/11/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8225074						
Barium	**0.018 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV11AT**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**66.7 J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV11AU**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	08/13-08/14/08	KTXV11AV
		Dilution Factor: 1		MDL.....: 0.0022		
Copper	ND	0.025	mg/L	SW846 6010B	08/13-08/14/08	KTXV11AW
		Dilution Factor: 1		MDL.....: 0.0045		
Iron	ND	0.10	mg/L	SW846 6010B	08/13-08/14/08	KTXV11AX
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**1380 J**	**50.0**	**mg/L**	**SW846 6010B**	**08/13-08/15/08**	**KTXV11A0**
		Dilution Factor: 10		MDL.....: 0.72		
Magnesium	**4.2 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV11A1**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.015 J**	**0.015**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV11A2**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**229**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV11A3**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.83**	**0.040**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV11A4**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-080908-DN-15

General Chemistry

Lot-Sample #...: A8H110121-015 **Work Order #...:** KTXV1 **Matrix.....:** WG
Date Sampled...: 08/09/08 18:35 **Date Received..:** 08/11/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**451**	**20.0**	**mg/L**	**MCAWW 300.0A**	**08/21/08**	**8234278**
		Dilution Factor: 20		MDL.....: 2.0		
Sulfate	**2390**	**20.0**	**mg/L**	**MCAWW 300.0A**	**08/21/08**	**8234279**
		Dilution Factor: 20		MDL.....: 2.4		
Total Cyanide	ND	0.010	mg/L	MCAWW 335.2	08/12/08	8225191
		Dilution Factor: 1		MDL.....: 0.005		
Total Dissolved Solids	**4200**	**50**	**mg/L**	**MCAWW 160.1**	**08/14-08/15/08**	**8227250**
		Dilution Factor: 5		MDL.....: 23		
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	08/14/08	8227243
		Dilution Factor: 1		MDL.....: 2.2		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-081008-DN-16

TOTAL Metals

Lot-Sample #...: A8H110121-016 Matrix.....: WG
Date Sampled...: 08/10/08 08:30 Date Received..: 08/11/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8225074						
Barium	0.036 B,J	0.20	mg/L	SW846 6010B	08/13-08/14/08	KTXV51AG
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	77.4 J	5.0	mg/L	SW846 6010B	08/13-08/14/08	KTXV51AH
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	0.0022 B	0.010	mg/L	SW846 6010B	08/13-08/14/08	KTXV51AR
		Dilution Factor: 1		MDL.....: 0.0022		
Copper	0.015 B	0.025	mg/L	SW846 6010B	08/13-08/14/08	KTXV51AJ
		Dilution Factor: 1		MDL.....: 0.0045		
Iron	0.21	0.10	mg/L	SW846 6010B	08/13-08/14/08	KTXV51AK
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	1780 J	50.0	mg/L	SW846 6010B	08/13-08/15/08	KTXV51AL
		Dilution Factor: 10		MDL.....: 0.72		
Magnesium	16.3 J	5.0	mg/L	SW846 6010B	08/13-08/14/08	KTXV51AM
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	0.058 J	0.015	mg/L	SW846 6010B	08/13-08/14/08	KTXV51AN
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	155	5.0	mg/L	SW846 6010B	08/13-08/14/08	KTXV51AP
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	0.57	0.040	mg/L	SW846 6010B	08/13-08/14/08	KTXV51AQ
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-081008-DN-16

DISSOLVED Metals

Lot-Sample #...: A8H110121-016 **Matrix.....:** WG
Date Sampled...: 08/10/08 08:30 **Date Received..:** 08/11/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8225074						
Barium	**0.034 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV51AT**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**72.9 J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV51AU**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	08/13-08/14/08	KTXV51AV
		Dilution Factor: 1		MDL.....: 0.0022		
Copper	ND	0.025	mg/L	SW846 6010B	08/13-08/14/08	KTXV51AW
		Dilution Factor: 1		MDL.....: 0.0045		
Iron	ND	0.10	mg/L	SW846 6010B	08/13-08/14/08	KTXV51AX
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**1760 J**	**50.0**	**mg/L**	**SW846 6010B**	**08/13-08/15/08**	**KTXV51A0**
		Dilution Factor: 10		MDL.....: 0.72		
Magnesium	**15.1 J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV51A1**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.052 J**	**0.015**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV51A2**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**151**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV51A3**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.56**	**0.040**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV51A4**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-081008-DN-16

General Chemistry

Lot-Sample #...: A8H110121-016 **Work Order #...:** KTXV5 **Matrix.....:** WG
Date Sampled...: 08/10/08 08:30 **Date Received..:** 08/11/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**307**	**10.0**	**mg/L**	**MCAWW 300.0A**	**08/21/08**	**8234278**
		Dilution Factor: 10		MDL.....: 1.0		
Sulfate	**1740**	**10.0**	**mg/L**	**MCAWW 300.0A**	**08/21/08**	**8234279**
		Dilution Factor: 10		MDL.....: 1.2		
Total Cyanide	ND	0.010	mg/L	MCAWW 335.2	08/12/08	8225191
		Dilution Factor: 1		MDL.....: 0.005		
Total Dissolved Solids	**2900**	**40**	**mg/L**	**MCAWW 160.1**	**08/14-08/15/08**	**8227250**
		Dilution Factor: 4		MDL.....: 18		
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	08/14/08	8227243
		Dilution Factor: 1		MDL.....: 2.2		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-081008-DN-17

TOTAL Metals

Lot-Sample #...: A8H110121-017 Matrix.....: WG
Date Sampled...: 08/10/08 09:15 Date Received..: 08/11/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8225074						
Barium	0.093 B,J	0.20	mg/L	SW846 6010B	08/13-08/14/08	KTXV71AG
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	189 J	5.0	mg/L	SW846 6010B	08/13-08/14/08	KTXV71AH
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	1.1	0.010	mg/L	SW846 6010B	08/13-08/14/08	KTXV71AR
		Dilution Factor: 1		MDL.....: 0.0022		
Copper	6.6	0.025	mg/L	SW846 6010B	08/13-08/14/08	KTXV71AJ
		Dilution Factor: 1		MDL.....: 0.0045		
Iron	38.7	0.10	mg/L	SW846 6010B	08/13-08/14/08	KTXV71AK
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	524 J	5.0	mg/L	SW846 6010B	08/13-08/14/08	KTXV71AL
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	14.7 J	5.0	mg/L	SW846 6010B	08/13-08/14/08	KTXV71AM
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	0.35 J	0.015	mg/L	SW846 6010B	08/13-08/14/08	KTXV71AN
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	153	5.0	mg/L	SW846 6010B	08/13-08/14/08	KTXV71AP
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	0.89	0.040	mg/L	SW846 6010B	08/13-08/14/08	KTXV71AQ
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-081008-DN-17

DISSOLVED Metals

Lot-Sample #...: A8H110121-017 **Matrix.....:** WG
Date Sampled...: 08/10/08 09:15 **Date Received..:** 08/11/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8225074						
Barium	**0.028 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV71AT**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**162 J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV71AU**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	08/13-08/14/08	KTXV71AV
		Dilution Factor: 1		MDL.....: 0.0022		
Copper	**0.0046 B**	**0.025**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV71AW**
		Dilution Factor: 1		MDL.....: 0.0045		
Iron	ND	0.10	mg/L	SW846 6010B	08/13-08/14/08	KTXV71AX
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**794 J**	**25.0**	**mg/L**	**SW846 6010B**	**08/13-08/15/08**	**KTXV71A0**
		Dilution Factor: 5		MDL.....: 0.36		
Magnesium	**10.7 J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV71A1**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.050 J**	**0.015**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV71A2**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**191**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV71A3**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.61**	**0.040**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV71A4**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-081008-DN-17

General Chemistry

Lot-Sample #...: A8H110121-017 **Work Order #...:** KTXV7 **Matrix.....:** WG
Date Sampled...: 08/10/08 09:15 **Date Received..:** 08/11/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	320	10.0	mg/L	MCAWW 300.0A	08/21/08	8234278
		Dilution Factor: 10		MDL.....: 1.0		
Sulfate	1850	10.0	mg/L	MCAWW 300.0A	08/21/08	8234279
		Dilution Factor: 10		MDL.....: 1.2		
Total Cyanide	0.006 B	0.010	mg/L	MCAWW 335.2	08/12/08	8225191
		Dilution Factor: 1		MDL.....: 0.005		
Total Dissolved Solids	3100	40	mg/L	MCAWW 160.1	08/14-08/15/08	8227250
		Dilution Factor: 4		MDL.....: 18		
Total Suspended Solids	19	4.0	mg/L	MCAWW 160.2	08/14/08	8227243
		Dilution Factor: 1		MDL.....: 2.2		

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-081008-DN-18

TOTAL Metals

Lot-Sample #...: A8H110121-018 **Matrix.....:** WG
Date Sampled...: 08/10/08 09:50 **Date Received..:** 08/11/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8225074						
Barium	**0.075 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV91AG**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**196 J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV91AH**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	08/13-08/14/08	KTXV91AR
		Dilution Factor: 1		MDL.....: 0.0022		
Copper	**0.12**	**0.025**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV91AJ**
		Dilution Factor: 1		MDL.....: 0.0045		
Iron	**0.38**	**0.10**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV91AK**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**376 J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV91AL**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**36.2 J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV91AM**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.10 J**	**0.015**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV91AN**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**99.1**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV91AP**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.44**	**0.040**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV91AQ**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-081008-DN-18

DISSOLVED Metals

Lot-Sample #...: A8H110121-018 **Matrix.....:** WG
Date Sampled...: 08/10/08 09:50 **Date Received..:** 08/11/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8225074						
Barium	**0.077 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV91AT**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**189 J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV91AU**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	08/13-08/14/08	KTXV91AV
		Dilution Factor: 1		MDL.....: 0.0022		
Copper	**0.068**	**0.025**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV91AW**
		Dilution Factor: 1		MDL.....: 0.0045		
Iron	**0.78**	**0.10**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV91AX**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**360 J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV91A0**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**34.8 J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV91A1**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.79 J**	**0.015**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV91A2**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**94.5**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV91A3**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.42**	**0.040**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXV91A4**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-081008-DN-18

General Chemistry

Lot-Sample #...: A8H110121-018 **Work Order #...:** KTXV9 **Matrix.....:** WG
Date Sampled...: 08/10/08 09:50 **Date Received..:** 08/11/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**162**	**10.0**	**mg/L**	**MCAWW 300.0A**	**08/21/08**	**8234278**
		Dilution Factor: 10		MDL.....: 1.0		
Sulfate	**954**	**10.0**	**mg/L**	**MCAWW 300.0A**	**08/21/08**	**8234279**
		Dilution Factor: 10		MDL.....: 1.2		
Total Cyanide	ND	0.010	mg/L	MCAWW 335.2	08/12/08	8225191
		Dilution Factor: 1		MDL.....: 0.005		
Total Dissolved Solids	**1900**	**20**	**mg/L**	**MCAWW 160.1**	**08/14-08/15/08**	**8227250**
		Dilution Factor: 2		MDL.....: 9.2		
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	08/14/08	8227243
		Dilution Factor: 1		MDL.....: 2.2		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-081008-DN-19

TOTAL Metals

Lot-Sample #...: A8H110121-019 **Matrix.....:** WG
Date Sampled...: 08/10/08 10:35 **Date Received..:** 08/11/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8225074						
Barium	**0.047 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXWC1AG**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**368 J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXWC1AH**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	08/13-08/14/08	KTXWC1AR
		Dilution Factor: 1		MDL.....: 0.0022		
Copper	ND	0.025	mg/L	SW846 6010B	08/13-08/14/08	KTXWC1AJ
		Dilution Factor: 1		MDL.....: 0.0045		
Iron	**14.6**	**0.10**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXWC1AK**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**402 J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXWC1AL**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**88.8 J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXWC1AM**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**3.8 J**	**0.015**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXWC1AN**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**155**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXWC1AP**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.94**	**0.040**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXWC1AQ**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-081008-DN-19

DISSOLVED Metals

Lot-Sample #...: A8H110121-019 **Matrix.....:** WG
Date Sampled...: 08/10/08 10:35 **Date Received..:** 08/11/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8225074						
Barium	**0.046 B,J**	**0.20**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXWC1AT**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**370 J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXWC1AU**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	08/13-08/14/08	KTXWC1AV
		Dilution Factor: 1		MDL.....: 0.0022		
Copper	ND	0.025	mg/L	SW846 6010B	08/13-08/14/08	KTXWC1AW
		Dilution Factor: 1		MDL.....: 0.0045		
Iron	**21.5**	**0.10**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXWC1AX**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**403 J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXWC1A0**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**89.4 J**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXWC1A1**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**4.0 J**	**0.015**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXWC1A2**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**155**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXWC1A3**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.94**	**0.040**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KTXWC1A4**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-081008-DN-19

General Chemistry

Lot-Sample #...: A8H110121-019 **Work Order #...:** KTXWC **Matrix.....:** WG
Date Sampled...: 08/10/08 10:35 **Date Received..:** 08/11/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**274**	**10.0**	**mg/L**	**MCAWW 300.0A**	**08/21/08**	**8234280**
		Dilution Factor: 10		MDL.....: 1.0		
Sulfate	**1440**	**10.0**	**mg/L**	**MCAWW 300.0A**	**08/21/08**	**8234281**
		Dilution Factor: 10		MDL.....: 1.2		
Total Cyanide	ND	0.010	mg/L	MCAWW 335.2	08/12/08	8225191
		Dilution Factor: 1		MDL.....: 0.005		
Total Dissolved Solids	**3300**	**40**	**mg/L**	**MCAWW 160.1**	**08/15-08/19/08**	**8228324**
		Dilution Factor: 4		MDL.....: 18		
Total Dissolved Solids	**3200**	**40**	**mg/L**	**MCAWW 160.1**	**08/18-08/19/08**	**8232336**
		Dilution Factor: 4		MDL.....: 18		
Total Suspended Solids	**6.0**	**4.0**	**mg/L**	**MCAWW 160.2**	**08/15/08**	**8228323**
		Dilution Factor: 1		MDL.....: 2.2		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-081008-DN-20

TOTAL Metals

Lot-Sample #...: A8H110121-020 Matrix.....: WG
Date Sampled...: 08/10/08 11:10 Date Received..: 08/11/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8225074						
Barium	0.037 B,J	0.20	mg/L	SW846 6010B	08/13-08/14/08	KTXWD1AG
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	192 J	5.0	mg/L	SW846 6010B	08/13-08/14/08	KTXWD1AH
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	0.0077 B	0.010	mg/L	SW846 6010B	08/13-08/14/08	KTXWD1AR
		Dilution Factor: 1		MDL.....: 0.0022		
Copper	0.022 B	0.025	mg/L	SW846 6010B	08/13-08/14/08	KTXWD1AJ
		Dilution Factor: 1		MDL.....: 0.0045		
Iron	0.67	0.10	mg/L	SW846 6010B	08/13-08/14/08	KTXWD1AK
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	404 J	5.0	mg/L	SW846 6010B	08/13-08/14/08	KTXWD1AL
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	51.4 J	5.0	mg/L	SW846 6010B	08/13-08/14/08	KTXWD1AM
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	1.2 J	0.015	mg/L	SW846 6010B	08/13-08/14/08	KTXWD1AN
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	107	5.0	mg/L	SW846 6010B	08/13-08/14/08	KTXWD1AP
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	0.65	0.040	mg/L	SW846 6010B	08/13-08/14/08	KTXWD1AQ
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-081008-DN-20

DISSOLVED Metals

Lot-Sample #...: A8H110121-020 Matrix.....: WG
Date Sampled...: 08/10/08 11:10 Date Received..: 08/11/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8225074						
Barium	0.041 B,J	0.20	mg/L	SW846 6010B	08/13-08/14/08	KTXWD1AT
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	205 J	5.0	mg/L	SW846 6010B	08/13-08/14/08	KTXWD1AU
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	0.010	0.010	mg/L	SW846 6010B	08/13-08/14/08	KTXWD1AV
		Dilution Factor: 1		MDL.....: 0.0022		
Copper	ND	0.025	mg/L	SW846 6010B	08/13-08/14/08	KTXWD1AW
		Dilution Factor: 1		MDL.....: 0.0045		
Iron	0.62	0.10	mg/L	SW846 6010B	08/13-08/14/08	KTXWD1AX
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	423 J,E	5.0	mg/L	SW846 6010B	08/13-08/14/08	KTXWD1A0
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	54.4 J	5.0	mg/L	SW846 6010B	08/13-08/14/08	KTXWD1A1
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	1.4 J	0.015	mg/L	SW846 6010B	08/13-08/14/08	KTXWD1A2
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	112	5.0	mg/L	SW846 6010B	08/13-08/14/08	KTXWD1A3
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	0.71	0.040	mg/L	SW846 6010B	08/13-08/14/08	KTXWD1A4
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

E Matrix interference.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-081008-DN-20

General Chemistry

Lot-Sample #...: A8H110121-020 **Work Order #...:** KTXWD **Matrix.....:** WG
Date Sampled...: 08/10/08 11:10 **Date Received..:** 08/11/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**208**	**5.0**	**mg/L**	**MCAWW 300.0A**	**08/21/08**	**8234280**
		Dilution Factor: 5		MDL.....: 0.50		
Sulfate	**1030**	**20.0**	**mg/L**	**MCAWW 300.0A**	**08/21/08**	**8234479**
		Dilution Factor: 20		MDL.....: 2.4		
Total Cyanide	ND	0.010	mg/L	MCAWW 335.2	08/12/08	8225191
		Dilution Factor: 1		MDL.....: 0.005		
Total Dissolved Solids	**2500**	**20**	**mg/L**	**MCAWW 160.1**	**08/15-08/19/08**	**8228324**
		Dilution Factor: 2		MDL.....: 9.2		
Total Dissolved Solids	**2500**	**20**	**mg/L**	**MCAWW 160.1**	**08/18-08/20/08**	**8232336**
		Dilution Factor: 2		MDL.....: 9.2		
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	08/15/08	8228323
		Dilution Factor: 1		MDL.....: 2.2		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-081008-DN-21

TOTAL Metals

Lot-Sample #...: A8H110121-021 Matrix.....: WG
Date Sampled...: 08/10/08 11:50 Date Received..: 08/11/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8226078						
Barium	0.061 B,J	0.20	mg/L	SW846 6010B	08/14-08/15/08	KTXWF1AG
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	320 J	5.0	mg/L	SW846 6010B	08/14-08/15/08	KTXWF1AH
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	08/14-08/15/08	KTXWF1AR
		Dilution Factor: 1		MDL.....: 0.0022		
Copper	0.11	0.025	mg/L	SW846 6010B	08/14-08/15/08	KTXWF1AJ
		Dilution Factor: 1		MDL.....: 0.0045		
Iron	0.16	0.10	mg/L	SW846 6010B	08/14-08/15/08	KTXWF1AK
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	260 J	5.0	mg/L	SW846 6010B	08/14-08/15/08	KTXWF1AL
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	79.5 J	5.0	mg/L	SW846 6010B	08/14-08/15/08	KTXWF1AM
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	6.7 J	0.015	mg/L	SW846 6010B	08/14-08/15/08	KTXWF1AN
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	102	5.0	mg/L	SW846 6010B	08/14-08/15/08	KTXWF1AP
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	0.53	0.040	mg/L	SW846 6010B	08/14-08/15/08	KTXWF1AQ
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-081008-DN-21

DISSOLVED Metals

Lot-Sample #...: A8H110121-021 Matrix.....: WG
Date Sampled...: 08/10/08 11:50 Date Received..: 08/11/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8226078						
Barium	0.061 B,J	0.20	mg/L	SW846 6010B	08/14-08/15/08	KTXWF1AT
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	306 J	5.0	mg/L	SW846 6010B	08/14-08/15/08	KTXWF1AU
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	08/14-08/15/08	KTXWF1AV
		Dilution Factor: 1		MDL.....: 0.0022		
Copper	0.017 B	0.025	mg/L	SW846 6010B	08/14-08/15/08	KTXWF1AW
		Dilution Factor: 1		MDL.....: 0.0045		
Iron	2.6	0.10	mg/L	SW846 6010B	08/14-08/15/08	KTXWF1AX
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	243 J	5.0	mg/L	SW846 6010B	08/14-08/15/08	KTXWF1A0
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	74.3 J	5.0	mg/L	SW846 6010B	08/14-08/15/08	KTXWF1A1
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	7.2 J	0.015	mg/L	SW846 6010B	08/14-08/15/08	KTXWF1A2
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	94.7	5.0	mg/L	SW846 6010B	08/14-08/15/08	KTXWF1A3
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	0.50	0.040	mg/L	SW846 6010B	08/14-08/15/08	KTXWF1A4
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-081008-DN-21

General Chemistry

Lot-Sample #...: A8H110121-021 **Work Order #...:** KTXWF **Matrix.....:** WG
Date Sampled...: 08/10/08 11:50 **Date Received..:** 08/11/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**154**	**10.0**	**mg/L**	**MCAWW 300.0A**	**08/21/08**	**8234280**
		Dilution Factor: 10		MDL.....: 1.0		
Sulfate	**1320**	**10.0**	**mg/L**	**MCAWW 300.0A**	**08/21/08**	**8234281**
		Dilution Factor: 10		MDL.....: 1.2		
Total Cyanide	ND	0.010	mg/L	MCAWW 335.2	08/12/08	8225265
		Dilution Factor: 1		MDL.....: 0.005		
Total Dissolved Solids	**2600**	**20**	**mg/L**	**MCAWW 160.1**	**08/15-08/19/08**	**8228324**
		Dilution Factor: 2		MDL.....: 9.2		
Total Dissolved Solids	**2600**	**20**	**mg/L**	**MCAWW 160.1**	**08/18-08/19/08**	**8232336**
		Dilution Factor: 2		MDL.....: 9.2		
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	08/15/08	8228323
		Dilution Factor: 1		MDL.....: 2.2		

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QUALITY CONTROL SECTION

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A8H110121 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A8H120000-073 **Prep Batch #...:** 8225073						
Barium	ND	0.20	mg/L	SW846 6010B	08/13-08/14/08	KT0PH1AA
		Dilution Factor: 1				
Calcium	ND	5.0	mg/L	SW846 6010B	08/13-08/14/08	KT0PH1AC
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	08/13-08/14/08	KT0PH1AL
		Dilution Factor: 1				
Copper	ND	0.025	mg/L	SW846 6010B	08/13-08/14/08	KT0PH1AD
		Dilution Factor: 1				
Iron	ND	0.10	mg/L	SW846 6010B	08/13-08/14/08	KT0PH1AE
		Dilution Factor: 1				
Magnesium	ND	5.0	mg/L	SW846 6010B	08/13-08/14/08	KT0PH1AG
		Dilution Factor: 1				
Manganese	ND	0.015	mg/L	SW846 6010B	08/13-08/14/08	KT0PH1AH
		Dilution Factor: 1				
Nickel	ND	0.040	mg/L	SW846 6010B	08/13-08/14/08	KT0PH1AK
		Dilution Factor: 1				
Potassium	**0.19 B**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KT0PH1AF**
		Dilution Factor: 1				
Sodium	ND	5.0	mg/L	SW846 6010B	08/13-08/14/08	KT0PH1AJ
		Dilution Factor: 1				
MB Lot-Sample #: A8H120000-074 **Prep Batch #...:** 8225074						
Barium	**0.0010 B**	**0.20**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KT0PK1AA**
		Dilution Factor: 1				
Calcium	**0.30 B**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KT0PK1AC**
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	08/13-08/14/08	KT0PK1AL
		Dilution Factor: 1				
Copper	ND	0.025	mg/L	SW846 6010B	08/13-08/14/08	KT0PK1AD
		Dilution Factor: 1				

(Continued on next page)

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A8H110121 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	ND	0.10	mg/L	SW846 6010B	08/13-08/14/08	KT0PK1AE
		Dilution Factor: 1				
Magnesium	**0.068 B**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KT0PK1AG**
		Dilution Factor: 1				
Manganese	**0.00079 B**	**0.015**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KT0PK1AH**
		Dilution Factor: 1				
Nickel	ND	0.040	mg/L	SW846 6010B	08/13-08/14/08	KT0PK1AK
		Dilution Factor: 1				
Potassium	**0.17 B**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KT0PK1AF**
		Dilution Factor: 1				
Sodium	ND	5.0	mg/L	SW846 6010B	08/13-08/14/08	KT0PK1AJ
		Dilution Factor: 1				

MB Lot-Sample #: A8H130000-078 **Prep Batch #...:** 8226078

Barium	**0.00096 B**	**0.20**	**mg/L**	**SW846 6010B**	**08/14-08/15/08**	**KT2MR1A4**
		Dilution Factor: 1				
Calcium	**0.34 B**	**5.0**	**mg/L**	**SW846 6010B**	**08/14-08/15/08**	**KT2MR1A5**
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	08/14-08/15/08	KT2MR1AD
		Dilution Factor: 1				
Copper	ND	0.025	mg/L	SW846 6010B	08/14-08/15/08	KT2MR1AE
		Dilution Factor: 1				
Iron	ND	0.10	mg/L	SW846 6010B	08/14-08/15/08	KT2MR1AF
		Dilution Factor: 1				
Magnesium	**0.070 B**	**5.0**	**mg/L**	**SW846 6010B**	**08/14-08/15/08**	**KT2MR1A7**
		Dilution Factor: 1				
Manganese	**0.00065 B**	**0.015**	**mg/L**	**SW846 6010B**	**08/14-08/15/08**	**KT2MR1A8**
		Dilution Factor: 1				
Nickel	ND	0.040	mg/L	SW846 6010B	08/14-08/15/08	KT2MR1AG
		Dilution Factor: 1				
Potassium	**0.20 B**	**5.0**	**mg/L**	**SW846 6010B**	**08/14-08/15/08**	**KT2MR1A6**
		Dilution Factor: 1				

(Continued on next page)

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A8H110121 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Sodium	ND	5.0	mg/L	SW846 6010B	08/14-08/15/08	KT2MR1A9

Dilution Factor: 1

NOTE(S):

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

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: A8H110121 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A8H120000-073 **Prep Batch #...:** 8225073						
Barium	ND	0.20	mg/L	SW846 6010B	08/13-08/14/08	KT0PH1A0
		Dilution Factor: 1				
Calcium	ND	5.0	mg/L	SW846 6010B	08/13-08/14/08	KT0PH1A1
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	08/13-08/14/08	KT0PH1A2
		Dilution Factor: 1				
Copper	ND	0.025	mg/L	SW846 6010B	08/13-08/14/08	KT0PH1A3
		Dilution Factor: 1				
Iron	ND	0.10	mg/L	SW846 6010B	08/13-08/14/08	KT0PH1A4
		Dilution Factor: 1				
Magnesium	ND	5.0	mg/L	SW846 6010B	08/13-08/14/08	KT0PH1A6
		Dilution Factor: 1				
Manganese	ND	0.015	mg/L	SW846 6010B	08/13-08/14/08	KT0PH1A7
		Dilution Factor: 1				
Nickel	ND	0.040	mg/L	SW846 6010B	08/13-08/14/08	KT0PH1A9
		Dilution Factor: 1				
Potassium	**0.19 B**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KT0PH1A5**
		Dilution Factor: 1				
Sodium	ND	5.0	mg/L	SW846 6010B	08/13-08/14/08	KT0PH1A8
		Dilution Factor: 1				
MB Lot-Sample #: A8H120000-074 **Prep Batch #...:** 8225074						
Barium	**0.0010 B**	**0.20**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KT0PK1AM**
		Dilution Factor: 1				
Calcium	**0.30 B**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KT0PK1AN**
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	08/13-08/14/08	KT0PK1AP
		Dilution Factor: 1				
Copper	ND	0.025	mg/L	SW846 6010B	08/13-08/14/08	KT0PK1AQ
		Dilution Factor: 1				

(Continued on next page)

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: A8H110121 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	ND	0.10	mg/L	SW846 6010B	08/13-08/14/08	KT0PK1AR
		Dilution Factor: 1				
Magnesium	**0.068 B**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KT0PK1AU**
		Dilution Factor: 1				
Manganese	**0.00079 B**	**0.015**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KT0PK1AV**
		Dilution Factor: 1				
Nickel	ND	0.040	mg/L	SW846 6010B	08/13-08/14/08	KT0PK1AX
		Dilution Factor: 1				
Potassium	**0.17 B**	**5.0**	**mg/L**	**SW846 6010B**	**08/13-08/14/08**	**KT0PK1AT**
		Dilution Factor: 1				
Sodium	ND	5.0	mg/L	SW846 6010B	08/13-08/14/08	KT0PK1AW
		Dilution Factor: 1				

MB Lot-Sample #: A8H130000-078 **Prep Batch #...:** 8226078

Barium	**0.00096 B**	**0.20**	**mg/L**	**SW846 6010B**	**08/14-08/15/08**	**KT2MR1CA**
		Dilution Factor: 1				
Calcium	**0.34 B**	**5.0**	**mg/L**	**SW846 6010B**	**08/14-08/15/08**	**KT2MR1CC**
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	08/14-08/15/08	KT2MR1CD
		Dilution Factor: 1				
Copper	ND	0.025	mg/L	SW846 6010B	08/14-08/15/08	KT2MR1CE
		Dilution Factor: 1				
Iron	ND	0.10	mg/L	SW846 6010B	08/14-08/15/08	KT2MR1CF
		Dilution Factor: 1				
Magnesium	**0.070 B**	**5.0**	**mg/L**	**SW846 6010B**	**08/14-08/15/08**	**KT2MR1CH**
		Dilution Factor: 1				
Manganese	**0.00065 B**	**0.015**	**mg/L**	**SW846 6010B**	**08/14-08/15/08**	**KT2MR1CJ**
		Dilution Factor: 1				
Nickel	ND	0.040	mg/L	SW846 6010B	08/14-08/15/08	KT2MR1CL
		Dilution Factor: 1				
Potassium	**0.20 B**	**5.0**	**mg/L**	**SW846 6010B**	**08/14-08/15/08**	**KT2MR1CG**
		Dilution Factor: 1				

(Continued on next page)

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: A8H110121 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Sodium	ND	5.0	mg/L	SW846 6010B	08/14-08/15/08	KT2MR1CK

Dilution Factor: 1

NOTE(S):

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

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A8H110121 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		Work Order #: KVH901AA		MB Lot-Sample #:	A8H210000-278	
	ND	1.0	mg/L	MCAWW 300.0A	08/20/08	8234278
		Dilution Factor: 1				
Chloride		Work Order #: KVJHN1AA		MB Lot-Sample #:	A8H210000-280	
	ND	1.0	mg/L	MCAWW 300.0A	08/20/08	8234280
		Dilution Factor: 1				
Cyanide, Total		Work Order #: KT1RC1AA		MB Lot-Sample #:	A8H120000-265	
	ND	0.010	mg/L	MCAWW 335.2	08/12/08	8225265
		Dilution Factor: 1				
Sulfate		Work Order #: KVJHL1AA		MB Lot-Sample #:	A8H210000-279	
	ND	1.0	mg/L	MCAWW 300.0A	08/20/08	8234279
		Dilution Factor: 1				
Sulfate		Work Order #: KVJHP1AA		MB Lot-Sample #:	A8H210000-281	
	ND	1.0	mg/L	MCAWW 300.0A	08/20/08	8234281
		Dilution Factor: 1				
Sulfate		Work Order #: KVKMQ1AA		MB Lot-Sample #:	A8H210000-479	
	ND	1.0	mg/L	MCAWW 300.0A	08/21/08	8234479
		Dilution Factor: 1				
Total Cyanide		Work Order #: KT05D1AA		MB Lot-Sample #:	A8H120000-191	
	ND	0.010	mg/L	MCAWW 335.2	08/12/08	8225191
		Dilution Factor: 1				
Total Dissolved Solids		Work Order #: KT8XW1AA		MB Lot-Sample #:	A8H140000-250	
	ND	10	mg/L	MCAWW 160.1	08/14-08/15/08	8227250
		Dilution Factor: 1				
Total Dissolved Solids		Work Order #: KVD4E1AA		MB Lot-Sample #:	A8H150000-324	
	ND	10	mg/L	MCAWW 160.1	08/15-08/19/08	8228324
		Dilution Factor: 1				
Total Dissolved Solids		Work Order #: KVFNK1AA		MB Lot-Sample #:	A8H190000-336	
	ND	10	mg/L	MCAWW 160.1	08/18-08/19/08	8232336
		Dilution Factor: 1				

(Continued on next page)

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A8H110121 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Suspended Solids		Work Order #: KT6CR1AA		MB Lot-Sample #:	A8H140000-243	
	ND	4.0	mg/L	MCAWW 160.2	08/14/08	8227243
		Dilution Factor: 1				
Total Suspended Solids		Work Order #: KT8T51AA		MB Lot-Sample #:	A8H150000-323	
	ND	4.0	mg/L	MCAWW 160.2	08/15/08	8228323
		Dilution Factor: 1				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A8H110121 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A8H120000-073 **Prep Batch #...:** 8225073					
Barium	102	(80 - 120)	SW846 6010B Dilution Factor: 1	08/13-08/14/08	KT0PH1AM
Calcium	102	(80 - 120)	SW846 6010B Dilution Factor: 1	08/13-08/14/08	KT0PH1AN
Copper	100	(80 - 120)	SW846 6010B Dilution Factor: 1	08/13-08/14/08	KT0PH1AP
Iron	108	(77 - 122)	SW846 6010B Dilution Factor: 1	08/13-08/14/08	KT0PH1AQ
Potassium	103	(80 - 120)	SW846 6010B Dilution Factor: 1	08/13-08/14/08	KT0PH1AR
Magnesium	101	(80 - 120)	SW846 6010B Dilution Factor: 1	08/13-08/14/08	KT0PH1AT
Manganese	108	(80 - 120)	SW846 6010B Dilution Factor: 1	08/13-08/14/08	KT0PH1AU
Sodium	100	(80 - 120)	SW846 6010B Dilution Factor: 1	08/13-08/14/08	KT0PH1AV
Nickel	95	(80 - 120)	SW846 6010B Dilution Factor: 1	08/13-08/14/08	KT0PH1AW
Chromium	103	(80 - 120)	SW846 6010B Dilution Factor: 1	08/13-08/14/08	KT0PH1AX
LCS Lot-Sample#: A8H120000-074 **Prep Batch #...:** 8225074					
Barium	89	(80 - 120)	SW846 6010B Dilution Factor: 1	08/13-08/14/08	KT0PK1A0
Calcium	90	(80 - 120)	SW846 6010B Dilution Factor: 1	08/13-08/14/08	KT0PK1A1
Copper	88	(80 - 120)	SW846 6010B Dilution Factor: 1	08/13-08/14/08	KT0PK1A2

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A8H110121 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	97	(77 - 122)	SW846 6010B	08/13-08/14/08	KT0PK1A3
		Dilution Factor: 1			
Potassium	92	(80 - 120)	SW846 6010B	08/13-08/14/08	KT0PK1A4
		Dilution Factor: 1			
Magnesium	89	(80 - 120)	SW846 6010B	08/13-08/14/08	KT0PK1A5
		Dilution Factor: 1			
Manganese	94	(80 - 120)	SW846 6010B	08/13-08/14/08	KT0PK1A6
		Dilution Factor: 1			
Sodium	89	(80 - 120)	SW846 6010B	08/13-08/14/08	KT0PK1A7
		Dilution Factor: 1			
Nickel	82	(80 - 120)	SW846 6010B	08/13-08/14/08	KT0PK1A8
		Dilution Factor: 1			
Chromium	91	(80 - 120)	SW846 6010B	08/13-08/14/08	KT0PK1A9
		Dilution Factor: 1			
LCS Lot-Sample#: A8H130000-078 **Prep Batch #...:** 8226078					
Chromium	91	(80 - 120)	SW846 6010B	08/14-08/15/08	KT2MR1AP
		Dilution Factor: 1			
Copper	87	(80 - 120)	SW846 6010B	08/14-08/15/08	KT2MR1AQ
		Dilution Factor: 1			
Iron	96	(77 - 122)	SW846 6010B	08/14-08/15/08	KT2MR1AR
		Dilution Factor: 1			
Nickel	83	(80 - 120)	SW846 6010B	08/14-08/15/08	KT2MR1AT
		Dilution Factor: 1			
Barium	88	(80 - 120)	SW846 6010B	08/14-08/15/08	KT2MR1CW
		Dilution Factor: 1			
Calcium	91	(80 - 120)	SW846 6010B	08/14-08/15/08	KT2MR1CX
		Dilution Factor: 1			
Potassium	90	(80 - 120)	SW846 6010B	08/14-08/15/08	KT2MR1C0
		Dilution Factor: 1			

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A8H110121 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	89	(80 - 120)	SW846 6010B	08/14-08/15/08	KT2MR1C1
		Dilution Factor: 1			
Manganese	95	(80 - 120)	SW846 6010B	08/14-08/15/08	KT2MR1C2
		Dilution Factor: 1			
Sodium	88	(80 - 120)	SW846 6010B	08/14-08/15/08	KT2MR1C3
		Dilution Factor: 1			

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: A8H110121 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A8H120000-073 **Prep Batch #...:** 8225073					
Barium	102	(80 - 120)	SW846 6010B Dilution Factor: 1	08/13-08/14/08	KT0PH1CA
Calcium	102	(80 - 120)	SW846 6010B Dilution Factor: 1	08/13-08/14/08	KT0PH1CC
Chromium	103	(80 - 120)	SW846 6010B Dilution Factor: 1	08/13-08/14/08	KT0PH1CD
Copper	100	(80 - 120)	SW846 6010B Dilution Factor: 1	08/13-08/14/08	KT0PH1CE
Iron	108	(77 - 122)	SW846 6010B Dilution Factor: 1	08/13-08/14/08	KT0PH1CF
Potassium	103	(80 - 120)	SW846 6010B Dilution Factor: 1	08/13-08/14/08	KT0PH1CG
Magnesium	101	(80 - 120)	SW846 6010B Dilution Factor: 1	08/13-08/14/08	KT0PH1CH
Manganese	108	(80 - 120)	SW846 6010B Dilution Factor: 1	08/13-08/14/08	KT0PH1CJ
Sodium	100	(80 - 120)	SW846 6010B Dilution Factor: 1	08/13-08/14/08	KT0PH1CK
Nickel	95	(80 - 120)	SW846 6010B Dilution Factor: 1	08/13-08/14/08	KT0PH1CL
LCS Lot-Sample#: A8H120000-074 **Prep Batch #...:** 8225074					
Barium	89	(80 - 120)	SW846 6010B Dilution Factor: 1	08/13-08/14/08	KT0PK1CA
Calcium	90	(80 - 120)	SW846 6010B Dilution Factor: 1	08/13-08/14/08	KT0PK1CC
Chromium	91	(80 - 120)	SW846 6010B Dilution Factor: 1	08/13-08/14/08	KT0PK1CD

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: A8H110121 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	88	(80 - 120)	SW846 6010B	08/13-08/14/08	KT0PK1CE
		Dilution Factor: 1			
Iron	97	(77 - 122)	SW846 6010B	08/13-08/14/08	KT0PK1CF
		Dilution Factor: 1			
Potassium	92	(80 - 120)	SW846 6010B	08/13-08/14/08	KT0PK1CG
		Dilution Factor: 1			
Magnesium	89	(80 - 120)	SW846 6010B	08/13-08/14/08	KT0PK1CH
		Dilution Factor: 1			
Manganese	94	(80 - 120)	SW846 6010B	08/13-08/14/08	KT0PK1CJ
		Dilution Factor: 1			
Sodium	89	(80 - 120)	SW846 6010B	08/13-08/14/08	KT0PK1CK
		Dilution Factor: 1			
Nickel	82	(80 - 120)	SW846 6010B	08/13-08/14/08	KT0PK1CL
		Dilution Factor: 1			
LCS Lot-Sample#: A8H130000-078 **Prep Batch #...:** 8226078					
Barium	88	(80 - 120)	SW846 6010B	08/14-08/15/08	KT2MR1C4
		Dilution Factor: 1			
Calcium	91	(80 - 120)	SW846 6010B	08/14-08/15/08	KT2MR1C5
		Dilution Factor: 1			
Chromium	91	(80 - 120)	SW846 6010B	08/14-08/15/08	KT2MR1C6
		Dilution Factor: 1			
Copper	87	(80 - 120)	SW846 6010B	08/14-08/15/08	KT2MR1C7
		Dilution Factor: 1			
Iron	96	(77 - 122)	SW846 6010B	08/14-08/15/08	KT2MR1C8
		Dilution Factor: 1			
Potassium	90	(80 - 120)	SW846 6010B	08/14-08/15/08	KT2MR1C9
		Dilution Factor: 1			
Magnesium	89	(80 - 120)	SW846 6010B	08/14-08/15/08	KT2MR1DA
		Dilution Factor: 1			

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: A8H110121 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	95	(80 - 120)	SW846 6010B	08/14-08/15/08	KT2MR1DC
		Dilution Factor: 1			
Sodium	88	(80 - 120)	SW846 6010B	08/14-08/15/08	KT2MR1DD
		Dilution Factor: 1			
Nickel	83	(80 - 120)	SW846 6010B	08/14-08/15/08	KT2MR1DE
		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 #...: A8H110121 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		WO#:KVH901AC-LCS/KVH901AD-LCSD LCS Lot-Sample#: A8H210000-278					
	104	(90 - 110)			MCAWW 300.0A	08/20/08	8234278
	104	(90 - 110)	0.0	(0-20)	MCAWW 300.0A	08/20/08	8234278
		Dilution Factor: 1					
Chloride		WO#:KVJHN1AC-LCS/KVJHN1AD-LCSD LCS Lot-Sample#: A8H210000-280					
	105	(90 - 110)			MCAWW 300.0A	08/20/08	8234280
	105	(90 - 110)	0.0	(0-20)	MCAWW 300.0A	08/20/08	8234280
		Dilution Factor: 1					
Sulfate		WO#:KVJHL1AC-LCS/KVJHL1AD-LCSD LCS Lot-Sample#: A8H210000-279					
	99	(90 - 110)			MCAWW 300.0A	08/20/08	8234279
	99	(90 - 110)	0.20	(0-20)	MCAWW 300.0A	08/20/08	8234279
		Dilution Factor: 1					
Sulfate		WO#:KVJHP1AC-LCS/KVJHP1AD-LCSD LCS Lot-Sample#: A8H210000-281					
	98	(90 - 110)			MCAWW 300.0A	08/20/08	8234281
	98	(90 - 110)	0.0	(0-20)	MCAWW 300.0A	08/20/08	8234281
		Dilution Factor: 1					
Sulfate		WO#:KVKMQ1AC-LCS/KVKMQ1AD-LCSD LCS Lot-Sample#: A8H210000-479					
	103	(90 - 110)			MCAWW 300.0A	08/21/08	8234479
	104	(90 - 110)	0.19	(0-20)	MCAWW 300.0A	08/21/08	8234479
		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 #...: A8H110121 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total		Work Order #: KT1RC1AC	LCS Lot-Sample#: A8H120000-265		
	98	(69 - 118)	MCAWW 335.2	08/12/08	8225265
		Dilution Factor: 1			
Total Cyanide		Work Order #: KT05D1AC	LCS Lot-Sample#: A8H120000-191		
	115	(69 - 118)	MCAWW 335.2	08/12/08	8225191
		Dilution Factor: 1			
Total Dissolved Solids		Work Order #: KT8XW1AC	LCS Lot-Sample#: A8H140000-250		
	97	(88 - 110)	MCAWW 160.1	08/14-08/15/08	8227250
		Dilution Factor: 1			
Total Dissolved Solids		Work Order #: KVFNK1AC	LCS Lot-Sample#: A8H190000-336		
	100	(88 - 110)	MCAWW 160.1	08/18-08/19/08	8232336
		Dilution Factor: 1			
Total Suspended Solids		Work Order #: KT6CR1AC	LCS Lot-Sample#: A8H140000-243		
	87	(73 - 113)	MCAWW 160.2	08/14/08	8227243
		Dilution Factor: 1			
Total Suspended Solids		Work Order #: KT8T51AC	LCS Lot-Sample#: A8H150000-323		
	94	(73 - 113)	MCAWW 160.2	08/15/08	8228323
		Dilution Factor: 1			

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A8H110121 **Matrix.....:** WG
Date Sampled...: 08/08/08 12:30 **Date Received..:** 08/11/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A8H110121-001 **Prep Batch #...:** 8225073							
Barium	103	(75 - 125)			SW846 6010B	08/13-08/14/08	KTXTX1A5
	107	(75 - 125)	3.4	(0-20)	SW846 6010B	08/13-08/14/08	KTXTX1A6
		Dilution Factor: 1					
Calcium	NC,MSB	(75 - 125)			SW846 6010B	08/13-08/14/08	KTXTX1A7
	NC,MSB	(75 - 125)		(0-20)	SW846 6010B	08/13-08/14/08	KTXTX1A8
		Dilution Factor: 1					
Chromium	102	(75 - 125)			SW846 6010B	08/13-08/14/08	KTXTX1CQ
	106	(75 - 125)	4.0	(0-20)	SW846 6010B	08/13-08/14/08	KTXTX1CR
		Dilution Factor: 1					
Copper	103	(75 - 125)			SW846 6010B	08/13-08/14/08	KTXTX1A9
	107	(75 - 125)	3.6	(0-20)	SW846 6010B	08/13-08/14/08	KTXTX1CA
		Dilution Factor: 1					
Iron	NC,MSB	(75 - 125)			SW846 6010B	08/13-08/14/08	KTXTX1CC
	NC,MSB	(75 - 125)		(0-20)	SW846 6010B	08/13-08/14/08	KTXTX1CD
		Dilution Factor: 1					
Magnesium	99	(75 - 125)			SW846 6010B	08/13-08/14/08	KTXTX1CG
	110	(75 - 125)	4.6	(0-20)	SW846 6010B	08/13-08/14/08	KTXTX1CH
		Dilution Factor: 1					
Manganese	106	(75 - 125)			SW846 6010B	08/13-08/14/08	KTXTX1CJ
	112	(75 - 125)	3.9	(0-20)	SW846 6010B	08/13-08/14/08	KTXTX1CK
		Dilution Factor: 1					
Nickel	93	(75 - 125)			SW846 6010B	08/13-08/14/08	KTXTX1CN
	98	(75 - 125)	4.1	(0-20)	SW846 6010B	08/13-08/14/08	KTXTX1CP
		Dilution Factor: 1					
Potassium	106	(75 - 125)			SW846 6010B	08/13-08/14/08	KTXTX1CE
	109	(75 - 125)	2.8	(0-20)	SW846 6010B	08/13-08/14/08	KTXTX1CF
		Dilution Factor: 1					
Sodium	97	(75 - 125)			SW846 6010B	08/13-08/14/08	KTXTX1CL
	106	(75 - 125)	4.0	(0-20)	SW846 6010B	08/13-08/14/08	KTXTX1CM
		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 were not calculated because the sample amount was greater than four times the spike amount.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A8H110121 **Matrix.....:** WG
Date Sampled...: 08/09/08 17:55 **Date Received..:** 08/11/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A8H110121-014 **Prep Batch #...:** 8225074							
Barium	103	(75 - 125)			SW846 6010B	08/13-08/14/08	KTXVX1AU
	105	(75 - 125)	1.3	(0-20)	SW846 6010B	08/13-08/14/08	KTXVX1AV
		Dilution Factor: 1					
Calcium	95	(75 - 125)			SW846 6010B	08/13-08/14/08	KTXVX1AX
	99	(75 - 125)	1.6	(0-20)	SW846 6010B	08/13-08/14/08	KTXVX1A0
		Dilution Factor: 1					
Chromium	103	(75 - 125)			SW846 6010B	08/13-08/14/08	KTXVX1CQ
	105	(75 - 125)	1.2	(0-20)	SW846 6010B	08/13-08/14/08	KTXVX1CR
		Dilution Factor: 1					
Copper	105	(75 - 125)			SW846 6010B	08/13-08/14/08	KTXVX1A2
	107	(75 - 125)	1.4	(0-20)	SW846 6010B	08/13-08/14/08	KTXVX1A3
		Dilution Factor: 1					
Iron	110	(75 - 125)			SW846 6010B	08/13-08/14/08	KTXVX1A5
	112	(75 - 125)	1.2	(0-20)	SW846 6010B	08/13-08/14/08	KTXVX1A6
		Dilution Factor: 1					
Magnesium	101	(75 - 125)			SW846 6010B	08/13-08/14/08	KTXVX1CC
	103	(75 - 125)	1.6	(0-20)	SW846 6010B	08/13-08/14/08	KTXVX1CD
		Dilution Factor: 1					
Manganese	108	(75 - 125)			SW846 6010B	08/13-08/14/08	KTXVX1CF
	110	(75 - 125)	1.6	(0-20)	SW846 6010B	08/13-08/14/08	KTXVX1CG
		Dilution Factor: 1					
Nickel	91	(75 - 125)			SW846 6010B	08/13-08/14/08	KTXVX1CM
	95	(75 - 125)	2.2	(0-20)	SW846 6010B	08/13-08/14/08	KTXVX1CN
		Dilution Factor: 1					
Potassium	NC,MSB	(75 - 125)			SW846 6010B	08/13-08/15/08	KTXVX1A8
	NC,MSB	(75 - 125)		(0-20)	SW846 6010B	08/13-08/15/08	KTXVX1A9
		Dilution Factor: 5					
Sodium	99	(75 - 125)			SW846 6010B	08/13-08/14/08	KTXVX1CJ
	105	(75 - 125)	1.6	(0-20)	SW846 6010B	08/13-08/14/08	KTXVX1CK
		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 were not calculated because the sample amount was greater than four times the spike amount.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A8H110121 **Matrix.....:** WATER
Date Sampled...: 08/07/08 17:30 **Date Received..:** 08/08/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A8H080277-001 **Prep Batch #...:** 8226078							
Barium	96	(75 - 125)			SW846 6010B	08/14-08/15/08	KTVW31CV
	98	(75 - 125)	1.8	(0-20)	SW846 6010B	08/14-08/15/08	KTVW31CW
		Dilution Factor: 1					
Calcium	98	(75 - 125)			SW846 6010B	08/14-08/15/08	KTVW31C0
	100	(75 - 125)	1.6	(0-20)	SW846 6010B	08/14-08/15/08	KTVW31C1
		Dilution Factor: 1					
Chromium	99	(75 - 125)			SW846 6010B	08/14-08/15/08	KTVW31AW
	100	(75 - 125)	1.4	(0-20)	SW846 6010B	08/14-08/15/08	KTVW31AX
		Dilution Factor: 1					
Copper	95	(75 - 125)			SW846 6010B	08/14-08/15/08	KTVW31A0
	97	(75 - 125)	1.6	(0-20)	SW846 6010B	08/14-08/15/08	KTVW31A1
		Dilution Factor: 1					
Iron	105	(75 - 125)			SW846 6010B	08/14-08/15/08	KTVW31A2
	107	(75 - 125)	2.2	(0-20)	SW846 6010B	08/14-08/15/08	KTVW31A3
		Dilution Factor: 1					
Magnesium	97	(75 - 125)			SW846 6010B	08/14-08/15/08	KTVW31C6
	99	(75 - 125)	1.9	(0-20)	SW846 6010B	08/14-08/15/08	KTVW31C7
		Dilution Factor: 1					
Manganese	103	(75 - 125)			SW846 6010B	08/14-08/15/08	KTVW31C9
	105	(75 - 125)	1.6	(0-20)	SW846 6010B	08/14-08/15/08	KTVW31DA
		Dilution Factor: 1					
Nickel	91	(75 - 125)			SW846 6010B	08/14-08/15/08	KTVW31A4
	92	(75 - 125)	1.0	(0-20)	SW846 6010B	08/14-08/15/08	KTVW31A5
		Dilution Factor: 1					
Potassium	97	(75 - 125)			SW846 6010B	08/14-08/15/08	KTVW31C3
	98	(75 - 125)	1.5	(0-20)	SW846 6010B	08/14-08/15/08	KTVW31C4
		Dilution Factor: 1					
Sodium	95	(75 - 125)			SW846 6010B	08/14-08/15/08	KTVW31DD
	96	(75 - 125)	1.7	(0-20)	SW846 6010B	08/14-08/15/08	KTVW31DE
		Dilution Factor: 1					

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: A8H110121 **Matrix.....:** WG
Date Sampled...: 08/09/08 17:55 **Date Received..:** 08/11/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A8H110121-014 **Prep Batch #...:** 8225074							
Barium	103	(75 - 125)			SW846 6010B	08/13-08/14/08	KTXVX1CU
	101	(75 - 125)	1.8	(0-20)	SW846 6010B	08/13-08/14/08	KTXVX1CV
		Dilution Factor: 1					
Calcium	106	(75 - 125)			SW846 6010B	08/13-08/14/08	KTXVX1CX
	100	(75 - 125)	2.0	(0-20)	SW846 6010B	08/13-08/14/08	KTXVX1C0
		Dilution Factor: 1					
Chromium	104	(75 - 125)			SW846 6010B	08/13-08/14/08	KTXVX1C2
	102	(75 - 125)	2.1	(0-20)	SW846 6010B	08/13-08/14/08	KTXVX1C3
		Dilution Factor: 1					
Copper	106	(75 - 125)			SW846 6010B	08/13-08/14/08	KTXVX1C5
	104	(75 - 125)	1.5	(0-20)	SW846 6010B	08/13-08/14/08	KTXVX1C6
		Dilution Factor: 1					
Iron	109	(75 - 125)			SW846 6010B	08/13-08/14/08	KTXVX1C8
	107	(75 - 125)	1.8	(0-20)	SW846 6010B	08/13-08/14/08	KTXVX1C9
		Dilution Factor: 1					
Magnesium	102	(75 - 125)			SW846 6010B	08/13-08/14/08	KTXVX1DF
	101	(75 - 125)	1.3	(0-20)	SW846 6010B	08/13-08/14/08	KTXVX1DG
		Dilution Factor: 1					
Manganese	109	(75 - 125)			SW846 6010B	08/13-08/14/08	KTXVX1DJ
	106	(75 - 125)	2.0	(0-20)	SW846 6010B	08/13-08/14/08	KTXVX1DK
		Dilution Factor: 1					
Nickel	97	(75 - 125)			SW846 6010B	08/13-08/14/08	KTXVX1DQ
	95	(75 - 125)	0.94	(0-20)	SW846 6010B	08/13-08/14/08	KTXVX1DR
		Dilution Factor: 1					
Potassium	NC,MSB	(75 - 125)			SW846 6010B	08/13-08/15/08	KTXVX1DC
	NC,MSB	(75 - 125)		(0-20)	SW846 6010B	08/13-08/15/08	KTXVX1DD
		Dilution Factor: 5					
Sodium	114	(75 - 125)			SW846 6010B	08/13-08/14/08	KTXVX1DM
	106	(75 - 125)	2.0	(0-20)	SW846 6010B	08/13-08/14/08	KTXVX1DN
		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 were not calculated because the sample amount was greater than four times the spike amount.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A8H110121 **Matrix.....:** WATER
Date Sampled...: 07/31/08 11:40 **Date Received..:** 08/01/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total		WO#: KTHMC1AF-MS/KTHMC1AG-MSD				MS Lot-Sample #: A8H010208-001	
	98	(42 - 140)			MCAWW 335.2	08/12/08	8225265
	98	(42 - 140)	0.0	(0-20)	MCAWW 335.2	08/12/08	8225265
		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 #...: A8H110121 **Matrix.....:** WG
Date Sampled...: 08/09/08 17:55 **Date Received..:** 08/11/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		WO#: KTXVX1AC-MS/KTXVX1AD-MSD				MS Lot-Sample #: A8H110121-014	
	108	(80 - 120)			MCAWW 300.0A	08/21/08	8234278
	112	(80 - 120)	2.4	(0-20)	MCAWW 300.0A	08/21/08	8234278
		Dilution Factor: 10					
Sulfate		WO#: KTXVX1AF-MS/KTXVX1AG-MSD				MS Lot-Sample #: A8H110121-014	
	NC,MSB	(80 - 120)			MCAWW 300.0A	08/21/08	8234479
	NC,MSB	(80 - 120)		(0-20)	MCAWW 300.0A	08/21/08	8234479
		Dilution Factor: 1					
Total Cyanide		WO#: KTXVX1AJ-MS/KTXVX1AK-MSD				MS Lot-Sample #: A8H110121-014	
	88	(42 - 140)			MCAWW 335.2	08/12/08	8225191
	85	(42 - 140)	3.4	(0-20)	MCAWW 335.2	08/12/08	8225191
		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 were not calculated because the sample amount was greater than four times the spike amount.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A8H110121 **Matrix.....:** WG
Date Sampled...: 08/09/08 15:00 **Date Received..:** 08/11/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		Work Order #...: KTXVT1A5		MS Lot-Sample #: A8H110121-011	
	87	(80 - 120)	MCAWW 300.0A	08/21/08	8234278
		Dilution Factor: 1			
Sulfate		Work Order #...: KTXVT1A6		MS Lot-Sample #: A8H110121-011	
	93	(80 - 120)	MCAWW 300.0A	08/21/08	8234279
		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 #...: A8H110121 **Work Order #...:** KTXTX-SMP KTXTX-DUP **Matrix.....:** WG

Date Sampled...: 08/08/08 12:30 **Date Received..:** 08/11/08

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Dissolved Solids						SD Lot-Sample #: A8H110121-001		
	1300	1300	mg/L	2.1	(0-20)	MCAWW 160.1	08/14-08/15/08	8227250
			Dilution Factor: 1					
Total Suspended Solids						SD Lot-Sample #: A8H110121-001		
	10	11	mg/L	9.5	(0-20)	MCAWW 160.2	08/14/08	8227243
			Dilution Factor: 1					

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A8H110121 **Work Order #...:** KTXVX-SMP KTXVX-DUP **Matrix.....:** WG

Date Sampled...: 08/09/08 17:55 **Date Received..:** 08/11/08

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Dissolved Solids						SD Lot-Sample #: A8H110121-014		
	2600	2800	mg/L	7.3	(0-20)	MCAWW 160.1	08/14-08/15/08	8227250
			Dilution Factor: 4					
Total Suspended Solids						SD Lot-Sample #: A8H110121-014		
	ND	ND	mg/L	200	(0-20)	MCAWW 160.2	08/14/08	8227243
			Dilution Factor: 1					

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A8H110121 **Work Order #...:** KTXWC-SMP KTXWC-DUP **Matrix.....:** WG

Date Sampled...: 08/10/08 10:35 **Date Received..:** 08/11/08

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Suspended Solids						SD Lot-Sample #: A8H110121-019		
	6.0	5.0	mg/L	18	(0-20)	MCAWW 160.2	08/15/08	8228323
			Dilution Factor: 1					

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A8H110121 **Work Order #...:** KTXWD-SMP KTXWD-DUP **Matrix.....:** WG

Date Sampled...: 08/10/08 11:10 **Date Received..:** 08/11/08

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Dissolved Solids						SD Lot-Sample #: A8H110121-020		
	2500	2400	mg/L	4.4	(0-20)	MCAWW 160.1	08/18-08/20/08	8232336
			Dilution Factor: 2					

Chain of Custody Record

(Sample Batch Complete)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4142 (0408)

Client: CRA	Project Manager: A. Lavine	Date: 8·11·08	Chain of Custody Number: 017030
Address:	Telephone Number (Area Code)/Fax Number:	Lab Number:	Page 1 of 2
City: Sandusky; State: OH; Zip Code: 44870	Site Contact: ; Lab Contact:		
Project Name and Location (State):	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: SSOW # R01b016			

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Tot. + Dis. Metals	Cl, S, TDS, TSS, CN	Special Instructions/ Conditions of Receipt
WG·12616·080808-DN-01	8·8·08	1230		✓									X	X	*Dis. Metals were field filtered
-02	↓	1330		↓									X	X	
-03	↓	1420		↓									X	X	
-04	↓	1450		↓									X	X	
-05	↓	1555		↓									X	X	
WG·12616·080908-DN-06	8·9·08	0830		↓									X	X	
-07	↓	0915		↓									X	X	
-08	↓	1055		↓									X	X	
-09	↓	1115		↓									X	X	
-10	↓	1335		↓									X	X	
-11	↓	1500		↓									X	X	
-12	↓	1530		↓									X	X	

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 standard

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	8·11·08	0808	1. Received By: [signature]	8/11/08	0855
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

(Sample Batch Complete)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4142 (0408)

Client	Project Manager	Date	Chain of Custody Number
CRA	A. LaVine	8.11.08	017031
Address	Telephone Number (Area Code)/Fax Number	Lab Number	Page 2 of 2
City: Sandusky / State: OH / Zip Code: 44870	Site Contact	Lab Contact	Analysis (Attach list if more space is needed)
Project Name and Location (State)	Carrier/Waybill Number		
Contract/Purchase Order/Quote No. 550W # R016016			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H_2SO_4	HNO_3	HCl	NaOH	ZnAc/NaOH	Tot. + Dis. Metals	Cl, S, CN, TSS, TDS	Special Instructions/ Conditions of Receipt
WG-12616-080908-DN-13	8.9.08	1710		X									X	X	
-14		1755													+MS/MSD
-15		1835													
WG-12616-081008-DN-16	8.10.08	0830													* Dis. Metals
-17		0915													were field filtered
-18		0950													
-19		1035													
-20		1110													
-21		1150													

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 standard

QC Requirements (Specify)

	Relinquished By	Date	Time	Received By	Date	Time
1.	[signature]	8.11.08	1855	[signature]	8/11/08	0855
2.						
3.						

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

112

North Canton

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** A8H110121
North Canton Facility

Client CRA Project _____ By: _____
Cooler Received on 8/11/08 Opened on 8/11/08 (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 _____
   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 _____ °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#* 113007-HNO_3; *Sulfuric Acid Lot#* 031808-H_2SO_4; *Sodium Hydroxide Lot#* 073007 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 050205-$(CH_3COO)_2ZN$/*NaOH.*
What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials
01	<2 <2 >12	8/11/08	gm
02	<2 <2 >12		
03	<2 <2 >12		
04	<2 <2 >12		
05	<2 <2 >12		
06	<2 <2 >12		
07	<2 <2 >12		
08	<2 <2 >12		

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials
09	<2 <2 >12	8/14/08	gm
10	<2 <2 >12		
11	<2 <2 >12		
12	<2 <2 >12		
13	<2 <2 >12		
14	<2 <2 <2 <2 >12 >12		
15	<2 <2 >12		
16	<2 <2 >12		
17	<2 <2 >12		
18	<2 <2 >12		
19	<2 <2 >12		
20	<2 <2 >12		
21	<2 <2 >12		

Cooler #	Temp. °C	Method	Coolant
L306	2.4	IR	Ice
L670	2.7		
L331	4.6		
197	2.9		
L882	2.3		

Discrepancies Cont'd:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

END OF REPORT

APPENDIX D-4

LABORATORY ANALYTICAL REPORT – SEPTEMBER 2008
(CONFIRMATION EVENT)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

PROJECT NO. 12616-71-501013

REALM ELYRIA/R016017

Lot #: A8I240212

Angela Bown

Conestoga-Rovers & Associates
9033 Meridian Way
West Chester, OH 45069

TESTAMERICA LABORATORIES, INC.

Amy L. McCormick
Project Manager

October 8, 2008

CASE NARRATIVE

A8I240212

The following report contains the analytical results for nine water samples submitted to TestAmerica North Canton by Conestoga-Rovers & Associates, Inc. from the Realm Elyria/R016017 Site, project number 12616-71-501013. The samples were received September 24, 2008, according to documented sample acceptance procedures.

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 Angela Bown on October 06, 2008. 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.

Any reference within this document to Severn Trent Laboratories, Inc. or STL, should be understood to refer to TestAmerica Laboratories, Inc. (formerly known as Severn Trent Laboratories, Inc.)

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.

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." The total number of pages in this report is 33.

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 4.2°C.

METALS

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are +/- the standard reporting limit (SRL).

GENERAL CHEMISTRY

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

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica North Canton 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.

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, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

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. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. 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.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

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 twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

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

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- 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 repreparation 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 may 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 (MS/DU) 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 (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

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, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, 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.

EXECUTIVE SUMMARY - Detection Highlights

A8I240212

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
WG-12616-092208-DN-01 09/22/08 15:45	**001**			
Barium - DISSOLVED	0.087 B	0.20	mg/L	SW846 6010B
Sodium - DISSOLVED	176	5.0	mg/L	SW846 6010B
Chloride	174	5.0	mg/L	MCAWW 300.0A
WG-12616-092208-DN-02 09/22/08 16:35	**002**			
Potassium - DISSOLVED	14.5	5.0	mg/L	SW846 6010B
Sodium - DISSOLVED	31.0	5.0	mg/L	SW846 6010B
WG-12616-092208-DN-03 09/22/08 17:25	**003**			
Calcium - DISSOLVED	213	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	61.9	5.0	mg/L	SW846 6010B
Sulfate	592	5.0	mg/L	MCAWW 300.0A
WG-12616-092208-DN-04 09/22/08 18:15	**004**			
Calcium - DISSOLVED	212	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	64.8	5.0	mg/L	SW846 6010B
Nickel - DISSOLVED	0.19	0.040	mg/L	SW846 6010B
Chloride	92.3	1.0	mg/L	MCAWW 300.0A
Sulfate	515	5.0	mg/L	MCAWW 300.0A
WG-12616-092308-DN-05 09/23/08 08:30	**005**			
Calcium - DISSOLVED	224	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	90.7	5.0	mg/L	SW846 6010B
Chloride	123	1.0	mg/L	MCAWW 300.0A
Sulfate	680	5.0	mg/L	MCAWW 300.0A
WG-12616-092308-DN-06 09/23/08 09:45	**006**			
Potassium - DISSOLVED	5.1	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	36.7	5.0	mg/L	SW846 6010B
WG-12616-092308-DN-07 09/23/08 10:25	**007**			
Potassium - DISSOLVED	4.7 B	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	35.6	5.0	mg/L	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A8I240212

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
WG-12616-092308-DN-08 09/23/08 10:50	**008**			
Calcium - DISSOLVED	142	5.0	mg/L	SW846 6010B
WG-12616-092308-DN-09 09/23/08 12:05	**009**			
Iron - DISSOLVED	1.5	0.10	mg/L	SW846 6010B

ANALYTICAL METHODS SUMMARY

A8I240212

PARAMETER	ANALYTICAL METHOD
Chloride	MCAWW 300.0A
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Sulfate	MCAWW 300.0A

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A8I240212

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
KXHNA	001	WG-12616-092208-DN-01	09/22/08	15:45
KXHNN	002	WG-12616-092208-DN-02	09/22/08	16:35
KXHPC	003	WG-12616-092208-DN-03	09/22/08	17:25
KXHPP	004	WG-12616-092208-DN-04	09/22/08	18:15
KXHPR	005	WG-12616-092308-DN-05	09/23/08	08:30
KXHP0	006	WG-12616-092308-DN-06	09/23/08	09:45
KXHP4	007	WG-12616-092308-DN-07	09/23/08	10:25
KXHP6	008	WG-12616-092308-DN-08	09/23/08	10:50
KXHP9	009	WG-12616-092308-DN-09	09/23/08	12:05

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.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-092208-DN-01

DISSOLVED Metals

Lot-Sample #...: A8I240212-001 Matrix.....: WG
Date Sampled...: 09/22/08 15:45 Date Received..: 09/24/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8269012						
Barium	0.087 B	0.20	mg/L	SW846 6010B	09/25-09/27/08	KXHNA1AA
		Dilution Factor: 1		MDL.....: 0.00067		
Sodium	176	5.0	mg/L	SW846 6010B	09/25-09/26/08	KXHNA1AC
		Dilution Factor: 1		MDL.....: 0.59		

NOTE(S):

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-092208-DN-01

General Chemistry

Lot-Sample #...: A8I240212-001 **Work Order #...:** KXHNA **Matrix.....:** WG
Date Sampled...: 09/22/08 15:45 **Date Received..:** 09/24/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**174**	**5.0**	**mg/L**	**MCAWW 300.0A**	**10/03/08**	**8280281**

Dilution Factor: 5 MDL.....: 0.50

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-092208-DN-02

DISSOLVED Metals

Lot-Sample #...: A8I240212-002 **Matrix.....:** WG
Date Sampled...: 09/22/08 16:35 **Date Received..:** 09/24/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8269012						
Potassium	**14.5**	**5.0**	**mg/L**	**SW846 6010B**	**09/25-09/26/08**	**KXHNN1AC**
		Dilution Factor: 1		MDL.....: 0.072		
Sodium	**31.0**	**5.0**	**mg/L**	**SW846 6010B**	**09/25-09/26/08**	**KXHNN1AA**
		Dilution Factor: 1		MDL.....: 0.59		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-092208-DN-03

DISSOLVED Metals

Lot-Sample #...: A8I240212-003 **Matrix.....:** WG
Date Sampled...: 09/22/08 17:25 **Date Received..:** 09/24/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8269012						
Calcium	**213**	**5.0**	**mg/L**	**SW846 6010B**	**09/25-09/26/08**	**KXHPC1AA**
		Dilution Factor: 1		MDL.....: 0.13		
Magnesium	**61.9**	**5.0**	**mg/L**	**SW846 6010B**	**09/25-09/26/08**	**KXHPC1AC**
		Dilution Factor: 1		MDL.....: 0.034		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-092208-DN-03

General Chemistry

Lot-Sample #...: A8I240212-003 **Work Order #...:** KXHPC **Matrix.....:** WG
Date Sampled...: 09/22/08 17:25 **Date Received..:** 09/24/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Sulfate	**592**	**5.0**	**mg/L**	**MCAWW 300.0A**	**10/04/08**	**8280282**
		Dilution Factor: 5		MDL.....: 0.60		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-092208-DN-04

DISSOLVED Metals

Lot-Sample #...: A8I240212-004 **Matrix.....:** WG
Date Sampled...: 09/22/08 18:15 **Date Received..:** 09/24/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8269012						
Calcium	**212**	**5.0**	**mg/L**	**SW846 6010B**	**09/25-09/26/08**	**KXHPP1AA**
		Dilution Factor: 1		MDL.....: 0.13		
Magnesium	**64.8**	**5.0**	**mg/L**	**SW846 6010B**	**09/25-09/26/08**	**KXHPP1AC**
		Dilution Factor: 1		MDL.....: 0.034		
Nickel	**0.19**	**0.040**	**mg/L**	**SW846 6010B**	**09/25-09/26/08**	**KXHPP1AD**
		Dilution Factor: 1		MDL.....: 0.0032		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-092208-DN-04

General Chemistry

Lot-Sample #...: A8I240212-004 **Work Order #...:** KXHPP **Matrix.....:** WG
Date Sampled...: 09/22/08 18:15 **Date Received..:** 09/24/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**92.3**	**1.0**	**mg/L**	**MCAWW 300.0A**	**10/04/08**	**8280281**
		Dilution Factor: 1		MDL.....: 0.10		
Sulfate	**515**	**5.0**	**mg/L**	**MCAWW 300.0A**	**10/04/08**	**8280282**
		Dilution Factor: 5		MDL.....: 0.60		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-092308-DN-05

DISSOLVED Metals

Lot-Sample #...: A8I240212-005 **Matrix.....:** WG
Date Sampled...: 09/23/08 08:30 **Date Received..:** 09/24/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8269012						
Calcium	**224**	**5.0**	**mg/L**	**SW846 6010B**	**09/25-09/26/08**	**KXHPR1AA**
		Dilution Factor: 1		MDL.....: 0.13		
Magnesium	**90.7**	**5.0**	**mg/L**	**SW846 6010B**	**09/25-09/26/08**	**KXHPR1AC**
		Dilution Factor: 1		MDL.....: 0.034		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-092308-DN-05

General Chemistry

Lot-Sample #...: A8I240212-005 **Work Order #...:** KXHPR **Matrix.....:** WG
Date Sampled...: 09/23/08 08:30 **Date Received..:** 09/24/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**123**	**1.0**	**mg/L**	**MCAWW 300.0A**	**10/04/08**	**8280281**
		Dilution Factor: 1		MDL.....: 0.10		
Sulfate	**680**	**5.0**	**mg/L**	**MCAWW 300.0A**	**10/04/08**	**8280282**
		Dilution Factor: 5		MDL.....: 0.60		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-092308-DN-06

DISSOLVED Metals

Lot-Sample #...: A8I240212-006 **Matrix.....:** WG
Date Sampled...: 09/23/08 09:45 **Date Received..:** 09/24/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8269012						
Potassium	**5.1**	**5.0**	**mg/L**	**SW846 6010B**	**09/25-09/26/08**	**KXHP01AC**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**36.7**	**5.0**	**mg/L**	**SW846 6010B**	**09/25-09/26/08**	**KXHP01AA**
		Dilution Factor: 1		MDL.....: 0.034		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-092308-DN-07

DISSOLVED Metals

Lot-Sample #...: A8I240212-007 **Matrix.....:** WG
Date Sampled...: 09/23/08 10:25 **Date Received..:** 09/24/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8269012						
Potassium	**4.7 B**	**5.0**	**mg/L**	**SW846 6010B**	**09/25-09/26/08**	**KXHP41AC**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**35.6**	**5.0**	**mg/L**	**SW846 6010B**	**09/25-09/26/08**	**KXHP41AA**
		Dilution Factor: 1		MDL.....: 0.034		

NOTE(S):

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-092308-DN-08

DISSOLVED Metals

Lot-Sample #...: A8I240212-008 **Matrix.....:** WG
Date Sampled...: 09/23/08 10:50 **Date Received..:** 09/24/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8269012						
Calcium	**142**	**5.0**	**mg/L**	**SW846 6010B**	**09/25-09/26/08**	**KXHP61AA**
		Dilution Factor: 1		MDL.....: 0.13		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-092308-DN-09

DISSOLVED Metals

Lot-Sample #...: A8I240212-009 **Matrix.....:** WG
Date Sampled...: 09/23/08 12:05 **Date Received..:** 09/24/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8269012						
Iron	1.5	**0.10**	**mg/L**	**SW846 6010B**	**09/25-09/26/08**	**KXHP91AA**
		Dilution Factor: 1		MDL.....: 0.081		

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QUALITY CONTROL SECTION

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: A8I240212 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A8I250000-012 **Prep Batch #...:** 8269012						
Barium	ND	0.20	mg/L	SW846 6010B	09/25-09/26/08	KXJQ11A0
		Dilution Factor: 1				
Calcium	ND	5.0	mg/L	SW846 6010B	09/25-09/26/08	KXJQ11A3
		Dilution Factor: 1				
Iron	ND	0.10	mg/L	SW846 6010B	09/25-09/26/08	KXJQ11A6
		Dilution Factor: 1				
Magnesium	ND	5.0	mg/L	SW846 6010B	09/25-09/26/08	KXJQ11A4
		Dilution Factor: 1				
Nickel	ND	0.040	mg/L	SW846 6010B	09/25-09/26/08	KXJQ11A5
		Dilution Factor: 1				
Potassium	ND	5.0	mg/L	SW846 6010B	09/25-09/26/08	KXJQ11A2
		Dilution Factor: 1				
Sodium	ND	5.0	mg/L	SW846 6010B	09/25-09/26/08	KXJQ11A1
		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 #...: A8I240212 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		Work Order #: KX8RX1AA		MB Lot-Sample #:	A8J060000-281	
	ND	1.0	mg/L	MCAWW 300.0A	10/04/08	8280281
		Dilution Factor: 1				
Sulfate		Work Order #: KX8TV1AA		MB Lot-Sample #:	A8J060000-282	
	ND	1.0	mg/L	MCAWW 300.0A	10/04/08	8280282
		Dilution Factor: 1				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: A8I240212 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A8I250000-012 **Prep Batch #...:** 8269012					
Barium	106	(80 - 120)	SW846 6010B Dilution Factor: 1	09/25-09/26/08	KXJQ11CA
Sodium	100	(80 - 120)	SW846 6010B Dilution Factor: 1	09/25-09/26/08	KXJQ11CC
Potassium	105	(80 - 120)	SW846 6010B Dilution Factor: 1	09/25-09/26/08	KXJQ11CD
Calcium	93	(80 - 120)	SW846 6010B Dilution Factor: 1	09/25-09/26/08	KXJQ11CE
Magnesium	95	(80 - 120)	SW846 6010B Dilution Factor: 1	09/25-09/26/08	KXJQ11CF
Nickel	96	(80 - 120)	SW846 6010B Dilution Factor: 1	09/25-09/26/08	KXJQ11CG
Iron	102	(77 - 122)	SW846 6010B Dilution Factor: 1	09/25-09/26/08	KXJQ11CH

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: A8I240212 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		WO#:KX8RX1AC-LCS/KX8RX1AD-LCSD LCS Lot-Sample#: A8J060000-281					
	105	(90 - 110)			MCAWW 300.0A	10/04/08	8280281
	105	(90 - 110)	0.19	(0-20)	MCAWW 300.0A	10/04/08	8280281
		Dilution Factor: 1					
Sulfate		WO#:KX8TV1AC-LCS/KX8TV1AD-LCSD LCS Lot-Sample#: A8J060000-282					
	98	(90 - 110)			MCAWW 300.0A	10/04/08	8280282
	98	(90 - 110)	0.0	(0-20)	MCAWW 300.0A	10/04/08	8280282
		Dilution Factor: 1					

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: A8I240212 **Matrix.....:** WATER
Date Sampled...: 09/24/08 10:25 **Date Received..:** 09/24/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A8I240253-001 **Prep Batch #...:** 8269012							
Barium	108	(75 - 125)			SW846 6010B	09/25-09/26/08	KXH191CK
	108	(75 - 125)	0.33	(0-20)	SW846 6010B	09/25-09/26/08	KXH191CL
		Dilution Factor: 1					
Calcium	96	(75 - 125)			SW846 6010B	09/25-09/26/08	KXH191CV
	96	(75 - 125)	0.15	(0-20)	SW846 6010B	09/25-09/26/08	KXH191CW
		Dilution Factor: 1					
Iron	109	(75 - 125)			SW846 6010B	09/25-09/26/08	KXH191C6
	105	(75 - 125)	2.7	(0-20)	SW846 6010B	09/25-09/26/08	KXH191C7
		Dilution Factor: 1					
Magnesium	97	(75 - 125)			SW846 6010B	09/25-09/26/08	KXH191C0
	96	(75 - 125)	0.66	(0-20)	SW846 6010B	09/25-09/26/08	KXH191C1
		Dilution Factor: 1					
Nickel	101	(75 - 125)			SW846 6010B	09/25-09/26/08	KXH191C3
	100	(75 - 125)	0.97	(0-20)	SW846 6010B	09/25-09/26/08	KXH191C4
		Dilution Factor: 1					
Potassium	113	(75 - 125)			SW846 6010B	09/25-09/26/08	KXH191CR
	112	(75 - 125)	0.06	(0-20)	SW846 6010B	09/25-09/26/08	KXH191CT
		Dilution Factor: 1					
Sodium	104	(75 - 125)			SW846 6010B	09/25-09/26/08	KXH191CN
	109	(75 - 125)	1.4	(0-20)	SW846 6010B	09/25-09/26/08	KXH191CP
		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 #...: A8I240212 **Matrix.....:** WATER
Date Sampled...: 10/01/08 16:55 **Date Received..:** 10/03/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		Work Order #...: KXKA61CE		MS Lot-Sample #: A8I250140-001	
	116	(80 - 120)	MCAWW 300.0A	10/04/08	8280281
		Dilution Factor: 1			
Chloride		Work Order #...: KX5P81AK		MS Lot-Sample #: A8J030242-003	
	111	(80 - 120)	MCAWW 300.0A	10/03/08	8280281
		Dilution Factor: 1			
Sulfate		Work Order #...: KXKA61CF		MS Lot-Sample #: A8I250140-001	
	108	(80 - 120)	MCAWW 300.0A	10/04/08	8280282
		Dilution Factor: 1			
Sulfate		Work Order #...: KX16K1AD		MS Lot-Sample #: A8J020136-003	
	115	(80 - 120)	MCAWW 300.0A	10/04/08	8280282
		Dilution Factor: 1			

NOTE(S):

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

CRA

CONESTOGA-ROVERS & ASSOCIATES, INC.
7704 Milan Road Ph# (419) 609-1339
Sandusky, OH 44870 Fax# (419) 609-1338

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): Test America (SAMPLE BATCH COMPLETE) SSOW# R016017

REFERENCE NUMBER: 12616-71-501013

PROJECT NAME: REALM ELYRIA - CONFIRMATION EVENT

SAMPLER'S SIGNATURE: Don Newton PRINTED NAME: DON NEWTON

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. OF CONTAINERS	PARAMETERS: Dis. Ba, Dis. Na, Dis. Mg, Dis. K, Dis. Ca, Dis. Ni, Dis. Fe, Chloride, Sulfate	REMARKS
	9-22-08	1545	WG-12616-092208-DN-01	WATER		X X X X X X X X X	* Dis. metals were field filtered
		1635	02				
		1725	03				
		1915	04				
	9-23-08	0830	WG-12616-092308-DN-05				
		0945	-06				
		1025	-07				
		1050	-08				
		1205	-09				

TOTAL NUMBER OF CONTAINERS

RELINQUISHED BY: 1. Don Newton	DATE: 9-23-08 TIME: 1700	RECEIVED BY: 2.	DATE: TIME:
RELINQUISHED BY: 2.	DATE: TIME:	RECEIVED BY: 3.	DATE: TIME:
RELINQUISHED BY: 3.	DATE: TIME:	RECEIVED BY: 4.	DATE: TIME:

METHOD OF SHIPMENT: AIR BILL No.

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

00157

SAMPLE TEAM: D. NEWTON

RECEIVED FOR LABORATORY BY:

DATE: 9-24-08 TIME: 0910

01001-00(SOURCE)GN-DE003 NOV 5/2000

30

North Canton

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Lot Number: ABE240212

Client CRA Project _____ By: _____ (Signature)

Cooler Received on 9-24-08 Opened on 9-24-08

FedEx ☑ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other _____

TestAmerica Cooler # NO# 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 4.2 °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 ☐
10. Were correct bottle(s) used for the test(s) indicated? Yes ☑ No ☐ NA ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☑ No ☐
12. Sufficient quantity received to perform indicated analyses? Yes ☐ No ☐ NA ☑
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# 031808-HNO_3; Sulfuric Acid Lot# 031808-H_2SO_4; Sodium Hydroxide Lot# 073007 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc Acetate Lot# 050205-$(CH_3COO)_2ZN/NaOH$.* What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials
1	<2	9-24-08	WS
2	<2		
3	<2		
4	<2		
5	<2		
6	<2		
7	<2		
8	<2		
9	<2		

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Cooler #	Temp. °C	Method	Coolant

Discrepancies Cont'd:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

END OF REPORT

APPENDIX D-5

LABORATORY ANALYTICAL REPORT – MAY 2008
(SECONDARY SUMP EVENT)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

PROJECT NO. 12616-71-501012

REALM-ELYRIA/R016018

Lot #: A8E120120

Angela Bown

Conestoga-Rovers & Associates
9033 Meridian Way
West Chester, OH 45069

TESTAMERICA LABORATORIES, INC.

Amy L. McCormick
Project Manager

May 27, 2008

4101 Shuffel Street NW North Canton, OH 44720 tel 330.966.9279 fax 330.497.0772 www.testamericainc.com

CASE NARRATIVE

A8E120120

The following report contains the analytical results for five water samples submitted to TestAmerica North Canton by Conestoga-Rovers & Associates, Inc. from the Realm-Elyria/R016018 Site, project number 12616-71-501012. The samples were received May 10, 2008, according to documented sample acceptance procedures.

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 Angela Bown on May 22, 2008. 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.

Any reference within this document to Severn Trent Laboratories, Inc. or STL, should be understood to refer to TestAmerica Laboratories, Inc. (formerly known as Severn Trent Laboratories, Inc.)

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.

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." The total number of pages in this report is 39.

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 5.7°C.

CASE NARRATIVE (continued)

METALS

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are +/- the standard reporting limit (SRL).

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "J". Refer to the sample report pages for the affected analyte(s).

Matrix spike recovery and relative percent difference (RPD) data were not calculated for some analytes for WG-12616-050808-DN-01 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".

Some dissolved metals sample results in this lot are greater than the corresponding total metals results. The affected data was reviewed and the difference between the total and dissolved results was considered insignificant or the results were confirmed by analysis of the undigested samples.

GENERAL CHEMISTRY

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are +/- the standard reporting limit (SRL).

Matrix spike recovery and relative percent difference (RPD) data were not calculated for some analytes for batch(es) 8137283 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".

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica North Canton 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.

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, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

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. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. 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.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

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 twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
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 repreparation 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 may 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 (MS/DU) 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 (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

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, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, 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.

EXECUTIVE SUMMARY - Detection Highlights

A8E120120

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
WG-12616-050808-DN-01 05/08/08 16:10	**001**			
Barium - DISSOLVED	0.095 B	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	208	5.0	mg/L	SW846 6010B
Iron - DISSOLVED	4.2	0.10	mg/L	SW846 6010B
Potassium - DISSOLVED	424 J	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	37.9	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	1.1	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	101	5.0	mg/L	SW846 6010B
Nickel - DISSOLVED	0.51	0.040	mg/L	SW846 6010B
Barium	0.096 B	0.20	mg/L	SW846 6010B
Calcium	212	5.0	mg/L	SW846 6010B
Iron	3.7	0.10	mg/L	SW846 6010B
Potassium	430 J	5.0	mg/L	SW846 6010B
Magnesium	38.5	5.0	mg/L	SW846 6010B
Manganese	1.1	0.015	mg/L	SW846 6010B
Sodium	103	5.0	mg/L	SW846 6010B
Nickel	0.53	0.040	mg/L	SW846 6010B
Chloride	172	5.0	mg/L	MCAWW 300.0A
Sulfate	936	5.0	mg/L	MCAWW 300.0A
WG-12616-050808-DN-02 05/08/08 16:40	**002**			
Barium - DISSOLVED	0.097 B	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	213	5.0	mg/L	SW846 6010B
Iron - DISSOLVED	4.1	0.10	mg/L	SW846 6010B
Potassium - DISSOLVED	432 J	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	38.8	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	1.1	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	103	5.0	mg/L	SW846 6010B
Nickel - DISSOLVED	0.53	0.040	mg/L	SW846 6010B
Barium	0.090 B	0.20	mg/L	SW846 6010B
Calcium	202	5.0	mg/L	SW846 6010B
Iron	1.3	0.10	mg/L	SW846 6010B
Potassium	413 J	5.0	mg/L	SW846 6010B
Magnesium	36.9	5.0	mg/L	SW846 6010B
Manganese	0.99	0.015	mg/L	SW846 6010B
Sodium	98.8	5.0	mg/L	SW846 6010B
Nickel	0.51	0.040	mg/L	SW846 6010B
Chloride	171	5.0	mg/L	MCAWW 300.0A
Sulfate	931	5.0	mg/L	MCAWW 300.0A

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A8E120120

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
WG-12616-050808-DN-03 05/08/08 17:00	**003**			
Barium - DISSOLVED	0.037 B	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	361	5.0	mg/L	SW846 6010B
Iron - DISSOLVED	0.25	0.10	mg/L	SW846 6010B
Potassium - DISSOLVED	444 J	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	85.1	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	3.9	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	149	5.0	mg/L	SW846 6010B
Nickel - DISSOLVED	0.99	0.040	mg/L	SW846 6010B
Barium	0.039 B	0.20	mg/L	SW846 6010B
Calcium	357	5.0	mg/L	SW846 6010B
Iron	0.23	0.10	mg/L	SW846 6010B
Potassium	447 J	5.0	mg/L	SW846 6010B
Magnesium	83.9	5.0	mg/L	SW846 6010B
Manganese	3.8	0.015	mg/L	SW846 6010B
Sodium	148	5.0	mg/L	SW846 6010B
Nickel	0.98	0.040	mg/L	SW846 6010B
Total Cyanide	0.01	0.010	mg/L	MCAWW 335.2
Chloride	250	10.0	mg/L	MCAWW 300.0A
Sulfate	1300	10.0	mg/L	MCAWW 300.0A
WG-12616-050808-DN-04 05/08/08 17:35	**004**			
Barium - DISSOLVED	0.045 B	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	216	5.0	mg/L	SW846 6010B
Chromium - DISSOLVED	0.0088 B	0.010	mg/L	SW846 6010B
Iron - DISSOLVED	0.090 B	0.10	mg/L	SW846 6010B
Potassium - DISSOLVED	491 J	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	56.3	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	1.6	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	114	5.0	mg/L	SW846 6010B
Nickel - DISSOLVED	0.81	0.040	mg/L	SW846 6010B
Barium	0.044 B	0.20	mg/L	SW846 6010B
Calcium	214	5.0	mg/L	SW846 6010B
Chromium	0.0090 B	0.010	mg/L	SW846 6010B
Iron	0.15	0.10	mg/L	SW846 6010B
Potassium	490 J	5.0	mg/L	SW846 6010B
Magnesium	54.9	5.0	mg/L	SW846 6010B
Manganese	1.4	0.015	mg/L	SW846 6010B
Sodium	112	5.0	mg/L	SW846 6010B
Nickel	0.77	0.040	mg/L	SW846 6010B
Total Cyanide	0.006 B	0.010	mg/L	MCAWW 335.2
Chloride	191	5.0	mg/L	MCAWW 300.0A
Sulfate	948	5.0	mg/L	MCAWW 300.0A

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A8E120120

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
WG-12616-050808-DN-05 05/08/08 18:10	**005**			
Barium - DISSOLVED	0.069 B	0.20	mg/L	SW846 6010B
Calcium - DISSOLVED	359	5.0	mg/L	SW846 6010B
Iron - DISSOLVED	0.14	0.10	mg/L	SW846 6010B
Potassium - DISSOLVED	297 J	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	86.9	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	8.3	0.015	mg/L	SW846 6010B
Sodium - DISSOLVED	110	5.0	mg/L	SW846 6010B
Nickel - DISSOLVED	0.65	0.040	mg/L	SW846 6010B
Barium	0.064 B	0.20	mg/L	SW846 6010B
Calcium	333	5.0	mg/L	SW846 6010B
Potassium	284 J	5.0	mg/L	SW846 6010B
Magnesium	81.3	5.0	mg/L	SW846 6010B
Manganese	7.1	0.015	mg/L	SW846 6010B
Sodium	104	5.0	mg/L	SW846 6010B
Nickel	0.61	0.040	mg/L	SW846 6010B
Chloride	158	5.0	mg/L	MCAWW 300.0A
Sulfate	1220	10.0	mg/L	MCAWW 300.0A

ANALYTICAL METHODS SUMMARY

A8E120120

PARAMETER	ANALYTICAL METHOD
Chloride	MCAWW 300.0A
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Sulfate	MCAWW 300.0A
Total Cyanide	MCAWW 335.2

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A8E120120

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
KM19D	001	WG-12616-050808-DN-01	05/08/08	16:10
KM19F	002	WG-12616-050808-DN-02	05/08/08	16:40
KM19G	003	WG-12616-050808-DN-03	05/08/08	17:00
KM19H	004	WG-12616-050808-DN-04	05/08/08	17:35
KM19J	005	WG-12616-050808-DN-05	05/08/08	18:10

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.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-050808-DN-01

TOTAL Metals

Lot-Sample #...: A8E120120-001 Matrix.....: WG
Date Sampled...: 05/08/08 16:10 Date Received..: 05/10/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8135013						
Barium	0.096 B	0.20	mg/L	SW846 6010B	05/14-05/15/08	KM19D1AA
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	212	5.0	mg/L	SW846 6010B	05/14-05/15/08	KM19D1AC
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	05/14-05/15/08	KM19D1AD
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	3.7	0.10	mg/L	SW846 6010B	05/14-05/15/08	KM19D1AE
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	430 J	5.0	mg/L	SW846 6010B	05/14-05/15/08	KM19D1AF
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	38.5	5.0	mg/L	SW846 6010B	05/14-05/15/08	KM19D1AG
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	1.1	0.015	mg/L	SW846 6010B	05/14-05/15/08	KM19D1AH
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	103	5.0	mg/L	SW846 6010B	05/14-05/15/08	KM19D1AJ
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	0.53	0.040	mg/L	SW846 6010B	05/14-05/15/08	KM19D1AK
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-050808-DN-01

DISSOLVED Metals

Lot-Sample #...: A8E120120-001 **Matrix.....:** WG
Date Sampled...: 05/08/08 16:10 **Date Received..:** 05/10/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8135013						
Barium	**0.095 B**	**0.20**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19D1AP**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**208**	**5.0**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19D1AQ**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	05/14-05/15/08	KM19D1AR
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	**4.2**	**0.10**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19D1AT**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**424 J**	**5.0**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19D1AU**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**37.9**	**5.0**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19D1AV**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**1.1**	**0.015**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19D1AW**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**101**	**5.0**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19D1AX**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.51**	**0.040**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19D1A0**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-050808-DN-01

General Chemistry

Lot-Sample #...: A8E120120-001 **Work Order #...:** KM19D **Matrix.....:** WG
Date Sampled...: 05/08/08 16:10 **Date Received..:** 05/10/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**172**	**5.0**	**mg/L**	**MCAWW 300.0A**	**05/16/08**	**8137283**
		Dilution Factor: 5		MDL.....: 0.50		
Sulfate	**936**	**5.0**	**mg/L**	**MCAWW 300.0A**	**05/16/08**	**8137280**
		Dilution Factor: 5		MDL.....: 0.60		
Total Cyanide	ND	0.010	mg/L	MCAWW 335.2	05/19/08	8140505
		Dilution Factor: 1		MDL.....: 0.005		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-050808-DN-02

TOTAL Metals

Lot-Sample #...: A8E120120-002 **Matrix.....:** WG
Date Sampled...: 05/08/08 16:40 **Date Received..:** 05/10/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8135013						
Barium	**0.090 B**	**0.20**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19F1AC**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**202**	**5.0**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19F1AD**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	05/14-05/15/08	KM19F1AE
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	**1.3**	**0.10**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19F1AF**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**413 J**	**5.0**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19F1AG**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**36.9**	**5.0**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19F1AH**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**0.99**	**0.015**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19F1AJ**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**98.8**	**5.0**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19F1AK**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.51**	**0.040**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19F1AL**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-050808-DN-02

DISSOLVED Metals

Lot-Sample #...: A8E120120-002 **Matrix.....:** WG
Date Sampled...: 05/08/08 16:40 **Date Received..:** 05/10/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8135013						
Barium	**0.097 B**	**0.20**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19F1AQ**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**213**	**5.0**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19F1AR**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	05/14-05/15/08	KM19F1AT
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	**4.1**	**0.10**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19F1AU**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**432 J**	**5.0**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19F1AV**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**38.8**	**5.0**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19F1AW**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**1.1**	**0.015**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19F1AX**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**103**	**5.0**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19F1A0**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.53**	**0.040**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19F1AA**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-050808-DN-02

General Chemistry

Lot-Sample #...: A8E120120-002 **Work Order #...:** KM19F **Matrix.....:** WG
Date Sampled...: 05/08/08 16:40 **Date Received..:** 05/10/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**171**	**5.0**	**mg/L**	**MCAWW 300.0A**	**05/16/08**	**8137283**
		Dilution Factor: 5		MDL.....: 0.50		
Sulfate	**931**	**5.0**	**mg/L**	**MCAWW 300.0A**	**05/16/08**	**8137280**
		Dilution Factor: 5		MDL.....: 0.60		
Total Cyanide	ND	0.010	mg/L	MCAWW 335.2	05/19/08	8140505
		Dilution Factor: 1		MDL.....: 0.005		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-050808-DN-03

TOTAL Metals

Lot-Sample #...: A8E120120-003 **Matrix.....:** WG
Date Sampled...: 05/08/08 17:00 **Date Received..:** 05/10/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8135013						
Barium	**0.039 B**	**0.20**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19G1AC**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**357**	**5.0**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19G1AD**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	05/14-05/15/08	KM19G1AE
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	**0.23**	**0.10**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19G1AF**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**447 J**	**5.0**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19G1AG**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**83.9**	**5.0**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19G1AH**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**3.8**	**0.015**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19G1AJ**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**148**	**5.0**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19G1AK**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.98**	**0.040**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19G1AL**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-050808-DN-03

DISSOLVED Metals

Lot-Sample #...: A8E120120-003 **Matrix.....:** WG
Date Sampled...: 05/08/08 17:00 **Date Received..:** 05/10/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8135013						
Barium	**0.037 B**	**0.20**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19G1AQ**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**361**	**5.0**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19G1AR**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	05/14-05/15/08	KM19G1AT
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	**0.25**	**0.10**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19G1AU**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**444 J**	**5.0**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19G1AV**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**85.1**	**5.0**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19G1AW**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**3.9**	**0.015**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19G1AX**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**149**	**5.0**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19G1A0**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.99**	**0.040**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19G1AA**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-050808-DN-03

General Chemistry

Lot-Sample #...: A8E120120-003 **Work Order #...:** KM19G **Matrix.....:** WG
Date Sampled...: 05/08/08 17:00 **Date Received..:** 05/10/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**250**	**10.0**	**mg/L**	**MCAWW 300.0A**	**05/16/08**	**8137283**
		Dilution Factor: 10		MDL.....: 1.0		
Sulfate	**1300**	**10.0**	**mg/L**	**MCAWW 300.0A**	**05/16/08**	**8137280**
		Dilution Factor: 10		MDL.....: 1.2		
Total Cyanide	**0.01**	**0.010**	**mg/L**	**MCAWW 335.2**	**05/19/08**	**8140505**
		Dilution Factor: 1		MDL.....: 0.005		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-050808-DN-04

TOTAL Metals

Lot-Sample #...: A8E120120-004 **Matrix.....:** WG
Date Sampled...: 05/08/08 17:35 **Date Received..:** 05/10/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8135013						
Barium	**0.044 B**	**0.20**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19H1AC**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**214**	**5.0**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19H1AD**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	**0.0090 B**	**0.010**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19H1AE**
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	**0.15**	**0.10**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19H1AF**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**490 J**	**5.0**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19H1AG**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**54.9**	**5.0**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19H1AH**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**1.4**	**0.015**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19H1AJ**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**112**	**5.0**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19H1AK**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.77**	**0.040**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19H1AL**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-050808-DN-04

DISSOLVED Metals

Lot-Sample #...: A8E120120-004 **Matrix.....:** WG
Date Sampled...: 05/08/08 17:35 **Date Received..:** 05/10/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8135013						
Barium	**0.045 B**	**0.20**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19H1AQ**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**216**	**5.0**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19H1AR**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	**0.0088 B**	**0.010**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19H1AT**
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	**0.090 B**	**0.10**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19H1AU**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**491 J**	**5.0**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19H1AV**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**56.3**	**5.0**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19H1AW**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**1.6**	**0.015**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19H1AX**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**114**	**5.0**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19H1A0**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.81**	**0.040**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19H1AA**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-050808-DN-04

General Chemistry

Lot-Sample #...: A8E120120-004 **Work Order #...:** KM19H **Matrix.....:** WG
Date Sampled...: 05/08/08 17:35 **Date Received..:** 05/10/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**191**	**5.0**	**mg/L**	**MCAWW 300.0A**	**05/16/08**	**8137283**
		Dilution Factor: 5		MDL.....: 0.50		
Sulfate	**948**	**5.0**	**mg/L**	**MCAWW 300.0A**	**05/16/08**	**8137280**
		Dilution Factor: 5		MDL.....: 0.60		
Total Cyanide	**0.006 B**	**0.010**	**mg/L**	**MCAWW 335.2**	**05/19/08**	**8140505**
		Dilution Factor: 1		MDL.....: 0.005		

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-050808-DN-05

TOTAL Metals

Lot-Sample #...: A8E120120-005 **Matrix.....:** WG
Date Sampled...: 05/08/08 18:10 **Date Received..:** 05/10/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8135013						
Barium	**0.064 B**	**0.20**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19J1AC**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**333**	**5.0**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19J1AD**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	05/14-05/15/08	KM19J1AE
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	ND	0.10	mg/L	SW846 6010B	05/14-05/15/08	KM19J1AF
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**284 J**	**5.0**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19J1AG**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**81.3**	**5.0**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19J1AH**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**7.1**	**0.015**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19J1AJ**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**104**	**5.0**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19J1AK**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.61**	**0.040**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19J1AL**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-050808-DN-05

DISSOLVED Metals

Lot-Sample #...: A8E120120-005 **Matrix.....:** WG
Date Sampled...: 05/08/08 18:10 **Date Received..:** 05/10/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8135013						
Barium	**0.069 B**	**0.20**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19J1AQ**
		Dilution Factor: 1		MDL.....: 0.00067		
Calcium	**359**	**5.0**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19J1AR**
		Dilution Factor: 1		MDL.....: 0.13		
Chromium	ND	0.010	mg/L	SW846 6010B	05/14-05/15/08	KM19J1AT
		Dilution Factor: 1		MDL.....: 0.0022		
Iron	**0.14**	**0.10**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19J1AU**
		Dilution Factor: 1		MDL.....: 0.081		
Potassium	**297 J**	**5.0**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19J1AV**
		Dilution Factor: 1		MDL.....: 0.072		
Magnesium	**86.9**	**5.0**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19J1AW**
		Dilution Factor: 1		MDL.....: 0.034		
Manganese	**8.3**	**0.015**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19J1AX**
		Dilution Factor: 1		MDL.....: 0.00041		
Sodium	**110**	**5.0**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19J1A0**
		Dilution Factor: 1		MDL.....: 0.59		
Nickel	**0.65**	**0.040**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM19J1AA**
		Dilution Factor: 1		MDL.....: 0.0032		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WG-12616-050808-DN-05

General Chemistry

Lot-Sample #...: A8E120120-005 **Work Order #...:** KM19J **Matrix.....:** WG
Date Sampled...: 05/08/08 18:10 **Date Received..:** 05/10/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**158**	**5.0**	**mg/L**	**MCAWW 300.0A**	**05/16/08**	**8137283**
		Dilution Factor: 5		MDL.....: 0.50		
Sulfate	**1220**	**10.0**	**mg/L**	**MCAWW 300.0A**	**05/16/08**	**8140171**
		Dilution Factor: 10		MDL.....: 1.2		
Total Cyanide	ND	0.010	mg/L	MCAWW 335.2	05/19/08	8140505
		Dilution Factor: 1		MDL.....: 0.005		

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QUALITY CONTROL SECTION

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A8E120120 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A8E140000-013 **Prep Batch #...:** 8135013						
Barium	ND	0.20	mg/L	SW846 6010B	05/14-05/15/08	KM5N11AA
		Dilution Factor: 1				
Calcium	ND	5.0	mg/L	SW846 6010B	05/14-05/15/08	KM5N11AC
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	05/14-05/15/08	KM5N11AD
		Dilution Factor: 1				
Iron	ND	0.10	mg/L	SW846 6010B	05/14-05/15/08	KM5N11AE
		Dilution Factor: 1				
Magnesium	ND	5.0	mg/L	SW846 6010B	05/14-05/15/08	KM5N11AG
		Dilution Factor: 1				
Manganese	ND	0.015	mg/L	SW846 6010B	05/14-05/15/08	KM5N11AH
		Dilution Factor: 1				
Nickel	ND	0.040	mg/L	SW846 6010B	05/14-05/15/08	KM5N11AK
		Dilution Factor: 1				
Potassium	**0.17 B**	**5.0**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM5N11AF**
		Dilution Factor: 1				
Sodium	ND	5.0	mg/L	SW846 6010B	05/14-05/15/08	KM5N11AJ
		Dilution Factor: 1				

NOTE(S):

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

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: A8E120120 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A8E140000-013 **Prep Batch #...:** 8135013						
Barium	ND	0.20	mg/L	SW846 6010B	05/14-05/15/08	KM5N11A0
		Dilution Factor: 1				
Calcium	ND	5.0	mg/L	SW846 6010B	05/14-05/15/08	KM5N11A1
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	05/14-05/15/08	KM5N11A2
		Dilution Factor: 1				
Iron	ND	0.10	mg/L	SW846 6010B	05/14-05/15/08	KM5N11A3
		Dilution Factor: 1				
Magnesium	ND	5.0	mg/L	SW846 6010B	05/14-05/15/08	KM5N11A5
		Dilution Factor: 1				
Manganese	ND	0.015	mg/L	SW846 6010B	05/14-05/15/08	KM5N11A6
		Dilution Factor: 1				
Nickel	ND	0.040	mg/L	SW846 6010B	05/14-05/15/08	KM5N11A8
		Dilution Factor: 1				
Potassium	**0.17 B**	**5.0**	**mg/L**	**SW846 6010B**	**05/14-05/15/08**	**KM5N11A4**
		Dilution Factor: 1				
Sodium	ND	5.0	mg/L	SW846 6010B	05/14-05/15/08	KM5N11A7
		Dilution Factor: 1				

NOTE(S):

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

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A8E120120 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		Work Order #: KNC9G1AA		MB Lot-Sample #:	A8E160000-283	
	ND	1.0	mg/L	MCAWW 300.0A	05/16/08	8137283
		Dilution Factor: 1				
Sulfate		Work Order #: KNC9A1AA		MB Lot-Sample #:	A8E160000-280	
	ND	1.0	mg/L	MCAWW 300.0A	05/16/08	8137280
		Dilution Factor: 1				
Sulfate		Work Order #: KNF4D1AA		MB Lot-Sample #:	A8E190000-171	
	ND	1.0	mg/L	MCAWW 300.0A	05/16/08	8140171
		Dilution Factor: 1				
Total Cyanide		Work Order #: KNGQJ1AA		MB Lot-Sample #:	A8E190000-505	
	ND	0.010	mg/L	MCAWW 335.2	05/19/08	8140505
		Dilution Factor: 1				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A8E120120 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A8E140000-013 **Prep Batch #...:** 8135013					
Barium	111	(80 - 120)	SW846 6010B Dilution Factor: 1	05/14-05/15/08	KM5N11AL
Calcium	103	(80 - 120)	SW846 6010B Dilution Factor: 1	05/14-05/15/08	KM5N11AM
Chromium	103	(80 - 120)	SW846 6010B Dilution Factor: 1	05/14-05/15/08	KM5N11AN
Iron	105	(77 - 122)	SW846 6010B Dilution Factor: 1	05/14-05/15/08	KM5N11AP
Potassium	104	(80 - 120)	SW846 6010B Dilution Factor: 1	05/14-05/15/08	KM5N11AQ
Magnesium	102	(80 - 120)	SW846 6010B Dilution Factor: 1	05/14-05/15/08	KM5N11AR
Manganese	108	(80 - 120)	SW846 6010B Dilution Factor: 1	05/14-05/15/08	KM5N11AT
Sodium	100	(80 - 120)	SW846 6010B Dilution Factor: 1	05/14-05/15/08	KM5N11AU
Nickel	107	(80 - 120)	SW846 6010B Dilution Factor: 1	05/14-05/15/08	KM5N11AV

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: A8E120120 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A8E140000-013 **Prep Batch #...:** 8135013					
Barium	111	(80 - 120)	SW846 6010B Dilution Factor: 1	05/14-05/15/08	KM5N11CC
Calcium	103	(80 - 120)	SW846 6010B Dilution Factor: 1	05/14-05/15/08	KM5N11CD
Chromium	103	(80 - 120)	SW846 6010B Dilution Factor: 1	05/14-05/15/08	KM5N11CE
Iron	105	(77 - 122)	SW846 6010B Dilution Factor: 1	05/14-05/15/08	KM5N11CF
Potassium	104	(80 - 120)	SW846 6010B Dilution Factor: 1	05/14-05/15/08	KM5N11CG
Magnesium	102	(80 - 120)	SW846 6010B Dilution Factor: 1	05/14-05/15/08	KM5N11CH
Manganese	108	(80 - 120)	SW846 6010B Dilution Factor: 1	05/14-05/15/08	KM5N11CJ
Sodium	100	(80 - 120)	SW846 6010B Dilution Factor: 1	05/14-05/15/08	KM5N11CK
Nickel	107	(80 - 120)	SW846 6010B Dilution Factor: 1	05/14-05/15/08	KM5N11CL

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: A8E120120 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		WO#:KNC9G1AC-LCS/KNC9G1AD-LCSD LCS Lot-Sample#: A8E160000-283					
	93	(90 - 110)			MCAWW 300.0A	05/16/08	8137283
	93	(90 - 110)	0.21	(0-20)	MCAWW 300.0A	05/16/08	8137283
		Dilution Factor: 1					
Sulfate		WO#:KNC9A1AC-LCS/KNC9A1AD-LCSD LCS Lot-Sample#: A8E160000-280					
	93	(90 - 110)			MCAWW 300.0A	05/16/08	8137280
	93	(90 - 110)	0.21	(0-20)	MCAWW 300.0A	05/16/08	8137280
		Dilution Factor: 1					
Sulfate		WO#:KNF4D1AC-LCS/KNF4D1AD-LCSD LCS Lot-Sample#: A8E190000-171					
	93	(90 - 110)			MCAWW 300.0A	05/16/08	8140171
	93	(90 - 110)	0.21	(0-20)	MCAWW 300.0A	05/16/08	8140171
		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 #...: A8E120120 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Cyanide		Work Order #: KNGQJ1AC	LCS Lot-Sample#: A8E190000-505		
	89	(69 - 118)	MCAWW 335.2	05/19/08	8140505
		Dilution Factor: 1			

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A8E120120 **Matrix.....:** WG
Date Sampled...: 05/08/08 16:10 **Date Received..:** 05/10/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A8E120120-001 **Prep Batch #...:** 8135013							
Barium	112	(75 - 125)			SW846 6010B	05/14-05/15/08	KM19D1A1
	113	(75 - 125)	0.84	(0-20)	SW846 6010B	05/14-05/15/08	KM19D1A2
		Dilution Factor: 1					
Calcium	NC,MSB	(75 - 125)			SW846 6010B	05/14-05/15/08	KM19D1A3
	NC,MSB	(75 - 125)		(0-20)	SW846 6010B	05/14-05/15/08	KM19D1A4
		Dilution Factor: 1					
Chromium	104	(75 - 125)			SW846 6010B	05/14-05/15/08	KM19D1A5
	105	(75 - 125)	1.2	(0-20)	SW846 6010B	05/14-05/15/08	KM19D1A6
		Dilution Factor: 1					
Iron	93	(75 - 125)			SW846 6010B	05/14-05/15/08	KM19D1A7
	90	(75 - 125)	0.58	(0-20)	SW846 6010B	05/14-05/15/08	KM19D1A8
		Dilution Factor: 1					
Magnesium	103	(75 - 125)			SW846 6010B	05/14-05/15/08	KM19D1CC
	104	(75 - 125)	0.39	(0-20)	SW846 6010B	05/14-05/15/08	KM19D1CD
		Dilution Factor: 1					
Manganese	108	(75 - 125)			SW846 6010B	05/14-05/15/08	KM19D1CE
	107	(75 - 125)	0.13	(0-20)	SW846 6010B	05/14-05/15/08	KM19D1CF
		Dilution Factor: 1					
Nickel	104	(75 - 125)			SW846 6010B	05/14-05/15/08	KM19D1CJ
	105	(75 - 125)	0.29	(0-20)	SW846 6010B	05/14-05/15/08	KM19D1CK
		Dilution Factor: 1					
Potassium	NC,MSB	(75 - 125)			SW846 6010B	05/14-05/15/08	KM19D1A9
	NC,MSB	(75 - 125)		(0-20)	SW846 6010B	05/14-05/15/08	KM19D1CA
		Dilution Factor: 1					
Sodium	104	(75 - 125)			SW846 6010B	05/14-05/15/08	KM19D1CG
	102	(75 - 125)	0.66	(0-20)	SW846 6010B	05/14-05/15/08	KM19D1CH
		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 were not calculated because the sample amount was greater than four times the spike amount.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A8E120120 **Matrix.....:** WATER
Date Sampled...: 05/15/08 06:45 **Date Received..:** 05/15/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		WO#: KM0Q91AU-MS/KM0Q91AV-MSD				MS Lot-Sample #: A8E100113-011	
	NC,MSB	(80 - 120)			MCAWW 300.0A	05/16/08	8137283
	NC,MSB	(80 - 120)		(0-20)	MCAWW 300.0A	05/16/08	8137283
		Dilution Factor: 1					
Total Cyanide		WO#: KM8F81A4-MS/KM8F81A5-MSD				MS Lot-Sample #: A8E150104-001	
	96	(42 - 140)			MCAWW 335.2	05/19/08	8140504
	90	(42 - 140)	6.8	(0-20)	MCAWW 335.2	05/19/08	8140504
		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 were not calculated because the sample amount was greater than four times the spike amount.

GM REALM ENCORE

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

* sample batch complete

PAGE 1 OF 1

ID # Nº 04072

SSOW Ref. Code: R016018

Required Client Information:

Company:	CRA	Report To:	A. LaVine
Address:	Sandusky	Copy To:	A. Brun
		Invoice To:	
		P.O.:	
Phone:		Project Name:	
Fax:		Project Number:	12616-71-501012
E-mail:			

Laboratory:	Test America
Laboratory Location:	N. Canton, OH
Laboratory Contact:	
Requested Due Date:	TAT: Std.
QA/QC Requirements:	

Valid Matrix Codes:
WG Groundwater
WB Borehole Water
WS Surface Water
SO Soil
SE Sediment
See Back for Additional Codes

Analysis and Method

	Sample Identification:	Matrix Code	Date Collected	Time Collected	# Containers	Preservative: Unpreserved	HCl	H2SO4	HNO3	NaOH	Other:	Tot + Dis. Metals	Chloride, Sulfate	CN	Remarks/Lab ID
1.	WG-12616-050808-DN-01	WG	5.8.08	1610	4							X	X	X	
2.	02	↓	↓	1640	4							X	X	X	Dis. metals were field filtered
3.	03			1700	4							X	X	X	
4.	04			1735	4							X	X	X	
5.	05			1810	4							X	X	X	
6.															
7.															
8.															
9.															
10.															
11.															
12.															
13.															
14.															
15.															
	TOTAL NUMBER OF CONTAINERS				20										

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY / AFFILIATION	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME
Fed Ex	1	Don Newton / CRA	5.9.08	1600	Test America	5/9/08	950
AIRBILL NO.							

Sample Condition

Temp in °C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Samples Intact	Y / N

Additional Comments:

Sampler Name: Don Newton

Sampler Signature: Don Newton Date: 5.9.08

Distribution: WHITE - Fully Executed Copy YELLOW - Receiving Laboratory Copy PINK - Sampler Copy

REV. 0 (6-04)

North Canton

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** 480-100180 and 480-120120

North Canton Facility

Client CRA Sandusky Project 12616-11 By: (Signature)

Cooler Received on 10 May 2008 Opened on 10 May 2008

FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other

TestAmerica Cooler # L874 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
   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 BAG ICE
6. Cooler temperature upon receipt 5.7 °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#* 113007-HNO_3; *Sulfuric Acid Lot#* 071707-H_2SO_4; *Sodium Hydroxide Lot#* 073007 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 050205-CH_3COO_2ZN/*NaOH.*

What time was preserved added to sample(s)? _____

Client ID	pH	Date	Initials
01	<2 <2 >12	10 May 08	MAF
02	<2 <2 >12		
03	<2 <2 >12		
04	<2 <2 >12		
05	<2 <2 >12		

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Cooler #	Temp. °C	Method	Coolant

Discrepancies Cont'd:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

END OF REPORT

APPENDIX E

DATA QUALITY ASSESSMENT AND VALIDATION REPORTS

APPENDIX E-1

DATA QUALITY ASSESSMENT AND VALIDATION REPORT - FEBRUARY 2008
(SEMI-ANNUAL EVENT)

CONESTOGA-ROVERS & ASSOCIATES

9033 Meridian Way
West Chester, OH 45069
Telephone: (513) 942-4750 Fax: (513) 942-8585
www.CRAworld.com

MEMORANDUM

TO: Andrew LaVine

REF. NO.: 012650-016016

FROM: Angela Bown/jbh/6-NF AB/jbh

DATE: February 28, 2008

E-Mail and Hard Copy if Requested

C.C.: Mike Okamoto, Karen Partington

RE: Data Quality Assessment and Reduced Validation
Semi-Annual Groundwater Monitoring
REALM - Elyria, Ohio
February 2008

The following details a quality assessment and validation of the analytical data resulting from the collection of 21 groundwater samples, including one field duplicate pair, from the General Motors REALM Site in Elyria, Ohio, in February 2008. The sample summary detailing sample identification, sample location, quality control (QC) samples, and analytical parameters is presented in Table 1. Sample analysis was completed at TestAmerica Laboratories, Inc. in North Canton, Ohio, in accordance with the methodologies presented in Table 2. The QC criteria used to assess the data were established by the methods and the document entitled "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", United States Environmental Protection Agency (USEPA) 540/R-94-013, February 1994.

The data quality assessment and validation presented in the following subsections were performed based on information obtained from the Chain of Custody forms, finished report forms, blank data, duplicate data, and recovery data for blank and matrix spikes.

Holding Time Period and Sample Analysis

The holding time criteria are presented in Table 2. All samples were prepared and analyzed within the method-required holding times. All samples were properly preserved and cooled to 4°C (±2°C) after collection.

Method Blank Samples

Method blanks are prepared and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the procedures.

For this study, method blanks were analyzed at a minimum frequency of one per analytical batch. The blank results were non-detect for all analytes of interest, indicating laboratory contamination was not an issue.

Laboratory Control Sample (LCS) Analysis

The LCS serves as a measure of overall analytical performance. LCSs are prepared and analyzed with each sample batch. Some LCSs were prepared and analyzed in duplicate.

All LCS recoveries and relative percent differences (RPDs) were within the specified control limits for all parameters demonstrating acceptable overall analytical accuracy and precision.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

To evaluate the effects of sample matrices on the preparation, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS samples. The laboratory prepared the spike samples in duplicate to assess analytical precision. The sample specified for MS/MSD analysis is indicated in Table 1. The laboratory performed additional analyses internally.

All MS/MSD analyses performed were acceptable, demonstrating good analytical accuracy and precision.

Field Duplicate Analysis

To assess the analytical and sampling protocol precision, one field duplicate sample set was collected and submitted "blind" to the laboratory for analysis as shown in Table 1. The field duplicate results showed adequate reproducibility, indicating satisfactory laboratory and sampling protocol precision with the exception of the cyanide results for sample WG-12616-020708-DN-12 and its field duplicate, WG-12616-020708-DN-13. Table 3 presents the sample data that was qualified due to field duplicate variability.

Total Versus Dissolved Results for Metals

Most dissolved metals results were less than the total results or were within the normal variability of the method (20 percent RPD). The dissolved results for some samples were greater than the total results and were in exceedance of the method variability. Table 4 presents the sample data that was qualified due to outlying total versus dissolved variability.

Overall Assessment

The data were found to exhibit acceptable levels of accuracy and precision, based on the provided information, and may be used as reported with the qualifications noted.

Herriven, Joanne

From: roddmcminn [roddmcminn@wmgny.com]
Sent: Thursday, February 28, 2008 10:16 AM
To: Herriven, Joanne
Subject: 401k

Hi Joanne,

In follow up to our phone conversation, the distribution check from Securian should reference your social security number. We won't have a contract number to reference before the Securian form is sent in. If you can fax or mail me a copy of the form when Nancy faxes it to Securian, that would be fine. We won't need the original. As long as we have a copy to put with your paperwork for MetLife, that should be sufficient.

Thanks,
Rodd

Rodd S. McMinn
Wealth Management Group
65 Bryant Woods South
Amherst, NY 14228

Phone: 716-625-4520
Toll Free: 800-481-2976 (ext. 250)
Fax: 716-636-5591

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
SEMI-ANNUAL GROUNDWATER MONITORING
REALM - ELYRIA
ELYRIA, OHIO
FEBRUARY 2008

				Analysis/Parameters			
Sample ID	*Location ID*	*Collection Date (mm/dd/yy)*	*Collection Time (hr:min)*	*Total and Dissolved Metals*	*Chloride, Sulfate*	*Cyanide*	*Comments*
WG-12616-020608-DN-01	P-8T	02/06/08	15:40	X	X	X	
WG-12616-020608-DN-02	P-8R	02/06/08	16:35	X	X	X	
WG-12616-020608-DN-03	P-16	02/06/08	17:50	X	X	X	
WG-12616-020608-DN-04	P-16T	02/06/08	18:05	X	X	X	
WG-12616-020708-DN-05	P-2	02/07/08	8:20	X	X	X	
WG-12616-020708-DN-06	P-2T	02/07/08	9:00	X	X	X	
WG-12616-020708-DN-07	P-13	02/07/08	10:20	X	X	X	
WG-12616-020708-DN-08	P-13T	02/07/08	10:55	X	X	X	
WG-12616-020708-DN-09	P-12	02/07/08	12:35	X	X	X	MS/MSD
WG-12616-020708-DN-10	P-12TR	02/07/08	13:10	X	X	X	
WG-12616-020708-DN-11	P-14	02/07/08	14:45	X	X	X	MS/MSD
WG-12616-020708-DN-12	P-14T	02/07/08	15:20	X	X	X	
WG-12616-020708-DN-13	P-14T	02/07/08	16:50	X	X	X	Field Duplicate of WG-12616-020708-DN-12
WG-12616-020708-DN-14	NW Primary	02/07/08	17:25	X	X	X	
WG-12616-020808-DN-15	NE Primary	02/08/08	9:00	X	X	X	
WG-12616-020808-DN-16	SE Primary	02/08/08	9:45	X	X	X	
WG-12616-020808-DN-17	SW Primary	02/08/08	10:25	X	X	X	
WG-12616-020808-DN-18	NW Secondary	02/08/08	11:25	X	X	X	
WG-12616-020808-DN-19	NE Secondary	02/08/08	12:10	X	X	X	
WG-12616-020808-DN-20	SE Secondary	02/08/08	12:55	X	X	X	
WG-12616-020808-DN-21	SW Secondary	02/08/08	13:35	X	X	X	

Notes:
MS Matrix Spike.
MSD Matrix Spike Duplicate.

TABLE 2

SAMPLE HOLDING TIME CRITERIA AND ANALYTICAL METHODS SUMMARY
SEMI-ANNUAL GROUNDWATER MONITORING
REALM - ELYRIA
ELYRIA, OHIO
FEBRUARY 2008

Parameter	*Analytical Method*	*Collection to Extraction (Days)*	*Collection/Extraction to Analysis (Days)*
Total Metals	6010B [1]	-	180
Dissolved Metals	6010B [1]	-	180
Chloride	300.0 [2]	-	28
Sulfate	300.0 [2]	-	28
Cyanide	335.2 [2]	-	14

Notes:

[1] Referenced from "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions.

[2] Referenced from "Methods for Chemical Analysis of Water and Wastes", USEPA-600/4-79-020, March 1983 with subsequent revisions.

\- Not Applicable.

USEPA United States Environmental Protection Agency.

TABLE 3

QUALIFIED SAMPLE RESULTS DUE TO VARIABILITY IN FIELD DUPLICATE RESULTS
SEMI-ANNUAL GROUNDWATER MONITORING
REALM - ELYRIA
ELYRIA, OHIO
FEBRUARY 2008

Parameter	*Analyte*	*Original Sample ID*	*Original Result*	*Duplicate Sample ID*	*Duplicate Result*	*RPD*	*Units*	*Qualifier* [1]
General Chemistry	Cyanide (total)	WG-12616-020708-DN-12	0.010 U	WG-12616-020708-DN-13	0.089	160	mg/L	J

Notes:

[1] The qualifier applies to both the original and duplicate results.

J Estimated.

U Not detected.

TABLE 4

QUALIFIED ANALYTICAL DATA DUE TO A DISCREPANCY IN THE TOTAL VS. DISSOLVED RESULTS
SEMI-ANNUAL GROUNDWATER MONITORING
REALM - ELYRIA
ELYRIA, OHIO
FEBRUARY 2008

Analyte	*Sample ID*	*Total Result*	*Dissolved Result*	*Qualified Total Result*	*Qualified Dissolved Result*	*Units*
Sodium	WG-12616-020608-DN-01	10.4	19.0	10.4 J	19.0 J	mg/L
Sodium	WG-12616-020708-DN-08	23.2	32.6	23.2 J	32.6 J	mg/L
Manganese	WG-12616-020708-DN-09	0.021	0.041	0.021 J	0.041 J	mg/L

Note:
J Estimated.

APPENDIX E-2

DATA QUALITY ASSESSMENT AND VALIDATION REPORT - APRIL 2008 (CONFIRMATION EVENT)

CONESTOGA-ROVERS & ASSOCIATES

9033 Meridian Way
West Chester, OH 45069
Telephone: (513) 942-4750 Fax: (513) 942-8585
www.CRAworld.com

Please note that the CRA logo can only be viewed in 'Page Layout' or Print Preview

MEMORANDUM

TO: Andrew LaVine

REF. NO.: 012616 (012650-016017)

FROM: Angela Bown/pga/13-NF

DATE: April 18, 2008

E-Mail and Hard Copy if Requested

C.C.: Mike Okamoto, Karen Partington

RE: **Data Quality Assessment and Validation**
Confirmatory Groundwater Sampling
REALM - Elyria, Ohio
April 2008

The following details a quality assessment and validation of the analytical data resulting from the collection of nine groundwater samples, including one field duplicate pair, from the General Motors REALM Site in Elyria, Ohio, in April 2008. The sample summary detailing sample identification, sample location, quality control (QC) samples, and analytical parameters is presented in Table 1. Sample analysis was completed at TestAmerica Laboratories, Inc. (TestAmerica) in North Canton, Ohio, in accordance with the methodologies presented in Table 2. The QC criteria used to assess the data were established by the methods and the document entitled "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", United States Environmental Protection Agency (USEPA) 540/R-94-013, February 1994.

The data quality assessment and validation presented in the following subsections were performed based on information obtained from the Chain of Custody forms, finished report forms, blank data, duplicate data, and recovery data for blank and matrix spikes.

Holding Time Period and Sample Analysis

The holding time criteria are presented in Table 2. All samples were prepared and analyzed within the method-required holding times. All samples were properly preserved and cooled to 4°C (±2°C) after collection.

Method Blank Samples

Method blanks are prepared and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the procedures.

For this study, method blanks were analyzed at a minimum frequency of one per analytical batch. The blank results were non-detect for most analytes of interest. Low levels of certain dissolved metals were detected in the method blank; however, the investigative samples were not qualified because the results were greater than five times the blank value.

Laboratory Control Sample (LCS) Analysis

The LCS serves as a measure of overall analytical performance. LCSs are prepared and analyzed with each sample batch. Some LCSs were prepared and analyzed in duplicate.

All LCS recoveries and relative percent differences (RPDs) were within the specified control limits for all parameters demonstrating acceptable overall analytical accuracy and precision.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

To evaluate the effects of sample matrices on the preparation, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS samples. The laboratory prepared the spike samples in duplicate to assess analytical precision. No site-specific samples were chosen for MS/MSD analysis; therefore, evaluation of the data was not performed.

Field Duplicate Analysis

To assess the analytical and sampling protocol precision, one field duplicate sample set was collected and submitted "blind" to the laboratory for analysis as shown in Table 1. The field duplicate results showed adequate reproducibility, indicating satisfactory laboratory and sampling protocol precision.

Overall Assessment

The data were found to exhibit acceptable levels of accuracy and precision, based on the provided information, and may be used as reported.

TABLE 1
SAMPLE COLLECTION AND ANALYSIS SUMMARY
CONFIRMATORY GROUNDWATER SAMPLING
REALM - ELYRIA
ELYRIA, OHIO
APRIL 2008

				Analysis/Parameters								
Sample ID	*Location ID*	*Collection Date (mm/dd/yy)*	*Collection Time (hr:min)*	*Dissolved Barium*	*Dissolved Sodium*	*Dissolved Potassium*	*Dissolved Calcium*	*Dissolved Magnesium*	*Dissolved Nickel*	*Sulfate*	*Chloride*	*Comments*
WG-12616-040108-DN-01	P-8R	04/01/08	13:40	X	X						X	
WG-12616-040108-DN-02	P-8T	04/01/08	15:00			X						
WG-12616-040108-DN-03	P-16	04/01/08	16:35				X	X	X	X	X	
WG-12616-040108-DN-04	P-16T	04/01/08	18:20		X		X	X		X		
WG-12616-040108-DN-05	P-2T	04/01/08	19:30				X	X		X	X	
WG-12616-040208-DN-06	P2	04/02/08	8:10					X				
WG-12616-040208-DN-07	P-13T	04/02/08	10:10			X	X	X		X		
WG-12616-040208-DN-08	P-13	04/02/08	12:25				X		X			
WG-12616-040208-DN-09	P-13T	04/02/08	11:30			X	X	X		X		Field Duplicate of WG-12616-040208-DN-07

TABLE 2

SAMPLE HOLDING TIME CRITERIA AND ANALYTICAL METHODS SUMMARY
CONFIRMATORY GROUNDWATER SAMPLING
REALM - ELYRIA
ELYRIA, OHIO
APRIL 2008

Parameter	*Analytical Method*	*Collection to Extraction (Days)*	*Collection/Extraction to Analysis (Days)*
Dissolved Metals	6010B [1]	-	180
Chloride	300.0 [2]	-	28
Sulfate	300.0 [2]	-	28

Notes:

1 Referenced from "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions.

2 Referenced from "Methods for Chemical Analysis of Water and Wastes", USEPA-600/4-79-020, March 1983 with subsequent revisions.

\- Not Applicable.

USEPA United States Environmental Protection Agency.

APPENDIX E-3

DATA QUALITY ASSESSMENT AND VALIDATION REPORT - AUGUST 2008
(SEMI-ANNUAL EVENT)

CONESTOGA-ROVERS & ASSOCIATES

9033 Meridian Way
West Chester, OH 45069
Telephone: (513) 942-4750 Fax: (513) 942-8585
www.CRAworld.com

MEMORANDUM

TO:	Andrew LaVine	REF. NO.:	012650-016016
FROM:	Angela Bown/bjw/8-NF AB/bjw	DATE:	September 5, 2008
C.C.:	Mike Okamoto, Karen Partington		E-Mail and Hard Copy if Requested
RE:	**Data Quality Assessment and Reduced Validation Semi-Annual Groundwater Monitoring REALM - Elyria, Ohio August 2008**		

The following details a quality assessment and validation of the analytical data resulting from the collection of 21 groundwater samples, including one field duplicate pair, from the General Motors REALM Site in Elyria, Ohio, in August 2008. The sample summary detailing sample identification, sample location, quality control (QC) samples, and analytical parameters is presented in Table 1. Sample analysis was completed at TestAmerica Laboratories, Inc. in North Canton, Ohio, in accordance with the methodologies presented in Table 2. The QC criteria used to assess the data were established by the methods and the document entitled "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", United States Environmental Protection Agency (USEPA) 540/R-94-013, February 1994.

The data quality assessment and validation presented in the following subsections were performed based on information obtained from the Chain of Custody forms, finished report forms, blank data, duplicate data, and recovery data for blank and matrix spikes.

Holding Time Period and Sample Analysis

The holding time criteria are presented in Table 2. All samples were prepared and analyzed within the method-required holding times. All samples were properly preserved and cooled to 4°C (±2°C) after collection.

Method Blank Samples

Method blanks are prepared and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the procedures.

For this study, method blanks were analyzed at a minimum frequency of one per analytical batch. The blank results were non-detect for most analytes of interest. Certain metals were detected in the method blanks for total and dissolved metals. All sample results were greater than five times the value of the method blanks, and qualification of the data was not necessary on this basis.

Laboratory Control Sample (LCS) Analysis

The LCS serves as a measure of overall analytical performance. LCSs are prepared and analyzed with each sample batch. Some LCSs were prepared and analyzed in duplicate.

All LCS recoveries and relative percent differences (RPDs) were within the specified control limits for all parameters demonstrating acceptable overall analytical accuracy and precision.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

To evaluate the effects of sample matrices on the preparation, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS samples. The laboratory prepared the spike samples in duplicate to assess analytical precision. The sample specified for MS/MSD analysis is indicated in Table 1. The laboratory performed additional analyses internally.

All MS/MSD analyses performed were acceptable, demonstrating good analytical accuracy and precision.

Field Duplicate Analysis

To assess the analytical and sampling protocol precision, one field duplicate sample set was collected and submitted "blind" to the laboratory for analysis as shown in Table 1. The field duplicate results showed adequate reproducibility, indicating satisfactory laboratory and sampling protocol precision.

Total Versus Dissolved Results for Metals

Most dissolved metals results were less than the total results or were within the normal variability of the method (20 percent RPD). The dissolved results for some samples were greater than the total results and were in exceedance of the method variability. Table 3 presents the sample data that were qualified due to outlying total versus dissolved variability.

Overall Assessment

The data were found to exhibit acceptable levels of accuracy and precision, based on the provided information, and may be used as reported with the qualifications noted.

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
SEMI-ANNUAL GROUNDWATER MONITORING
REALM - ELYRIA
ELYRIA, OHIO
AUGUST 2008

				Analysis/Parameters			
Sample ID	*Location ID*	*Collection Date (mm/dd/yy)*	*Collection Time (hr:min)*	*Total and Dissolved Metals*	*Chloride, Sulfate*	*Cyanide, TDS, TSS*	*Comments*
WG-12616-080808-DN-01	P-16	08/08/08	12:30	X	X	X	MS/MSD
WG-12616-080808-DN-02	P-16T	08/08/08	13:30	X	X	X	
WG-12616-080808-DN-03	P-8R	08/08/08	14:20	X	X	X	
WG-12616-080808-DN-04	P-8R	08/08/08	14:50	X	X	X	Field Duplicate of WG-12616-080808-DN-03
WG-12616-080808-DN-05	P-8T	08/08/08	15:55	X	X	X	
WG-12616-080908-DN-06	P-2	08/09/08	8:30	X	X	X	
WG-12616-080908-DN-07	P-2T	08/09/08	9:15	X	X	X	
WG-12616-080908-DN-08	P-13	08/09/08	10:55	X	X	X	
WG-12616-080908-DN-09	P-13T	08/09/08	11:15	X	X	X	
WG-12616-080908-DN-10	P-14	08/09/08	13:35	X	X	X	
WG-12616-080908-DN-11	P-14T	08/09/08	15:00	X	X	X	MS/MSD
WG-12616-080908-DN-12	P-12	08/09/08	15:30	X	X	X	
WG-12616-080908-DN-13	P-12TR	08/09/08	17:10	X	X	X	
WG-12616-080908-DN-14	NW Primary	08/09/08	17:55	X	X	X	MS/MSD
WG-12616-080908-DN-15	NE Primary	08/09/08	18:35	X	X	X	
WG-12616-081008-DN-16	SE Primary	08/10/08	8:30	X	X	X	
WG-12616-081008-DN-17	SW Primary	08/10/08	9:15	X	X	X	
WG-12616-081008-DN-18	NW Secondary	08/10/08	9:50	X	X	X	
WG-12616-081008-DN-19	NE Secondary	08/10/08	10:35	X	X	X	
WG-12616-081008-DN-20	SE Secondary	08/10/08	11:10	X	X	X	
WG-12616-081008-DN-21	SW Secondary	08/10/08	11:50	X	X	X	

Notes:
MS Matrix Spike.
MSD Matrix Spike Duplicate.
TDS Total Dissolved Solids.
TSS Total Suspended Solids.

TABLE 2

SAMPLE HOLDING TIME CRITERIA AND ANALYTICAL METHODS SUMMARY
SEMI-ANNUAL GROUNDWATER MONITORING
REALM - ELYRIA
ELYRIA, OHIO
AUGUST 2008

Parameter	*Analytical Method*	*Collection to Extraction (Days)*	*Collection/Extraction to Analysis (Days)*
Total Metals	6010B [1]	-	180
Dissolved Metals	6010B [1]	-	180
Chloride	300.0 [2]	-	28
Sulfate	300.0 [2]	-	28
Cyanide	335.2 [2]	-	14
Total Dissolved Solids	160.1 [2]	-	7
Total Suspended Solids	160.2 [2]	-	7

Notes:

1 Referenced from "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions.

2 Referenced from "Methods for Chemical Analysis of Water and Wastes", USEPA-600/4-79-020, March 1983 with subsequent revisions.

- Not Applicable.

USEPA United States Environmental Protection Agency.

TABLE 3

QUALIFIED ANALYTICAL DATA DUE TO A DISCREPANCY IN THE TOTAL VS. DISSOLVED RESULTS
SEMI-ANNUAL GROUNDWATER MONITORING
REALM - ELYRIA
ELYRIA, OHIO
AUGUST 2008

Analyte	*Sample ID*	*Qualified Total Result*	*Qualified Dissolved Result*	*Units*
Potassium	WG-12616-081008-DN-17	524 J	794 J	mg/L
Sodium	WG-12616-081008-DN-17	153 J	191 J	mg/L
Iron	WG-12616-081008-DN-18	0.38 J	0.78 J	mg/L
Manganese	WG-12616-081008-DN-18	0.10 J	0.79 J	mg/L
Iron	WG-12616-081008-DN-19	14.6 J	21.5 J	mg/L
Iron	WG-12616-081008-DN-21	0.16 J	2.6 J	mg/L

Note:
J Estimated.

APPENDIX E-4

DATA QUALITY ASSESSMENT AND VALIDATION REPORT - SEPTEMBER 2008 (CONFIRMATION EVENT)

CONESTOGA-ROVERS & ASSOCIATES

9033 Meridian Way
West Chester, OH 45069
Telephone: (513) 942-4750 Fax: (513) 942-8585
www.CRAworld.com

MEMORANDUM

TO:	Andrew LaVine	REF. NO.:	012616 (012650-016017)
FROM:	Angela Bown/bjw/14-NF AB/bjw	DATE:	October 16, 2008
C.C.:	Mike Okamoto, Karen Partington		E-Mail and Interoffice Mail
RE:	**Data Quality Assessment and Validation Confirmatory Groundwater Sampling REALM – Elyria, Ohio September 2008**		

The following details a quality assessment and validation of the analytical data resulting from the collection of nine groundwater samples, including one field duplicate pair, from the General Motors REALM Site in Elyria, Ohio, in September 2008. The sample summary detailing sample identification, sample location, quality control (QC) samples, and analytical parameters is presented in Table 1. Sample analysis was completed at TestAmerica Laboratories, Inc. (TestAmerica) in North Canton, Ohio, in accordance with the methodologies presented in Table 2. The QC criteria used to assess the data were established by the methods and the document entitled "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", United States Environmental Protection Agency (USEPA) 540/R-94-013, February 1994.

The data quality assessment and validation presented in the following subsections were performed based on information obtained from the Chain of Custody forms, finished report forms, blank data, duplicate data, and recovery data for blank and matrix spikes.

The validated sample results are presented in Table 3.

Holding Time Period and Sample Analysis

The holding time criteria are presented in Table 2. All samples were prepared and analyzed within the method-required holding times. All samples were properly preserved and cooled to 4°C (±2°C) after collection.

Method Blank Samples

Method blanks are prepared and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the procedures.

For this study, method blanks were analyzed at a minimum frequency of one per analytical batch. The blank results were non-detect for all analytes of interest.

Laboratory Control Sample (LCS) Analysis

The LCS serves as a measure of overall analytical performance. LCSs are prepared and analyzed with each sample batch. Some LCSs were prepared and analyzed in duplicate.

All LCS recoveries and relative percent differences (RPDs) were within the specified control limits for all parameters demonstrating acceptable overall analytical accuracy and precision.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

To evaluate the effects of sample matrices on the preparation, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS samples. The laboratory prepared the spike samples in duplicate to assess analytical precision. No site-specific samples were chosen for MS/MSD analyses; therefore, evaluation of the data was not performed.

Field Duplicate Analysis

To assess the analytical and sampling protocol precision, one field duplicate sample set was collected and submitted "blind" to the laboratory for analysis as shown in Table 1. The field duplicate results showed adequate reproducibility, indicating satisfactory laboratory and sampling protocol precision.

Overall Assessment

The data were found to exhibit acceptable levels of accuracy and precision, based on the provided information, and may be used as reported.

TABLE 1
SAMPLE COLLECTION AND ANALYSIS SUMMARY
CONFIRMATORY GROUNDWATER SAMPLING
REALM - ELYRIA
ELYRIA, OHIO
SEPTEMBER 2008

				Analysis/Parameters									
Sample ID	*Location ID*	*Collection Date (mm/dd/yy)*	*Collection Time (hr:min)*	*Dissolved Barium*	*Dissolved Sodium*	*Dissolved Potassium*	*Dissolved Calcium*	*Dissolved Magnesium*	*Dissolved Nickel*	*Dissolved iron*	*Sulfate*	*Chloride*	*Comments*
WG-12616-092208-DN-01	P-8R	09/22/08	15:45	X	X							X	
WG-12616-092208-DN-02	P-8T	09/22/08	16:35		X	X							
WG-12616-092208-DN-03	P-16T	09/22/08	17:25				X	X			X		
WG-12616-092208-DN-04	P-16	09/22/08	18:15				X	X	X		X	X	
WG-12616-092308-DN-05	P-2T	09/23/08	8:30				X	X			X	X	
WG-12616-092308-DN-06	P2	09/23/08	9:45			X		X					
WG-12616-092308-DN-07	P-2	09/23/08	10:25			X		X					Field Duplicate of WG-12616-092308-DN-06
WG-12616-092308-DN-08	P-13	09/23/08	10:50				X						
WG-12616-092308-DN-09	P-13T	09/23/08	12:05							X			

TABLE 2

SAMPLE HOLDING TIME CRITERIA AND ANALYTICAL METHODS SUMMARY
CONFIRMATORY GROUNDWATER SAMPLING
REALM - ELYRIA
ELYRIA, OHIO
SEPTEMBER 2008

Parameter	*Analytical Method*	*Collection to Extraction (Days)*	*Collection/Extraction to Analysis (Days)*
Dissolved Metals	6010B [1]	-	180
Chloride	300.0 [2]	-	28
Sulfate	300.0 [2]	-	28

Notes:

[1] Referenced from "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions.

[2] Referenced from "Methods for Chemical Analysis of Water and Wastes", USEPA-600/4-79-020, March 1983 with subsequent revisions.

\- Not Applicable.

USEPA United States Environmental Protection Agency.

TABLE 3

ANALYTICAL RESULTS SUMMARY
CONFIRMATORY GROUNDWATER SAMPLING
REALM - ELYRIA
ELYRIA, OHIO
SEPTEMBER 2008

Sample Location:		P-02	P-02	P-02T	P-08R	P-08T
Sample ID:		WG-12616-092308-DN-06	WG-12616-092308-DN-07	WG-12616-092308-DN-05	WG-12616-092208-DN-01	WG-12616-092208-DN-02
Sample Date:		9/23/2008	9/23/2008 (Duplicate)	9/23/2008	9/22/2008	9/22/2008
Parameters:	*Units*					
Metals						
Barium (Dissolved)	mg/L	-	-	-	0.087 J	-
Calcium (Dissolved)	mg/L	-	-	224	-	-
Iron (Dissolved)	mg/L	-	-	-	-	-
Magnesium (Dissolved)	mg/L	36.7	35.6	90.7	-	-
Nickel (Dissolved)	mg/L	-	-	-	-	-
Potassium (Dissolved)	mg/L	5.1	4.7 J	-	-	14.5
Sodium (Dissolved)	mg/L	-	-	-	176	31.0
General Chemistry						
Chloride	mg/L	-	-	123	174	-
Sulfate	mg/L	-	-	680	-	-

TABLE 3

ANALYTICAL RESULTS SUMMARY
CONFIRMATORY GROUNDWATER SAMPLING
REALM - ELYRIA
ELYRIA, OHIO
SEPTEMBER 2008

	Sample Location:	P-13	P-13T	P-16	P-16T
	Sample ID:	WG-12616-092308-DN-08	WG-12616-092308-DN-09	WG-12616-092208-DN-04	WG-12616-092208-DN-03
	Sample Date:	9/23/2008	9/23/2008	9/22/2008	9/22/2008
Parameters:	Units				
Metals					
Barium (Dissolved)	mg/L	-	-	-	-
Calcium (Dissolved)	mg/L	142	-	212	213
Iron (Dissolved)	mg/L	-	1.5	-	-
Magnesium (Dissolved)	mg/L	-	-	64.8	61.9
Nickel (Dissolved)	mg/L	-	-	0.19	-
Potassium (Dissolved)	mg/L	-	-	-	-
Sodium (Dissolved)	mg/L	-	-	-	-
General Chemistry					
Chloride	mg/L	-	-	92.3	-
Sulfate	mg/L	-	-	515	592

Notes:

- Not analyzed.
J Estimated.

APPENDIX E-5

DATA QUALITY ASSESSMENT AND VALIDATION REPORT - MAY 2008
(SECONDARY SUMPS EVENT)

CONESTOGA-ROVERS & ASSOCIATES

9033 Meridian Way, West Chester, Ohio 45069
Telephone: (513) 942-4750 Fax: (513) 942-8585
www.CRAworld.com

MEMORANDUM

TO: Andrew LaVine (Sandusky)

REF. NO.: 012650-016018

FROM: Angela Bown/bjw/7-NF ABbjw

DATE: June 5, 2008

E-Mail and Hard Copy If Requested

RE: Data Quality Assessment and Verification
Semi-Annual Monitoring Secondary Sumps
General Motors Corporation, Elyria, Ohio
May 2008

The following details a quality assessment and validation of the analytical data resulting from the May 2008, collection of four samples, and one quality control (QC) sample from the Elyria Site in Elyria, Ohio. The sample summary detailing sample identification, sample location, QC samples, and analytical parameters is presented in Table 1. Sample analysis was completed at TestAmerica, Inc. (TestAmerica) in North Canton, Ohio, in accordance with the methodologies presented in Table 2.

The quality control criteria used to assess the data were established by the methods. Application of quality assurance criteria was consistent with following guidance document: "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Review", United States Environmental Protection Agency (USEPA) 540/R-94/013, February 1994.

This guideline is referred to as "Guideline" in this memorandum.

Sample Quantitation

The laboratory reported detected concentrations of inorganics below the laboratory's practical quantitation limit (PQL)/report limit (RL) but above the laboratory's method detection limit (MDL). The laboratory flagged these sample concentrations with a "B". These concentrations should be qualified as estimated (J) values unless qualified otherwise in this memorandum. The laboratory "B" flags may be disregarded.

Sample Preservation and Holding Times

Sample holding time periods and preservation requirements are presented in the methods.

All samples were prepared and/or analyzed with the specified holding time periods.

All samples were shipped and maintained in accordance with the samples preservation requirements.

Method Blank Samples

Method blank samples are prepared from a purified sample matrix and are processed concurrently with investigative samples to assess the presence and the magnitude of sample contamination introduced during sample analysis. Method blank samples are analyzed at a minimum frequency of one per analytical batch and target analytes should be non-detect.

Certain metals were detected in the method blank sample. No qualification of the data was necessary because the associated sample results were greater than five times the value of the blank sample. The remaining method blank samples were reported to be free from detectable levels of target analytes, indicating no additional laboratory-attributable contamination occurred.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To assess the long-term accuracy and precision of the analytical methods on various matrices, MS/MSD percent recoveries and the relative percent difference (RPD) of the concentrations were determined. The inorganic control limits are defined by the methods and the "Guidelines", which require recoveries between 75 to 125 percent with RPDs less than 20 percent for water samples. Sample WG-121616-050808-DN-01 was selected for spiking for total metals. All acceptance criteria were met for the MS/MSD analysis.

Laboratory Control Sample (LCS) Analysis

The LCS analysis serves as a monitor of the overall performance in all steps of the sample analysis and is analyzed with each sample batch. The LCS percent recoveries were evaluated against method and laboratory established control limits.

The LCS percent recoveries were within the laboratory control limits indicating that an acceptable level of overall performance was achieved.

Field Quality Assurance/Quality Control (QA/QC)

The field QA/QC consisted of one field duplicate sample set.

Overall precision for the sampling event and laboratory procedures was monitored using the results of the field duplicate sample sets. The RPDs associated with these duplicate samples must be less than 50 percent for water samples. If the reported concentration in either the investigative sample or its duplicate is less than five times the RL, the evaluation criteria is one times the RL value for water samples.

The data indicate that an adequate level of precision was achieved for the sampling event with the exception of the sample data presented with qualifiers in Table 3.

Total Versus Dissolved Metals Results

Most dissolved metals results were less than the total results or were within the normal variability of the method (20 percent RPD). Some dissolved results were greater than the total results and were in exceedance of the method variability. The associated results were qualified as estimated (see Table 4).

Overall Assessment

The data were found to exhibit acceptable levels of accuracy and precision based on the provided information and may be used with the qualifications noted.

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
SEMI-ANNUAL MONITORING SECONDARY SUMPS
GENERAL MOTORS CORPORATION
ELYRIA, OHIO
MAY 2008

				Analysis/Parameters				
Sample ID	*Location ID*	*Collection Date (mm/dd/yy)*	*Collection Time (hr:min)*	*Total Metals*	*Dissolved Metals*	*Chloride, Sulfate*	*Total Cyanide*	*Comments*
WG-12616-050808-DN-01	NW Secondary Sump	05/08/08	16:10	X	X	X	X	
WG-12616-050808-DN-02	NW Secondary Sump	05/08/08	16:40	X	X	X	X	Field Duplicate of WG-12616-050808-DN-01
WG-12616-050808-DN-03	NE Secondary Sump	05/08/08	17:00	X	X	X	X	
WG-12616-050808-DN-04	SE Secondary Sump	05/08/08	17:35	X	X	X	X	
WG-12616-050808-DN-05	SW Secondary Sump	05/08/08	18:10	X	X	X	X	

TABLE 2

SUMMARY OF ANALYTICAL METHODOLOGIES
SEMI-ANNUAL MONITORING SECONDARY SUMPS
GENERAL MOTORS CORPORATION
ELYRIA, OHIO
MAY 2008

Parameter	*Method*
Total & Dissolved Metals	SW-846 6010B[1]
Chloride	MCAWW 300.0A[2]
Sulfate	MCAWW 300.0A[2]
Total Cyanide	MCAWW 335.2[2]

Notes:

1 "Test Methods for Solid Waste/Physical Chemical Methods," SW-846, 3rd Edition, September 1986 (with all subsequent revisions).

2 " Methods for Chemical Analysis of Water and Wastes", USEPA-600/4-79-020, March 1983 (with all subsequent revisions).

USEPA United States Environmental Protection Agency.

TABLE 3

QUALIFIED SAMPLE RESULTS DUE TO VARIABILITY IN FIELD DUPLICATE RESULTS
SEMI-ANNUAL MONITORING SECONDARY SUMPS
GENERAL MOTORS CORPORATION
ELYRIA, OHIO
MAY 2008

Parameter	*Analyte*	*Original Sample ID*	*Qualified Sample Result*	*Duplicate Sample ID*	*Qualified Sample Result*	*RPD*	*Units*
Metals	Iron	WG-12616-050808-DN-01	3.7 J	WG-12616-050808-DN-02	1.3 J	96	mg/L

Notes:
J Estimated.
RPD Relative Percent Difference.

TABLE 4

QUALIFIED ANALYTICAL DATA DUE TO A DISCREPANCY IN THE TOTAL VS. DISSOLVED RESULTS
SEMI-ANNUAL MONITORING SECONDARY SUMPS
GENERAL MOTORS CORPORATION
ELYRIA, OHIO
MAY 2008

Parameter	*Analyte*	*Sample ID*	*Qualified Total Result*	*Qualified Dissolved Result*	*Units*
Metals	Iron	WG-12616-050808-DN-02	1.3 J	4.1 J	mg/L

Note:
J Estimated.

Notes:

J	Estimated.
U	Not detected.
UJ	Not detected, estimated reporting limit.